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  1.6543.1 Available under license
1.6544 `gogo-status 1.0.3`
  1.6544.1 Available under license
1.6545 `perl-mime-base64 3.15 396.el8`
  1.6545.1 Available under license
1.6546 `p-limit 1.3.0`
  1.6546.1 Available under license
1.6547 `filename-reserved-regex 2.0.0`
  1.6547.1 Available under license
1.6548 `wso2-carbon-identity-provider 5.2.6`
  1.6548.1 Available under license
1.6549 `from2 2.3.0`
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1.6550 `@babel/helper-function-name 7.18.6`
  1.6550.1 Available under license
1.6551 `libsemanage 3.1 1+b2`
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1.6552 `golang-migrate-migrate 4.7.0`
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1.6553 `prometheus-client 1.2.0`
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1.6554 `denverdino-aliyungo 0.0.0-20170629053852-f6cab0c35083`
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1.2 maven-repository-metadata 3.5.4

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1.3 libdatrie 0.2.10-4+b1

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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/ImmutableSortedSetFauxxerideShim.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/xml/XmEscapers.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/util/concurrent/ForwardingFuture.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/SortedLists.java

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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/reflect/TypeVisitor.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/ForwardingBlockingQueue.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/net/package-info.java

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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/AbstractTable.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/FilteredMultimapValues.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/hash/HashingInputStream.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/GeneralRange.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/MapMakerInternalMap.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/Cut.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/MapMaker.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/Constraints.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/ForwardingMultiset.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/AbstractSortedSetMultimap.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/Multimaps.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/UsingToStringOrdering.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/base/Function.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/ListMultimap.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/util/concurrent/AbstractFuture.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collection/LinkedHashMultiset.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/io/ByteStreams.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/ForwardingConcurrentMap.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/TreeMultiset.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/base/PairwiseEquivalence.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/WellBehavedMap.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/cache/RemovalListener.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19-0-sources-6-jar/com/google/common/collect/Interners.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19.0-sources-6-jar/com/google/common/hash/MessageDigestHashFunction.java
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* /opt/cola/permits/1151704015_1617966258.95/0/guava-19.0-sources-6-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1151704015_1617966258.95/0/guava-19.0-sources-6-jar/com/google/common/hash/PrimitiveSink.java
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**1.6 minipass 2.9.0**

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   * /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
   * /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java

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1.33 samverschueren-stream-to-observable

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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
* 
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
* 
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    // Because the handler instance has a state variable which is dedicated to
    // one connection, you have to create a new handler instance for each new
    // channel to avoid a race condition where a unauthenticated client can get
    // the confidential information:
    // Create a new handler instance per channel.
    // See ChannelInitializer#initChannel(Channel).

    public class DataServerInitializer extends ChannelInitializer<Channel> {
        @Override
        public void initChannel(Channel channel) {
            channel.pipeline().addLast("handler", new DataServerHandler());
        }
    }

    @h4>Using AttributeKey</h4>

    Although it's recommended to use member variables to store the state of a
    handler, for some reason you might not want to create many handler instances.
    In such a case, you can use AttributeKey which is provided by
    ChannelHandlerContext:
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable }
* public class DataServerHandler extends { @link SimpleChannelInboundHandler }&lt;Message&gt; { 
*     private final { @link AttributeKey }&lt;@link Boolean&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
* 
*     { @code @Override }
*     public void channelRead({ @link ChannelHandlerContext } ctx, Message message) {
*         { @link Attribute }<{ @link Boolean }&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             &lt;b&gt;attr.set(true)&lt;/b&gt;;
*         } else (message instanceof GetDataMessage) {
*             if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* ...
* }
* &lt;/pre&gt;
* Now that the state of the handler is attached to the { @link ChannelHandlerContext }, you can add the
* same handler instance to different pipelines:
* &lt;pre&gt;
* public class DataServerInitializer extends { @link ChannelInitializer }&lt;@link Channel&gt; &gt; { 
*     private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();
* 
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", &lt;b&gt;SHARED&lt;/b&gt;);
*     }
* }
* &lt;/pre&gt;
* 
* { @code @Sharable } annotation</h4>
* &lt;p&gt;
* In the example above which used an { @link AttributeKey },
* you might have noticed the { @code @Sharable } annotation.
* &lt;p&gt;
* If a { @link ChannelHandler } is annotated with the { @code @Sharable }
* annotation, it means you can create an instance of the handler just once and
* add it to one or more `{@link ChannelPipeline}s` multiple times without
* a race condition.
* 
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* 
* This annotation is provided for documentation purpose, just like
* 
* Please refer to the `{@link ChannelHandler}`, and
* `{@link ChannelPipeline}` to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

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jar/io/netty/channel/ChannelId.java
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jar/io/netty/channel/ChannelProgressivePromise.java
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jar/io/netty/channel/ChannelOutboundBuffer.java
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jar/io/netty/channel/group/ChannelGroup.java
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jar/io/netty/bootstrap/ChannelFactory.java
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* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-
  jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-
  jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-
  jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
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jar/io/netty/channel/pool/ChannelHealthChecker.java
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jar/io/netty/channel/pool/AbstractChannelPoolMap.java
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jar/io/netty/channel/pool/SimpleChannelPool.java
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jar/io/netty/channel/pool/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-
jar/io/netty/channel/pool/FixedChannelPool.java
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jar/io/netty/channel/pool/ChannelPoolHandler.java
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jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
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jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
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jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
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jar/io/netty/channel/EventLoopGroup.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/PreJava9DateFormatProvider.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/JavaVersion.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TypeAdapters.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/ExclusionStrategy.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonParser.java

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*/
Found in path(s):
* /opt/cola/permits/1229368316_1641580280.16/0/plexus-interpolation-1.22-
  9.module_el8.0.0+39+6a9b6e22.src.rpm-cosi-expand-archive-YI5ss5iz/plexus-interpolation-1.22.tar.gz-cosi-
  expand-archive-pzqYObjQ/plexus-interpolation-plexus-interpolation-
  1.22/src/main/java/org/codehaus/plexus/interpolation/fixed/InterpolationCycleException.java
* /opt/cola/permits/1229368316_1641580280.16/0/plexus-interpolation-1.22-
  9.module_el8.0.0+39+6a9b6e22.src.rpm-cosi-expand-archive-YI5ss5iz/plexus-interpolation-1.22.tar.gz-cosi-
  expand-archive-pzqYObjQ/plexus-interpolation-plexus-interpolation-
  1.22/src/main/java/org/codehaus/plexus/interpolation/fixed/PrefixedValueSourceWrapper.java
* /opt/cola/permits/1229368316_1641580280.16/0/plexus-interpolation-1.22-
  9.module_el8.0.0+39+6a9b6e22.src.rpm-cosi-expand-archive-YI5ss5iz/plexus-interpolation-1.22.tar.gz-cosi-
  expand-archive-pzqYObjQ/plexus-interpolation-plexus-interpolation-
  1.22/src/main/java/org/codehaus/plexus/interpolation/BasicInterpolator.java

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Name: plexus-interpolation
Version: 1.22
Release: 9%{?dist}
Summary: Plexus Interpolation API
License: ASL 2.0 and ASL 1.1 and MIT
URL: https://github.com/codehaus-plexus/plexus-interpolation
BuildArch: noarch
Source0: https://github.com/sonatype/%{name}/archive/%{name}-%{version}.tar.gz#/%{name}-%{version}.tar.gz

BuildRequires: maven-local
BuildRequires: mvn(junit:junit)
BuildRequires: mvn(org.codehaus.plexus:plexus-components:pom:)

%description
Plexus interpolator is the outgrowth of multiple iterations of development
focused on providing a more modular, flexible interpolation framework for
the expression language style commonly seen in Maven, Plexus, and other
related projects.

%package javadoc
Summary: Javadoc for %{name}

%description javadoc
API documentation for %{name}.

%prep
%setup -q -n %{name}-%{name}-%{version}
%pom_remove_plugin :maven-release-plugin

%build
%mvn_file : plexus/interpolation
%mvn_build

%install
%mvn_install

%files -f .mfiles

%files javadoc -f .mfiles-javadoc

%changelog
* Fri Feb 09 2018 Fedora Release Engineering <releng@fedoraproject.org> - 1.22-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_28_Mass_Rebuild

* Thu Jul 27 2017 Fedora Release Engineering <releng@fedoraproject.org> - 1.22-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Sat Feb 11 2017 Fedora Release Engineering <releng@fedoraproject.org> - 1.22-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild

* Fri Jul 15 2016 Mikolaj Izdebski <mizdebsk@redhat.com> - 1.22-6
  - Remove BR on maven-release-plugin

* Thu Feb 04 2016 Fedora Release Engineering <releng@fedoraproject.org> - 1.22-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Thu Jun 18 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.22-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Tue Apr 14 2015 Mikolaj Izdebski <mizdebsk@redhat.com> - 1.22-3
  - Cleanup spec file

* Wed Apr 1 2015 Mikolaj Izdebski <mizdebsk@redhat.com> - 1.22-2
  - Update upstream URL

* Fri Nov 21 2014 Mikolaj Izdebski <mizdebsk@redhat.com> - 1.22-1
  - Update to upstream version 1.22

* Thu Oct 23 2014 Mikolaj Izdebski <mizdebsk@redhat.com> - 1.21-1
  - Update to upstream version 1.21

* Sat Jun 07 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.15-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Tue Mar 04 2014 Stanislav Ochotnick <sochotnick@redhat.com> - 1.15-8
  - Use Requires: java-headless rebuild (#1067528)

* Sun Aug 04 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.15-7
- Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.15-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Wed Feb 06 2013 Java SIG <java-devel@lists.fedoraproject.org> - 1.15-5
  - Update for https://fedoraproject.org/wiki/Fedora_19_Maven_Rebuild
  - Replace maven BuildRequires with maven-local

* Thu Jan 17 2013 Michal Srb <msrb@redhat.com> - 1.15-4
  - Build with xmvn

* Mon Nov 19 2012 Stanislav Ochotnicky <sochotnicky@redhat.com> - 1.15-3
  - Fix source URL to be stable

* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.15-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Wed Apr 18 2012 Alexander Kurtakov <akurtako@redhat.com> 1.15-1
  - Update to latest upstream.

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.14-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Wed Jul 27 2011 Stanislav Ochotnicky <sochotnicky@redhat.com> - 1.14-2
  - Use add_maven_depmap macro
  - Use more precise specification of files

* Tue Jul 26 2011 Jaromir Capik <jcapik@redhat.com> - 1.14-2
  - Removal of plexus-maven-plugin dependency (not needed)
  - Minor spec file changes according to the latest guidelines

* Tue May 17 2011 Alexander Kurtakov <akurtako@redhat.com> 1.14-1
  - Update to upstream 1.14 version.
  - Adapt to current guidelines.

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.13-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Tue Dec 22 2009 Alexander Kurtakov <akurtako@redhat.com> 1.13-2
  - Fix review comments.

* Tue Dec 22 2009 Alexander Kurtakov <akurtako@redhat.com> 1.13-1
  - Initial package.

Found in path(s):
* /opt/cola/permits/1229368316_1641580280.16/0/plexus-interpolation-1.22-9.module_el8.0.0+39+6a9b6e22.src.rpm-cosi-expand-archive-YI5ss5iz/plexus-interpolation.spec
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*/
/**
 * Determines if the current OS matches the given OS
 * version.
 *
 * @param version the OS version to check for
 * @return true if the OS matches
 * @since 1.0
 */

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1.48 pyasn1 0.4.2-3
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ASN.1 library for Python

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

ASN.1 specification.

Features

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

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

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

Quite a number of books cover the topic of ASN.1. Communication between heterogeneous systems by Olivier Dubuisson is one of those high quality books freely available on the Internet.
The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

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

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

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
        'room', Integer().subtype(
          implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        ),
      ),
      DefaultedNamedType(
        'house', Integer(0).subtype(
          implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
      )
  )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 ‘SET’ is similar to Python ‘dict’, ‘SET OF’ to ‘list’):

```python
>>> record = Record()
>>> record['id'] = 123
```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
```
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

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

License
=======

.. include:: ../../LICENSE.rst

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ASN.1 library for Python
========================

.. toctree::
   :maxdepth: 1

Abstract Syntax Notation One (`ASN.1 <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

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

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

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

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

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

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

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

ASN.1 applications

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

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

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

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

Use case
--------

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

Changes
-------

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

License
-------

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Getting help
Please, file your issues at https://github.com/etingof/pyasn1/issues and PRs at https://github.com/etingof/pyasn1/pulls at GitHub. Alternatively, you could ask for help at Stack Overflow or search pyasn1-users mailing list archive.

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

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

* ASN.1 - Communication between heterogeneous systems by Olivier Dubuisson
* ASN.1 Complete by Prof John Larmouth

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

* ITU standards

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

* A Layman's Guide to a Subset of ASN.1, BER, and DER by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* /opt/cola/permits/1125512698_1614699302.25/0/pyasn1-0.4.2-orig-1-tar-gz/pyasn1-0.4.2/docs/source/contents.rst

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Metadata-Version: 1.1
Name: pyasn1
Version: 0.4.2
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof <etingof@gmail.com>
Author-email: etingof@gmail.com
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
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* /opt/cola/permits/1125512698_1614699302.25/0/pyasn1-0.4.2-orig-1-tar-gz/pyasn1-0.4.2/pyasn1.egg-info/PKG-INFO

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1.51 ring-json 0.3.1

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# Ring-JSON


Standard Ring middleware functions for handling JSON requests and responses.

## Installation

To install, add the following to your project `:dependencies`:

[ring/ring-json "0.3.1"]
## Usage

The `wrap-json-response` middleware will convert any response with a collection as a body (e.g. map, vector, set, seq, etc) into JSON:

```clojure
(use [ring.middleware.json :only [wrap-json-response]]
  [ring.util.response :only [response]])

(defn handler [request]
  (response {:foo "bar"}))

(def app
  (wrap-json-response handler))
```

The `wrap-json-body` middleware will parse the body of any request with a JSON content-type into a Clojure data structure:

```clojure
(use [ring.middleware.json :only [wrap-json-body]]
  [ring.util.response :only [response]])

(defn handler [request]
  (prn (get-in request [:body "user"]))
  (response "Uploaded user."))

(def app
  (wrap-json-body handler {:keywords? true :bigdecimals? true}))
```

The `wrap-json-params` middleware will parse any request with a JSON content-type and body and merge the resulting parameters into a params map:

```clojure
(use [ring.middleware.json :only [wrap-json-params]]
  [ring.util.response :only [response]])

(defn handler [request]
  (prn (get-in request [:params "user"]))
  (response "Uploaded user."))

(def app
  (wrap-json-params handler))
```
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1.52 cxf-rt-databinding-aegis 2.7.16

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1.56 xsd

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1.69 kubernetes-controller-manager v0.21.0

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* /opt/cola/permits/1001477444_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources-jar/org/codehaus/plexus/component/configurator/ConfigurationListener.java

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  jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/StoppingException.java
* /opt/cola/permits/1001477444_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources-
  jar/org/codehaus/plexus/component/composition/MapOrientedComponentComposer.java
* /opt/cola/permits/1001477444_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources-
  jar/org/codehaus/plexus/component/configurator/MapOrientedComponentConfigurator.java
* /opt/cola/permits/1001477444_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources-
  jar/org/codehaus/plexus/DuplicateChildContainerException.java
* /opt/cola/permits/1001477444_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources-
  jar/org/codehaus/plexus/component/discovery/PlexusXmlComponentDiscoverer.java
* /opt/cola/permits/1001477444_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources-
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* /opt/cola/permits/1001477444_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources.jar/org/codehaus/plexus/PlexusContainerHost.java
* /opt/cola/permits/1001477444_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources.jar/org/codehaus/plexus/component/composition/DefaultCompositionResolver.java
* /opt/cola/permits/1001477444_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources.jar/org/codehaus/plexus/component/configurator/converters/basic/UrlConverter.java
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* /opt/cola/permits/1001477444_1646171641.44/0/plexus-container-default-1-0-alpha-9-sources.jar/org/codehaus/plexus/component/configurator/ComponentConfigurator.java
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1.84 prometheus-node-exporter 1.0.0-rc.0.0.20200428091818-01054558c289

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# update-license

This is a small tool that updates the license header for Uber's open source Golang files.

## Installation

```
go get go.uber.org/tools/update-license
```
## Usage
```
update-license go_files...
```

## Further Work

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/kisielk/gotool  https://github.com/kisielk/gotool

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod
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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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

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Configurable modular Prometheus exporter for various node metrics.

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.91 jetty-xml 9.4.42.v20210604

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

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Oracle OpenJDK

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* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.92 webex-plugin-logger 1.80.69

1.92.1 Available under license:

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Found in path(s):
*/opt/cola/permits/1274516730_1645595574.94/0/plugin-logger-1-80-69-tgz/package/README.md

1.93 jaggeryjs-hostobjects-xslt 0.12.6

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subheading Preamble

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

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

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

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* /opt/cola/permits/1140374686_1614810801.42/0/apicurio-registry-common-1.3.2-final-sources-jar/io/apicurio/registry/utils/RegistryProperties.java
1.110 debian-archive-keyring 2021.1.1

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  jar/org/codehaus/plexus/classworlds/strategy/ParentFirstStrategy.java
* /opt/cola/permits/1152401444_1618227237.95/0/plexus-classworlds-2-6-0-sources-4-
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* /opt/cola/permits/1152401444_1618227237.95/0/plexus-classworlds-2-6-0-sources-4-jar/org/codehaus/classworlds/ConfigurationException.java
* /opt/cola/permits/1152401444_1618227237.95/0/plexus-classworlds-2-6-0-sources-4-jar/org/codehaus/classworlds/NoSuchRealmException.java
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  * /opt/cola/permits/1152401444_1618227237.95/0/plexus-classworlds-2-6-0-sources-4-jar/org/codehaus/plexus/classworlds/strategy/AbstractStrategy.java
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* /opt/cola/permits/1152401444_1618227237.95/0/plexus-classworlds-2-6-0-sources-4-jar/org/codehaus/classworlds/ClassRealmReverseAdapter.java
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1.115 netease-object-storage-nos-golang-sdk
0.0.0-20191116042345-0792ba35abcc
1.115.1 Available under license :
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/opt/cola/permits/1214577897_1658229177.493563/0/nos-golang-sdk-master-zip/nos-golang-sdk-master/test/fortest: binary file matches
1.116 xml-apis 2.0.2

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/**
 * Base class for deriving an XML filter.
 *<blockquote>
 * This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.</blockquote>
 *
 * This class is designed to sit between an XMLReader and the client application's event handlers. By default, it does nothing but pass requests up to the reader and events on to the handlers unmodified, but subclasses can override specific methods to modify the event stream or the configuration requests as they pass through.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.XMLFilter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */

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/**
 * Basic interface for SAX error handlers.
 *
 * This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.

* * </blockquote>

* * <p> If a SAX application needs to implement customized error handling, it must implement this interface and then register an instance with the XML reader using the method. The parser will then report all errors and warnings through this interface. </p>

* * <p> If an application does not register an ErrorHandler, XML parsing errors will go unreported and bizarre behaviour may result. </p>

* * <p> For XML processing errors, a SAX driver must use this interface instead of throwing an exception: it is up to the application to decide whether to throw an exception for different types of errors and warnings. Note, however, that there is no requirement that the parser continue to provide useful information after a call to } [ @link fatalError fatalError ] } ( in other words, a SAX driver class could catch an exception and report a fatalError ). </p>

* * <p> * @since SAX 1.0 * @author David Megginson, * <a href="mailto:sax@megginson.com">sax@megginson.com</a> * @version 2.0 * @see org.xml.sax.Parser#setErrorHandler * @see org.xml.sax.SAXParseException */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ErrorHandler.java

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// NO WARRANTY! This class is in the public domain.
/**
 * Interface for a list of XML attributes.
 *
 * <p>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>. </p>

* */
The list will not contain attributes that were declared
#IMPLIED but not specified in the start tag. It will also not
contain attributes used as Namespace declarations (xmlns*) unless
the <code>http://xml.org/sax/features/namespace-prefixes</code>
feature is set to <var>true</var> (it is <var>false</var> by
default). </p>

If the namespace-prefixes feature (see above) is <var>false</var>,
access by qualified name may not be available; if the
<code>http://xml.org/sax/features/namespaces</code>
feature is <var>false</var>, access by Namespace-qualified names
may not be available. </p>

This interface replaces the now-deprecated SAX1 { @link
org.xml.sax.AttributeList AttributeList} interface, which does not
contain Namespace support. In addition to Namespace support, it
adds the <var>getIndex</var> methods (below). </p>

The order of attributes in the list is unspecified, and will
vary from implementation to implementation. </p>

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.helpers.AttributeListImpl

Default implementation for AttributeList.

This module, both source code and documentation, is in the
Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
</p>

AttributeList implements the deprecated SAX1 { @link
org.xml.sax.AttributeList AttributeList} interface, and has been
replaced by the new SAX2 { @link org.xml.sax.helpers.AttributesImpl
AttributesImpl} interface.
*This class provides a convenience implementation of the SAX
* {@link org.xml.sax.AttributeList AttributeList} interface. This
* implementation is useful both for SAX parser writers, who can use
* it to provide attributes to the application, and for SAX application
* writers, who can use it to create a persistent copy of an element's
* attribute specifications:<p>
* *<pre>
* private AttributeList myatts;
* *
* public void startElement (String name, AttributeList atts)
* { [ ... ]
* }</pre>
* *
* Please note that SAX parsers are not required to use this
* class to provide an implementation of AttributeList; it is
* supplied only as an optional convenience. In particular,
* parser writers are encouraged to invent more efficient
* implementations.</p>
* *
* @deprecated This class implements a deprecated interface,
* that interface has been replaced by
* which is implemented in the
* helper class.
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.AttributeList
* @see org.xml.sax.DocumentHandler#startElement
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributeListImpl.java
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// NO WARRANTY! This class is in the Public Domain.
/**
Interface for an XML filter.

This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.

An XML filter is like an XML reader, except that it obtains its events from another XML reader rather than a primary source like an XML document or database. Filters can modify a stream of events as they pass on to the final application.

The XMLFilterImpl helper class provides a convenient base for creating SAX filters, by passing on all \{EntityResolver, DTDHandler, ContentHandler, ErrorHandler\} events automatically.

Since SAX 2.0

Author David Megginson,

 setbacks=sax@meggins.com

Version 2.0

See org.xml.sax.helpers.XMLFilterImpl

Interface for associating a SAX event with a document location.

This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.

If a SAX parser provides location information to the SAX application, it does so by implementing this interface and then passing an instance to the application using the content handler's setDocumentLocator method. The application can use the object to obtain the location of any other content handler event in the XML source document.

Note that the results returned by the object will be valid only during the scope of each content handler method: the application will receive unpredictable results if it attempts to use the

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//

/**
   * Interface for associating a SAX event with a document location.
   *
   * This module, both source code and documentation, is in the
   * Public Domain, and comes with NO WARRANTY.
   *
   * If a SAX parser provides location information to the SAX
   * application, it does so by implementing this interface and then
   * passing an instance to the application using the content
   * handler's setDocumentLocator method. The application can use the
   * object to obtain the location of any other content handler event
   * in the XML source document.
   *
   * Note that the results returned by the object will be valid only
   * during the scope of each content handler method: the application
   * will receive unpredictable results if it attempts to use the

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   */
SAX parsers are not required to supply a locator, but they are very strongly encouraged to do so. If the parser supplies a locator, it must do so before reporting any other document events. If no locator has been set by the time the application receives the `ContentHandler#startDocument` event, the application should assume that a locator is not available.

@since SAX 1.0
@version 2.0
@see org.xml.sax.ContentHandler#setDocumentLocator

Receive notification of basic DTD-related events.

This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.

If a SAX application needs information about notations and unparsed entities, then the application implements this interface and registers an instance with the SAX parser using the parser's `setDTDHandler` method. The parser uses the instance to report notation and unparsed entity declarations to the application.

Note that this interface includes only those DTD events that the XML recommendation requires processors to report: notation and unparsed entity declarations.

The SAX parser may report these events in any order, regardless of the order in which the notations and unparsed entities were declared; however, all DTD events must be reported after the document handler's `startDocument` event, and before the first `startElement` event.

It is up to the application to store the information for future use (perhaps in a hash table or object tree).
* If the application encounters attributes of type "NOTATION",
* "ENTITY", or "ENTITIES", it can use the information that it
* obtained through this interface to find the entity and/or
* notation corresponding with the attribute value.</p>

*  
* @since SAX 1.0
* @author David Megginson,
*        <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setDTDHandler
* @see org.xml.sax.HandlerBase
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/DTDHandler.java
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* */

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/ConvertToURI.java
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/**
 * Default base class for handlers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class implements the default behaviour for four SAX1
 * interfaces: EntityResolver, DTDHandler, DocumentHandler,
 * and ErrorHandler. It is now obsolete, but is included in SAX2 to
 * support legacy SAX1 applications. SAX2 applications should use
 * the [ @link org.xml.sax.helpers.DefaultHandler DefaultHandler ]
 * class instead.</p>
 *
 * Application writers can extend this class when they need to
 * implement only part of an interface; parser writers can
 * instantiate this class to provide default handlers when the
* application has not supplied its own.</p>
*
* <p>Note that the use of this class is optional.</p>
*
* @deprecated This class works with the deprecated
*    { @link org.xml.sax.DocumentHandler DocumentHandler }
*    interface. It has been replaced by the SAX2
*    { @link org.xml.sax.helpers.DefaultHandler DefaultHandler }
*    class.
* @since SAX 1.0
* @author David Megginson,
*        <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
*/

Found in path(s):
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/HandlerBase.java
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Found in path(s):
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMBuilderFilter.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMInputSource.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathNSResolver.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathResult.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathExpression.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMWriter.java
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*/

/**
* <strong>DOM Level 3 WD Experimental:</strong> The DOM Level 3 specification is at the stage
* of Working Draft, which represents work in progress and thus may be updated, replaced,
* or obsoleted by other documents at any time. <p>
* &lt;code&gt;XPathEvaluator&lt;/code&gt;, which will provide evaluation of XPath 1.0
* expressions with no specialized extension functions or variables. It is expected that the &lt;code&gt;XPathEvaluator&lt;/code&gt; interface will be
* implemented on the same object which implements the &lt;code&gt;Document&lt;/code&gt;
* interface in an implementation which supports the XPath DOM module.
* &lt;code&gt;XPathEvaluator&lt;/code&gt; implementations may be available from other
* sources that may provide support for special extension functions or
* variables which are not defined in this specification. The methods of
* XPathExpression should be named with more-XPath- specific names because
* the interface will often be implemented by the same object which
* implements document.No change. The point of interfaces is to localize the
* implementing namespace. This would make the method names unnecessarily
* long and complex even though there are no conflicts in the interface
* itself. The new core method getInterface is designed for discovering
* interfaces of additional modules that may not be directly implemented on
* the objects to which they are attached. This could be used to implement
  * XPath on a separate object. The user only refers to the separate
  * interfaces and not the proprietary aggregate implementation. Should entity
  * refs be supported so that queries can be made on them? No change. We will
  * not do this now. They are not part of the XPath data model. Note that
  * they may be present in the hierarchy of returned nodes, but may not
  * directly be requested or returned in the node set. What does createResult
  * create when one wants to reuse the XPath? It is not useful. Removed method.
  * Should ordering be a separate flag, or a type of result that can be
  * requested. As a type of result, it can be better optimized in
  * implementations. It makes sense as a type of result. Changed. Removed
  * method. Implementing XPathEvaluator on Document can be a problem due to
  * conflicts in the names of the methods. The working group finds no better
  * solution. GetInterface in Level 3 permits the object to be implemented
  * separately. We should be committed to this. We will leave this issue open
  * to see if we get more feedback on it. How does this interface adapt to
  * XPath 2.0 and other query languages? No change. This interface is not
  * intended to adapt to XPath 2.0 or other languages. The models of these
  * are likely to be incompatible enough to require new APIs. For alternate
  * implementations that can use this API, it can be obtained from different
  * sources. Support for custom variables and functions would be very useful.
  * No change. It is possible for an implementation to supply alternative
  * sources of an XPathEvaluator that can be customized with a custom
  * variable and function context. We do not specify how this is
  * accomplished. It is too complex to address in this version of the XPath
  * DOM.
  * <p>See also the &lt;a href='http://www.w3.org/TR/2002/WD-DOM-Level-3-XPath-20020328'&gt;Document Object
  * Model (DOM) Level 3 XPath Specification&lt;/a&gt;.</p>

Found in path(s):
  * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  * jar/org/w3c/dom/xpath/XPathEvaluator.java
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/**
 * Interface for an element's attribute specifications.
 *
 **/
event, the list will return valid results only during the
scope of the event; once the event handler returns control
to the parser, the attribute list is invalid. To save a
persistent copy of the attribute list, use the SAX1
helper class.</p>

An attribute list includes only attributes that have been
specified or defaulted: #IMPLIED attributes will not be included.</p>

There are two ways for the SAX application to obtain information
from the AttributeList. First, it can iterate through the entire
list:

```
public void startElement (String name, AttributeList atts) {
  for (int i = 0; i < atts.getLength(); i++) {
    String name = atts.getName(i);
    String type = atts.getType(i);
    String value = atts.getValue(i);
    [...]
  }
}
```

(Note that the result of getLength() will be zero if there
are no attributes.)

As an alternative, the application can request the value or
type of specific attributes:

```
public void startElement (String name, AttributeList atts) {
  String identifier = atts.getValue("id");
  String label = atts.getValue("label");
  [...]
}
```

@deprecated This interface has been replaced by the SAX2
interface, which includes Namespace support.

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.DocumentHandler#startElement startElement
* @see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java
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/**
 * Receive notification of general document events.
 * 
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This was the main event-handling interface for SAX1; in
 * SAX2, it has been replaced by { @link org.xml.sax.ContentHandler
 * ContentHandler }, which provides Namespace support and reporting
 * of skipped entities. This interface is included in SAX2 only
 * to support legacy SAX1 applications.</p>
 *
 * The order of events in this interface is very important, and
 * mirrors the order of information in the document itself. For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.</p>
 *
 * Application writers who do not want to implement the entire
 * interface can derive a class from HandlerBase, which implements
 * the default functionality; parser writers can instantiate
 * HandlerBase to obtain a default handler. The application can find
 * the location of any document event using the Locator interface
 * supplied by the Parser through the setDocumentLocator method.</p>
 *
 * @deprecated This interface has been replaced by the SAX2
 * ( @link org.xml.sax.ContentHandler ContentHandler )
 * interface, which includes Namespace support.
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.ParsersetDocumentHandler
 * @see org.xml.sax.Locator
 * @see org.xml.sax.HandlerBase
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
// NO WARRANTY! This class is in the Public Domain.
/**
 * Factory for creating an XML reader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>  
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * This class contains static methods for creating an XML reader
 * from an explicit class name, or based on runtime defaults:
 *
 * try {
 *   XMLReader myReader = XMLReaderFactory.createXMLReader();
 * } catch (SAXException e) {
 *   System.err.println(e.getMessage());
 * }
 *
 * Note to Distributions bundled with parsers:
 * You should modify the implementation of the no-arguments
 * createXMLReader to handle cases where the external
 * configuration mechanisms aren't set up. That method should do its
 * best to return a parser when one is in the class path, even when
 * nothing bound its class name to <code>org.xml.sax.driver</code> so
 * those configuration mechanisms would see it.
 *
 * @since SAX 2.0
 * @author David Megginson, David Brownell
 * @version 2.0r2pre3
 */

Found in path(s):
  /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLReaderFactory.java
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// This class is in the Public Domain. NO WARRANTY!
/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
 * <blockquote>
This class encapsulates the logic of Namespace processing:
it tracks the declarations currently in force for each context
and automatically processes qualified XML 1.0 names into their
Namespace parts; it can also be used in reverse for generating
XML 1.0 from Namespaces.

Namespace support objects are reusable, but the reset method
must be invoked between each session.

Here is a simple session:

```java
String parts[] = new String[3];
NamespaceSupport support = new NamespaceSupport();

support.pushContext();
support.declarePrefix("", "http://www.w3.org/1999/xhtml");
support.declarePrefix("dc", "http://www.purl.org/dc#");

String parts[] = support.processName("p", parts, false);
System.out.println("Namespace URI: " + parts[0]);
System.out.println("Local name: " + parts[1]);
System.out.println("Raw name: " + parts[2]);

String parts[] = support.processName("dc:title", parts, false);
System.out.println("Namespace URI: " + parts[0]);
System.out.println("Local name: " + parts[1]);
System.out.println("Raw name: " + parts[2]);

support.popContext();
```

Note that this class is optimized for the use case where most
elements do not contain Namespace declarations: if the same
prefix/URI mapping is repeated for each context (for example), this
class will be somewhat less efficient.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0

Found in path(s):
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// NO WARRANTY! This class is in the public domain.
/**
 * Default base class for SAX2 event handlers.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</blockquote>
 *
 * This class is available as a convenience base class for SAX2
 * applications: it provides default implementations for all of the
 * callbacks in the four core SAX2 handler classes:
 *
 * <ul>
 * <li>{@link org.xml.sax.EntityResolver EntityResolver}</li>
 * <li>{@link org.xml.sax.DTDHandler DTDHandler}</li>
 * <li>{@link org.xml.sax.ContentHandler ContentHandler}</li>
 * <li>{@link org.xml.sax.ErrorHandler ErrorHandler}</li>
 * </ul>
 *
 * Application writers can extend this class when they need to
 * implement only part of an interface; parser writers can
 * instantiate this class to provide default handlers when the
 * application has not supplied its own.
 *
 * This class replaces the deprecated SAX1
 * {@link org.xml.sax.HandlerBase HandlerBase} class.
 *
 * @since SAX 2.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/DefaultHandler.java
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/**
Encapsulate an XML parse error or warning.

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This exception will include information for locating the error in the original XML document. Note that although the application will receive a SAXParseException as the argument to the handlers in the [ ] interface, the application is not actually required to throw the exception; instead, it can simply read the information in it and take a different action.

Since this exception is a subclass of [ ], it inherits the ability to wrap another exception.

Since SAX 1.0

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**
* Basic interface for resolving entities.
*
If a SAX application needs to implement customized handling for external entities, it must implement this interface and register an instance with the SAX driver using the method.

The XML reader will then allow the application to intercept any external entities (including the external DTD subset and external parameter entities, if any) before including them.

Many SAX applications will not need to implement this interface, but it will be especially useful for applications that build XML documents from databases or other specialised input sources, or for applications that use URI types other than URLs.

The following resolver would provide the application with a special character stream for the entity with the system identifier "http://www.myhost.com/today":

```
import org.xml.sax.EntityResolver;
import org.xml.sax.InputSource;

public class MyResolver implements EntityResolver {
    public InputSource resolveEntity (String publicId, String systemId) {
        if (systemId.equals("http://www.myhost.com/today")) {
            // return a special input source
            MyReader reader = new MyReader();
            return new InputSource(reader);
        } else {
            // use the default behaviour
            return null;
        }
    }
}
```

The application can also use this interface to redirect system identifiers to local URIs or to look up replacements in a catalog (possibly by using the public identifier).
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setEntityResolver
* @see org.xml.sax.InputSource
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/EntityResolver.java
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*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLParagraphElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBodyElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableRowElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLSelectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLMenuElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLInputElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLHeadingElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDirectoryElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableCellElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLHeadElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLBaseFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLUListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFrameSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLStyleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLHRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLOptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLOListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLLegendElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFormElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLCollection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTextAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTML LIElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLLinkElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLParamElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLCollection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTextAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTML LIElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLLinkElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLParamElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
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/**
 * Provide an optional convenience implementation of Locator.
 *
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 * Public Domain, and comes with &lt;strong&gt;NO WARRANTY&lt;/strong&gt.;&lt;/em&gt;
 * &lt;/blockquote&gt;
 *
 * &lt;p&gt;This class is available mainly for application writers, who
 * can use it to make a persistent snapshot of a locator at any
 * point during a document parse:&lt;/p&gt;
 *
 * &lt;pre&gt;
 * Locator locator;
 * Locator startloc;
 *
 * public void setLocator (Locator locator)
 * { 
 *     // note the locator
 *     this.locator = locator;
 * }
 *
 * public void startDocument ()
 * { 
 *     // save the location of the start of the document
 *     // for future use.
 *     Locator startloc = new LocatorImpl(locator);
 * }
 * &lt;/pre&gt;
 *
 * &lt;p&gt;Normally, parser writers will not use this class, since it
 * is more efficient to provide location information only when
 * requested, rather than constantly updating a Locator object.&lt;/p&gt;
 *
 * @since SAX 1.0
 * @author David Megginson,
 * &lt;a href="mailto:sax@megginson.com">sax@megginson.com</a&gt;
 * @version 2.0
 * @see org.xml.sax.Locator Locator
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/LocatorImpl.java

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  jar/javax/xml/parsers/ParserConfigurationException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/FactoryFinder.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/FactoryConfigurationException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/SAXParserFactory.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/DocumentBuilderFactory.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/SAXParser.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/DocumentBuilder.java

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// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for reading an XML document using callbacks.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.<em></em>
 * </blockquote>
 *
 * <p><strong>Note:</strong> despite its name, this interface does
 * extend the standard Java {@link java.io.Reader Reader} interface, because reading XML is a fundamentally different activity
 * than reading character data.</p>
 *
 * <p>XMLReader is the interface that an XML parser's SAX2 driver must
 * implement. This interface allows an application to set and
 * query features and properties in the parser, to register
 * event handlers for document processing, and to initiate
 * a document parse.</p>
 *
 * <p>All SAX interfaces are assumed to be synchronous: the
 * [@link #parse parse] methods must not return until parsing
 * is complete, and readers must wait for an event-handler callback
 * to return before reporting the next event.</p>
 */
This interface replaces the (now deprecated) SAX 1.0 interface. The XMLReader interface contains two important enhancements over the old Parser interface:

- It adds a standard way to query and set features and properties; and
- It adds Namespace support, which is required for many higher-level XML standards.

There are adapters available to convert a SAX1 Parser to a SAX2 XMLReader and vice-versa.

@since SAX 2.0
@author David Megginson, sax@megginson.com
@version 2.0
@see org.xml.sax.XMLFilter
@see org.xml.sax.helpers.ParserAdapter
@see org.xml.sax.helpers.XMLReaderAdapter

A single input source for an XML entity.

This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.

This class allows a SAX application to encapsulate information about an input source in a single object, which may include a public identifier, a system identifier, a byte stream (possibly with a specified encoding), and/or a character stream.

There are two places that the application will deliver this input source to the parser: as the argument to the Parser.parse method, or as the return value of the EntityResolver.resolveEntity method.

The SAX parser will use the InputSource object to determine how to read XML input. If there is a character stream available, the
* parser will read that stream directly; if not, the parser will use
* a byte stream, if available; if neither a character stream nor a
* byte stream is available, the parser will attempt to open a URI
* connection to the resource identified by the system
* identifier.</p>

*<p>An InputSource object belongs to the application: the SAX parser
* shall never modify it in any way (it may modify a copy if
* necessary).</p>*

*<p>@since SAX 1.0</p>*
*<p>@author David Megginson,
*<a href="mailto:sax@megginson.com">sax@megginson.com</a></p>*
*<p>@version 2.0</p>*
*<p>@see org.xml.sax.Parser#parse</p>*
*<p>@see org.xml.sax.EntityResolver#resolveEntity</p>*
*<p>@see java.io.InputStream</p>*
*<p>@see java.io.Reader</p>*

/*

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* Exception class for an unsupported operation.
*
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*</blockquote>
*
*<p>An XMLReader will throw this exception when it recognizes a
*feature or property identifier, but cannot perform the requested
*operation (setting a state or value). Other SAX2 applications and
*extensions may use this class for similar purposes.</p>*

*<p>@since SAX 2.0</p>*
*<p>@author David Megginson,
*<a href="mailto:sax@megginson.com">sax@megginson.com</a></p>*
*<p>@version 2.0</p>*
*<p>@see org.xml.sax.SAXNotRecognizedException</p>*

*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotSupportedException.java
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// NO WARRANTY! This class is in the public domain.
/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 *<p>This class wraps a SAX1 [ @link org.xml.sax.Parser Parser ] and makes it act as a SAX2 [ @link org.xml.sax.XMLReader XMLReader ], with feature, property, and Namespace support. Note that it is not possible to report [ @link org.xml.sax.ContentHandler#skippedEntity skippedEntity ] events, since SAX1 does not make that information available.</p>
This adapter does not test for duplicate Namespace-qualified attribute names.

@since SAX 2.0
@version 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>

This class is in the Public Domain, and comes with NO WARRANTY of any kind.

This wrapper class is used only when Namespace support is disabled -- it provides pretty much a direct mapping from SAX1 to SAX2, except that names and types are interned whenever requested.

Adapt a SAX1 AttributeList as a SAX2 Attributes object.

This class is in the Public Domain, and comes with NO WARRANTY of any kind.

This wrapper class is used only when Namespace support is disabled -- it provides pretty much a direct mapping from SAX1 to SAX2, except that names and types are interned whenever requested.

This class provides a default implementation of the SAX2 Attributes interface, with the addition of manipulators so that the list can be modified or reused.

There are two typical uses of this class:
<li>to take a persistent snapshot of an Attributes object in a `<startElement>` event; or</li>
<li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
</ol>

This class replaces the now-deprecated SAX1 `<AttributeListImpl>` class; in addition to supporting the updated Attributes interface rather than the deprecated `<AttributeList>` interface, it also includes a much more efficient implementation using a single array rather than a set of Vectors.</p>

@since SAX 2.0
@version 2.0.1 (sax2r2)
*/

// NO WARRANTY! This class is in the Public Domain.
/**
 * Create a new instance of a class by name.
 *
 * <blockquote>
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 * </blockquote>
 *
 * This class contains a static method for creating an instance of a class from an explicit class name. It tries to use the thread's context ClassLoader if possible and falls back to using Class.forName(String). It also takes into account JDK 1.2+'s AccessController mechanism for performing its actions.
 *
 * This code is designed to run on JDK version 1.1 and later and compile on versions of Java 2 and later.</p>

@author Edwin Goei, David Brownell, Neil Graham
@version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp $
*/

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Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/AttributesImpl.java
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/**
 * Encapsulate a general SAX error or warning.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class can contain basic error or warning information from
 * either the XML parser or the application: a parser writer or
 * application writer can subclass it to provide additional
 * functionality. SAX handlers may throw this exception or
 * any exception subclassed from it.</p>
 *
 * If the application needs to pass through other types of
 * exceptions, it must wrap those exceptions in a SAXException
 * or an exception derived from a SAXException.</p>
 *
 * If the parser or application needs to include information about a
 * specific location in an XML document, it should use the
 * [SAXParseException] subclass.</p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.SAXParseException
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXException.java
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/**
 * Exception class for an unrecognized identifier.
 *
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 * </blockquote>
 *
 * An XMLReader will throw this exception when it finds an
 * unrecognized feature or property identifier; SAX applications and
 * extensions may use this class for other, similar purposes.</p>
Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotRecognizedException.java
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*/
/**
* Create a new <code>DOMBuilder</code>. The newly constructed parser may
* then be configured by means of its <code>setFeature</code> method,
* and used to parse documents by means of its <code>parse</code> method.
* @param mode  The <code>mode</code> argument is either
*             <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
*             <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
*             <code>DOMBuilder</code> that is created will operate in synchronous
*             mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
*             <code>DOMBuilder</code> that is created will operate in
*             asynchronous mode.
* @param schemaType  An absolute URI representing the type of the schema
* language used during the load of a <code>Document</code> using the
newly created `<code>DOMBuilder</code>`. Note that no lexical checking is done on the absolute URI. In order to create a `<code>DOMBuilder</code>` for any kind of schema types (i.e. the `<code>DOMBuilder</code>` will be free to use any schema found), use the value `<code>null</code>`. For W3C XML Schema, applications must use the value `<code>"http://www.w3.org/2001/XMLSchema"</code>`. For XML DTD, applications must use the value `<code>"http://www.w3.org/TR/REC-xml"</code>`. Other Schema languages are outside the scope of the W3C and therefore should recommend an absolute URI in order to use this method.

@return The newly created `<code>DOMBuilder</code>` object. This `<code>DOMBuilder</code>` is either synchronous or asynchronous depending on the value of the `<code>mode</code>` argument. By default, the newly created `<code>DOMBuilder</code>` does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of the `<code>errorHandler</code>` is `<code>null</code>`. However, implementations may provide a default error handler at creation time. In that case, the initial value of the `<code>errorHandler</code>` attribute on the new created `<code>DOMBuilder</code>` contains a reference to the default error handler.

@exception DOMException

NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is not supported.

*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMImplementationLS.java
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/**
 * Basic interface for SAX (Simple API for XML) parsers.
 *
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 * Public Domain, and comes with `<strong>`NO WARRANTY</strong>`.</em>
 *
 */

This was the main event supplier interface for SAX1; it has been replaced in SAX2 by `{@link org.xml.sax.XMLReader XMLReader}`, which includes Namespace support and sophisticated configurability and extensibility.</p>

* <p>All SAX1 parsers must implement this basic interface: it allows applications to register handlers for different types of events and to initiate a parse from a URI, or a character stream.</p>

*
* <p>All SAX1 parsers must also implement a zero-argument constructor
* (though other constructors are also allowed).</p>
* 
* <p>SAX1 parsers are reusable but not re-entrant: the application
* may reuse a parser object (possibly with a different input source)
* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse.</p>
* 
* @deprecated This interface has been replaced by the SAX2
* interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/

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/**
 * SAX2 extension handler for DTD declaration events.
 *
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 * </blockquote>
 *
 * <p>This is an optional extension handler for SAX2 to provide
 * information about DTD declarations in an XML document. XML
 * readers are not required to support this handler, and this
 * handler is not included in the core SAX2 distribution.</p>
 *
 * <p>Note that data-related DTD declarations (unparsed entities and
 * notations) are already reported through the { @link
 * org.xml.sax.DTDHandler DTDHandler} interface.</p>
 *
 * <p>If you are using the declaration handler together with a lexical
 * handler, all of the events will occur between the
 * { @link org.xml.sax.ext.LexicalHandler#startDTD startDTD} and the

---

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// Public Domain: no warranty.
* { @link org.xml.sax.ext.LexicalHandler#endDTD endDTD } events.</p>
*
* To set the DeclHandler for an XML reader, use the
* { @link org.xml.sax.XMLReader#setProperty setProperty } method
* with the propertyId "http://xml.org/sax/properties/declaration-handler".
* If the reader does not support declaration events, it will throw a
* { @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException }
* or a
* { @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException }
* when you attempt to register the handler.</p>
*
* @since 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 1.0
* @see org.xml.sax.XMLReader
*/

/**
 * Java-specific class for dynamically loading SAX parsers.
 *
 * <blockquote>
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 * </blockquote>
 *
 * <p>Note: This class is designed to work with the now-deprecated
 * SAX1 { @link org.xml.sax.Parser } class. SAX2 applications should use
 * { @link org.xml.sax.helpers.XMLReaderFactory } instead.</p>
 *
 * @deprecated This class works with the deprecated
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*/

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/FilePathToURI.java

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/**
 * Adapt a SAX2 XMLReader as a SAX1 Parser.
 *
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 * &lt;/blockquote&gt;
 *
 * &lt;p&gt;This class wraps a SAX2 { @link org.xml.sax.XMLReader XMLReader}
 * and makes it act as a SAX1 { @link org.xml.sax.Parser Parser}. The XMLReader
 * must support a true value for the
 * http://xml.org/sax/features/namespace-prefixes property or parsing will fail
 * with a { @link org.xml.sax.SAXException SAXException}; if the XMLReader
 * supports a false value for the http://xml.org/sax/features/namespace
 * property, that will also be used to improve efficiency.&lt;/p&gt;
 *
 * &lt;since&gt;SAX 2.0&lt;/since&gt;
 * &lt;author&gt;David Megginson,&lt;/author&gt;
 * &lt;a href="mailto:sax@megginson.com">sax@megginson.com</a>&lt;/a&gt;
 * &lt;version&gt;2.0&lt;/version&gt;
 * &lt;see&gt;org.xml.sax.Parser
@see org.xml.sax.XMLReader
*/

Found in path(s):
*/ /opt/cola/permissions/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLReaderAdapter.java
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/**
 * Receive notification of the logical content of a document.
 *
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 * </blockquote>
 *
 * This is the main interface that most SAX applications
 * implement: if the application needs to be informed of basic parsing
 * events, it implements this interface and registers an instance with
 * the SAX parser using the {@link org.xml.sax.XMLReader#setContentHandler
 * setContentHandler} method. The parser uses the instance to report
 * basic document-related events like the start and end of elements
 * and character data.</p>
 *
 * The order of events in this interface is very important, and
 * mirrors the order of information in the document itself. For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.</p>
 *
 * This interface is similar to the now-deprecated SAX 1.0
 * DocumentHandler interface, but it adds support for Namespaces
 * and for reporting skipped entities (in non-validating XML
 * processors).
 *
 * Implementors should note that there is also a Java class
 * {@link java.net.ContentHandler ContentHandler} in the java.net
 * package; that means that it's probably a bad idea to do</p>
 *
 * In fact, "import ...*" is usually a sign of sloppy programming
 * anyway, so the user should consider this a feature rather than a
 * bug."
/**
* @since SAX 2.0
* @author David Megginson,
* @version 2.0
* @see org.xml.sax.XMLReader
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ErrorHandler
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ContentHandler.java

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/)**
* SAX2 extension handler for lexical events.
*
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* </blockquote>
*
* This is an optional extension handler for SAX2 to provide
* lexical information about an XML document, such as comments
* and CDATA section boundaries; XML readers are not required to
* support this handler, and it is not part of the core SAX2
* distribution.</p>
*
* The events in the lexical handler apply to the entire document,
* not just to the document element, and all lexical handler events
* must appear between the content handler's startDocument and
* endDocument events.</p>
*
* To set the LexicalHandler for an XML reader, use the
* {@link org.xml.sax.XMLReader#setProperty setProperty} method
* with the propertyId "http://xml.org/sax/properties/lexical-handler".
* If the reader does not support lexical events, it will throw a
* SAXNotRecognizedException or a
* SAXNotSupportedException when you attempt to register the handler.</p>
*
* @since 1.0
* @author David Megginson,
* @version 1.0
* @see org.xml.sax.XMLReader#setProperty
1.117 client-golang 1.8.0
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1.118 golang-jwt 3.2.1

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1.122 gtk-update-icon-cache 3.22.30-6.el8

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation

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1.131 kuberesolver 2.4.0+incompatible

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1.132 jest-transform 24.9.0

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1.133 lego 0.3.1

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1.134 nspr 4.32.0-1.el8_4

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1.136 @babel/helper-remap-async-to-generator 7.18.6

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1.137 wso2-carbon-application-mgt-stub
4.6.49

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1.139 unzip 6.0 23+deb10u2

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*
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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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The decompression core code for the deflate method (inflate.[ch],
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---------------------------------------------------------------------

1.140 crc-32 1.2.2
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=============

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- **epl1**  Eclipse Public License

### 1.161 sane 4.1.0
#### 1.161.1 Available under license :
No license file was found, but licenses were detected in source scan.

The CLI was originally based on the [watch CLI](https://github.com/mikeal/watch). Watch is licensed under the Apache License Version 2.0.

Found in path(s):
* /opt/cola/permits/115594883_1619020447.36/0/amasad-sane-v4-1-0-0-g1f04a36-1-tar-gz/amasad-sane-1f04a36/README.md

### 1.162 wso2-carbon-consent-mgt-core 2.0.18
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org.wso2.carbon.consent.mgt.core
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1.163 jetty 9.4.20.v20190813

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Full name: Jan Bartel
E-Mail: janb@eclipse.com
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Full name: Jesse C. McConnell
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

---

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

---

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN
module is selected.

`* java.sun.security.ssl`

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

-----

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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RUoIoBymYpaETSqxt2oLFU=
=Tr57
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<thead>
<tr>
<th>Name</th>
<th>Date added</th>
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<tr>
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<td>12 September 2006</td>
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1.167 libexif 0.6.21-2+b2

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* /opt/cola/permissions/1271008246_1644868679.38/0/vaadin-shared-8-8-6-sources-jar/com/vaadin/shared/VaadinUriResolver.java
* /opt/cola/permissions/1271008246_1644868679.38/0/vaadin-shared-8-8-6-sources-jar/com/vaadin/shared/ui/colorpicker/AbstractColorPickerState.java
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* /opt/cola/permits/1271008246_1644868679.38/0/vaadin-shared-8-8-6-sources-jar/elemental/json/impl/JreJsonObject.java
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* /opt/cola/permits/1271008246_1644868679.38/0/vaadin-shared-8-8-6-sources-jar/elemental/json/impl/JreJsonArraySubArray.java
1.170 qs 6.10.5

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jar/org/springframework/aop/framework/ProxyCreatorSupport.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJIoCUtil.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-
jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-
jar/org/springframework/aop/aspectj/AspectInstanceFactoryDecorator.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-
jar/org/springframework/aop/aspectj/ExpressionPointcut.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-
jar/org/springframework/aop/support/AbstractExpressionPointcut.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-
jar/org/springframework/aop/Advisor.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceInterceptor.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-jar/org/springframework/aop/TruePointcut.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java

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* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-
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jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
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* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
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* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
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* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
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* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
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* /opt/cola/permits/1136508513_1613776256.18/0/spring-aop-4-1-6-release-sources-1-jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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5.1.42

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1.200 libcurl 7.61.1-18.el8

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

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(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

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1.203 estraverse 4.3.0

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1.204 k8s-io-apiextensions-apiserver 0.17.2

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1.208 wso2-carbon-relay 4.6.105

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1.209 string_decoder 1.3.0

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1.211 libx11 1.6.8-5.el8

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1.215 isl 0.18-1

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Type mapping behavior may be customized by providing a {@link com.sun.jna.TypeMapper} for the {@link com.sun.jna.Library#OPTION_TYPE_MAPPER} option when initializing a library interface. See {@link com.sun.jna.win32.W32APITypeMapper} for an example which provides custom conversion of boolean and String types. You are free to use whatever types are convenient in your defined interfaces, but all custom types must provide a mapping to one of the basic or derived types listed above.

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1.233 es-abstract 1.12.0

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1.237 alpine-baselayout-data 3.2.0-r20

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(For example, a function in a library to compute square roots has
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@end enumerate

@end iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

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

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```
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```

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```
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```

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

   d) If a facility in the modified Library refers to a function or a
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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

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

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

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

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1.242 types-stack-utils 1.0.1

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1.243 psl 1.9.0

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1.249 sshpk 1.17.0

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1.257 python3-gpg 1.13.1-9.el8
1.257.1 Available under license:

- hkp4py
- requests

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INFO-DIR-SECTION GNU Libraries
START-INFO-DIR-ENTRY
* GPGME: (gpgme). Adding support for cryptography to your program.
END-INFO-DIR-ENTRY

This file documents the GPGME library.


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File: gpgme.info, Node: Top, Next: Introduction, Up: (dir)

Main Menu
**********

This is Edition 1.12.1-beta100, last updated 3 December 2018, of The GnuPG Made Easy Reference Manual, for Version 1.12.1-beta100 of the...
GPGME library.

* Menu:

* Introduction:: How to use this manual.
* Preparation:: What you should do before using the library.
* Protocols and Engines:: Supported crypto protocols.
* Algorithms:: Supported algorithms.
* Error Handling:: Error numbers and their meanings.
* Exchanging Data:: Passing data to and from GPGME.
* Contexts:: Handling GPGME contexts.

Appendices

* Debugging:: How to solve problems.
* Deprecated Functions:: Documentation of deprecated functions.

* Library Copying:: The GNU Lesser General Public License says how you can copy and share GnuPG Made Easy.
* Copying:: The GNU General Public License says how you can copy and share this manual.

Indices

* Concept Index:: Index of concepts and programs.
* Function and Data Index:: Index of functions, variables and data types.

The Detailed Node Listing

Introduction

* Getting Started:: Purpose of the manual, and how to use it.
* Features:: Reasons to install and use GPGME.
* Overview:: Basic architecture of the GPGME library.

Preparation

* Header:: What header file you need to include.
* Building the Source:: Compiler options to be used.
* Largefile Support (LFS):: How to use GPGME with LFS.
* Using Automake:: Compiler options to be used the easy way.
* Using Libtool:: Avoiding compiler options entirely.
* Library Version Check:: Getting and verifying the library version.
* Signal Handling:: How GPGME affects signal handling.
* Multi-Threading:: How GPGME can be used in an MT environment.

Protocols and Engines
* Engine Version Check:: Verifying the engine version.
* Engine Information:: Obtaining more information about the engines.
* Engine Configuration:: Changing the engine configuration.
* OpenPGP:: Support for the OpenPGP protocol.
* Cryptographic Message Syntax:: Support for the CMS.

Algorithms

* Public Key Algorithms:: A list of all public key algorithms.
* Hash Algorithms:: A list of all hash algorithms.

Error Handling

* Error Values:: The error value and what it means.
* Error Codes:: A list of important error codes.
* Error Sources:: A list of important error sources.
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Exchanging Data

* Creating Data Buffers:: Creating new data buffers.
* Destroying Data Buffers:: Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.

Creating Data Buffers

* Memory Based Data Buffers:: Creating memory based data buffers.
* File Based Data Buffers:: Creating file based data buffers.
* Callback Based Data Buffers:: Creating callback based data buffers.

Manipulating Data Buffers

* Data Buffer I/O Operations:: I/O operations on data buffers.
* Data Buffer Meta-Data:: Meta-data manipulation of data buffers.
* Data Buffer Convenience:: Convenience function for data buffers.

Contexts

* Creating Contexts:: Creating new GPGME contexts.
* Destroying Contexts:: Releasing GPGME contexts.
* Result Management:: Managing the result of crypto operations.
* Context Attributes:: Setting properties of a context.
* Key Management:: Managing keys with GPGME.
* Trust Item Management:: Managing trust items with GPGME.
* Crypto Operations:: Using a context for cryptography.
* Miscellaneous:: Miscellaneous operations.
* Run Control:: Controlling how operations are run.
Context Attributes

* Protocol Selection:: Selecting the protocol used by a context.
* Crypto Engine:: Configuring the crypto engine.
* Setting the Sender:: How to tell the engine the sender.
* ASCII Armor:: Requesting ASCII armored output.
* Text Mode:: Choosing canonical text mode.
* Offline Mode:: Choosing offline mode.
* Included Certificates:: Including a number of certificates.
* Key Listing Mode:: Selecting key listing mode.
* Passphrase Callback:: Getting the passphrase from the user.
* Progress Meter Callback:: Being informed about the progress.
* Status Message Callback:: Status messages received from gpg.
* Locale:: Setting the locale of a context.

Key Management

* Key objects:: Description of the key structures.
* Listing Keys:: Browsing the list of available keys.
* Information About Keys:: Requesting detailed information about keys.
* Manipulating Keys:: Operations on keys.
* Generating Keys:: Creating new key pairs.
* Signing Keys:: Adding key signatures to public keys.
* Exporting Keys:: Retrieving key data from the key ring.
* Importing Keys:: Adding keys to the key ring.
* Deleting Keys:: Removing keys from the key ring.
* Changing Passphrases:: Change the passphrase of a key.
* Changing TOFU Data:: Changing data pertaining to TOFU.
* Advanced Key Editing:: Advanced key edit operation.

Trust Item Management

* Listing Trust Items:: Browsing the list of available trust items.
* Manipulating Trust Items:: Operations on trust items.

Crypto Operations

* Decrypt:: Decrypting a ciphertext.
* Verify:: Verifying a signature.
* Decrypt and Verify:: Decrypting a signed ciphertext.
* Sign:: Creating a signature.
* Encrypt:: Encrypting a plaintext.

Sign

* Selecting Signers:: How to choose the keys to sign with.
* Creating a Signature:: How to create a signature.
GnuPG Made Easy (GPGME) is a C language library that allows to add support for cryptography to a program. It is designed to make access to public key crypto engines like GnuPG or GpgSM easier for applications. GPGME provides a high-level crypto API for encryption, decryption, signing, signature verification and key management.

GPGME uses GnuPG and GpgSM as its backends to support OpenPGP and the Cryptographic Message Syntax (CMS).

* Menu:

* Getting Started:: Purpose of the manual, and how to use it.
* Features:: Reasons to install and use GPGME.
* Overview:: Basic architecture of the GPGME library.
1.1 Getting Started

This manual documents the GPGME library programming interface. All functions and data types provided by the library are explained.

The reader is assumed to possess basic knowledge about cryptography in general, and public key cryptography in particular. The underlying cryptographic engines that are used by the library are not explained, but where necessary, special features or requirements by an engine are mentioned as far as they are relevant to GPGME or its users.

This manual can be used in several ways. If read from the beginning to the end, it gives a good introduction into the library and how it can be used in an application. Forward references are included where necessary. Later on, the manual can be used as a reference manual to get just the information needed about any particular interface of the library. Experienced programmers might want to start looking at the examples at the end of the manual, and then only read up those parts of the interface which are unclear.

The documentation for the language bindings is currently not included in this manual. Those languages bindings follow the general programming model of GPGME but may provide some extra high level abstraction on top of the GPGME style API. For now please see the README files in the lang/ directory of the source distribution.

1.2 Features

GPGME has a couple of advantages over other libraries doing a similar job, and over implementing support for GnuPG or other crypto engines into your application directly.

- **its free software**
  Anybody can use, modify, and redistribute it under the terms of the GNU Lesser General Public License (*note Library Copying:*).

- **its flexible**
  GPGME provides transparent support for several cryptographic protocols by different engines. Currently, GPGME supports the
OpenPGP protocol using GnuPG as the backend, and the Cryptographic Message Syntax using GpgSM as the backend.

its easy
GPGME hides the differences between the protocols and engines from the programmer behind an easy-to-use interface. This way the programmer can focus on the other parts of the program, and still integrate strong cryptography in his application. Once support for GPGME has been added to a program, it is easy to add support for other crypto protocols once GPGME backends provide them.

its language friendly
GPGME comes with languages bindings for several common programming languages: Common Lisp, C++, Python 2, and Python 3.


1.3 Overview
============

GPGME provides a data abstraction that is used to pass data to the crypto engine, and receive returned data from it. Data can be read from memory or from files, but it can also be provided by a callback function.

The actual cryptographic operations are always set within a context. A context provides configuration parameters that define the behaviour of all operations performed within it. Only one operation per context is allowed at any time, but when one operation is finished, you can run the next operation in the same context. There can be more than one context, and all can run different operations at the same time.

Furthermore, GPGME has rich key management facilities including listing keys, querying their attributes, generating, importing, exporting and deleting keys, and acquiring information about the trust path.

With some precautions, GPGME can be used in a multi-threaded environment, although it is not completely thread safe and thus needs the support of the application.


2 Preparation
*************
To use GPGME, you have to perform some changes to your sources and the build system. The necessary changes are small and explained in the following sections. At the end of this chapter, it is described how the library is initialized, and how the requirements of the library are verified.

* Menu:

* Header:: What header file you need to include.
* Building the Source:: Compiler options to be used.
* Largefile Support (LFS):: How to use GPGME with LFS.
* Using Automake:: Compiler options to be used the easy way.
* Using Libtool:: Avoiding compiler options entirely.
* Library Version Check:: Getting and verifying the library version.
* Signal Handling:: How GPGME affects signal handling.
* Multi-Threading:: How GPGME can be used in an MT environment.

2.1 Header
==========

All interfaces (data types and functions) of the library are defined in the header file gpgme.h. You must include this in all programs using the library, either directly or through some other header file, like this:

```c
#include <gpgme.h>
```

The name space of GPGME is gpgme_* for function names and data types and GPGME_* for other symbols. Symbols internal to GPGME take the form _gpgme_* and _GPGME_*.

Because GPGME makes use of the GPG Error library, using GPGME will also use the GPG_ERR_* name space directly, and the gpg_err*, gpg_str*, and gpgert_* name space indirectly.

2.2 Building the Source
=======================

If you want to compile a source file including the gpgme.h header file, you must make sure that the compiler can find it in the directory hierarchy. This is accomplished by adding the path to the directory in which the header file is located to the compilers include file search
path (via the -I option).

However, the path to the include file is determined at the time the source is configured. To solve this problem, gpgme ships with a small helper program gpgme-config that knows about the path to the include file and other configuration options. The options that need to be added to the compiler invocation at compile time are output by the --cflags option to gpgme-config. The following example shows how it can be used at the command line:

```
gcc -c foo.c `gpgme-config --cflags`
```

Adding the output of gpgme-config --cflags to the compiler command line will ensure that the compiler can find the GPGME header file.

A similar problem occurs when linking the program with the library. Again, the compiler has to find the library files. For this to work, the path to the library files has to be added to the library search path (via the -L option). For this, the option --libs to gpgme-config can be used. For convenience, this option also outputs all other options that are required to link the program with GPGME (in particular, the -lpggme option). The example shows how to link foo.o with the GPGME library to a program foo.

```
gcc -o foo foo.o `gpgme-config --libs`
```

Of course you can also combine both examples to a single command by specifying both options to gpgme-config:

```
gcc -o foo foo.c `gpgme-config --cflags --libs`
```

If you need to detect the installed language bindings you can use list them using:

```
gpgme-config --print-lang
```

or test for the availability using

```
gpgme-config --have-lang=python && echo 'Bindings for Pythons available'
```


2.3 Largefile Support (LFS)

GPGME is compiled with largefile support by default, if it is available
on the system. This means that GPGME supports files larger than two gigabyte in size, if the underlying operating system can. On some systems, largefile support is already the default. On such systems, nothing special is required. However, some systems provide only support for files up to two gigabyte in size by default. Support for larger file sizes has to be specifically enabled.

To make a difficult situation even more complex, such systems provide two different types of largefile support. You can either get all relevant functions replaced with alternatives that are largefile capable, or you can get new functions and data types for largefile support added. Those new functions have the same name as their smallfile counterparts, but with a suffix of 64.

An example: The data type off_t is 32 bit wide on GNU/Linux PC systems. To address offsets in large files, you can either enable largefile support add-on. Then a new data type off64_t is provided, which is 64 bit wide. Or you can replace the existing off_t data type with its 64 bit wide counterpart. All occurrences of off_t are then automatically replaced.

As if matters were not complex enough, there are also two different types of file descriptors in such systems. This is important because if file descriptors are exchanged between programs that use a different maximum file size, certain errors must be produced on some file descriptors to prevent subtle overflow bugs from occurring.

As you can see, supporting two different maximum file sizes at the same time is not at all an easy task. However, the maximum file size does matter for GPGME, because some data types it uses in its interfaces are affected by that. For example, the off_t data type is used in the gpgme_data_seek function, to match its POSIX counterpart. This affects the call-frame of the function, and thus the ABI of the library. Furthermore, file descriptors can be exchanged between GPGME and the application.

For you as the user of the library, this means that your program must be compiled in the same file size mode as the library. Luckily, there is absolutely no valid reason for new programs to not enable largefile support by default and just use that. The compatibility modes (small file sizes or dual mode) can be considered an historic artefact, only useful to allow for a transitional period.

On POSIX platforms GPGME is compiled using largefile support by default. This means that your application must do the same, at least as far as it is relevant for using the gpgme.h header file. All types in this header files refer to their largefile counterparts, if they are different from any default types on the system.
On 32 and 64 bit Windows platforms off_t is declared as 32 bit signed integer. There is no specific support for LFS in the C library. The recommendation from Microsoft is to use the native interface (CreateFile et al.) for large files. Released binary versions of GPGME (libgpgme-11.dll) have always been build with a 32 bit off_t. To avoid an ABI break we stick to this convention for 32 bit Windows by using long there. GPGME versions for 64 bit Windows have never been released and thus we are able to use int64_t instead of off_t there. For easier migration the typedef gpgme_off_t has been defined. The reason we cannot use off_t directly is that some toolchains (e.g. mingw64) introduce a POSIX compatible hack for off_t. Some widely used toolkits make use of this hack and in turn GPGME would need to use it also. However, this would introduce an ABI break and existing software making use of libgpgme might suffer from a severe break. Thus with version 1.4.2 we redefined all functions using off_t to use gpgme_off_t which is defined as explained above. This way we keep the ABI well defined and independent of any toolchain hacks. The bottom line is that LFS support in GPGME is only available on 64 bit versions of Windows.

On POSIX platforms you can enable largefile support, if it is different from the default on the system the application is compiled on, by using the Autoconf macro AC_SYS_LARGEFILE. If you do this, then you dont need to worry about anything else: It will just work. In this case you might also want to use AC_FUNC_FSEEKO to take advantage of some new interfaces, and AC_TYPE_OFF_T (just in case).

If you do not use Autoconf, you can define the preprocessor symbol _FILE_OFFSET_BITS to 64 _before_ including any header files, for example by specifying the option -D_FILE_OFFSET_BITS=64 on the compiler command line. You will also want to define the preprocessor symbol LARGEFILE_SOURCE to 1 in this case, to take advantage of some new interfaces.

If you do not want to do either of the above, you probably know enough about the issue to invent your own solution. Just keep in mind that the GPGME header file expects that largefile support is enabled, if it is available. In particular, we do not support dual mode (_LARGEFILE64_SOURCE).


2.4 Using Automake

It is much easier if you use GNU Automake instead of writing your own
Makefiles. If you do that you do not have to worry about finding and invoking the gpgme-config script at all. GPGME provides an extension to Automake that does all the work for you.

-- Macro: AM_PATH_GPGME ([MINIMUM-VERSION], [ACTION-IF-FOUND], [ACTION-IF-NOT-FOUND])
-- Macro: AM_PATH_GPGME_PTH ([MINIMUM-VERSION], [ACTION-IF-FOUND], [ACTION-IF-NOT-FOUND])
-- Macro: AM_PATH_GPGME_PTHREAD ([MINIMUM-VERSION], [ACTION-IF-FOUND], [ACTION-IF-NOT-FOUND])

Check whether GPGME (at least version MINIMUM-VERSION, if given) exists on the host system. If it is found, execute ACTION-IF-FOUND, otherwise do ACTION-IF-NOT-FOUND, if given.

Additionally, the function defines GPGME_CFLAGS to the flags needed for compilation of the program to find the gpgme.h header file, and GPGME_LIBS to the linker flags needed to link the program to the GPGME library. If the used helper script does not match the target type you are building for a warning is printed and the string libgcrypt is appended to the variable gpg_config_script_warn.

AM_PATH_GPGME_PTH checks for the version of GPGME that can be used with GNU Pth, and defines GPGME_PTH_CFLAGS and GPGME_PTH_LIBS.

AM_PATH_GPGME_PTHREAD checks for the version of GPGME that can be used with the native pthread implementation, and defines GPGME_PTHREAD_CFLAGS and GPGME_PTHREAD_LIBS. Since version 1.8.0 this is no longer required to GPGME_PTHREAD as GPGME itself is thread safe.

This macro searches for gpgme-config along the PATH. If you are cross-compiling, it is useful to set the environment variable SYSROOT to the top directory of your target. The macro will then first look for the helper program in the bin directory below that top directory. An absolute directory name must be used for SYSROOT. Finally, if the configure command line option --with-gpgme-prefix is used, only its value is used for the top directory below which the helper script is expected.

You can use the defined Autoconf variables like this in your Makefile.am:

    AM_CPPFLAGS = $(GPGME_CFLAGS)
    LDADD = $(GPGME_LIBS)
2.5 Using Libtool

The easiest way is to just use GNU Libtool. If you use libtool, and link to libgpgme.la, libgpgme-pth.la or libgpgme-pthread.la respectively, everything will be done automatically by Libtool.

2.6 Library Version Check

-- Function: const char * gpgme_check_version
       (const char *REQUIRED_VERSION)

The function gpgme_check_version has four purposes. It can be used to retrieve the version number of the library. In addition it can verify that the version number is higher than a certain required version number. In either case, the function initializes some sub-systems, and for this reason alone it must be invoked early in your program, before you make use of the other functions in GPGME. The last purpose is to run selftests.

As a side effect for W32 based systems, the socket layer will get initialized.

If REQUIRED_VERSION is NULL, the function returns a pointer to a statically allocated string containing the version number of the library.

If REQUIRED_VERSION is not NULL, it should point to a string containing a version number, and the function checks that the version of the library is at least as high as the version number provided. In this case, the function returns a pointer to a statically allocated string containing the version number of the library. If REQUIRED_VERSION is not a valid version number, or if the version requirement is not met, the function returns NULL.

If you use a version of a library that is backwards compatible with older releases, but contains additional interfaces which your program uses, this function provides a run-time check if the necessary features are provided by the installed version of the library.

If a selftest fails, the function may still succeed. Selftest errors are returned later when invoking gpgme_new or
gpgme-data_new, so that a detailed error code can be returned
(historically, gpgme_check_version does not return a detailed
error code).

-- Function: int gpgme_set_global_flag (const char *NAME,
      const char *VALUE)

SINCE: 1.4.0

On some systems it is not easy to set environment variables and
thus hard to use GPGMEs internal trace facility for debugging.
This function has been introduced as an alternative way to enable
debugging and for a couple of other rarely used tweaks. It is
important to assure that only one thread accesses GPGME functions
between a call to this function and after the return from the call
to gpgme_check_version.

All currently supported features require that this function is
called as early as possible even before gpgme_check_version.
The features are identified by the following values for NAME:

debug
   To enable debugging use the string debug for NAME and VALUE
   identical to the value used with the environment variable
   GPGME_DEBUG.

disable-gpgconf
   Using this feature with any VALUE disables the detection of
   the gpgconf program and thus forces GPGME to fallback into the
   simple OpenPGP only mode. It may be used to force the use of
   GnuPG-1 on systems which have both GPG versions installed.
   Note that in general the use of gpgme_set_engine_info is a
   better way to select a specific engine version.

gpgconf-name

gpg-name
   Set the name of the gpgconf respective gpg binary. The
defaults are GNU/GnuPG/gpgconf and GNU/GnuPG/gpg. Under
   Unix the leading directory part is ignored. Under Windows the
   leading directory part is used as the default installation
directory; the .exe suffix is added by GPGME. Use forward
   slashed even under Windows.

require-gnupg
   Set the minimum version of the required GnuPG engine. If that
   version is not met, GPGME fails early instead of trying to use
   the existent version. The given version must be a string with
   major, minor, and micro number. Example: "2.1.0".
w32-inst-dir

On Windows GPGME needs to know its installation directory to find its spawn helper. This is in general no problem because a DLL has this information. Some applications however link statically to GPGME and thus GPGME can only figure out the installation directory of this application which may be wrong in certain cases. By supplying an installation directory as value to this flag, GPGME will assume that that directory is the installation directory. This flag has no effect on non-Windows platforms.

This function returns 0 on success. In contrast to other functions the non-zero return value on failure does not convey any error code. For setting debug the only possible error cause is an out of memory condition; which would exhibit itself later anyway. Thus the return value may be ignored.

After initializing GPGME, you should set the locale information to the locale required for your output terminal. This locale information is needed for example for the curses and Gtk pinentry. Here is an example of a complete initialization:

```
#include <locale.h>
#include <gpgme.h>

void
init_gpgme (void)
{
  /* Initialize the locale environment. */
  setlocale (LC_ALL, "");
  gpgme_check_version (NULL);
  gpgme_set_locale (NULL, LC_CTYPE, setlocale (LC_CTYPE, NULL));
  #ifdef LC_MESSAGES
  gpgme_set_locale (NULL, LC_MESSAGES, setlocale (LC_MESSAGES, NULL));
  #endif
}
```

Note that you are highly recommended to initialize the locale settings like this. GPGME can not do this for you because it would not be thread safe. The conditional on LC_MESSAGES is only necessary for portability to W32 systems.


2.7 Signal Handling

===================
The GPGME library communicates with child processes (the crypto engines). If a child process dies unexpectedly, for example due to a bug, or system problem, a SIGPIPE signal will be delivered to the application. The default action is to abort the program. To protect against this, gpgme_check_version sets the SIGPIPE signal action to SIG_IGN, which means that the signal will be ignored.

GPGME will only do that if the signal action for SIGPIPE is SIG_DEF at the time gpgme_check_version is called. If it is something different, GPGME will take no action.

This means that if your application does not install any signal handler for SIGPIPE, you don't need to take any precautions. If you do install a signal handler for SIGPIPE, you must be prepared to handle any SIGPIPE events that occur due to GPGME writing to a defunct pipe. Furthermore, if your application is multi-threaded, and you install a signal action for SIGPIPE, you must make sure you do this either before gpgme_check_version is called or afterwards.


2.8 Multi-Threading

The GPGME library is mostly thread-safe, and can be used in a multi-threaded environment but there are some requirements for multi-threaded use:

The function gpgme_check_version must be called before any other function in the library, because it initializes the thread support subsystem in GPGME. To achieve this in multi-threaded programs, you must synchronize the memory with respect to other threads that also want to use GPGME. For this, it is sufficient to call gpgme_check_version before creating the other threads using GPGME(1).

Any gpgme_data_t and gpgme_ctx_t object must only be accessed by one thread at a time. If multiple threads want to deal with the same object, the caller has to make sure that operations on that object are fully synchronized.

Only one thread at any time is allowed to call gpgme_wait. If multiple threads call this function, the caller must make sure that all invocations are fully synchronized. It is safe to start asynchronous operations while a thread is running in gpgme_wait.
The function gpgme_strerror is not thread safe. You have to use gpgme_strerror_r instead.

---------- Footnotes ----------

(1) At least this is true for POSIX threads, as pthread_create is a function that synchronizes memory with respects to other threads. There are many functions which have this property, a complete list can be found in POSIX, IEEE Std 1003.1-2003, Base Definitions, Issue 6, in the definition of the term Memory Synchronization. For other thread packages other, more relaxed or more strict rules may apply.


3 Protocols and Engines
*******************************

GPGME supports several cryptographic protocols, however, it does not implement them. Rather it uses backends (also called engines) which implement the protocol. GPGME uses inter-process communication to pass data back and forth between the application and the backend, but the details of the communication protocol and invocation of the backend is completely hidden by the interface. All complexity is handled by GPGME. Where an exchange of information between the application and the backend is necessary, GPGME provides the necessary callback function hooks and further interfaces.

-- Data type: enum gpgme_protocol_t

The gpgme_protocol_t type specifies the set of possible protocol values that are supported by GPGME. The following protocols are supported:

GPGME_PROTOCOL_OpenPGP
GPGME_PROTOCOL_OPENPGP
   This specifies the OpenPGP protocol.

GPGME_PROTOCOL_CMS
   This specifies the Cryptographic Message Syntax.

GPGME_PROTOCOL_GPGCONF
   Under development. Please ask on <gnupg-devel@gnupg.org> for help.

GPGME_PROTOCOL_ASSUAN
   SINCE: 1.2.0

   This specifies the raw Assuan protocol.
GPGME_PROTOCOL_G13  
SINCE: 1.3.0  

Under development. Please ask on <gnupg-devel@gnupg.org> for help.

GPGME_PROTOCOL_UISERVER  
Under development. Please ask on <gnupg-devel@gnupg.org> for help.

GPGME_PROTOCOL_SPAWN  
SINCE: 1.5.0  

Special protocol for use with gpgme_op_spawn.

GPGME_PROTOCOL_UNKNOWN  
Reserved for future extension. You may use this to indicate that the used protocol is not known to the application. Currently, GPGME does not accept this value in any operation, though, except for gpgme_get_protocol_name.

-- Function: const char * gpgme_get_protocol_name
    (gpgme_protocol_t PROTOCOL)

The function gpgme_get_protocol_name returns a statically allocated string describing the protocol PROTOCOL, or NULL if the protocol number is not valid.

* Menu:

* Engine Version Check:: Verifying the engine version.
* Engine Information:: Obtaining more information about the engines.
* Engine Configuration:: Changing the engine configuration.
* OpenPGP:: Support for the OpenPGP protocol.
* Cryptographic Message Syntax:: Support for the CMS.
* Assuan:: Support for the raw Assuan protocol.


3.1 Engine Version Check
========================

-- Function: const char * gpgme_get_dirinfo (cons char *WHAT)
    SINCE: 1.5.0

The function gpgme_get_dirinfo returns a statically allocated string with the value associated to WHAT. The returned values are
the defaults and wont change even after gpgme_set_engine_info
has been used to configure a different engine. NULL is returned
if no value is available. Commonly supported values for WHAT are:

homedir
   Return the default home directory.

sysconfdir
   Return the name of the system configuration directory

bindir
   Return the name of the directory with GnuPG program files.

libdir
   Return the name of the directory with GnuPG related library
   files.

libexecdir
   Return the name of the directory with GnuPG helper program
   files.

data dir
   Return the name of the directory with GnuPG shared data.

localedir
   Return the name of the directory with GnuPG locale data.

agent-socket
   Return the name of the socket to connect to the gpg-agent.

agent-ssh-socket
   Return the name of the socket to connect to the ssh-agent
   component of gpg-agent.

dirmngr-socket
   Return the name of the socket to connect to the dirmngr.

uiserver-socket
   Return the name of the socket to connect to the user interface
   server.

gpgconf-name
   Return the file name of the engine configuration tool.

gpg-name
   Return the file name of the OpenPGP engine.

gpgsm-name
Return the file name of the CMS engine.

g13-name
    Return the name of the file container encryption engine.

gpg-wks-client-name
    Return the name of the Web Key Service tool.

-- Function: gpgme_error_t gpgme_engine_check_version
    (gpgme_protocol_t PROTOCOL)
The function gpgme_engine_check_version verifies that the engine
implementing the protocol PROTOCOL is installed in the expected
path and meets the version requirement of GPGME.

    This function returns the error code GPG_ERR_NO_ERROR if the
engine is available and GPG_ERR_INV_ENGINE if it is not.


3.2 Engine Information
======================

-- Data type: gpgme_engine_info_t
    The gpgme_engine_info_t type specifies a pointer to a structure
describing a crypto engine. The structure contains the following
elements:

gpgme_engine_info_t next
    This is a pointer to the next engine info structure in the
linked list, or NULL if this is the last element.

gpgme_protocol_t protocol
    This is the protocol for which the crypto engine is used. You
can convert this to a string with gpgme_get_protocol_name
for printing.

const char *file_name
    This is a string holding the file name of the executable of
the crypto engine. Currently, it is never NULL, but using
NULL is reserved for future use, so always check before you
use it.

const char *home_dir
    This is a string holding the directory name of the crypto
engines configuration directory. If it is NULL, then the
default directory is used. See gpgme_get_dirinfo on how to
const char *version
This is a string containing the version number of the crypto engine. It might be NULL if the version number cannot be determined, for example because the executable doesn't exist or is invalid.

const char *req_version
This is a string containing the minimum required version number of the crypto engine for GPGME to work correctly. This is the version number that gpgme_engine_check_version verifies against. Currently, it is never NULL, but using NULL is reserved for future use, so always check before you use it.

-- Function: gpgme_error_t gpgme_get_engine_info
(gpgme_engine_info_t *INFO)
The function gpgme_get_engine_info returns a linked list of engine info structures in INFO. Each info structure describes the defaults of one configured backend.

The memory for the info structures is allocated the first time this function is invoked, and must not be freed by the caller.

This function returns the error code GPG_ERR_NO_ERROR if successful, and a system error if the memory could not be allocated.

Here is an example how you can provide more diagnostics if you receive an error message which indicates that the crypto engine is invalid.

gpgme_ctx_t ctx;
gpgme_error_t err;

[...]

if (gpgme_err_code (err) == GPG_ERR_INV_ENGINE)
{
    gpgme_engine_info_t info;
    err = gpgme_get_engine_info (&info);
    if (!err)
    {
        while (info && info->protocol != gpgme_get_protocol (ctx))
            info = info->next;
        if (!info)
            fprintf (stderr, "GPGME compiled without support for protocol %s",

gpgme_get_protocol_name (info->protocol));
else if (info->file_name && !info->version)
    fprintf (stderr, "Engine %s not installed properly",
        info->file_name);
else if (info->file_name && info->version && info->req_version)
    fprintf (stderr, "Engine %s version %s installed, "
        "but at least version %s required", info->file_name,
        info->version, info->req_version);
else
    fprintf (stderr, "Unknown problem with engine for protocol %s",
        gpgme_get_protocol_name (info->protocol));
}
}


3.3 Engine Configuration

You can change the configuration of a backend engine, and thus change the executable program and configuration directory to be used. You can make these changes the default or set them for some contexts individually.

-- Function: gpgme_error_t gpgme_set_engine_info
    (gpgme_protocol_t PROTO, const char *FILE_NAME,
    const char *HOME_DIR)
SINCE: 1.1.0

The function gpgme_set_engine_info changes the default configuration of the crypto engine implementing the protocol PROTO.

FILE_NAME is the file name of the executable program implementing this protocol, and HOME_DIR is the directory name of the configuration directory for this crypto engine. If HOME_DIR is NULL, the engines default will be used.

The new defaults are not applied to already created GPGME contexts.

This function returns the error code GPG_ERR_NO_ERROR if successful, or an error code on failure.

The functions gpgme_ctx_get_engine_info and gpgme_ctx_set_engine_info can be used to change the engine configuration per context. *Note Crypto Engine::.
3.4 OpenPGP
===========

OpenPGP is implemented by GnuPG, the GNU Privacy Guard. This is the first protocol that was supported by GPGME.

The OpenPGP protocol is specified by GPGME_PROTOCOL_OpenPGP.

3.5 Cryptographic Message Syntax
================================

CMS is implemented by GpgSM, the S/MIME implementation for GnuPG.

The CMS protocol is specified by GPGME_PROTOCOL_CMS.

3.6 Assuan
==========

Assuan is the RPC library used by the various GnuPG components. The Assuan protocol allows one to talk to arbitrary Assuan servers using GPGME. *Note Using the Assuan protocol::*

The ASSUAN protocol is specified by GPGME_PROTOCOL_ASSUAN.

4 Algorithms
************

The crypto backends support a variety of algorithms used in public key cryptography.(1) The following sections list the identifiers used to denote such an algorithm.

* Menu:

* Public Key Algorithms:: A list of all public key algorithms.
* Hash Algorithms: A list of all hash algorithms.

-------- Footnotes --------

(1) Some engines also provide symmetric only encryption; see the description of the encryption function on how to use this.


4.1 Public Key Algorithms

Public key algorithms are used for encryption, decryption, signing and verification of signatures.

-- Data type: enum gpgme_pubkey_algo_t

The gpgme_pubkey_algo_t type specifies the set of all public key algorithms that are supported by GPGME. Possible values are:

GPGME_PK_RSA
This value indicates the RSA (Rivest, Shamir, Adleman) algorithm.

GPGME_PK_RSA_E
Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for encryption and decryption only.

GPGME_PK_RSA_S
Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for signing and verification only.

GPGME_PK_DSA
This value indicates DSA, the Digital Signature Algorithm.

GPGME_PK_ELG
This value indicates ElGamal.

GPGME_PK_ELG_E
This value also indicates ElGamal and is used specifically in GnuPG.

GPGME_PK_ECC
SINCE: 1.5.0

This value is a generic indicator for elliptic curve algorithms.
GPGME_PK_ECDSA
SINCE: 1.3.0

This value indicates ECDSA, the Elliptic Curve Digital Signature Algorithm as defined by FIPS 186-2 and RFC-6637.

GPGME_PK_ECDH
SINCE: 1.3.0

This value indicates ECDH, the Elliptic Curve Diffie-Hellmann encryption algorithm as defined by RFC-6637.

GPGME_PK_EDDSA
SINCE: 1.7.0

This value indicates the EdDSA algorithm.

-- Function: const char * gpgme_pubkey_algo_name
    (gpgme_pubkey_algo_t ALGO)

The function gpgme_pubkey_algo_name returns a pointer to a statically allocated string containing a description of the public key algorithm ALGO. This string can be used to output the name of the public key algorithm to the user.

If ALGO is not a valid public key algorithm, NULL is returned.

-- Function: char * gpgme_pubkey_algo_string (gpgme_subkey_t KEY)
SINCE: 1.7.0

The function gpgme_pubkey_algo_string is a convenience function to build and return an algorithm string in the same way GnuPG does (e.g. rsa2048 or ed25519). The caller must free the result using gpgme_free. On error (e.g. invalid argument or memory exhausted), the function returns NULL and sets ERRNO.


4.2 Hash Algorithms
====================

Hash (message digest) algorithms are used to compress a long message to make it suitable for public key cryptography.

-- Data type: enum gpgme_hash_algo_t

The gpgme_hash_algo_t type specifies the set of all hash algorithms that are supported by GPGME. Possible values are:
GPGME_MD_MD5
GPGME_MD_SHA1
GPGME_MD_RMD160
GPGME_MD_MD2
GPGME_MD_TIGER
GPGME_MD_HAVAL
GPGME_MD_SHA256
GPGME_MD_SHA384
GPGME_MD_SHA512
GPGME_MD_SHA224
SINCE: 1.5.0

GPGME_MD_MD4
GPGME_MD_CRC32
GPGME_MD_CRC32_RFC1510
GPGME_MD_CRC24_RFC2440

-- Function: const char * gpgme_hash_algo_name (gpgme_hash_algo_t ALGO)

The function gpgme_hash_algo_name returns a pointer to a
statically allocated string containing a description of the hash
algorithm ALGO. This string can be used to output the name of the
hash algorithm to the user.

If ALGO is not a valid hash algorithm, NULL is returned.


5 Error Handling

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

Many functions in GPGME can return an error if they fail. For this
reason, the application should always catch the error condition and take
appropriate measures, for example by releasing the resources and passing
the error up to the caller, or by displaying a descriptive message to
the user and cancelling the operation.

Some error values do not indicate a system error or an error in the
operation, but the result of an operation that failed properly. For
example, if you try to decrypt a tempered message, the decryption will
fail. Another error value actually means that the end of a data buffer
or list has been reached. The following descriptions explain for many
error codes what they mean usually. Some error values have specific
meanings if returned by a certain functions. Such cases are described
in the documentation of those functions.

GPGME uses the libgpg-error library. This allows to share the
error codes with other components of the GnuPG system, and thus pass
error values transparently from the crypto engine, or some helper
application of the crypto engine, to the user. This way no information
is lost. As a consequence, GPGME does not use its own identifiers for
error codes, but uses those provided by libgpg-error. They usually
start with GPG_ERR_.

However, GPGME does provide aliases for the functions defined in
libgpg-error, which might be preferred for name space consistency.

* Menu:

* Error Values:: The error value and what it means.
* Error Sources:: A list of important error sources.
* Error Codes:: A list of important error codes.
* Error Strings:: How to get a descriptive string from a value.

File: gpgme.info, Node: Error Values, Next: Error Sources, Up: Error Handling

5.1 Error Values

-- Data type: gpgme_err_code_t
The gpgme_err_code_t type is an alias for the libgpg-error type
gpg_err_code_t. The error code indicates the type of an error,
or the reason why an operation failed.

A list of important error codes can be found in the next section.

-- Data type: gpgme_err_source_t
The gpgme_err_source_t type is an alias for the libgpg-error
type gpg_err_source_t. The error source has not a precisely
defined meaning. Sometimes it is the place where the error
happened, sometimes it is the place where an error was encoded into
an error value. Usually the error source will give an indication
to where to look for the problem. This is not always true, but it
is attempted to achieve this goal.

A list of important error sources can be found in the next section.

-- Data type: gpgme_error_t
The gpgme_error_t type is an alias for the libgpg-error type
gpg_error_t. An error value like this has always two components,
an error code and an error source. Both together form the error
value.

Thus, the error value can not be directly compared against an error
code, but the accessor functions described below must be used.
However, it is guaranteed that only 0 is used to indicate success (GPG_ERR_NO_ERROR), and that in this case all other parts of the error value are set to 0, too.

Note that in GPGME, the error source is used purely for diagnostical purposes. Only the error code should be checked to test for a certain outcome of a function. The manual only documents the error code part of an error value. The error source is left unspecified and might be anything.

-- Function: static inline gpgme_err_code_t gpgme_err_code
     (gpgme_error_t ERR)
The static inline function gpgme_err_code returns the gpgme_err_code_t component of the error value ERR. This function must be used to extract the error code from an error value in order to compare it with the GPG_ERR_* error code macros.

-- Function: static inline gpgme_err_source_t gpgme_err_source
     (gpgme_error_t ERR)
The static inline function gpgme_err_source returns the gpgme_err_source_t component of the error value ERR. This function must be used to extract the error source from an error value in order to compare it with the GPG_ERR_SOURCE_* error source macros.

-- Function: static inline gpgme_error_t gpgme_err_make
     (gpgme_err_source_t SOURCE, gpgme_err_code_t CODE)
The static inline function gpgme_err_make returns the error value consisting of the error source SOURCE and the error code CODE.

This function can be used in callback functions to construct an error value to return it to the library.

-- Function: static inline gpgme_error_t gpgme_error
     (gpgme_err_code_t CODE)
The static inline function gpgme_error returns the error value consisting of the default error source and the error code CODE.

For GPGME applications, the default error source is GPG_ERR_SOURCE_USER_1. You can define GPGME_ERR_SOURCE_DEFAULT before including gpgme.h to change this default.

This function can be used in callback functions to construct an error value to return it to the library.

The libgpg-error library provides error codes for all system error numbers it knows about. If ERR is an unknown error number, the error code GPG_ERR_UNKNOWN_ERRNO is used. The following functions can be
used to construct error values from system error numbers.

-- Function: gpgme_error_t gpgme_err_make_from_errno
  (gpgme_err_source_t SOURCE, int ERR)
  The function gpgme_err_make_from_errno is like gpgme_err_make,
  but it takes a system error like errno instead of a
  gpgme_err_code_t error code.

-- Function: gpgme_error_t gpgme_error_from_errno (int ERR)
  The function gpgme_error_from_errno is like gpgme_error, but it
  takes a system error like errno instead of a gpgme_err_code_t
  error code.

Sometimes you might want to map system error numbers to error codes
directly, or map an error code representing a system error back to the
system error number. The following functions can be used to do that.

-- Function: gpgme_err_code_t gpgme_err_code_from_errno (int ERR)
  The function gpgme_err_code_from_errno returns the error code for
  the system error ERR. If ERR is not a known system error, the
  function returns GPG_ERR_UNKNOWN_ERRNO.

-- Function: int gpgme_err_code_to_errno (gpgme_err_code_t ERR)
  The function gpgme_err_code_to_errno returns the system error for
  the error code ERR. If ERR is not an error code representing a
  system error, or if this system error is not defined on this
  system, the function returns 0.

File: gpgme.info, Node: Error Sources, Next: Error Codes, Prev: Error Values, Up: Error Handling

5.2 Error Sources

The library libgpg-error defines an error source for every component
of the GnuPG system. The error source part of an error value is not
well defined. As such it is mainly useful to improve the diagnostic
error message for the user.

If the error code part of an error value is 0, the whole error
value will be 0. In this case the error source part is of course
GPG_ERR_SOURCE_UNKNOWN.

The list of error sources that might occur in applications using
GPGME is:

GPG_ERR_SOURCE_UNKNOWN
  The error source is not known. The value of this error source is
GPG_ERR_SOURCE_GPGME
   The error source is GPGME itself. This is the default for errors that occur in the GPGME library.

GPG_ERR_SOURCE_GPG
   The error source is GnuPG, which is the crypto engine used for the OpenPGP protocol.

GPG_ERR_SOURCE_GPGSM
   The error source is GPGSM, which is the crypto engine used for the CMS protocol.

GPG_ERR_SOURCE_GCRYPT
   The error source is libgcrypt, which is used by crypto engines to perform cryptographic operations.

GPG_ERR_SOURCE_GPGAGENT
   The error source is gpg-agent, which is used by crypto engines to perform operations with the secret key.

GPG_ERR_SOURCE_PINENTRY
   The error source is pinentry, which is used by gpg-agent to query the passphrase to unlock a secret key.

GPG_ERR_SOURCE_SCD
   The error source is the SmartCard Daemon, which is used by gpg-agent to delegate operations with the secret key to a SmartCard.

GPG_ERR_SOURCE_KEYBOX
   The error source is libkbx, a library used by the crypto engines to manage local keyrings.

GPG_ERR_SOURCE_USER_1
GPG_ERR_SOURCE_USER_2
GPG_ERR_SOURCE_USER_3
GPG_ERR_SOURCE_USER_4
   These error sources are not used by any GnuPG component and can be used by other software. For example, applications using GPGME can use them to mark error values coming from callback handlers. Thus GPG_ERR_SOURCE_USER_1 is the default for errors created with gpgme_error and gpgme_error_from_errno, unless you define GPGME_ERR_SOURCE_DEFAULT before including gpgme.h.
5.3 Error Codes

The library libgpg-error defines many error values. Most of them are not used by GPGME directly, but might be returned by GPGME because it received them from the crypto engine. The below list only includes such error codes that have a specific meaning in GPGME, or which are so common that you should know about them.

GPG_ERR_EOF
This value indicates the end of a list, buffer or file.

GPG_ERR_NO_ERROR
This value indicates success. The value of this error code is 0.
Also, it is guaranteed that an error value made from the error code 0 will be 0 itself (as a whole). This means that the error source information is lost for this error code, however, as this error code indicates that no error occurred, this is generally not a problem.

GPG_ERR_GENERAL
This value means that something went wrong, but either there is not enough information about the problem to return a more useful error value, or there is no separate error value for this type of problem.

GPG_ERR_ENOMEM
This value means that an out-of-memory condition occurred.

GPG_ERR_E...
System errors are mapped to GPG_ERR_FOO where FOO is the symbol for the system error.

GPG_ERR_INV_VALUE
This value means that some user provided data was out of range.
This can also refer to objects. For example, if an empty gpgme_data_t object was expected, but one containing data was provided, this error value is returned.

GPG_ERR_UNUSABLE_PUBKEY
This value means that some recipients for a message were invalid.

GPG_ERR_UNUSABLE_SECKEY
This value means that some signers were invalid.

GPG_ERR_NO_DATA
This value means that a gpgme_data_t object which was expected to
have content was found empty.

GPG_ERR_CONFLICT
This value means that a conflict of some sort occurred.

GPG_ERR_NOT_IMPLEMENTED
This value indicates that the specific function (or operation) is not implemented. This error should never happen. It can only occur if you use certain values or configuration options which do not work, but for which we think that they should work at some later time.

GPG_ERR_DECRYPT_FAILED
This value indicates that a decryption operation was unsuccessful.

GPG_ERR_BAD_PASSPHRASE
This value means that the user did not provide a correct passphrase when requested.

GPG_ERR_CANCELED
This value means that the operation was canceled.

GPG_ERR_INV_ENGINE
This value means that the engine that implements the desired protocol is currently not available. This can either be because the sources were configured to exclude support for this engine, or because the engine is not installed properly.

GPG_ERR_AMBIGUOUS_NAME
This value indicates that a user ID or other specifier did not specify a unique key.

GPG_ERR_WRONG_KEY_USAGE
This value indicates that a key is not used appropriately.

GPG_ERR_CERT_REVOKED
This value indicates that a key signature was revoked.

GPG_ERR_CERT_EXPIRED
This value indicates that a key signature expired.

GPG_ERR_NO_CRL_KNOWN
This value indicates that no certificate revocation list is known for the certificate.

GPG_ERR_NO_POLICY_MATCH
This value indicates that a policy issue occurred.
GPG_ERR_NO_SECKEY
This value indicates that no secret key for the user ID is available.

GPG_ERR_MISSING_CERT
This value indicates that a key could not be imported because the issuer certificate is missing.

GPG_ERR_BAD_CERT_CHAIN
This value indicates that a key could not be imported because its certificate chain is not good, for example it could be too long.

GPG_ERR_UNSUPPORTED_ALGORITHM
This value means a verification failed because the cryptographic algorithm is not supported by the crypto backend.

GPG_ERR_BAD_SIGNATURE
This value means a verification failed because the signature is bad.

GPG_ERR_NO_PUBKEY
This value means a verification failed because the public key is not available.

GPG_ERR_USER_1
GPG_ERR_USER_2
...
GPG_ERR_USER_16
These error codes are not used by any GnuPG component and can be freely used by other software. Applications using GPGME might use them to mark specific errors returned by callback handlers if no suitable error codes (including the system errors) for these errors exist already.

File: gpgme.info, Node: Error Strings, Prev: Error Codes, Up: Error Handling

5.4 Error Strings
==============

-- Function: const char * gpgme_strerror (gpgme_error_t ERR)
The function gpgme_strerror returns a pointer to a statically allocated string containing a description of the error code contained in the error value ERR. This string can be used to output a diagnostic message to the user.

This function is not thread safe. Use gpgme_strerror_r in multi-threaded programs.
-- Function: int gpgme_strerror_r (gpgme_error_t ERR, char *BUF, size_t BUFLEN)
The function gpgme_strerror_r returns the error string for ERR in the user-supplied buffer BUF of size BUFLEN. This function is, in contrast to gpgme_strerror, thread-safe if a thread-safe strerror_r function is provided by the system. If the function succeeds, 0 is returned and BUF contains the string describing the error. If the buffer was not large enough, ERANGE is returned and BUF contains as much of the beginning of the error string as fits into the buffer.

-- Function: const char * gpgme_strsource (gpgme_error_t ERR)
The function gpgme_strerror returns a pointer to a statically allocated string containing a description of the error source contained in the error value ERR. This string can be used to output a diagnostic message to the user.

The following example illustrates the use of gpgme_strerror:

```c
#include <gpgme/gpgme.h>

int main (void)
{
  gpgme_ctx_t ctx;
  gpgme_error_t err = gpgme_new (&ctx);
  if (err)
  {
    fprintf (stderr, "%s: creating GpgME context failed: %s: %s\n",
      argv[0], gpgme_strsource (err), gpgme_strerror (err));
    exit (1);
  }
}
```

The following example illustrates the use of gpgme_strerror:

```c
#include <gpgme/gpgme.h>

int main (void)
{
  gpgme_ctx_t ctx;
  gpgme_error_t err = gpgme_new (&ctx);
  if (err)
  {
    fprintf (stderr, "%s: creating GpgME context failed: %s: %s\n",
      argv[0], gpgme_strsource (err), gpgme_strerror (err));
    exit (1);
  }
}
```

File: gpgme.info, Node: Exchanging Data, Next: Contexts, Prev: Error Handling, Up: Top

6 Exchanging Data
***************

A lot of data has to be exchanged between the user and the crypto engine, like plaintext messages, ciphertext, signatures and information about the keys. The technical details about exchanging the data information are completely abstracted by GPGME. The user provides and receives the data via gpgme_data_t objects, regardless of the communication protocol between GPGME and the crypto engine in use.

-- Data type: gpgme_data_t
The gpgme_data_t type is a handle for a container for generic data, which is used by GPGME to exchange data with the user.

gpgme_data_t objects do not provide notifications on events. It is assumed that read and write operations are blocking until data is
available. If this is undesirable, the application must ensure that all
GPGME data operations always have data available, for example by using
memory buffers or files rather than pipes or sockets. This might be
relevant, for example, if the external event loop mechanism is used.

-- Data type: gpgme_off_t
  SINCE: 1.4.1

  On POSIX platforms the gpgme_off_t type is an alias for off_t;
it may be used interchangeable. On Windows platforms gpgme_off_t
is defined as a long (i.e. 32 bit) for 32 bit Windows and as a 64
bit signed integer for 64 bit Windows.

-- Data type: gpgme_ssize_t
  The gpgme_ssize_t type is an alias for ssize_t. It has only
  been introduced to overcome portability problems pertaining to the
declaration of ssize_t by different toolchains.

* Menu:

* Creating Data Buffers:: Creating new data buffers.
* Destroying Data Buffers:: Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.

File: gpgme.info, Node: Creating Data Buffers, Next: Destroying Data Buffers, Up: Exchanging Data

6.1 Creating Data Buffers
========================

Data objects can be based on memory, files, or callback functions
provided by the user. Not all operations are supported by all objects.

* Menu:

* Memory Based Data Buffers:: Creating memory based data buffers.
* File Based Data Buffers:: Creating file based data buffers.
* Callback Based Data Buffers:: Creating callback based data buffers.

File: gpgme.info, Node: Memory Based Data Buffers, Next: File Based Data Buffers, Up: Creating Data Buffers

6.1.1 Memory Based Data Buffers
--------------------------------

Memory based data objects store all data in allocated memory. This is
convenient, but only practical for an amount of data that is a fraction
of the available physical memory. The data has to be copied from its
source and to its destination, which can often be avoided by using one of the other data object

-- Function: gpgme_error_t gpgme_data_new (gpgme_data_t *DH)
The function gpgme_data_new creates a new gpgme_data_t object and returns a handle for it in DH. The data object is memory based and initially empty.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, GPG_ERR_INV_VALUE if DH is not a valid pointer, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_mem (gpgme_data_t *DH, const char *BUFFER, size_t SIZE, int COPY)
The function gpgme_data_new_from_mem creates a new gpgme_data_t object and fills it with SIZE bytes starting from BUFFER.

If COPY is not zero, a private copy of the data is made. If COPY is zero, the data is taken from the specified buffer as needed, and the user has to ensure that the buffer remains valid for the whole life span of the data object.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, GPG_ERR_INV_VALUE if DH or BUFFER is not a valid pointer, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_file (gpgme_data_t *DH, const char *FILENAME, int COPY)
The function gpgme_data_new_from_file creates a new gpgme_data_t object and fills it with the content of the file FILENAME.

If COPY is not zero, the whole file is read in at initialization time and the file is not used anymore after that. This is the only mode supported currently. Later, a value of zero for COPY might cause all reads to be delayed until the data is needed, but this is not yet implemented.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, GPG_ERR_INV_VALUE if DH or FILENAME is not a valid pointer, GPG_ERR_NOT_IMPLEMENTED if CODE is zero, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_filepart (gpgme_data_t *DH, const char *FILENAME, FILE *FP, off_t OFFSET, size_t LENGTH)
The function `gpgme_data_new_from_filepart` creates a new `gpgme_data_t` object and fills it with a part of the file specified by `FILENAME` or `FP`.

Exactly one of `FILENAME` and `FP` must be non-zero, the other must be zero. The argument that is not zero specifies the file from which `LENGTH` bytes are read into the data object, starting from `OFFSET`.

The function returns the error code `GPG_ERR_NO_ERROR` if the data object was successfully created, `GPG_ERR_INV_VALUE` if `DH` and exactly one of `FILENAME` and `FP` is not a valid pointer, and `GPG_ERR_ENOMEM` if not enough memory is available.

File: `gpgme.info`, Node: File Based Data Buffers, Next: Callback Based Data Buffers, Prev: Memory Based Data Buffers, Up: Creating Data Buffers

6.1.2 File Based Data Buffers

File based data objects operate directly on file descriptors or streams. Only a small amount of data is stored in core at any time, so the size of the data objects is not limited by GPGME.

-- Function: `gpgme_error_t gpgme_data_new_from_fd (gpgme_data_t *DH, int FD)`

The function `gpgme_data_new_from_fd` creates a new `gpgme_data_t` object and uses the file descriptor `FD` to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the file descriptor than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the file descriptor is set to blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code `GPG_ERR_NO_ERROR` if the data object was successfully created, and `GPG_ERR_ENOMEM` if not enough memory is available.

-- Function: `gpgme_error_t gpgme_data_new_from_stream (gpgme_data_t *DH, FILE *STREAM)`

The function `gpgme_data_new_from_stream` creates a new `gpgme_data_t` object and uses the I/O stream `STREAM` to read from (if used as an input data object) and write to (if used as an
output data object).

When using the data object as an input buffer, the function might read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_estream
   (gpgme_data_t *DH, gpgrt_stream_t STREAM)
   The function gpgme_data_new_from_estream creates a new gpgme_data_t object and uses the gpgrt stream STREAM to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, and GPG_ERR_ENOMEM if not enough memory is available.

File: gpgme.info, Node: Callback Based Data Buffers, Prev: File Based Data Buffers, Up: Creating Data Buffers

6.1.3 Callback Based Data Buffers
---------------------------------

If neither memory nor file based data objects are a good fit for your application, you can implement the functions a data object provides yourself and create a data object from these callback functions.

-- Data type: ssize_t (*gpgme_data_read_cb_t) (void *HANDLE, void *BUFFER, size_t SIZE)
   The gpgme_data_read_cb_t type is the type of functions which
GPGME calls if it wants to read data from a user-implemented data object. The function should read up to \texttt{SIZE} bytes from the current read position into the space starting at \texttt{BUFFER}. The \texttt{HANDLE} is provided by the user at data object creation time.

Note that GPGME assumes that the read blocks until data is available. Errors during I/O operations, except for \texttt{EINTR}, are usually fatal for crypto operations.

The function should return the number of bytes read, 0 on EOF, and -1 on error. If an error occurs, \texttt{ERRNO} should be set to describe the type of the error.

-- Data type: \texttt{ssize_t (*gpgme_data_write_cb_t)} (void *\texttt{HANDLE}, const void *\texttt{BUFFER}, \texttt{size_t SIZE})
The \texttt{gpgme_data_write_cb_t} type is the type of functions which GPGME calls if it wants to write data to a user-implemented data object. The function should write up to \texttt{SIZE} bytes to the current write position from the space starting at \texttt{BUFFER}. The \texttt{HANDLE} is provided by the user at data object creation time.

Note that GPGME assumes that the write blocks until data is available. Errors during I/O operations, except for \texttt{EINTR}, are usually fatal for crypto operations.

The function should return the number of bytes written, and -1 on error. If an error occurs, \texttt{ERRNO} should be set to describe the type of the error.

-- Data type: \texttt{off_t (*gpgme_data_seek_cb_t)} (void *\texttt{HANDLE}, off_t \texttt{OFFSET}, int \texttt{WHENCE})
The \texttt{gpgme_data_seek_cb_t} type is the type of functions which GPGME calls if it wants to change the current read/write position in a user-implemented data object, just like the \texttt{lseek} function.

The function should return the new read/write position, and -1 on error. If an error occurs, \texttt{ERRNO} should be set to describe the type of the error.

-- Data type: void (*\texttt{gpgme_data_release_cb_t}) (void *\texttt{HANDLE})
The \texttt{gpgme_data_release_cb_t} type is the type of functions which GPGME calls if it wants to destroy a user-implemented data object. The \texttt{HANDLE} is provided by the user at data object creation time.

-- Data type: \texttt{struct gpgme_data_cbs}
This structure is used to store the data callback interface functions described above. It has the following members:
gpgme_data_read_cb_t read
This is the function called by GPGME to read data from the
data object. It is only required for input data object.

gpgme_data_write_cb_t write
This is the function called by GPGME to write data to the data
object. It is only required for output data object.

gpgme_data_seek_cb_t seek
This is the function called by GPGME to change the current
read/write pointer in the data object (if available). It is
optional.

gpgme_data_release_cb_t release
This is the function called by GPGME to release a data object.
It is optional.

-- Function: gpgme_error_t gpgme_data_new_from_cbs (gpgme_data_t *DH,
gpgme_data_cbs_t CBS, void *HANDLE)
The function gpgme_data_new_from_cbs creates a new gpgme_data_t
object and uses the user-provided callback functions to operate on
the data object.

The handle HANDLE is passed as first argument to the callback
functions. This can be used to identify this data object.

The function returns the error code GPG_ERR_NO_ERROR if the data
object was successfully created, and GPG_ERR_ENOMEM if not enough
memory is available.

File: gpgme.info, Node: Destroying Data Buffers, Next: Manipulating Data Buffers, Prev: Creating Data Buffers,
Up: Exchanging Data

6.2 Destroying Data Buffers
==============================

-- Function: void gpgme_data_release (gpgme_data_t DH)
The function gpgme_data_release destroys the data object with the
handle DH. It releases all associated resources that were not
provided by the user in the first place.

-- Function: char * gpgme_data_release_and_get_mem (gpgme_data_t DH,
size_t *LENGTH)
The function gpgme_data_release_and_get_mem is like
gpgme_data_release, except that it returns the data buffer and
its length that was provided by the object.
The user has to release the buffer with gpgme_free. In case the user provided the data buffer in non-copy mode, a copy will be made for this purpose.

In case an error returns, or there is no suitable data buffer that can be returned to the user, the function will return NULL. In any case, the data object DH is destroyed.

-- Function: void gpgme_free (void *BUFFER)
SINCE: 1.1.1

The function gpgme_free releases the memory returned by gpgme_data_release_and_get_mem and gpgme_pubkey_algo_string. It should be used instead of the system libraries free function in case different allocators are used by a program. This is often the case if gpgme is used under Windows as a DLL.

File: gpgme.info, Node: Manipulating Data Buffers, Prev: Destroying Data Buffers, Up: Exchanging Data

6.3 Manipulating Data Buffers
=============================

Data buffers contain data and meta-data. The following operations can be used to manipulate both.

* Menu:

* Data Buffer I/O Operations:: I/O operations on data buffers.
* Data Buffer Meta-Data:: Meta-data manipulation of data buffers.
* Data Buffer Convenience:: Convenience function for data buffers.

File: gpgme.info, Node: Data Buffer I/O Operations, Next: Data Buffer Meta-Data, Up: Manipulating Data Buffers

6.3.1 Data Buffer I/O Operations
--------------------------------

-- Function: ssize_t gpgme_data_read (gpgme_data_t DH, void *BUFFER, size_t LENGTH)
The function gpgme_data_read reads up to LENGTH bytes from the data object with the handle DH into the space starting at BUFFER.

If no error occurs, the actual amount read is returned. If the end of the data object is reached, the function returns 0.

In all other cases, the function returns -1 and sets ERRNO.
-- Function: ssize_t gpgme_data_write (gpgme_data_t DH,
     const void *BUFFER, size_t SIZE)
The function gpgme_data_write writes up to SIZE bytes starting
from BUFFER into the data object with the handle DH at the current
write position.

The function returns the number of bytes actually written, or -1 if
an error occurs. If an error occurs, ERRNO is set.

-- Function: off_t gpgme_data_seek (gpgme_data_t DH, off_t OFFSET,
     int WHENCE)
The function gpgme_data_seek changes the current read/write
position.

The WHENCE argument specifies how the OFFSET should be interpreted.
It must be one of the following symbolic constants:

SEEK_SET
Specifies that OFFSET is a count of characters from the
beginning of the data object.

SEEK_CUR
Specifies that OFFSET is a count of characters from the
current file position. This count may be positive or
negative.

SEEK_END
Specifies that OFFSET is a count of characters from the end of
the data object. A negative count specifies a position within
the current extent of the data object; a positive count
specifies a position past the current end. If you set the
position past the current end, and actually write data, you
will extend the data object with zeros up to that position.

If successful, the function returns the resulting file position,
measured in bytes from the beginning of the data object. You can
use this feature together with SEEK_CUR to read the current
read/write position.

If the function fails, -1 is returned and ERRNO is set.
-- Function: char * gpgme_data_get_file_name (gpgme_data_t DH)
     SINCE: 1.1.0

The function gpgme_data_get_file_name returns a pointer to a string containing the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

If no error occurs, the string containing the file name is returned. Otherwise, NULL will be returned.

-- Function: gpgme_error_t gpgme_data_set_file_name (gpgme_data_t DH, const char *FILE_NAME)
     SINCE: 1.1.0

The function gpgme_data_set_file_name sets the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

The function returns the error code GPG_ERR_INV_VALUE if DH is not a valid pointer and GPG_ERR_ENOMEM if not enough memory is available.

-- Data type: enum gpgme_data_encoding_t

The gpgme_data_encoding_t type specifies the encoding of a gpgme_data_t object. For input data objects, the encoding is useful to give the backend a hint on the type of data. For output data objects, the encoding can specify the output data format on certain operations. Please note that not all backends support all encodings on all operations. The following data types are available:

GPGME_DATA_ENCODING_NONE
   This specifies that the encoding is not known. This is the default for a new data object. The backend will try its best to detect the encoding automatically.

GPGME_DATA_ENCODING_BINARY
   This specifies that the data is encoding in binary form; i.e. there is no special encoding.

GPGME_DATA_ENCODING_BASE64
   This specifies that the data is encoded using the Base-64 encoding scheme as used by MIME and other protocols.
GPGME_DATA_ENCODING_ARMOR
This specifies that the data is encoded in an armored form as used by OpenPGP and PEM.

GPGME_DATA_ENCODING_MIME
SINCE: 1.7.0

This specifies that the data is encoded as a MIME part.

GPGME_DATA_ENCODING_URL
SINCE: 1.2.0

The data is a list of linefeed delimited URLs. This is only useful with gpgme_op_import.

GPGME_DATA_ENCODING_URL0
SINCE: 1.2.0

The data is a list of binary zero delimited URLs. This is only useful with gpgme_op_import.

GPGME_DATA_ENCODING_URLESC
SINCE: 1.2.0

The data is a list of linefeed delimited URLs with all control and space characters percent escaped. This mode is is not yet implemented.

-- Function: gpgme_data_encoding_t gpgme_data_get_encoding
(gpgme_data_t DH)
The function gpgme_data_get_encoding returns the encoding of the data object with the handle DH. If DH is not a valid pointer (e.g. NULL) GPGME_DATA_ENCODING_NONE is returned.

-- Function: gpgme_error_t gpgme_data_set_encoding
(gpgme_data_t DH, gpgme_data_encoding_t ENC)
The function gpgme_data_set_encoding changes the encoding of the data object with the handle DH to ENC.

-- Function: gpgme_error_t gpgme_data_set_flag (gpgme_data_t DH, const char *NAME, const char *VALUE)
SINCE: 1.7.0

Some minor properties of the data object can be controlled with flags set by this function. The properties are identified by the following values for NAME:
size-hint
The value is a decimal number with the length gpgme shall assume for this data object. This is useful if the data is provided by callbacks or via file descriptors but the applications knows the total size of the data. If this is set the OpenPGP engine may use this to decide on buffer allocation strategies and to provide a total value for its progress information.

This function returns 0 on success.

File: gpgme.info, Node: Data Buffer Convenience, Prev: Data Buffer Meta-Data, Up: Manipulating Data Buffers

6.3.3 Data Buffer Convenience Functions
---------------------------------------

-- Data type: enum gpgme_data_type_t
       SINCE: 1.4.3

The gpgme_data_type_t type is used to return the detected type of the content of a data buffer.

GPGME_DATA_TYPE_INVALID
This is returned by gpgme_data_identify if it was not possible to identify the data. Reasons for this might be a non-seekable stream or a memory problem. The value is 0.
GPGME_DATA_TYPE_UNKNOWN
The type of the data is not known.
GPGME_DATA_TYPE_PGP_SIGNED
The data is an OpenPGP signed message. This may be a binary signature, a detached one or a cleartext signature.
GPGME_DATA_TYPE_PGP_ENCRYPTED
       SINCE: 1.7.0

The data is an OpenPGP encrypted message.
GPGME_DATA_TYPE_PGP_SIGNATURE
       SINCE: 1.7.0

The data is an OpenPGP detached signature.
GPGME_DATA_TYPE_PGP_OTHER
This is a generic OpenPGP message. In most cases this will be encrypted data.
GPGME_DATA_TYPE_PGP_KEY
This is an OpenPGP key (private or public).
GPGME_DATA_TYPE_CMS_SIGNED
This is a CMS signed message.
GPGME_DATA_TYPE_CMS_ENCRYPTED
This is a CMS encrypted (enveloped data) message.

GPGME_DATA_TYPE_CMS_OTHER

This is used for other CMS message types.

GPGME_DATA_TYPE_X509_CERT

The data is a X.509 certificate

GPGME_DATA_TYPE_PKCS12

The data is a PKCS#12 message. This is commonly used to exchange private keys for X.509.

-- Function: gpgme_data_type_t gpgme_data_identify (gpgme_data_t DH)

SINCE: 1.4.3

The function gpgme_data_identify returns the type of the data with the handle DH. If it is not possible to perform the identification, the function returns zero (GPGME_DATA_TYPE_INVALID). Note that depending on how the data object has been created the identification may not be possible or the data object may change its internal state (file pointer moved).

For file or memory based data object, the state should not change.


7 Contexts

**********

All cryptographic operations in GPGME are performed within a context, which contains the internal state of the operation as well as configuration parameters. By using several contexts you can run several cryptographic operations in parallel, with different configuration.

-- Data type: gpgme_ctx_t

The gpgme_ctx_t type is a handle for a GPGME context, which is used to hold the configuration, status and result of cryptographic operations.

* Menu:

* Creating Contexts:: Creating new GPGME contexts.
* Destroying Contexts:: Releasing GPGME contexts.
* Result Management:: Managing the result of crypto operations.
* Context Attributes:: Setting properties of a context.
* Key Management:: Managing keys with GPGME.
* Trust Item Management:: Managing trust items with GPGME.
* Crypto Operations:: Using a context for cryptography.
* Miscellaneous:: Miscellaneous operations
* Run Control:: Controlling how operations are run.
7.1 Creating Contexts
====================

-- Function: gpgme_error_t gpgme_new (gpgme_ctx_t *CTX)
The function gpgme_new creates a new gpgme_ctx_t object and returns a handle for it in CTX.

The function returns the error code GPG_ERR_NO_ERROR if the context was successfully created, GPG_ERR_INV_VALUE if CTX is not a valid pointer, and GPG_ERR_ENOMEM if not enough memory is available. Also, it returns GPG_ERR_NOT_OPERATIONAL if gpgme_check_version was not called to initialize GPGME, and GPG_ERR_SELFTEST_FAILED if a selftest failed. Currently, the only selftest is for Windows MingW32 targets to see if -mms-bitfields was used (as required).

7.2 Destroying Contexts
=======================

-- Function: void gpgme_release (gpgme_ctx_t CTX)
The function gpgme_release destroys the context with the handle CTX and releases all associated resources.

7.3 Result Management
======================

The detailed result of an operation is returned in operation-specific structures such as gpgme_decrypt_result_t. The corresponding retrieval functions such as gpgme_op_decrypt_result provide static access to the results after an operation completes. Those structures shall be considered read-only and an application must not allocate such a structure on its own. The following interfaces make it possible to detach a result structure from its associated context and give it a lifetime beyond that of the current operation or context.

-- Function: void gpgme_result_ref (void *RESULT)
SINCE: 1.2.0

The function gpgme_result_ref acquires an additional reference
for the result RESULT, which may be of any type gpgme_*_result_t.
As long as the user holds a reference, the result structure is
guaranteed to be valid and unmodified.

-- Function: void gpgme_result_unref (void *RESULT)

SINCE: 1.2.0

The function gpgme_result_unref releases a reference for the
result RESULT. If this was the last reference, the result
structure will be destroyed and all resources associated to it will
be released.

Note that a context may hold its own references to result structures,
typically until the context is destroyed or the next operation is
started. In fact, these references are accessed through the
gpgme_op_*_result functions.

File: gpgme.info, Node: Context Attributes, Next: Key Management, Prev: Result Management, Up: Contexts

7.4 Context Attributes
======================

* Menu:

* Protocol Selection:: Selecting the protocol used by a context.
* Crypto Engine:: Configuring the crypto engine.
* Setting the Sender:: How to tell the engine the sender.
* ASCII Armor:: Requesting ASCII armored output.
* Text Mode:: Choosing canonical text mode.
* Offline Mode:: Choosing offline mode.
* Pinentry Mode:: Choosing the pinentry mode.
* Included Certificates:: Including a number of certificates.
* Key Listing Mode:: Selecting key listing mode.
* Passphrase Callback:: Getting the passphrase from the user.
* Progress Meter Callback:: Being informed about the progress.
* Status Message Callback:: Status messages received from gpg.
* Context Flags:: Additional flags for a context.
* Locale:: Setting the locale of a context.
* Additional Logs:: Additional logs of a context.
The function `gpgme_set_protocol` sets the protocol used within the context `CTX` to `PROTO`. All crypto operations will be performed by the crypto engine configured for that protocol. *Note Protocols and Engines::.

Setting the protocol with `gpgme_set_protocol` does intentionally not check if the crypto engine for that protocol is available and installed correctly. *Note Engine Version Check::.

The function returns the error code `GPG_ERR_NO_ERROR` if the protocol could be set successfully, and `GPG_ERR_INV_VALUE` if `PROTO` is not a valid protocol.

-- Function: `gpgme_protocol_t gpgme_get_protocol (gpgme_ctx_t CTX)`

The function `gpgme_get_protocol` retrieves the protocol currently use with the context `CTX`.


7.4.2 Crypto Engine

The following functions can be used to set and retrieve the configuration of the crypto engines of a specific context. The default can also be retrieved without any particular context. *Note Engine Information::. The default can also be changed globally. *Note Engine Configuration::.

-- Function: `gpgme_engine_info_t gpgme_ctx_get_engine_info (gpgme_ctx_t CTX)`

SINCE: 1.1.0

The function `gpgme_ctx_get_engine_info` returns a linked list of engine info structures. Each info structure describes the configuration of one configured backend, as used by the context `CTX`.

The result is valid until the next invocation of `gpgme_ctx_set_engine_info` for this particular context.

This function can not fail.

-- Function: `gpgme_error_t gpgme_ctx_set_engine_info (gpgme_ctx_t CTX, gpgme_protocol_t PROTO, const char *FILE_NAME, const char *HOME_DIR)`
The function gpgme_ctx_set_engine_info changes the configuration of the crypto engine implementing the protocol PROTO for the context CTX.

FILE_NAME is the file name of the executable program implementing this protocol, and HOME_DIR is the directory name of the configuration directory for this crypto engine. If HOME_DIR is NULL, the engines default will be used.

Currently this function must be used before starting the first crypto operation. It is unspecified if and when the changes will take effect if the function is called after starting the first operation on the context CTX.

This function returns the error code GPG_ERR_NO_ERROR if successful, or an error code on failure.

File: gpgme.info, Node: Setting the Sender, Next: ASCII Armor, Prev: Crypto Engine, Up: Context Attributes

7.4.3 How to tell the engine the sender.

Some engines can make use of the senders address, for example to figure out the best user id in certain trust models. For verification and signing of mails, it is thus suggested to let the engine know the sender ("From:" ) address. GPGME provides two functions to accomplish that. Note that the esoteric use of multiple "From:" addresses is not supported.

-- Function: gpgme_error_t gpgme_set_sender (gpgme_ctx_t CTX, int ADDRESS)

SINCE: 1.8.0

The function gpgme_set_sender specifies the sender address for use in sign and verify operations. ADDRESS is expected to be the addr-spec part of an address but my also be a complete mailbox address, in which case this function extracts the addr-spec from it. Using NULL for ADDRESS clears the sender address.

The function returns 0 on success or an error code on failure. The most likely failure is that no valid addr-spec was found in ADDRESS.

-- Function: const char * gpgme_get_sender (gpgme_ctx_t CTX)
The function `gpgme_get_sender` returns the current sender address from the context, or NULL if none was set. The returned value is valid as long as the CTX is valid and `gpgme_set_sender` has not been called again.

---

## 7.4.4 ASCII Armor

---

The function `gpgme_set_armor` specifies if the output should be ASCII armored. By default, output is not ASCII armored.

ASCII armored output is disabled if YES is zero, and enabled otherwise.

---

## 7.4.5 Text Mode

---

Text mode is for example used for the RFC2015 signatures; note that the updated RFC 3156 mandates that the mail user agent does some preparations so that text mode is not needed anymore.

This option is only relevant to the OpenPGP crypto engine, and ignored by all other engines.

Canonical text mode is disabled if YES is zero, and enabled otherwise.

---

7.4.6 Offline Mode

-- Function: void gpgme_set_offline (gpgme_ctx_t CTX, int YES)
SINCE: 1.6.0

The function gpgme_set_offline specifies if offline mode should be used. Offline mode is disabled if YES is zero, and enabled otherwise. By default, offline mode is disabled.

The details of the offline mode depend on the used protocol and its backend engine. It may eventually be extended to be more stricter and for example completely disable the use of Dirmngr for any engine.

For the CMS protocol the offline mode specifies whether Dirmngr shall be used to do additional validation that might require connecting external services (e.g. CRL / OCSP checks). Here the offline mode only affects the keylist mode GPGME_KEYLIST_MODE_VALIDATE.

For the OpenPGP protocol offline mode entirely disables the use of the Dirmngr and will thus guarantee that no network connections are done as part of an operation on this context. It has only an effect with GnuPG versions 2.1.23 or later.

For all other protocols the offline mode is currently ignored.

-- Function: int gpgme_get_offline (gpgme_ctx_t CTX)
SINCE: 1.6.0

The function gpgme_get_offline returns 1 if offline mode is enabled, and 0 if it is not, or if CTX is not a valid pointer.

7.4.7 Pinentry Mode

-- Function: gpgme_error_t gpgme_set_pinentry_mode (gpgme_ctx_t CTX, gpgme_pinentry_mode_t MODE)
SINCE: 1.4.0
The function gpgme_set_pinentry_mode specifies the pinentry mode to be used.

For GnuPG >= 2.1 this option is required to be set to GPGME_PINENTRY_MODE_LOOPBACK to enable the passphrase callback mechanism in GPGME through gpgme_set_passphrase_cb.

-- Function: gpgme_pinentry_mode_t gpgme_get_pinentry_mode
   (gpgme_ctx_t CTX)
   SINCE: 1.4.0

The function gpgme_get_pinentry_mode returns the mode set for the context.

-- Data type: enum gpgme_pinentry_mode_t
   SINCE: 1.4.0

The gpgme_minentry_mode_t type specifies the set of possible pinentry modes that are supported by GPGME if GnuPG >= 2.1 is used. The following modes are supported:

GPGME_PINENTRY_MODE_DEFAULT
   SINCE: 1.4.0

Use the default of the agent, which is ask.

GPGME_PINENTRY_MODE_ASK
   SINCE: 1.4.0

Force the use of the Pinentry.

GPGME_PINENTRY_MODE_CANCEL
   SINCE: 1.4.0

Emulate use of Pinentrys cancel button.

GPGME_PINENTRY_MODE_ERROR
   SINCE: 1.4.0

Return a Pinentry error No Pinentry.

GPGME_PINENTRY_MODE_LOOPBACK
   SINCE: 1.4.0

Redirect Pinentry queries to the caller. This enables the use of gpgme_set_passphrase_cb because pinentry queries are redirected to gpgme.
Note: For 2.1.0 - 2.1.12 this mode requires allow-loopback-pinentry to be enabled in the gpg-agent.conf or an agent started with that option.

7.4.8 Included Certificates
---------------------------

-- Function: void gpgme_set_include_certs (gpgme_ctx_t CTX,
   int NR_OF_CERTS)
The function gpgme_set_include_certs specifies how many certificates should be included in an S/MIME signed message. By default, only the sender's certificate is included. The possible values of NR_OF_CERTS are:

GPGME_INCLUDE_CERTS_DEFAULT
      SINCE: 1.0.3

      Fall back to the default of the crypto backend. This is the default for GPGME.
-2
   Include all certificates except the root certificate.
-1
   Include all certificates.
0
   Include no certificates.
1
   Include the sender's certificate only.
n
   Include the first n certificates of the certificates path, starting from the sender's certificate. The number n must be positive.

Values of NR_OF_CERTS smaller than -2 are undefined.

This option is only relevant to the CMS crypto engine, and ignored by all other engines.

-- Function: int gpgme_get_include_certs (gpgme_ctx_t CTX)
The function gpgme_get_include_certs returns the number of certificates to include into an S/MIME signed message.
Attributes

7.4.9 Key Listing Mode
---------------------

-- Function: gpgme_error_t gpgme_set_keylist_mode (gpgme_ctx_t CTX,
gpgme_keylist_mode_t MODE)
The function gpgme_set_keylist_mode changes the default behaviour
of the key listing functions. The value in MODE is a bitwise-or
combination of one or multiple of the following bit values:

GPGME_KEYLIST_MODE_LOCAL
  The GPGME_KEYLIST_MODE_LOCAL symbol specifies that the local
  keyring should be searched for keys in the keylisting
  operation. This is the default.

  Using only this option results in a --list-keys.

GPGME_KEYLIST_MODE_EXTERN
  The GPGME_KEYLIST_MODE_EXTERN symbol specifies that an
  external source should be searched for keys in the keylisting
  operation. The type of external source is dependent on the
  crypto engine used and whether it is combined with
  GPGME_KEYLIST_MODE_LOCAL. For example, it can be a remote
  keyserver or LDAP certificate server.

  Using only this option results in a --search-keys for
  GPGME_PROTOCOL_OpenPGP and something similar to
  --list-external-keys for GPGME_PROTOCOL_CMS.

GPGME_KEYLIST_MODE_LOCATE
  This is a shortcut for the combination of
  GPGME_KEYLIST_MODE_LOCAL and GPGME_KEYLIST_MODE_EXTERN,
  which results in a --locate-keys for
  GPGME_PROTOCOL_OpenPGP.

GPGME_KEYLIST_MODE_SIGS
  The GPGME_KEYLIST_MODE_SIGS symbol specifies that the key
  signatures should be included in the listed keys.

GPGME_KEYLIST_MODE_SIG_NOTATIONS
  SINCE: 1.1.1

  The GPGME_KEYLIST_MODE_SIG_NOTATIONS symbol specifies that
  the signature notations on key signatures should be included
  in the listed keys. This only works if
  GPGME_KEYLIST_MODE_SIGS is also enabled.
GPGME_KEYLIST_MODE_WITH_TOFU
SINCE: 1.7.0

The GPGME_KEYLIST_MODE_WITH_TOFU symbol specifies that information pertaining to the TOFU trust model should be included in the listed keys.

GPGME_KEYLIST_MODE_WITH_SECRET
SINCE: 1.5.1

The GPGME_KEYLIST_MODE_WITH_SECRET returns information about the presence of a corresponding secret key in a public key listing. A public key listing with this mode is slower than a standard listing but can be used instead of a second run to list the secret keys. This is only supported for GnuPG versions >= 2.1.

GPGME_KEYLIST_MODE_EPHEMERAL
SINCE: 1.2.0

The GPGME_KEYLIST_MODE_EPHEMERAL symbol specifies that keys flagged as ephemeral are included in the listing.

GPGME_KEYLIST_MODE_VALIDATE
SINCE: 0.4.5

The GPGME_KEYLIST_MODE_VALIDATE symbol specifies that the backend should do key or certificate validation and not just get the validity information from an internal cache. This might be an expensive operation and is in general not useful. Currently only implemented for the S/MIME backend and ignored for other backends.

At least one of GPGME_KEYLIST_MODE_LOCAL and GPGME_KEYLIST_MODE_EXTERN must be specified. For future binary compatibility, you should get the current mode with gpgme_get_keylist_mode and modify it by setting or clearing the appropriate bits, and then using that calculated value in the gpgme_set_keylisting_mode operation. This will leave all other bits in the mode value intact (in particular those that are not used in the current version of the library).

The function returns the error code GPG_ERR_NO_ERROR if the mode could be set correctly, and GPG_ERR_INV_VALUE if CTX is not a valid pointer or MODE is not a valid mode.

-- Function: gpgme_keylist_mode_t gpgme_get_keylist_mode
(gpgme_ctx_t CTX)
The function gpgme_get_keylist_mode returns the current key listing mode of the context CTX. This value can then be modified and used in a subsequent gpgme_set_keylist_mode operation to only affect the desired bits (and leave all others intact).

The function returns 0 if CTX is not a valid pointer, and the current mode otherwise. Note that 0 is not a valid mode value.

File: gpgme.info, Node: Passphrase Callback, Next: Progress Meter Callback, Prev: Key Listing Mode, Up: Context Attributes

7.4.10 Passphrase Callback
-----------------------------

-- Data type: gpgme_error_t (*gpgme_passphrase_cb_t)(void *HOOK, const char *UID_HINT, const char *PASSPHRASE_INFO, int PREV_WAS_BAD, int FD)

The gpgme_passphrase_cb_t type is the type of functions usable as passphrase callback function.

The argument UID_HINT might contain a string that gives an indication for which user ID the passphrase is required. If this is not available, or not applicable (in the case of symmetric encryption, for example), UID_HINT will be NULL.

The argument PASSPHRASE_INFO, if not NULL, will give further information about the context in which the passphrase is required. This information is engine and operation specific.

If this is the repeated attempt to get the passphrase, because previous attempts failed, then PREV_WAS_BAD is 1, otherwise it will be 0.

The user must write the passphrase, followed by a newline character, to the file descriptor FD. The function gpgme_io_writen should be used for the write operation. Note that if the user returns 0 to indicate success, the user must at least write a newline character before returning from the callback.

If an error occurs, return the corresponding gpgme_error_t value. You can use the error code GPG_ERR_CANCELED to abort the operation. Otherwise, return 0.

Note: The passphrase_cb only works with GnuPG 1.x and 2.1.x and not with the 2.0.x series. See gpgme_set_pinentry_mode for more details on 2.1.x usage.
-- Function: void gpgme_set_passphrase_cb (gpgme_ctx_t CTX,
        gpgme_passphrase_cb_t PASSFUNC, void *HOOK_VALUE)

The function gpgme_set_passphrase_cb sets the function that is
used when a passphrase needs to be provided by the user to
PASSFUNC. The function PASSFUNC needs to be implemented by the user,
and whenever it is called, it is called with its first argument
being HOOK_VALUE. By default, no passphrase callback function is
set.

Not all crypto engines require this callback to retrieve the
passphrase. It is better if the engine retrieves the passphrase
from a trusted agent (a daemon process), rather than having each
user to implement their own passphrase query. Some engines do not
even support an external passphrase callback at all, in this case
the error code GPG_ERR_NOT_SUPPORTED is returned.

For GnuPG >= 2.1 the pinentry mode has to be set to
GPGME_PINENTRY_MODE_LOOPBACK to enable the passphrase callback.
See gpgme_set_pinentry_mode.

The user can disable the use of a passphrase callback function by
calling gpgme_set_passphrase_cb with PASSFUNC being NULL.

-- Function: void gpgme_get_passphrase_cb (gpgme_ctx_t CTX,
        gpgme_passphrase_cb_t *PASSFUNC, void **HOOK_VALUE)

The function gpgme_get_passphrase_cb returns the function that is
used when a passphrase needs to be provided by the user in
*PASSFUNC, and the first argument for this function in *HOOK_VALUE.
If no passphrase callback is set, or CTX is not a valid pointer,
NULL is returned in both variables.

PASSFUNC or HOOK_VALUE can be NULL. In this case, the
corresponding value will not be returned.

File: gpgme.info, Node: Progress Meter Callback, Next: Status Message Callback, Prev: Passphrase Callback, Up:
Context Attributes

7.4.11 Progress Meter Callback

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

-- Data type: void (*gpgme_progress_cb_t)(void *HOOK, const char *WHAT,
        int TYPE, int CURRENT, int TOTAL)

The gpgme_progress_cb_t type is the type of functions usable as
progress callback function.

The arguments are specific to the crypto engine. More information
about the progress information returned from the GnuPG engine can
be found in the GnuPG source code in the file doc/DETAILS in the section PROGRESS.

-- Function: void gpgme_set_progress_cb (gpgme_ctx_t CTX,
    gpgme_progress_cb_t PROGFUNC, void *HOOK_VALUE)

The function gpgme_set_progress_cb sets the function that is used when progress information about a cryptographic operation is available. The function PROGFUNC needs to be implemented by the user, and whenever it is called, it is called with its first argument being HOOK_VALUE. By default, no progress callback function is set.

Setting a callback function allows an interactive program to display progress information about a long operation to the user.

The user can disable the use of a progress callback function by calling gpgme_set_progress_cb with PROGFUNC being NULL.

-- Function: void gpgme_get_progress_cb (gpgme_ctx_t CTX,
    gpgme_progress_cb_t *PROGFUNC, void **HOOK_VALUE)

The function gpgme_get_progress_cb returns the function that is used to inform the user about the progress made in *PROGFUNC, and the first argument for this function in *HOOK_VALUE. If no progress callback is set, or CTX is not a valid pointer, NULL is returned in both variables.

PROGFUNC or HOOK_VALUE can be NULL. In this case, the corresponding value will not be returned.


7.4.12 Status Message Callback

-- Data type: gpgme_error_t (*gpgme_status_cb_t)(void *HOOK, const char
    *KEYWORD, const char *ARGS)

The gpgme_status_cb_t type is the type of function usable as a status message callback function.

The argument KEYWORD is the name of the status message while the ARGS argument contains any arguments for the status message.

If an error occurs, return the corresponding gpgme_error_t value. Otherwise, return 0.

-- Function: void gpgme_set_status_cb (gpgme_ctx_t CTX,
The function `gpgme_set_status_cb` sets the function that is used when a status message is received from gpg to `STATUSFUNC`. The function `STATUSFUNC` needs to be implemented by the user, and whenever it is called, it is called with its first argument being `HOOK_VALUE`. By default, no status message callback function is set.

The user can disable the use of a status message callback function by calling `gpgme_set_status_cb` with `STATUSFUNC` being `NULL`.

```c
-- Function: void gpgme_get_status_cb (gpgme_ctx_t CTX,
     gpgme_status_cb_t *STATUSFUNC, void **HOOK_VALUE)
```

The function `gpgme_get_status_cb` returns the function that is used to process status messages from gpg in `*STATUSFUNC`, and the first argument for this function in `*HOOK_VALUE`. If no status message callback is set, or `CTX` is not a valid pointer, `NULL` is returned in both variables.

---

### 7.4.13 Context Flags

Some minor properties of the context can be controlled with flags set by this function. The properties are identified by the following values for `NAME`:

"redraw"

This flag is normally not changed by the caller because GPGME sets and clears it automatically: The flag is cleared before an operation and set if an operation noticed that the engine has launched a Pinentry. A Curses based application may use this information to redraw the screen; for example:

```c
err = gpgme_op_keylist_start (ctx, "foo@example.org", 0);
while (!err)
{
```
err = gpgme_op_keylist_next (ctx, &key);
if (err)
    break;
show_key (key);
gpgme_key_release (key);
}
if ((s = gpgme_get_ctx_flag (ctx, "redraw")) && *s)
    redraw_screen ();
gpgme_release (ctx);

"full-status"
Using a VALUE of "1" the status callback set by
gpgme_set_status_cb returns all status lines with the
exception of PROGRESS lines. With the default of "0" the
status callback is only called in certain situations.

"raw-description"
Setting the VALUE to "1" returns human readable strings in a
raw format. For example the non breaking space characters
("~") will not be removed from the description field of the
gpgme_tofu_info_t object.

"export-session-key"
Using a VALUE of "1" specifies that the context should try to
export the symmetric session key when decrypting data. By
default, or when using an empty string or "0" for VALUE,
session keys are not exported.

"override-session-key"
The string given in VALUE is passed to the GnuPG engine to
override the session key for decryption. The format of that
session key is specific to GnuPG and can be retrieved during a
decrypt operation when the context flag "export-session-key"
is enabled. Please be aware that using this feature with
GnuPG < 2.1.16 will leak the session key on many platforms via
ps(1).

"auto-key-retrieve"
Setting the VALUE to "1" asks the backend to automatically
retrieve a key for signature verification if possible. Note
that this option makes a "web bug" like behavior possible.
Keyserver or Web Key Directory operators can see which keys
you request, so by sending you a message signed by a brand new
key (which you naturally will not have on your local keyring),
the operator can tell both your IP address and the time when
you verified the signature.

"request-origin"
The string given in VALUE is passed to the GnuPG engines to request restrictions based on the origin of the request. Valid values are documented in the GnuPG manual and the gpg man page under the option --request-origin. Requires at least GnuPG 2.2.6 to have an effect.

“no-symkey-cache”
For OpenPGP disable the passphrase cache used for symmetrical en- and decryption. This cache is based on the message specific salt value. Requires at least GnuPG 2.2.7 to have an effect.

“ignore-mdc-error”
This flag passes the option --ignore-mdc-error to gpg. This can be used to force decryption of a message which failed due to a missing integrity check. This flag must be used with great caution and only if it is a known non-corrupted old message and the decryption result of the former try had the decryption result flag legacy_cipher_nomdc set. For failsafe reasons this flag is reset after each operation.

“auto-key-locate”
The string given in VALUE is passed to gpg. This can be used to change the behavior of a GPGME_KEYLIST_MODE_LOCATE keylisting. Valid values are documented in the GnuPG manual and the gpg man page under the option --auto-key-locate. Requires at least GnuPG 2.1.18.

Note: Keys retrieved through auto-key-locate are automatically imported in the keyring.

trust-model
SINCE: 1.11.2

Change the trust-model for all GnuPG engine operations. An empty string sets the trust-model back to the users default. If the trust-model is not supported by GnuPG the behavior is undefined and will likely cause all operations to fail. Example: "tofu+pgp".

This options should be used carefully with a strict version requirement. In some versions of GnuPG setting the trust-model changes the default trust-model for future operations. A change in the trust-model also can have unintended side effects, like rebuilding the trust-db.

This function returns 0 on success.
-- Function: const char * gpgme_get_ctx_flag (gpgme_ctx_t CTX,
const char *NAME)

SINCE: 1.8.0

The value of flags settable by gpgme_set_ctx_flag can be
retrieved by this function. If NAME is unknown the function
returns NULL. For boolean flags an empty string is returned for
False and the string "1" is returned for True; either atoi(3) or a
test for an empty string can be used to get the boolean value.


7.4.14 Locale
-------------

A locale setting can be associated with a context. This locale is
passed to the crypto engine, and used for applications like the PIN
entry, which is displayed to the user when entering a passphrase is
required.

The default locale is used to initialize the locale setting of all
contexts created afterwards.

-- Function: gpgme_error_t gpgme_set_locale (gpgme_ctx_t CTX,
int CATEGORY, const char *VALUE)
SINCE: 0.4.3

The function gpgme_set_locale sets the locale of the context CTX,
or the default locale if CTX is a null pointer.

The locale settings that should be changed are specified by
CATEGORY. Supported categories are LC_CTYPE, LC_MESSAGES, and
LC_ALL, which is a wildcard you can use if you want to change all
the categories at once.

The value to be used for the locale setting is VALUE, which will be
copied to GPGMEs internal data structures. VALUE can be a null
pointer, which disables setting the locale, and will make PIN entry
and other applications use their default setting, which is usually
not what you want.

Note that the settings are only used if the application runs on a
text terminal, and that the settings should fit the configuration
of the output terminal. Normally, it is sufficient to initialize
the default value at startup.
The function returns an error if not enough memory is available.

7.4.15 Additional Logs
----------------------

Additional logs can be associated with a context. These logs are engine specific and can be obtained with gpgme_op_getauditlog.

-- Function: gpgme_error_t gpgme_op_getauditlog (gpgme_ctx_t CTX, gpgme_data_t OUTPUT, unsigned int FLAGS)
SINCE: 1.1.1

The function gpgme_op_getauditlog is used to obtain additional logs as specified by FLAGS into the OUTPUT data. If

The function returns the error code GPG_ERR_NO_ERROR if a log could be queried from the engine, and GPG_ERR_NOT_IMPLEMENTED if the log specified in FLAGS is not available for this engine. If no log is available GPG_ERR_NO_DATA is returned.

The value in FLAGS is a bitwise-or combination of one or multiple of the following bit values:

GPGME_AUDITLOG_DIAG
SINCE: 1.11.2

Obtain diagnostic output which would be written to stderr in interactive use of the engine. This can be used to provide additional diagnostic information in case of errors in other operations.

Note: If log-file has been set in the configuration the log will be empty and GPG_ERR_NO_DATA will be returned.

Implemented for: GPGME_PROTOCOL_OpenPGP

GPGME_AUDITLOG_DEFAULT
SINCE: 1.11.2

This flag has the value 0 for compatibility reasons. Obtains additional information from the engine by issuing the GETAUDITLOG command. For GPGME_PROTOCOL_CMS this provides additional information about the X509 certificate chain.

Implemented for: GPGME_PROTOCOL_CMS
GPGME_AUDITLOG_HTML
SINCE: 1.1.1

Same as GPGME_AUDITLOG_DEFAULT but in HTML.

Implemented for: GPGME_PROTOCOL_CMS

-- Function: gpgme_error_t gpgme_op_getauditlog_start (gpgme_ctx_t CTX,
    gpgme_data_t OUTPUT, unsigned int FLAGS)
SINCE: 1.1.1

This is the asynchronous variant of gpgme_op_getauditlog.

File: gpgme.info, Node: Key Management, Next: Trust Item Management, Prev: Context Attributes, Up: Contexts

7.5 Key Management
===================

Some of the cryptographic operations require that recipients or signers are specified. This is always done by specifying the respective keys that should be used for the operation. The following section describes how such keys can be selected and manipulated.

* Menu:

* Key objects:: Description of the key structures.
* Listing Keys:: Browsing the list of available keys.
* Information About Keys:: Requesting detailed information about keys.
* Manipulating Keys:: Operations on keys.
* Generating Keys:: Creating new key pairs.
* Signing Keys:: Adding key signatures to public keys.
* Exporting Keys:: Retrieving key data from the key ring.
* Importing Keys:: Adding keys to the key ring.
* Deleting Keys:: Removing keys from the key ring.
* Changing Passphrases:: Change the passphrase of a key.
* Changing TOFU Data:: Changing data pertaining to TOFU.
* Advanced Key Editing:: Advanced key edit operation.

File: gpgme.info, Node: Key objects, Next: Listing Keys, Up: Key Management

7.5.1 Key objects
-----------------

The keys are represented in GPGME by structures which may only be read by the application but never be allocated or changed. They are valid as
long as the key object itself is valid.

-- Data type: gpgme_key_t

The gpgme_key_t type is a pointer to a key object. It has the following members:

gpgme_keylist_mode_t keylist_mode
  SINCE: 0.9.0

  The keylist mode that was active when the key was retrieved.

unsigned int revoked : 1
  This is true if the key is revoked.

unsigned int expired : 1
  This is true if the key is expired.

unsigned int disabled : 1
  This is true if the key is disabled.

unsigned int invalid : 1
  This is true if the key is invalid. This might have several reasons, for a example for the S/MIME backend, it will be set during key listings if the key could not be validated due to missing certificates or unmatched policies.

unsigned int can_encrypt : 1
  This is true if the key (ie one of its subkeys) can be used for encryption.

unsigned int can_sign : 1
  This is true if the key (ie one of its subkeys) can be used to create data signatures.

unsigned int can_certify : 1
  This is true if the key (ie one of its subkeys) can be used to create key certificates.

unsigned int can_authenticate : 1
  SINCE: 0.4.5

  This is true if the key (ie one of its subkeys) can be used for authentication.

unsigned int is_qualified : 1
  SINCE: 1.1.0
This is true if the key can be used for qualified signatures according to local government regulations.

unsigned int secret : 1
This is true if the key is a secret key. Note, that this will always be true even if the corresponding subkey flag may be false (offline/stub keys). This is only set if a listing of secret keys has been requested or if GPGME_KEYLIST_MODE_WITH_SECRET is active.

unsigned int origin : 5
SINCE: 1.8.0
Reserved for the origin of this key.

gpgme_protocol_t protocol
This is the protocol supported by this key.

char *issuer_serial
If protocol is GPGME_PROTOCOL_CMS, then this is the issuer serial.

char *issuer_name
If protocol is GPGME_PROTOCOL_CMS, then this is the issuer name.

char *chain_id
If protocol is GPGME_PROTOCOL_CMS, then this is the chain ID, which can be used to build the certificate chain.

gpgme_validity_t owner_trust
If protocol is GPGME_PROTOCOL_OpenPGP, then this is the owner trust.

gpgme_subkey_t subkeys
This is a linked list with the subkeys of the key. The first subkey in the list is the primary key and usually available.

gpgme_user_id_t uids
This is a linked list with the user IDs of the key. The first user ID in the list is the main (or primary) user ID.

char *fpr
SINCE: 1.7.0
This field gives the fingerprint of the primary key. Note that this is a copy of the fingerprint of the first subkey.
For an incomplete key (for example from a verification result)
a subkey may be missing but this field may be set
nevertheless.

unsigned long last_update
SINCE: 1.8.0

Reserved for the time of the last update of this key.

-- Data type: gpgme_subkey_t
SINCE: 1.5.0

The gpgme_subkey_t type is a pointer to a subkey structure.
Subkeys are one component of a gpgme_key_t object. In fact,
subkeys are those parts that contains the real information about
the individual cryptographic keys that belong to the same key
object. One gpgme_key_t can contain several subkeys. The first
subkey in the linked list is also called the primary key.

The subkey structure has the following members:

gpgme_subkey_t next
This is a pointer to the next subkey structure in the linked
list, or NULL if this is the last element.

unsigned int revoked : 1
This is true if the subkey is revoked.

unsigned int expired : 1
This is true if the subkey is expired.

unsigned int disabled : 1
This is true if the subkey is disabled.

unsigned int invalid : 1
This is true if the subkey is invalid.

unsigned int can_encrypt : 1
This is true if the subkey can be used for encryption.

unsigned int can_sign : 1
This is true if the subkey can be used to create data
signatures.

unsigned int can_certify : 1
This is true if the subkey can be used to create key
certificates.

unsigned int can_authenticate : 1
This is true if the subkey can be used for authentication.

unsigned int is_qualified : 1
SINCE: 1.1.0
This is true if the subkey can be used for qualified signatures according to local government regulations.

unsigned int is_de_vs : 1
SINCE: 1.8.0
This is true if the subkey complies with the rules for classified information in Germany at the restricted level (VS-NfD). This are currently RSA keys of at least 2048 bits or ECDH/ECDSA keys using a Brainpool curve.

unsigned int secret : 1
This is true if the subkey is a secret key. Note that it will be false if the key is actually a stub key; i.e. a secret key operation is currently not possible (offline-key). This is only set if a listing of secret keys has been requested or if GPGME_KEYLIST_MODE_WITH_SECRET is active.

gpgme_pubkey_algo_t pubkey_algo
This is the public key algorithm supported by this subkey.

unsigned int length
This is the length of the subkey (in bits).

char *keyid
This is the key ID of the subkey in hexadecimal digits.

char *fpr
This is the fingerprint of the subkey in hexadecimal digits, if available.

char *keygrip
SINCE: 1.7.0
The keygrip of the subkey in hex digit form or NULL if not available.

long int timestamp
This is the creation timestamp of the subkey. This is -1 if the timestamp is invalid, and 0 if it is not available.
long int expires
   This is the expiration timestamp of the subkey, or 0 if the
   subkey does not expire.

unsigned int is_cardkey : 1
   SINCE: 1.2.0

   True if the secret key is stored on a smart card.

char *card_number
   SINCE: 1.2.0

   The serial number of a smart card holding this key or NULL.

char *curve
   For ECC algorithms the name of the curve.

-- Data type: gpgme_user_id_t

   A user ID is a component of a gpgme_key_t object. One key can
   have many user IDs. The first one in the list is the main (or
   primary) user ID.

   The user ID structure has the following members.

   gpgme_user_id_t next
      This is a pointer to the next user ID structure in the linked
      list, or NULL if this is the last element.

   unsigned int revoked : 1
      This is true if the user ID is revoked.

   unsigned int invalid : 1
      This is true if the user ID is invalid.

   gpgme_validity_t validity
      This specifies the validity of the user ID.

   char *uid
      This is the user ID string.

   char *name
      This is the name component of uid, if available.

   char *comment
      This is the comment component of uid, if available.

   char *email
This is the email component of uid, if available.

char *address;
The mail address (addr-spec from RFC-5322) of the user ID string. This is general the same as the email part of this structure but might be slightly different. If no mail address is available NULL is stored.

gpgme_tofu_info_t tofu

SINCE: 1.7.0

If not NULL information from the TOFU database pertaining to this user id.

gpgme_key_sig_t signatures

This is a linked list with the signatures on this user ID.

unsigned int origin : 5

SINCE: 1.8.0

Reserved for the origin of this user ID.

unsigned long last_update

SINCE: 1.8.0

Reserved for the time of the last update of this user ID.

-- Data type: gpgme_tofu_info_t

SINCE: 1.7.0

The gpgme_tofu_info_t type is a pointer to a tofu info structure. Tofu info structures are one component of a gpgme_user_id_t object, and provide information from the TOFU database pertaining to the user ID.

The tofu info structure has the following members:

gpgme_key_sig_t next

This is a pointer to the next tofu info structure in the linked list, or NULL if this is the last element.

unsigned int validity : 3

This is the TOFU validity. It can have the following values:

0

The value 0 indicates a conflict.
The value 1 indicates a key without history.

The value 2 indicates a key with too little history.

The value 3 indicates a key with enough history for basic trust.

The value 4 indicates a key with a lot of history.

unsigned int policy : 4
This is the TOFU policy, see gpgme_tofu_policy_t.

unsigned short signcount
This is the number of signatures seen for this binding (or USHRT_MAX if there are more than that).

unsigned short encrcount
This is the number of encryptions done with this binding (or USHRT_MAX if there are more than that).

unsigned long signfirst
Number of seconds since Epoch when the first signature was seen with this binding.

unsigned long signlast
Number of seconds since Epoch when the last signature was seen with this binding.

unsigned long encrfirst
Number of seconds since Epoch when the first encryption was done with this binding.

unsigned long enclast
Number of seconds since Epoch when the last encryption was done with this binding.

char *description
A human-readable string summarizing the TOFU data (or NULL).

-- Data type: gpgme_key_sig_t

The gpgme_key_sig_t type is a pointer to a key signature structure. Key signatures are one component of a gpgme_key_t object, and validate user IDs on the key in the OpenPGP protocol.
The signatures on a key are only available if the key was retrieved via a listing operation with the GPGME_KEYLIST_MODE_SIGS mode enabled, because it can be expensive to retrieve all signatures of a key.

The signature notations on a key signature are only available if the key was retrieved via a listing operation with the GPGME_KEYLIST_MODE_SIG_NOTATIONS mode enabled, because it can be expensive to retrieve all signature notations.

The key signature structure has the following members:

```c
struct gpgme_key_sig_t {
    struct gpgme_key_sig_t *next;
    unsigned int revoked : 1;
    unsigned int expired : 1;
    unsigned int invalid : 1;
    unsigned int exportable : 1;
    enum gpgme_pubkey_algo_t pubkey_algo;
    char *keyid;
    long int timestamp;
    long int expires;
    enum gpgme_error_t status;
};
```

- **next**: This is a pointer to the next key signature structure in the linked list, or NULL if this is the last element.
- **revoked**: This is true if the key signature is a revocation signature.
- **expired**: This is true if the key signature is expired.
- **invalid**: This is true if the key signature is invalid.
- **exportable**: This is true if the key signature is exportable.
- **pubkey_algo**: This is the public key algorithm used to create the signature.
- **keyid**: This is the key ID of the key (in hexadecimal digits) used to create the signature.
- **timestamp**: This is the creation timestamp of the key signature. This is -1 if the timestamp is invalid, and 0 if it is not available.
- **expires**: This is the expiration timestamp of the key signature, or 0 if the key signature does not expire.
- **status**: This is the status of the signature and has the same meaning as the member of the same name in a gpgme_signature_t object.
unsigned int sig_class
   This specifies the signature class of the key signature. The
   meaning is specific to the crypto engine.

char *uid
   This is the main user ID of the key used to create the
   signature.

char *name
   This is the name component of uid, if available.

char *comment
   This is the comment component of uid, if available.

char *email
   This is the email component of uid, if available.

gpgme_sig_notation_t notations
   This is a linked list with the notation data and policy URLs.

File: gpgme.info,  Node: Listing Keys,  Next: Information About Keys,  Prev: Key objects,  Up: Key Management

7.5.2 Listing Keys
------------------

-- Function: gpgme_error_t gpgme_op_keylist_start (gpgme_ctx_t CTX,
   const char *PATTERN, int SECRET_ONLY)

The function gpgme_op_keylist_start initiates a key listing
operation inside the context CTX. It sets everything up so that
subsequent invocations of gpgme_op_keylist_next return the keys
in the list.

If PATTERN is NULL, all available keys are returned. Otherwise,
PATTERN contains an engine specific expression that is used to
limit the list to all keys matching the pattern. Note that the
total length of the pattern is restricted to an engine-specific
maximum (a couple of hundred characters are usually accepted). The
pattern should be used to restrict the search to a certain common
name or user, not to list many specific keys at once by listing
their fingerprints or key IDs.

If SECRET_ONLY is not 0, the list is restricted to secret keys
only.

The context will be busy until either all keys are received (and
gpgme_op_keylist_next returns GPG_ERR_EOF), or
gpgme_op_keylist_end is called to finish the operation.

The function returns the error code GPG_ERR_INV_VALUE if CTX is
not a valid pointer, and passes through any errors that are
reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_keylist_ext_start (gpgme_ctx_t CTX,
        const char *PATTERN[], int SECRET_ONLY, int RESERVED)

The function gpgme_op_keylist_ext_start initiates an extended key
listing operation inside the context CTX. It sets everything up so
that subsequent invocations of gpgme_op_keylist_next return the
keys in the list.

If PATTERN or *PATTERN is NULL, all available keys are returned.
Otherwise, PATTERN is a NULL terminated array of strings that are
used to limit the list to all keys matching at least one of the
patterns verbatim. Note that the total length of all patterns is
restricted to an engine-specific maximum (the exact limit also
depends on the number of patterns and amount of quoting required,
but a couple of hundred characters are usually accepted). Patterns
should be used to restrict the search to a certain common name or
user, not to list many specific keys at once by listing their
fingerprints or key IDs.

If SECRET_ONLY is not 0, the list is restricted to secret keys
only.

The value of RESERVED must be 0.

The context will be busy until either all keys are received (and
gpgme_op_keylist_next returns GPG_ERR_EOF), or
gpgme_op_keylist_end is called to finish the operation.

The function returns the error code GPG_ERR_INV_VALUE if CTX is
not a valid pointer, and passes through any errors that are
reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_keylist_from_data_start
        (gpgme_ctx_t CTX, gpgme_data_t DATA, int RESERVED)

SINCE: 1.8.0

The function gpgme_op_keylist_from_data_start initiates a key
listing operation inside the context CTX. In contrast to the other
key listing operation the keys are read from the supplied DATA and
not from the local key database. The keys are also not imported
into the local key database. The function sets everything up so that subsequent invocations of `gpgme_op_keylist_next` return the keys from DATA.

The value of RESERVED must be 0.

This function requires at least GnuPG version 2.1.14 and currently works only with OpenPGP keys.

The context will be busy until either all keys are received (and `gpgme_op_keylist_next` returns GPG_ERR_EOF), or `gpgme_op_keylist_end` is called to finish the operation. While the context is busy DATA may not be released.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_keylist_next (gpgme_ctx_t CTX, gpgme_key_t *R_KEY)

The function `gpgme_op_keylist_next` returns the next key in the list created by a previous `gpgme_op_keylist_start` operation in the context CTX. The key will have one reference for the user.

*Note Manipulating Keys::.

This is the only way to get at `gpgme_key_t` objects in GPGME.

If the last key in the list has already been returned, `gpgme_op_keylist_next` returns GPG_ERR_EOF.

The function returns the error code GPG_ERR_INV_VALUE if CTX or R_KEY is not a valid pointer, and GPG_ERR_ENOMEM if there is not enough memory for the operation.

-- Function: gpgme_error_t gpgme_op_keylist_end (gpgme_ctx_t CTX)

The function `gpgme_op_keylist_end` ends a pending key list operation in the context CTX.

After the operation completed successfully, the result of the key listing operation can be retrieved with `gpgme_op_keylist_result`.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and GPG_ERR_ENOMEM if at some time during the operation there was not enough memory available.

The following example illustrates how all keys containing a certain
string (g10code) can be listed with their key ID and the name and email address of the main user ID:

```c

gpgme_ctx_t ctx;
gpgme_key_t key;
gpgme_error_t err = gpgme_new (&ctx);

if (!err)
{
    err = gpgme_op_keylist_start (ctx, "g10code", 0);
    while (!err)
    {
        err = gpgme_op_keylist_next (ctx, &key);
        if (err)
            break;
        printf ("%s:", key->subkeys->keyid);
        if (key->uids && key->uids->name)
            printf (" %s", key->uids->name);
        if (key->uids && key->uids->email)
            printf (" <%s>", key->uids->email);
        putchar (\n);
        gpgme_key_release (key);
    }
    gpgme_release (ctx);
}
if (gpg_err_code (err) != GPG_ERR_EOF)
{
    fprintf (stderr, "can not list keys: %s\n", gpgme_strerror (err));
    exit (1);
}

-- Data type: gpgme_keylist_result_t
This is a pointer to a structure used to store the result of a gpgme_op_keylist_* operation. After successfully ending a key listing operation, you can retrieve the pointer to the result with gpgme_op_keylist_result. The structure contains the following member:

    unsigned int truncated : 1
    This is true if the crypto backend had to truncate the result, and less than the desired keys could be listed.

-- Function: gpgme_keylist_result_t gpgme_op_keylist_result
(gpgme_ctx_t CTX)
The function gpgme_op_keylist_result returns a gpgme_keylist_result_t pointer to a structure holding the result of a gpgme_op_keylist_* operation. The pointer is only valid if the last operation on the context was a key listing operation, and
if this operation finished successfully. The returned pointer is only valid until the next operation is started on the context.

In a simple program, for which a blocking operation is acceptable, the following function can be used to retrieve a single key.

-- Function: gpgme_error_t gpgme_get_key (gpgme_ctx_t CTX, const char *FPR, gpgme_key_t *R_KEY, int SECRET)

The function gpgme_get_key gets the key with the fingerprint (or key ID) FPR from the crypto backend and return it in R_KEY. If SECRET is true, get the secret key. The currently active keylist mode is used to retrieve the key. The key will have one reference for the user.

If the key is not found in the keyring, gpgme_get_key returns the error code GPG_ERR_EOF and *R_KEY will be set to NULL.

The function returns the error code GPG_ERR_INV_VALUE if CTX or R_KEY is not a valid pointer or FPR is not a fingerprint or key ID, GPG_ERR_AMBIGUOUS_NAME if the key ID was not a unique specifier for a key, and GPG_ERR_ENOMEM if at some time during the operation there was not enough memory available.


7.5.3 Information About Keys
----------------------------

Please see the beginning of this section for more information about gpgme_key_t objects.

-- Data type: gpgme_validity_t

The gpgme_validity_t type is used to specify the validity of a user ID in a key. The following validities are defined:

GPGME_VALIDITY_UNKNOWN
The user ID is of unknown validity. The string representation of this validity is ?.

GPGME_VALIDITY_UNDEFINED
The validity of the user ID is undefined. The string representation of this validity is q.

GPGME_VALIDITY_NEVER
The user ID is never valid. The string representation of this validity is n.
The user ID is marginally valid. The string representation of this validity is m.

The user ID is fully valid. The string representation of this validity is f.

The user ID is ultimately valid. The string representation of this validity is u.

7.5.4 Manipulating Keys
-----------------------

-- Function: void gpgme_key_ref (gpgme_key_t KEY)
   The function gpgme_key_ref acquires an additional reference for the key KEY.

-- Function: void gpgme_key_unref (gpgme_key_t KEY)
   The function gpgme_key_unref releases a reference for the key KEY. If this was the last reference, the key will be destroyed and all resources associated to it will be released.

7.5.5 Generating Keys
---------------------

GPGME provides a set of functions to create public key pairs. Most of these functions require the use of GnuPG 2.1 and later; for older GnuPG versions the gpgme_op_genkey function can be used. Existing code which wants to update to the new functions or new code which shall supports older GnuPG versions may try the new functions first and provide a fallback to the old function if the error code GPG_ERR_NOT_SUPPORTED is received.

-- Function: gpgme_error_t gpgme_op_createkey (gpgme_ctx_t CTX,
   const char *USERID, const char *ALGO, unsigned long RESERVED,
   unsigned long EXPIRES, gpgme_key_t EXTRAKEY,
   unsigned int FLAGS);
The function gpgme_op_createkey generates a new key for the protocol active in the context CTX. As of now this function does only work for OpenPGP and requires at least version 2.1.13 of GnuPG.

USERID is commonly the mail address associated with the key. GPGME does not require a specific syntax but if more than a mail address is given, RFC-822 style format is suggested. The value is expected to be in UTF-8 encoding (i.e. no IDN encoding for mail addresses). This is a required parameter.

ALGO specifies the algorithm for the new key (actually a keypair of public and private key). For a list of supported algorithms, see the GnuPG manual. If ALGO is NULL or the string "default", the key is generated using the default algorithm of the engine. If the string "future-default" is used the engine may use an algorithm which is planned to be the default in a future release of the engine; however existing implementation of the protocol may not be able to already handle such future algorithms. For the OpenPGP protocol, the specification of a default algorithm, without requesting a non-default usage via FLAGS, triggers the creation of a primary key plus a secondary key (subkey).

RESERVED must be set to zero.

EXPIRES specifies the expiration time in seconds. If you supply 0, a reasonable expiration time is chosen. Use the flag GPGME_CREATE_NOEXPIRE to create keys that do not expire. Note that this parameter takes an unsigned long value and not a time_t to avoid problems on systems which use a signed 32 bit time_t. Note further that the OpenPGP protocol uses 32 bit values for timestamps and thus can only encode dates up to the year 2106.

EXTRAKEY is currently not used and must be set to NULL. A future version of GPGME may use this parameter to create X.509 keys.

FLAGS can be set to the bit-wise OR of the following flags:

GPGME_CREATE_SIGN
GPGME_CREATE_ENCR
GPGME_CREATE_CERT
GPGME_CREATE_AUTH

Do not create the key with the default capabilities (key usage) of the requested algorithm but use those explicitly
given by these flags: signing, encryption, certification, or authentication. The allowed combinations depend on the algorithm.

If any of these flags are set and a default algorithm has been selected only one key is created in the case of the OpenPGP protocol.

GPGME_CREATE_NOPASSWD
SINCE: 1.7.0

Request generation of the key without password protection.

GPGME_CREATE_SELFSIGNED
SINCE: 1.7.0

For an X.509 key do not create a CSR but a self-signed certificate. This has not yet been implemented.

GPGME_CREATE_NOSTORE
SINCE: 1.7.0

Do not store the created key in the local key database. This has not yet been implemented.

GPGME_CREATE_WANTPUB
GPGME_CREATE_WANTSEC
SINCE: 1.7.0

Return the public or secret key as part of the result structure. This has not yet been implemented.

GPGME_CREATE_FORCE
SINCE: 1.7.0

The engine does not allow the creation of a key with a user ID already existing in the local key database. This flag can be used to override this check.

GPGME>Create_NOEXPIRE
SINCE: 1.8.0

Request generation of keys that do not expire.

After the operation completed successfully, information about the created key can be retrieved with gpgme_op_genkey_result.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if
the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_createkey_start (gpgme_ctx_t CTX,
    const char *USERID, const char *ALGO, unsigned long RESERVED,
    unsigned long EXPIRES, gpgme_key_t EXTRAKEY,
    unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_createkey_start initiates a
gpgme_op_createkey operation; see there for details. It must be
completed by calling gpgme_wait on the context. *Note Waiting
For Completion:::

-- Function: gpgme_error_t gpgme_op_createsubkey (gpgme_ctx_t CTX,
    gpgme_key_t KEY, const char *ALGO, unsigned long RESERVED,
    unsigned long EXPIRES, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_createsubkey creates and adds a new subkey
to the primary OpenPGP key given by KEY. The only allowed protocol
in CTX is GPGME_PROTOCOL_OPENPGP. Subkeys (aka secondary keys)
are a concept in the OpenPGP protocol to bind several keys to a
primary key. As of now this function requires at least version
2.1.13 of GnuPG.

KEY specifies the key to operate on.

ALGO specifies the algorithm for the new subkey. For a list of
supported algorithms, see the GnuPG manual. If ALGO is NULL or
the string "default", the subkey is generated using the default
algorithm for an encryption subkey of the engine. If the string
"future-default" is used the engine may use an encryption algorithm
which is planned to be the default in a future release of the
engine; however existing implementation of the protocol may not be
able to already handle such future algorithms.

RESERVED must be set to zero.

EXPIRES specifies the expiration time in seconds. If you supply 0,
a reasonable expiration time is chosen. Use the flag
GPGME_CREATE_NOEXPIRE to create keys that do not expire. Note
that this parameter takes an unsigned long value and not a time_t
to avoid problems on systems which use a signed 32 bit time_t.
Note further that the OpenPGP protocol uses 32 bit values for
timestamps and thus can only encode dates up to the year 2106.
FLAGS takes the same values as described above for

gpgme_op_createkey.

After the operation completed successfully, information about the
created key can be retrieved with gpgme_op_genkey_result.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if
the engine does not support the command, or a bunch of other error
codes.

-- Function: gpgme_error_t gpgme_op_createsubkey_start
          (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *ALGO,
           unsigned long RESERVED, unsigned long EXPIRES,
           unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_createsubkey_start initiates a
gpgme_op_createsubkey operation; see there for details. It must
be completed by calling gpgme_wait on the context. *Note Waiting
For Completion::

-- Function: gpgme_error_t gpgme_op_adduid (gpgme_ctx_t CTX,
          gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_adduid adds a new user ID to the OpenPGP
key given by KEY. Adding additional user IDs after key creation is
a feature of the OpenPGP protocol and thus the protocol for the
context CTX must be set to OpenPGP. As of now this function
requires at least version 2.1.13 of GnuPG.

KEY specifies the key to operate on.

USERID is the user ID to add to the key. A user ID is commonly the
mail address to be associated with the key. GPGME does not require
a specific syntax but if more than a mail address is given, RFC-822
style format is suggested. The value is expected to be in UTF-8
encoding (i.e. no IDN encoding for mail addresses). This is a
required parameter.

FLAGS are currently not used and must be set to zero.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if
the engine does not support the command, or a bunch of other error
codes.
-- Function: gpgme_error_t gpgme_op_adduid_start (gpgme_ctx_t CTX,
gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_adduid_start initiates a gpgme_op_adduid operation; see there for details. It must be completed by calling gpgme_wait on the context. *Note Waiting For Completion::.

-- Function: gpgme_error_t gpgme_op_revuid (gpgme_ctx_t CTX,
gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_revuid revokes a user ID from the OpenPGP key given by KEY. Revoking user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context CTX must be set to OpenPGP. As of now this function requires at least version 2.1.13 of GnuPG.

KEY specifies the key to operate on.

USERID is the user ID to be revoked from the key. The user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the uid field from the user ID object (gpgme_user_id_t) is to be used. This is a required parameter.

FLAGS are currently not used and must be set to zero.

Note that the engine wont allow to revoke the last valid user ID. To change a user ID is better to first add the new user ID, then revoke the old one, and finally publish the key.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_revuid_start (gpgme_ctx_t CTX,
gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_revuid_start initiates a gpgme_op_revuid operation; see there for details. It must be completed by calling gpgme_wait on the context. *Note Waiting For Completion::.

-- Function: gpgme_error_t gpgme_op_set_ui_flag (gpgme_ctx_t CTX,
The function `gpgme_op_set_uid_flag` is used to set flags on a user ID from the OpenPGP key given by `KEY`. Setting flags on user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context `CTX` must be set to OpenPGP.

`KEY` specifies the key to operate on. This parameter is required.

`USERID` is the user ID of the key to be manipulated. This user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the uid field from the user ID object `gpgme_user_id_t` is to be used. This is a required parameter.

`NAME` names the flag which is to be changed. The only currently supported flag is:

- **primary**
  This sets the primary key flag on the given user ID. All other primary key flag on other user IDs are removed. `VALUE` must be given as NULL. For technical reasons this functions bumps the creation timestamp of all affected self-signatures up by one second. At least GnuPG version 2.1.20 is required.

The function returns zero on success, `GPG_ERR_NOT_SUPPORTED` if the engine does not support the command, or a bunch of other error codes.

```c
-- Function: gpgme_error_t gpgme_op_set_uid_flag_start
    (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *USERID,
     const char * NAME, const char * VALUE);

-- Function: gpgme_error_t gpgme_op_genkey (gpgme_ctx_t CTX,
     const char *PARMS, gpgme_data_t PUBLIC, gpgme_data_t SECRET)
```

The function `gpgme_op_set_uid_flag_start` initiates a `gpgme_op_set_uid_flag` operation; see there for details. It must be completed by calling `gpgme_wait` on the context. *Note Waiting For Completion:*.

```
-- Function: gpgme_error_t gpgme_op_genkey (gpgme_ctx_t CTX,
     const char *PARMS, gpgme_data_t PUBLIC, gpgme_data_t SECRET)
```

The function `gpgme_op_genkey` generates a new key pair in the context `CTX`. The meaning of `PUBLIC` and `SECRET` depends on the crypto backend.
GPG does not support PUBLIC and SECRET, they should be NULL. GnuPG will generate a key pair and add it to the standard key ring. The fingerprint of the generated key is available with gpgme_op_genkey_result.

GpgSM requires PUBLIC to be a writable data object. GpgSM will generate a secret key (which will be stored by gpg-agent, and return a certificate request in PUBLIC, which then needs to be signed by the certification authority and imported before it can be used. GpgSM does not make the fingerprint available.

The argument PARMS specifies parameters for the key in an string that looks something like XML. The details about the format of PARMS are specific to the crypto engine used by CTX. The first line of the parameters must be <GnupgKeyParams format="internal"> and the last line must be </GnupgKeyParams>. Every line in between the first and last lines is treated as a Header: Value pair. In particular, no XML escaping is necessary if you need to include the characters <, >, or &.

Here is an example for GnuPG as the crypto engine (all parameters of OpenPGP key generation are documented in the GPG manual):

```
<GnupgKeyParms format="internal">
Key-Type: default
Subkey-Type: default
Name-Real: Joe Tester
Name-Comment: with stupid passphrase
Name-Email: joe@foo.bar
Expire-Date: 0
Passphrase: abc
</GnupgKeyParms>
```

Here is an example for GpgSM as the crypto engine (all parameters of OpenPGP key generation are documented in the GPGSM manual):

```
<GnupgKeyParms format="internal">
Key-Type: RSA
Key-Length: 1024
Name-DN: C=de,O=g10 code,OU=Testlab,CN=Joe 2 Tester
Name-Email: joe@foo.bar
</GnupgKeyParms>
```

Strings should be given in UTF-8 encoding. The only format supported for now is internal. The content of the GnupgKeyParms container is passed verbatim to the crypto backend. Control statements are not allowed.
After the operation completed successfully, the result can be retrieved with `gpgme_op_genkey_result`.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, `GPG_ERR_INV_VALUE` if `PARMS` is not a well-formed string (e.g. does not have the expected tag-like headers and footers), `GPG_ERR_NOT_SUPPORTED` if `PUBLIC` or `SECRET` is not valid, and `GPG_ERR_GENERAL` if no key was created by the backend.

-- Function: `gpgme_error_t gpgme_op_genkey_start (gpgme_ctx_t CTX, const char *PARMS, gpgme_data_t PUBLIC, gpgme_data_t SECRET)`

The function `gpgme_op_genkey_start` initiates a `gpgme_op_genkey` operation. It can be completed by calling `gpgme_wait` on the context. *Note Waiting For Completion:*

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, `GPG_ERR_INV_VALUE` if `PARMS` is not a valid XML string, and `GPG_ERR_NOT_SUPPORTED` if `PUBLIC` or `SECRET` is not NULL.

-- Data type: `gpgme_genkey_result_t`

This is a pointer to a structure used to store the result of a `gpgme_op_genkey` operation. After successfully generating a key, you can retrieve the pointer to the result with `gpgme_op_genkey_result`. The structure contains the following members:

- `unsigned int primary : 1`
  This flag is set to 1 if a primary key was created and to 0 if not.

- `unsigned int sub : 1`
  This flag is set to 1 if a subkey was created and to 0 if not.

- `unsigned int uid : 1`
  This flag is set to 1 if a user ID was created and to 0 if not.

- `char *fpr`
  This is the fingerprint of the key that was created. If both a primary and a subkey were generated, the fingerprint of the primary key will be returned. If the crypto engine does not provide the fingerprint, `fpr` will be a null pointer.
gpgme_data_t pubkey
   SINCE: 1.7.0

   This will eventually be used to return the public key. It is currently not used.

gpgme_data_t seckey
   SINCE: 1.7.0

   This will eventually be used to return the secret key. It is currently not used.

-- Function: gpgme_genkey_result_t gpgme_op_genkey_result
    (gpgme_ctx_t CTX)

   The function gpgme_op_genkey_result returns a gpgme_genkey_result_t pointer to a structure holding the result of a gpgme_op_genkey operation. The pointer is only valid if the last operation on the context was a gpgme_op_genkey or gpgme_op_genkey_start operation, and if this operation finished successfully. The returned pointer is only valid until the next operation is started on the context.


7.5.6 Signing Keys
------------------

Key signatures are a unique concept of the OpenPGP protocol. They can be used to certify the validity of a key and are used to create the Web-of-Trust (WoT). Instead of using the gpgme_op_interact function along with a finite state machine, GPGME provides a convenient function to create key signatures when using modern GnuPG versions.

-- Function: gpgme_error_t gpgme_op_keysign (gpgme_ctx_t CTX,
   gpgme_key_t KEY, const char *USERID, unsigned long EXPIRES,
   unsigned int FLAGS);

   SINCE: 1.7.0

   The function gpgme_op_keysign adds a new key signature to the public key KEY. This function requires at least version 2.1.12 of GnuPG.

   CTX is the usual context which describes the protocol to use (which must be OpenPGP) and has also the list of signer keys to be used for the signature. The common case is to use the default key for
signing other keys. If another key or more than one key shall be used for a key signature, gpgme_signers_add can be used. *Note Selecting Signers::.

KEY specifies the key to operate on.

USERID selects the user ID or user IDs to be signed. If USERID is set to NULL all valid user IDs are signed. The user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the uid field from the user ID object (gpgme_user_id_t) is to be used. To select more than one user ID put them all into one string separated by linefeeds characters (\n) and set the flag GPGME_KEYSGN_LFSEP.

EXPIRES specifies the expiration time of the new signature in seconds. The common case is to use 0 to not set an expiration date. However, if the configuration of the engine defines a default expiration for key signatures, that is still used unless the flag GPGME_KEYSGN_NOEXPIRE is used. Note that this parameter takes an unsigned long value and not a time_t to avoid problems on systems which use a signed 32 bit time_t. Note further that the OpenPGP protocol uses 32 bit values for timestamps and thus can only encode dates up to the year 2106.

FLAGS can be set to the bit-wise OR of the following flags:

GPGME_KEYSGN_LOCAL
   SINCE: 1.7.0

   Instead of creating an exportable key signature, create a key signature which is is marked as non-exportable.

GPGME_KEYSGN_LFSEP
   SINCE: 1.7.0

   Although linefeeds are uncommon in user IDs this flag is required to explicitly declare that USERID may contain several linefeed separated user IDs.

GPGME_KEYSGN_NOEXPIRE
   Force the creation of a key signature without an expiration date. This overrides EXPIRE and any local configuration of the engine.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.
-- Function: gpgme_error_t gpgme_op_keysign_start (gpgme_ctx_t CTX,
gpgme_key_t KEY, const char *USERID, unsigned long EXPIRES,
unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_keysign_start initiates a
gpgme_op_keysign operation; see there for details. It must be
completed by calling gpgme_wait on the context. *Note Waiting
For Completion:.


7.5.7 Exporting Keys

Exporting keys means the same as running gpg with the command
--export. However, a mode flag can be used to change the way the
export works. The available mode flags are described below, they may be
or-ed together.

GPGME_EXPORT_MODE_EXTERN
   If this bit is set, the output is send directly to the default
   keyserver. This is currently only allowed for OpenPGP keys. It is
   good practise to not send more than a few dozens key to a keyserver
   at one time. Using this flag requires that the KEYDATA argument of
   the export function is set to NULL.

GPGME_EXPORT_MODE_MINIMAL
   SINCE: 1.3.1

   If this bit is set, the smallest possible key is exported. For
   OpenPGP keys it removes all signatures except for the latest
   self-signatures. For X.509 keys it has no effect.

GPGME_EXPORT_MODE_SECRET
   SINCE: 1.6.0

   Instead of exporting the public key, the secret key is exported.
   This may not be combined with GPGME_EXPORT_MODE_EXTERN. For
   X.509 the export format is PKCS#8.

GPGME_EXPORT_MODE_RAW
   SINCE: 1.6.0

   If this flag is used with GPGME_EXPORT_MODE_SECRET for an X.509
   key the export format will be changed to PKCS#1. This flag may not
be used with OpenPGP.

GPGME_EXPORT_MODE_PKCS12
SINCE: 1.6.0

If this flag is used with GPGME_EXPORT_MODE_SECRET for an X.509 key the export format will be changed to PKCS#12 which also includes the certificate. This flag may not be used with OpenPGP.

GPGME_EXPORT_MODE_NOUID
SINCE: 1.12.0 - experimental Do not export user ids. Works only with certain gpg version.

-- Function: gpgme_error_t gpgme_op_export (gpgme_ctx_t CTX, const char *PATTERN, gpgme_export_mode_t MODE, gpgme_data_t KEYDATA)
The function gpgme_op_export extracts public keys and returns them in the data buffer KEYDATA. The output format of the key data returned is determined by the ASCII armor attribute set for the context CTX, or, if that is not set, by the encoding specified for KEYDATA.

If PATTERN is NULL, all available keys are returned. Otherwise, PATTERN contains an engine specific expression that is used to limit the list to all keys matching the pattern.

MODE is usually 0; other values are described above.

The function returns the error code GPG_ERR_NO_ERROR if the operation completed successfully, GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_export_start (gpgme_ctx_t CTX, const char *PATTERN, gpgme_export_mode_t MODE, gpgme_data_t KEYDATA)
The function gpgme_op_export_start initiates a gpgme_op_export operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer.

-- Function: gpgme_error_t gpgme_op_export_ext (gpgme_ctx_t CTX, const char *PATTERN[], gpgme_export_mode_t MODE, gpgme_data_t KEYDATA)
The function gpgme_op_export_ext extracts public keys and returns
them in the data buffer KEYDATA. The output format of the key data returned is determined by the ASCII armor attribute set for the context CTX, or, if that is not set, by the encoding specified for KEYDATA.

If PATTERN or *PATTERN is NULL, all available keys are returned. Otherwise, PATTERN is a NULL terminated array of strings that are used to limit the list to all keys matching at least one of the patterns verbatim.

MODE is usually 0; other values are described above.

The function returns the error code GPG_ERR_NO_ERROR if the operation completed successfully, GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_export_ext_start (gpgme_ctx_t CTX, const char *PATTERN[], gpgme_export_mode_t MODE, gpgme_data_t KEYDATA)
The function gpgme_op_export_ext_start initiates a gpgme_op_export_ext operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:::

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer.

-- Function: gpgme_error_t gpgme_op_export_keys (gpgme_ctx_t CTX, gpgme_key_t keys[], gpgme_export_mode_t MODE, gpgme_data_t KEYDATA)
SINCE: 1.2.0

The function gpgme_op_export_keys extracts public keys and returns them in the data buffer KEYDATA. The output format of the key data returned is determined by the ASCII armor attribute set for the context CTX, or, if that is not set, by the encoding specified for KEYDATA.

The keys to export are taken form the NULL terminated array KEYS. Only keys of the currently selected protocol of CTX which do have a fingerprint set are considered for export. Other keys specified by the KEYS are ignored. In particular OpenPGP keys retrieved via an external key listing are not included.

MODE is usually 0; other values are described above.

The function returns the error code GPG_ERR_NO_ERROR if the
operation completed successfully, GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer, GPG_ERR_NO_DATA if no useful keys are in KEYS and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_export_keys_start (gpgme_ctx_t CTX,
gpgme_key_t KEYS[], gpgme_export_mode_t MODE,
gpgme_data_t KEYDATA)
SINCE: 1.2.0

The function gpgme_op_export_keys_start initiates a gpgme_op_export_ext operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:::

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer, GPG_ERR_NO_DATA if no useful keys are in KEYS and passes through any errors that are reported by the crypto engine support routines.


7.5.8 Importing Keys
---------------------

Importing keys means the same as running gpg with the command --import.

-- Function: gpgme_error_t gpgme_op_import (gpgme_ctx_t CTX,
gpgme_data_t KEYDATA)

The function gpgme_op_import adds the keys in the data buffer KEYDATA to the key ring of the crypto engine used by CTX. The format of KEYDATA can be ASCII armored, for example, but the details are specific to the crypto engine.

After the operation completed successfully, the result can be retrieved with gpgme_op_import_result.

The function returns the error code GPG_ERR_NO_ERROR if the import was completed successfully, GPG_ERR_INV_VALUE if KEYDATA if CTX or KEYDATA is not a valid pointer, and GPG_ERR_NO_DATA if KEYDATA is an empty data buffer.

-- Function: gpgme_error_t gpgme_op_import_start (gpgme_ctx_t CTX,
gpgme_data_t KEYDATA)

The function gpgme_op_import_start initiates a gpgme_op_import operation. It can be completed by calling gpgme_wait on the
context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the import could be started successfully, GPG_ERR_INV_VALUE if CTX or KEYDATA is not a valid pointer, and GPG_ERR_NO_DATA if KEYDATA is an empty data buffer.

-- Function: gpgme_error_t gpgme_op_import_keys (gpgme_ctx_t CTX, gpgme_key_t *KEYS)
SINCE: 1.2.0

The function gpgme_op_import_keys adds the keys described by the NULL terminated array KEYS to the key ring of the crypto engine used by CTX. It is used to actually import and make keys permanent which have been retrieved from an external source (i.e. using GPGME_KEYLIST_MODE_EXTERN) earlier. The external keylisting must have been made with the same context configuration (in particular the same home directory). (1) Note that for OpenPGP this may require another access to the keys server over the network.

Only keys of the currently selected protocol of CTX are considered for import. Other keys specified by the KEYS are ignored. As of now all considered keys must have been retrieved using the same method, i.e. the used key listing mode must be identical.

After the operation completed successfully, the result can be retrieved with gpgme_op_import_result.

To move keys from one home directory to another, export and import the keydata using gpgme_op_export and gpgme_op_import.

The function returns the error code GPG_ERR_NO_ERROR if the import was completed successfully, GPG_ERR_INV_VALUE if CTX is not a valid pointer, GPG_ERR_CONFLICT if the key listing mode does not match, and GPG_ERR_NO_DATA if no keys are considered for export.

-- Function: gpgme_error_t gpgme_op_import_keys_start (gpgme_ctx_t CTX, gpgme_key_t *KEYS)
SINCE: 1.2.0

The function gpgme_op_import_keys_start initiates a gpgme_op_import_keys operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the import was completed successfully, GPG_ERR_INV_VALUE if KEYDATA if CTX or KEYDATA is not a valid pointer, GPG_ERR_CONFLICT if the
key listing mode does not match, and GPG_ERR_NO_DATA if no keys are considered for export.

-- Data type: gpgme_import_status_t
This is a pointer to a structure used to store a part of the result of a gpgme_op_import operation. For each considered key one status is added that contains information about the result of the import. The structure contains the following members:

gpgme_import_status_t next
This is a pointer to the next status structure in the linked list, or NULL if this is the last element.

char *fpr
This is the fingerprint of the key that was considered.

gpgme_error_t result
If the import was not successful, this is the error value that caused the import to fail. Otherwise the error code is GPG_ERR_NO_ERROR.

unsigned int status
This is a bit-wise OR of the following flags that give more information about what part of the key was imported. If the key was already known, this might be 0.

GPGME_IMPORT_NEW
The key was new.

GPGME_IMPORT_UID
The key contained new user IDs.

GPGME_IMPORT_SIG
The key contained new signatures.

GPGME_IMPORT_SUBKEY
The key contained new sub keys.

GPGME_IMPORT_SECRET
The key contained a secret key.

-- Data type: gpgme_import_result_t
This is a pointer to a structure used to store the result of a gpgme_op_import operation. After a successful import operation, you can retrieve the pointer to the result with gpgme_op_import_result. The structure contains the following members:
int considered
   The total number of considered keys.

int no_user_id
   The number of keys without user ID.

int imported
   The total number of imported keys.

int imported_rsa
   The number of imported RSA keys.

int unchanged
   The number of unchanged keys.

int new_user_ids
   The number of new user IDs.

int new_sub_keys
   The number of new sub keys.

int new_signatures
   The number of new signatures.

int new_revocations
   The number of new revocations.

int secret_read
   The total number of secret keys read.

int secret_imported
   The number of imported secret keys.

int secret_unchanged
   The number of unchanged secret keys.

int not_imported
   The number of keys not imported.

gpgme_import_status_t imports
   A list of gpgme_import_status_t objects which contain more
   information about the keys for which an import was attempted.

int skipped_v3_keys
   For security reasons modern versions of GnuPG do not anymore
   support v3 keys (created with PGP 2.x) and ignores them on
   import. This counter provides the number of such skipped v3
   keys.
The function \texttt{gpgme\_op\_import\_result} returns a \texttt{gpgme\_import\_result\_t} pointer to a structure holding the result of a \texttt{gpgme\_op\_import} operation. The pointer is only valid if the last operation on the context was a \texttt{gpgme\_op\_import} or \texttt{gpgme\_op\_import\_start} operation, and if this operation finished successfully. The returned pointer is only valid until the next operation is started on the context.

\begin{footnotes}
\footnote{Thus it is a replacement for the usual workaround of exporting and then importing a key to make an X.509 key permanent.}
\end{footnotes}


7.5.9 Deleting Keys

\begin{footnotes}
\end{footnotes}

The function \texttt{gpgme\_op\_delete\_ext} deletes the key \texttt{KEY} from the key ring of the crypto engine used by \texttt{CTX}.

FLAGS can be set to the bit-wise OR of the following flags:

\begin{description}
\item[GPGME\_DELETE\_ALLOW\_SECRET] \begin{itemize}
\item SINCE: 1.9.1
\item If not set, only public keys are deleted. If set, secret keys are deleted as well, if that is supported.
\end{itemize}
\item[GPGME\_DELETE\_FORCE] \begin{itemize}
\item SINCE: 1.9.1
\item If set, the user is not asked to confirm the deletion.
\end{itemize}
\end{description}

The function returns the error code \texttt{GPG\_ERR\_NO\_ERROR} if the key was deleted successfully, \texttt{GPG\_ERR\_INV\_VALUE} if \texttt{CTX} or \texttt{KEY} is not a valid pointer, \texttt{GPG\_ERR\_NO\_PUBKEY} if \texttt{KEY} could not be found in the keyring, \texttt{GPG\_ERR\_AMBIGUOUS\_NAME} if the key was not specified unambiguously, and \texttt{GPG\_ERR\_CONFLICT} if the secret key for \texttt{KEY} is
available, but ALLOW_SECRET is zero.

-- Function: gpgme_error_t gpgme_op_delete_ext_start (gpgme_ctx_t CTX,
    const gpgme_key_t KEY, unsigned int FLAGS)
SINCE: 1.9.1

The function gpgme_op_delete_ext_start initiates a
gpgme_op_delete operation. It can be completed by calling
gpgme_wait on the context. *Note Waiting For Completion:*

The function returns the error code GPG_ERR_NO_ERROR if the
operation was started successfully, and GPG_ERR_INV_VALUE if CTX
or KEY is not a valid pointer.

The following functions allow only to use one particular flag.

-- Function: gpgme_error_t gpgme_op_delete (gpgme_ctx_t CTX,
    const gpgme_key_t KEY, int ALLOW_SECRET)
Similar to gpgme_op_delete_ext, but only the flag
GPGME_DELETE_ALLOW_SECRET can be provided.

-- Function: gpgme_error_t gpgme_op_delete_start (gpgme_ctx_t CTX,
    const gpgme_key_t KEY, int ALLOW_SECRET)
Similar to gpgme_op_delete_ext_start, but only the flag
GPGME_DELETE_ALLOW_SECRET can be provided.

Management

7.5.10 Changing Passphrases
----------------------------

-- Function: gpgme_error_t gpgme_op_passwd (gpgme_ctx_t CTX,
    const gpgme_key_t KEY, unsigned int FLAGS)
SINCE: 1.3.0

The function gpgme_op_passwd changes the passphrase of the
private key associated with KEY. The only allowed value for FLAGS
is 0. The backend engine will usually popup a window to ask for
the old and the new passphrase. Thus this function is not useful
in a server application (where passphrases are not required
anyway).

Note that old gpg engines (before version 2.0.15) do not support
this command and will silently ignore it.
-- Function: gpgme_error_t gpgme_op_passwd_start (gpgme_ctx_t CTX,
   const gpgme_key_t KEY, unsigned int FLAGS)

SINCE: 1.3.0

The function gpgme_op_passwd_start initiates a gpgme_op_passwd
operation. It can be completed by calling gpgme_wait on the
context. *Note Waiting For Completion::.

The function returns 0 if the operation was started successfully,
and an error code if one of the arguments is not valid or the
operation could not be started.

File: gpgme.info, Node: Changing TOFU Data, Next: Advanced Key Editing, Prev: Changing Passphrases, Up:
Key Management

7.5.11 Changing TOFU Data
--------------------------

The OpenPGP engine features a Trust-On-First-Use (TOFU) key validation
model. For resolving conflicts it is necessary to declare the policy
for a key. See the GnuPG manual for details on the TOFU implementation.

-- Data type: enum gpgme_tofu_policy_t
SINCE: 1.7.0

The gpgme_tofu_policy_t type specifies the set of possible policy
values that are supported by GPGME:

GPGME_TOFU_POLICY_AUTO
   Set the policy to auto.
GPGME_TOFU_POLICY_GOOD
   Set the policy to good.
GPGME_TOFU_POLICY_BAD
   Set the policy to bad.
GPGME_TOFU_POLICY_ASK
   Set the policy to ask.
GPGME_TOFU_POLICY_UNKNOWN
   Set the policy to unknown.

To change the policy for a key the following functions can be used:

-- Function: gpgme_error_t gpgme_op_tofu_policy (gpgme_ctx_t CTX,
   const gpgme_key_t KEY, gpgme_tofu_policy_t POLICY)

SINCE: 1.7.0
The function gpgme_op_tofu_policy changes the TOFU policy of KEY. The valid values for POLICY are listed above. As of now this function does only work for OpenPGP and requires at least version 2.1.10 of GnuPG.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_tofu_policy_start (gpgme_ctx_t CTX, const gpgme_key_t KEY, gpgme_tofu_policy_t POLICY)

SINCE: 1.7.0

The function gpgme_op_tofu_policy_start initiates a gpgme_op_tofu_policy operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::.

The function returns 0 if the operation was started successfully, and an error code if one of the arguments is not valid or the operation could not be started.

File: gpgme.info, Node: Advanced Key Editing, Prev: Changing TOFU Data, Up: Key Management

7.5.12 Advanced Key Editing

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

-- Data type: gpgme_error_t (*gpgme_interact_cb_t) (void *HANDLE, const char *STATUS, const char *ARGS, int FD)

SINCE: 1.7.0

The gpgme_interact_cb_t type is the type of functions which GPGME calls if a key interact operation is on-going. The status keyword STATUS and the argument line ARGS are passed through by GPGME from the crypto engine. An empty string represents EOF. The file descriptor FD is -1 for normal status messages. If STATUS indicates a command rather than a status message, the response to the command should be written to FD. The HANDLE is provided by the user at start of operation.

The function should return GPG_ERR_FALSE if it did not handle the status code, 0 for success, or any other error value.

-- Function: gpgme_error_t gpgme_op_interact (gpgme_ctx_t CTX, gpgme_key_t KEY, unsigned int FLAGS, gpgme_interact_cb_t FNC, void *HANDLE, gpgme_data_t OUT)
The function `gpgme_op_interact` processes the key `KEY` interactively, using the interact callback function `FNC` with the handle `HANDLE`. The callback is invoked for every status and command request from the crypto engine. The output of the crypto engine is written to the data object `OUT`.

Note that the protocol between the callback function and the crypto engine is specific to the crypto engine and no further support in implementing this protocol correctly is provided by GPGME.

`FLAGS` modifies the behaviour of the function; the only defined bit value is:

```
GPGME_INTERACT_CARD
```

This is used for smartcard based keys and uses `gpgs --card-edit` command.

The function returns 0 if the edit operation completes successfully, `GPG_ERR_INV_VALUE` if `CTX` or `KEY` is not a valid pointer, and any error returned by the crypto engine or the edit callback handler.

% Function: gpgme_error_t gpgme_op_interact_start (gpgme_ctx_t CTX, gpgme_key_t KEY, unsigned int FLAGS, gpgme_interact_cb_t FNC, void *HANDLE, gpgme_data_t OUT)

% Since: 1.7.0

The function `gpgme_op_interact_start` initiates a `gpgme_op_interact` operation. It can be completed by calling `gpgme_wait` on the context. %Note Waiting For Completion%.

The function returns 0 if the operation was started successfully, and `GPG_ERR_INV_VALUE` if `CTX` or `KEY` is not a valid pointer.

---


7.6 Trust Item Management

*Caution:* The trust items interface is experimental.
The `gpgme_trust_item_t` type is a pointer to a trust item object. It has the following members:

- `char *keyid`  
  This is a string describing the key to which this trust item belongs.

- `int type`  
  This is the type of the trust item. A value of 1 refers to a key, a value of 2 refers to a user ID.

- `int level`  
  This is the trust level.

- `char *owner_trust`  
  The owner trust if `type` is 1.

- `char *validity`  
  The calculated validity.

- `char *name`  
  The user name if `type` is 2.

* Menu:

- Listing Trust Items: Browsing the list of available trust items.
- Manipulating Trust Items: Operations on trust items.

7.6.1 Listing Trust Items
-------------------------

-- Function: `gpgme_error_t gpgme_op_trustlist_start (gpgme_ctx_t CTX, const char *PATTERN, int MAX_LEVEL)`  
The function `gpgme_op_trustlist_start` initiates a trust item listing operation inside the context `CTX`. It sets everything up so that subsequent invocations of `gpgme_op_trustlist_next` return the trust items in the list.

The string `PATTERN` contains an engine specific expression that is used to limit the list to all trust items matching the pattern. It can not be the empty string.

The argument `MAX_LEVEL` is currently ignored.
The context will be busy until either all trust items are received (and gpgme_op_trustlist_next returns GPG_ERR_EOF), or gpgme_op_trustlist_end is called to finish the operation.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_trustlist_next (gpgme_ctx_t CTX, gpgme_trust_item_t *R_ITEM)
The function gpgme_op_trustlist_next returns the next trust item in the list created by a previous gpgme_op_trustlist_start operation in the context CTX. The trust item can be destroyed with gpgme_trust_item_release. *Note Manipulating Trust Items:*

This is the only way to get at gpgme_trust_item_t objects in GPGME.

If the last trust item in the list has already been returned, gpgme_op_trustlist_next returns GPG_ERR_EOF.

The function returns the error code GPG_ERR_INV_VALUE if CTX or R_ITEM is not a valid pointer, and GPG_ERR_ENOMEM if there is not enough memory for the operation.

-- Function: gpgme_error_t gpgme_op_trustlist_end (gpgme_ctx_t CTX)
The function gpgme_op_trustlist_end ends a pending trust list operation in the context CTX.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and GPG_ERR_ENOMEM if at some time during the operation there was not enough memory available.


7.6.2 Manipulating Trust Items

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

-- Function: void gpgme_trust_item_ref (gpgme_trust_item_t ITEM)
The function gpgme_trust_item_ref acquires an additional reference for the trust item ITEM.

-- Function: void gpgme_trust_item_unref (gpgme_trust_item_t ITEM)
The function gpgme_trust_item_unref releases a reference for the trust item ITEM. If this was the last reference, the trust item will be destroyed and all resources associated to it will be released.
7.7 Crypto Operations
=======================

Sometimes, the result of a crypto operation returns a list of invalid keys encountered in processing the request. The following structure is used to hold information about such a key.

-- Data type: gpgme_invalid_key_t
This is a pointer to a structure used to store a part of the result of a crypto operation which takes user IDs as one input parameter. The structure contains the following members:

gpgme_invalid_key_t next
This is a pointer to the next invalid key structure in the linked list, or NULL if this is the last element.

char *fpr
The fingerprint or key ID of the invalid key encountered.

gpgme_error_t reason
An error code describing the reason why the key was found invalid.

* Menu:

* Decrypt:: Decrypting a ciphertext.
* Verify:: Verifying a signature.
* Decrypt and Verify:: Decrypting a signed ciphertext.
* Sign:: Creating a signature.
* Encrypt:: Encrypting a plaintext.

7.7.1 Decrypt
-----------

-- Function: gpgme_error_t gpgme_op_decrypt (gpgme_ctx_t CTX, gpgme_data_t CIPHER, gpgme_data_t PLAIN)
The function gpgme_op_decrypt decrypts the ciphertext in the data object CIPHER and stores it into the data object PLAIN.

The function returns the error code GPG_ERR_NO_ERROR if the ciphertext could be decrypted successfully, GPG_ERR_INV_VALUE if
CTX, CIPHER or PLAIN is not a valid pointer, GPG_ERR_NO_DATA if CIPHER does not contain any data to decrypt, GPG_ERR_DECRYPT_FAILED if CIPHER is not a valid cipher text, GPG_ERR_BAD_PASSPHRASE if the passphrase for the secret key could not be retrieved, and passes through some errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_decrypt_start (gpgme_ctx_t CTX, gpgme_data_t CIPHER, gpgme_data_t PLAIN)
The function gpgme_op_decrypt_start initiates a gpgme_op_decrypt operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if CIPHER or PLAIN is not a valid pointer.

-- Function: gpgme_error_t gpgme_op_decrypt_ext (gpgme_ctx_t CTX, gpgme_decrypt_flags_t FLAGS, gpgme_data_t CIPHER, gpgme_data_t PLAIN)

SINCE: 1.8.0

The function gpgme_op_decrypt_ext is the same as gpgme_op_decrypt but has an additional argument FLAGS. If FLAGS is 0 both function behave identically.

The value in FLAGS is a bitwise-or combination of one or multiple of the following bit values:

GPGME_DECRYPT_VERIFY
SINCE: 1.8.0

The GPGME_DECRYPT_VERIFY symbol specifies that this function shall exactly act as gpgme_op_decrypt_verify.

GPGME_DECRYPT_UNWRAP
SINCE: 1.8.0

The GPGME_DECRYPT_UNWRAP symbol specifies that the output shall be an OpenPGP message with only the encryption layer removed. This requires GnuPG 2.1.12 and works only for OpenPGP. This is the counterpart to GPGME_ENCRYPT_WRAP.

The function returns the error codes as described for gpgme_op_decrypt respective gpgme_op_encrypt.

-- Function: gpgme_error_t gpgme_op_decrypt_ext_start (
The function `gpgme_op_decrypt_ext_start` initiates a `gpgme_op_decrypt_ext` operation. It can be completed by calling `gpgme_wait` on the context. *Note Waiting For Completion::.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, and `GPG_ERR_INV_VALUE` if `CIPHER` or `PLAIN` is not a valid pointer.

-- Data type: `gpgmeRecipient_t`

This is a pointer to a structure used to store information about the recipient of an encrypted text which is decrypted in a `gpgme_op_decrypt` operation. This information (except for the status field) is even available before the operation finished successfully, for example in a passphrase callback. The structure contains the following members:

- `gpgmeRecipient_t next`
  This is a pointer to the next recipient structure in the linked list, or NULL if this is the last element.

- `gpgmePubkeyAlgo_t`
  The public key algorithm used in the encryption.

- `char *keyid`
  This is the key ID of the key (in hexadecimal digits) used as recipient.

- `gpgmeError_t status`
  This is an error number with the error code `GPG_ERR_NO_SECKEY` if the secret key for this recipient is not available, and 0 otherwise.

-- Data type: `gpgmeDecryptResult_t`

This is a pointer to a structure used to store the result of a `gpgme_op_decrypt` operation. After successfully decrypting data, you can retrieve the pointer to the result with `gpgme_op_decrypt_result`. As with all result structures, it this structure shall be considered read-only and an application must not allocate such a structure on its own. The structure contains the following members:
char *unsupported_algorithm
If an unsupported algorithm was encountered, this string describes the algorithm that is not supported.

unsigned int wrong_key_usage : 1
SINCE: 0.9.0 This is true if the key was not used according to its policy.

unsigned int legacy_cipher_nomdc : 1
SINCE: 1.11.2 The message was made by a legacy algorithm without any integrity protection. This might be an old but legitimate message.

unsigned int is_mime : 1;
SINCE: 1.11.0 The message claims that the content is a MIME object.

unsigned int is_de_vs : 1;
SINCE: 1.10.0 The message was encrypted in a VS-NfD compliant way. This is a specification in Germany for a restricted communication level.

gpgme_recipient_t recipients
SINCE: 1.1.0
This is a linked list of recipients to which this message was encrypted.

char *file_name
This is the filename of the original plaintext message file if it is known, otherwise this is a null pointer.

char *session_key
SINCE: 1.8.0
A textual representation (nul-terminated string) of the session key used in symmetric encryption of the message, if the context has been set to export session keys (see gpgme_set_ctx_flag, "export-session-key"), and a session key was available for the most recent decryption operation. Otherwise, this is a null pointer.

You must not try to access this member of the struct unless gpgme_set_ctx_flag (ctx, "export-session-key") returns success or gpgme_get_ctx_flag (ctx, "export-session-key") returns true (non-empty string).

char *symkey_algo
A string with the symmetric encryption algorithm and mode using the format "<algo>.<mode>". Note that the deprecated non-MDC encryption mode of OpenPGP is given as "PGPCFB".

-- Function: gpgme_decrypt_result_t gpgme_op_decrypt_result
   (gpgme_ctx_t CTX)
   The function gpgme_op_decrypt_result returns a gpgme_decrypt_result_t pointer to a structure holding the result of a gpgme_op_decrypt operation. The pointer is only valid if the last operation on the context was a gpgme_op_decrypt or gpgme_op_decrypt_start operation. If the operation failed this might be a NULL pointer. The returned pointer is only valid until the next operation is started on the context.


7.7.2 Verify
-----------

-- Function: gpgme_error_t gpgme_op_verify (gpgme_ctx_t CTX,
   gpgme_data_t SIG, gpgme_data_t SIGNED_TEXT,
   gpgme_data_t PLAIN)
   The function gpgme_op_verify verifies that the signature in the data object SIG is a valid signature. If SIG is a detached signature, then the signed text should be provided in SIGNED_TEXT and PLAIN should be a null pointer. Otherwise, if SIG is a normal (or cleartext) signature, SIGNED_TEXT should be a null pointer and PLAIN should be a writable data object that will contain the plaintext after successful verification.

   The results of the individual signature verifications can be retrieved with gpgme_op_verify_result.

   The function returns the error code GPG_ERR_NO_ERROR if the operation could be completed successfully, GPG_ERR_INV_VALUE if CTX, SIG or PLAIN is not a valid pointer, GPG_ERR_NO_DATA if SIG does not contain any data to verify, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_verify_start (gpgme_ctx_t CTX,
   gpgme_data_t SIG, gpgme_data_t SIGNED_TEXT,
   gpgme_data_t PLAIN)
   The function gpgme_op_verify_start initiates a gpgme_op_verify operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::
The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, GPG_ERR_INV_VALUE if CTX, SIG or PLAIN is not a valid pointer, and GPG_ERR_NO_DATA if SIG or PLAIN does not contain any data to verify.

-- Data type: gpgme_sig_notation_t
This is a pointer to a structure used to store a part of the result of a gpgme_op_verify operation. The structure contains the following members:

    gpgme_sig_notation_t next
    This is a pointer to the next new signature notation structure in the linked list, or NULL if this is the last element.

    char *name
    The name of the notation field. If this is NULL, then the member value will contain a policy URL.

    int name_len
    The length of the name field. For strings the length is counted without the trailing binary zero.

    char *value
    The value of the notation field. If name is NULL, then this is a policy URL.

    int value_len
    The length of the value field. For strings the length is counted without the trailing binary zero.

    gpgme_sig_notation_flags_t flags
    The accumulated flags field. This field contains the flags associated with the notation data in an accumulated form which can be used as an argument to the function gpgme_sig_notation_add. The value flags is a bitwise-or combination of one or multiple of the following bit values:

    GPGME_SIG_NOTATION_HUMAN_READABLE
    SINCE: 1.1.0

    The GPGME_SIG_NOTATION_HUMAN_READABLE symbol specifies that the notation data is in human readable form

    GPGME_SIG_NOTATION_CRITICAL
    SINCE: 1.1.0

    The GPGME_SIG_NOTATION_CRITICAL symbol specifies that
the notation data is critical.

unsigned int human_readable : 1
    This is true if the GPGME_SIG_NOTATION_HUMAN_READABLE flag is set and false otherwise. This flag is only valid for notation data, not for policy URLs.

unsigned int critical : 1
    This is true if the GPGME_SIG_NOTATION_CRITICAL flag is set and false otherwise. This flag is valid for notation data and policy URLs.

-- Data type: gpgme_signature_t
    This is a pointer to a structure used to store a part of the result of a gpgme_op_verify operation. The structure contains the following members:

    gpgme_signature_t next
        This is a pointer to the next new signature structure in the linked list, or NULL if this is the last element.

    gpgme_sigsum_t summary
        This is a bit vector giving a summary of the signature status. It provides an easy interface to a defined semantic of the signature status. Checking just one bit is sufficient to see whether a signature is valid without any restrictions. This means that you can check for GPGME_SIGSUM_VALID like this:

        if ((sig.summary & GPGME_SIGSUM_VALID))
        {
            ..do stuff if valid..
        }
        else
        {
            ..do stuff if not fully valid..
        }

    The defined bits are:
    GPGME_SIGSUM_VALID
        The signature is fully valid.

    GPGME_SIGSUM_GREEN
        The signature is good but one might want to display some extra information. Check the other bits.

    GPGME_SIGSUM_RED
        The signature is bad. It might be useful to check other bits and display more information, i.e. a revoked
certificate might not render a signature invalid when the message was received prior to the cause for the revocation.

GPGME_SIGSUM_KEY_REVOKED
The key or at least one certificate has been revoked.

GPGME_SIGSUM_KEY_EXPIRED
The key or one of the certificates has expired. It is probably a good idea to display the date of the expiration.

GPGME_SIGSUM_SIG_EXPIRED
The signature has expired.

GPGME_SIGSUM_KEY_MISSING
Can't verify due to a missing key or certificate.

GPGME_SIGSUM_CRL_MISSING
The CRL (or an equivalent mechanism) is not available.

GPGME_SIGSUM_CRL_TOO_OLD
Available CRL is too old.

GPGME_SIGSUM_BAD_POLICY
A policy requirement was not met.

GPGME_SIGSUM_SYS_ERROR
A system error occurred.

GPGME_SIGSUM_TOFU_CONFLICT
A TOFU conflict was detected.

char *fpr
This is the fingerprint or key ID of the signature.

gpgme_error_t status
This is the status of the signature. In particular, the following status codes are of interest:

GPG_ERR_NO_ERROR
This status indicates that the signature is valid. For the combined result this status means that all signatures are valid.

GPG_ERR_SIG_EXPIRED
This status indicates that the signature is valid but expired. For the combined result this status means that
all signatures are valid and expired.

GPG_ERR_KEY_EXPIRED
This status indicates that the signature is valid but the key used to verify the signature has expired. For the combined result this status means that all signatures are valid and all keys are expired.

GPG_ERR_CERT_REVOKED
This status indicates that the signature is valid but the key used to verify the signature has been revoked. For the combined result this status means that all signatures are valid and all keys are revoked.

GPG_ERR_BAD_SIGNATURE
This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.

GPG_ERR_NO_PUBKEY
This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.

GPG_ERR_GENERAL
This status indicates that there was some other error which prevented the signature verification.

gpgme_sig_notation_t notations
This is a linked list with the notation data and policy URLs.

unsigned long timestamp
The creation timestamp of this signature.

unsigned long exp_timestamp
The expiration timestamp of this signature, or 0 if the signature does not expire.

unsigned int wrong_key_usage : 1
This is true if the key was not used according to its policy.

unsigned int pka_trust : 2
This is set to the trust information gained by means of the PKA system. Values are:
0
No PKA information available or verification not possible.
PKA verification failed.

PKA verification succeeded.

Reserved for future use.
Depending on the configuration of the engine, this metric may also be reflected by the validity of the signature.

```c
unsigned int chain_model : 1
SINCE: 1.1.6

This is true if the validity of the signature has been checked using the chain model. In the chain model the time the signature has been created must be within the validity period of the certificate and the time the certificate itself has been created must be within the validity period of the issuing certificate. In contrast the default validation model checks the validity of signature as well at the entire certificate chain at the current time.

```gpgme_validity_t validity
The validity of the signature.
```

```gpgme_error_t validity_reason
If a signature is not valid, this provides a reason why.
```

```gpgme_pubkey_algo_t
The public key algorithm used to create this signature.
```

```gpgme_hash_algo_t
The hash algorithm used to create this signature.
```

```char *pka_address
The mailbox from the PKA information or NULL.
```

```gpgme_key_t key
SINCE: 1.7.0

An object describing the key used to create the signature. This key object may be incomplete in that it only conveys information available directly with a signature. It may also be NULL if such information is not readily available.

-- Data type: gpgme_verify_result_t
This is a pointer to a structure used to store the result of a gpgme_op_verify operation. After verifying a signature, you can retrieve the pointer to the result with gpgme_op_verify_result.
If the operation failed this might be a NULL pointer. The structure contains the following member:

```c
struct gpgme_verify_result_t {
    struct gpgme_signature_t signatures;
    char *file_name;
    unsigned int is_mime;
};
```

A linked list with information about all signatures for which a verification was attempted.

This is the filename of the original plaintext message file if it is known, otherwise this is a null pointer. Warning: The filename is not covered by the signature.

The message claims that the content is a MIME object. Warning: This flag is not covered by the signature.

```c
-- Function: gpgme_verify_result_t gpgme_op_verify_result (gpgme_ctx_t CTX)
```

The function `gpgme_op_verify_result` returns a `gpgme_verify_result_t` pointer to a structure holding the result of a `gpgme_op_verify` operation. The pointer is only valid if the last operation on the context was a `gpgme_op_verify`, `gpgme_op_verify_start`, `gpgme_op_decrypt_verify` or `gpgme_op_decrypt_verify_start` operation, and if this operation finished successfully (for `gpgme_op_decrypt_verify` and `gpgme_op_decrypt_verify_start` operation, the error code `GPG_ERR_NO_DATA` counts as successful in this context). The returned pointer is only valid until the next operation is started on the context.


7.7.3 Decrypt and Verify

----------

```c
-- Function: gpgme_error_t gpgme_op_decrypt_verify (gpgme_ctx_t CTX,
    gpgme_data_t CIPHER, gpgme_data_t PLAIN)
```

The function `gpgme_op_decrypt_verify` decrypts the ciphertext in the data object `CIPHER` and stores it into the data object `PLAIN`. If `CIPHER` contains signatures, they will be verified.

After the operation completed, `gpgme_op_decrypt_result` and `gpgme_op_verify_result` can be used to retrieve more information about the signatures.

If the error code `GPG_ERR_NO_DATA` is returned, `CIPHER` does not
contain any data to decrypt. However, it might still be signed. The information about detected signatures is available with gpgme_op_verify_result in this case.

The function returns the error code GPG_ERR_NO_ERROR if the ciphertext could be decrypted successfully, GPG_ERR_INV_VALUE if CTX, CIPHER or PLAIN is not a valid pointer, GPG_ERR_NO_DATA if CIPHER does not contain any data to decrypt, GPG_ERR_DECRYPT_FAILED if CIPHER is not a valid cipher text, GPG_ERR_BAD_PASSPHRASE if the passphrase for the secret key could not be retrieved, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_decrypt_verify_start (gpgme_ctx_t CTX, gpgme_data_t CIPHER, gpgme_data_t PLAIN)

The function gpgme_op_decrypt_verify_start initiates a gpgme_op_decrypt_verify operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, GPG_ERR_INV_VALUE if CTX, CIPHER, PLAIN or R_STAT is not a valid pointer, and GPG_ERR_NO_DATA if CIPHER does not contain any data to decrypt.

When processing mails it is sometimes useful to extract the actual mail address (the addr-spec) from a string. GPGME provides this helper function which uses the same semantics as the internal functions in GPGME and GnuPG:

-- Function: char * gpgme_addrspec_from_uid (const char *UID)

SINCE: 1.7.1

Return the mail address (called addr-spec in RFC-5322) from the string UID which is assumed to be a user id (called address in RFC-5322). All plain ASCII characters (i.e. those with bit 7 cleared) in the result are converted to lowercase. Caller must free the result using gpgme_free. Returns NULL if no valid address was found (in which case ERRNO is set to EINVAL) or for other errors.
A signature can contain signatures by one or more keys. The set of keys used to create a signature is contained in a context, and is applied to all following signing operations in this context (until the set is changed).

* Menu:

* Selecting Signers:: How to choose the keys to sign with.
* Creating a Signature:: How to create a signature.
* Signature Notation Data:: How to add notation data to a signature.

File: gpgme.info, Node: Selecting Signers, Next: Creating a Signature, Up: Sign

7.7.4.1 Selecting Signers

.......................

The key or the keys used to create a signature are stored in the context. The following functions can be used to manipulate this list. If no signer has been set into the context a default key is used for signing.

-- Function: void gpgme_signers_clear (gpgme_ctx_t CTX)
   The function gpgme_signers_clear releases a reference for each key on the signers list and removes the list of signers from the context CTX.

Every context starts with an empty list.

-- Function: gpgme_error_t gpgme_signers_add (gpgme_ctx_t CTX, const gpgme_key_t KEY)
   The function gpgme_signers_add adds the key KEY to the list of signers in the context CTX.

   Calling this function acquires an additional reference for the key.

-- Function: unsigned int gpgme_signers_count (const gpgme_ctx_t CTX)
   SINCE: 1.4.3

   The function gpgme_signers_count returns the number of signer keys in the context CTX.

-- Function: gpgme_key_t gpgme_signers_enum (const gpgme_ctx_t CTX, int SEQ)
   The function gpgme_signers_enum returns the SEQth key in the list of signers in the context CTX. An additional reference is acquired for the user.
If SEQ is out of range, NULL is returned.

File: gpgme.info, Node: Creating a Signature, Next: Signature Notation Data, Prev: Selecting Signers, Up: Sign

7.7.4.2 Creating a Signature

```
-- Data type: enum gpgme_sig_mode_t
The gpgme_sig_mode_t type is used to specify the desired type of
a signature. The following modes are available:

GPGME_SIG_MODE_NORMAL
A normal signature is made, the output includes the plaintext
and the signature.

GPGME_SIG_MODE_DETACH
A detached signature is made.

GPGME_SIG_MODE_CLEAR
A clear text signature is made. The ASCII armor and text mode
settings of the context are ignored.

-- Function: gpgme_error_t gpgme_op_sign (gpgme_ctx_t CTX,
gpgme_data_t PLAIN, gpgme_data_t SIG, gpgme_sig_mode_t MODE)
The function gpgme_op_sign creates a signature for the text in
the data object PLAIN and returns it in the data object SIG. The
type of the signature created is determined by the ASCII armor (or,
if that is not set, by the encoding specified for SIG), the text
mode attributes set for the context CTX and the requested signature
mode MODE.

After the operation completed successfully, the result can be
retrieved with gpgme_op_sign_result.

If an S/MIME signed message is created using the CMS crypto engine,
the number of certificates to include in the message can be
specified with gpgme_set_include_certs. *Note Included
Certificates:*

The function returns the error code GPG_ERR_NO_ERROR if the
signature could be created successfully, GPG_ERR_INV_VALUE if
CTX, PLAIN or SIG is not a valid pointer, GPG_ERR_NO_DATA if the
signature could not be created, GPG_ERR_BAD_PASSPHRASE if the
passphrase for the secret key could not be retrieved,
GPG_ERR_UNUSABLE_SECKEY if there are invalid signers, and passes
through any errors that are reported by the crypto engine support
routines.
```
-- Function: gpgme_error_t gpgme_op_sign_start (gpgme_ctx_t CTX,
        gpgme_data_t PLAIN, gpgme_data_t SIG, gpgme_sig_mode_t MODE)
The function gpgme_op_sign_start initiates a gpgme_op_sign
operation. It can be completed by calling gpgme_wait on the
context. *Note Waiting For Completion:::

The function returns the error code GPG_ERR_NO_ERROR if the
operation could be started successfully, and GPG_ERR_INV_VALUE if
CTX, PLAIN or SIG is not a valid pointer.

-- Data type: gpgme_new_signature_t
This is a pointer to a structure used to store a part of the result
of a gpgme_op_sign operation. The structure contains the
following members:

gpgme_new_signature_t next
    This is a pointer to the next new signature structure in the
    linked list, or NULL if this is the last element.

gpgme_sig_mode_t type
    The type of this signature.

gpgme_pubkey_algo_t pubkey_algo
    The public key algorithm used to create this signature.

gpgme_hash_algo_t hash_algo
    The hash algorithm used to create this signature.

unsigned int sig_class
    The signature class of this signature.

long int timestamp
    The creation timestamp of this signature.

char *fpr
    The fingerprint of the key which was used to create this
    signature.

-- Data type: gpgme_sign_result_t
This is a pointer to a structure used to store the result of a
gpgme_op_sign operation. After successfully generating a
signature, you can retrieve the pointer to the result with
gpgme_op_sign_result. The structure contains the following
members:

gpgme_invalid_key_t invalid_signers
    A linked list with information about all invalid keys for
which a signature could not be created.

gpgme_new_signature_t signatures
 A linked list with information about all signatures created.

-- Function: gpgme_sign_result_t gpgme_op_sign_result (gpgme_ctx_t CTX)

The function gpgme_op_sign_result returns a gpgme_sign_result_t pointer to a structure holding the result of a gpgme_op_sign operation. The pointer is only valid if the last operation on the context was a gpgme_op_sign, gpgme_op_sign_start, gpgme_op_encrypt_sign or gpgme_op_encrypt_sign_start operation. If that operation failed, the function might return a NULL pointer. The returned pointer is only valid until the next operation is started on the context.

File: gpgme.info, Node: Signature Notation Data, Prev: Creating a Signature, Up: Sign

7.7.4.3 Signature Notation Data

Using the following functions, you can attach arbitrary notation data to a signature. This information is then available to the user when the signature is verified.

-- Function: void gpgme_sig_notation_clear (gpgme_ctx_t CTX)
SINCE: 1.1.0

The function gpgme_sig_notation_clear removes the notation data from the context CTX. Subsequent signing operations from this context will not include any notation data.

Every context starts with an empty notation data list.

-- Function: gpgme_error_t gpgme_sig_notation_add (gpgme_ctx_t CTX,
      const char *NAME, const char *VALUE,
      gpgme_sig_notation_flags_t FLAGS)
SINCE: 1.1.0

The function gpgme_sig_notation_add adds the notation data with the name NAME and the value VALUE to the context CTX.

Subsequent signing operations will include this notation data, as well as any other notation data that was added since the creation of the context or the last gpgme_sig_notation_clear operation.

The arguments NAME and VALUE must be NUL-terminated strings in human-readable form. The flag GPGME_SIG_NOTATION_HUMAN_READABLE
is implied (non-human-readable notation data is currently not supported). The strings must be in UTF-8 encoding.

If NAME is NULL, then VALUE should be a policy URL.

The function gpgme_sig_notation_add returns the error code GPG_ERR_NO_ERROR if the notation data could be added successfully, GPG_ERR_INV_VALUE if CTX is not a valid pointer, or if NAME, VALUE and FLAGS are an invalid combination. The function also passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_sig_notation_t gpgme_sig_notation_get
       (const gpgme_ctx_t CTX)
SINCE: 1.1.0

The function gpgme_sig_notation_get returns the linked list of notation data structures that are contained in the context CTX.

If CTX is not a valid pointer, or there is no notation data added for this context, NULL is returned.


7.7.5 Encrypt
-------------

One plaintext can be encrypted for several recipients at the same time. The list of recipients is created independently of any context, and then passed to the encryption operation.

* Menu:

* Encrypting a Plaintext:: How to encrypt a plaintext.

File: gpgme.info, Node: Encrypting a Plaintext, Up: Encrypt

7.7.5.1 Encrypting a Plaintext
-------------------------------

-- Function: gpgme_error_t gpgme_op_encrypt (gpgme_ctx_t CTX,
       gpgme_key_t RECP[], gpgme_encrypt_flags_t FLAGS,
       gpgme_data_t PLAIN, gpgme_data_t CIPHER)

The function gpgme_op_encrypt encrypts the plaintext in the data object PLAIN for the recipients RECP and stores the ciphertext in the data object CIPHER. The type of the ciphertext created is
determined by the ASCII armor (or, if that is not set, by the encoding specified for CIPHER) and the text mode attributes set for the context CTX.

RECP must be a NULL-terminated array of keys. The user must keep references for all keys during the whole duration of the call (but see gpgme_op_encrypt_start for the requirements with the asynchronous variant).

The value in FLAGS is a bitwise-or combination of one or multiple of the following bit values:

GPGME_ENCRYPT_ALWAYS_TRUST
   The GPGME_ENCRYPT_ALWAYS_TRUST symbol specifies that all the recipients in RECP should be trusted, even if the keys do not have a high enough validity in the keyring. This flag should be used with care; in general it is not a good idea to use any untrusted keys.

GPGME_ENCRYPT_NO_ENCRYPT_TO
   SINCE: 1.2.0

   The GPGME_ENCRYPT_NO_ENCRYPT_TO symbol specifies that no default or hidden default recipients as configured in the crypto backend should be included. This can be useful for managing different user profiles.

GPGME_ENCRYPT_NO_COMPRESS
   SINCE: 1.5.0

   The GPGME_ENCRYPT_NO_COMPRESS symbol specifies that the plaintext shall not be compressed before it is encrypted. This is in some cases useful if the length of the encrypted message may reveal information about the plaintext.

GPGME_ENCRYPT_PREPARE
GPGME_ENCRYPT_EXPECT_SIGN
   The GPGME_ENCRYPT_PREPARE symbol is used with the UI Server protocol to prepare an encryption (i.e. sending the PREP_ENCRYPT command). With the GPGME_ENCRYPT_EXPECT_SIGN symbol the UI Server is advised to also expect a sign command.

GPGME_ENCRYPT_SYMMETRIC
   SINCE: 1.7.0

   The GPGME_ENCRYPT_SYMMETRIC symbol specifies that the output should be additionally encrypted symmetrically even if recipients are provided. This feature is only supported for
the OpenPGP crypto engine.

GPGME_ENCRYPT_THROW_KEYIDS
SINCE: 1.8.0

The GPGME_ENCRYPT_THROW_KEYIDS symbols requests that the identifiers for the decryption keys are not included in the ciphertext. On the receiving side, the use of this flag may slow down the decryption process because all available secret keys must be tried. This flag is only honored for OpenPGP encryption.

GPGME_ENCRYPT_WRAP
SINCE: 1.8.0

The GPGME_ENCRYPT_WRAP symbol specifies that the input is an OpenPGP message and not a plain data. This is the counterpart to GPGME_DECRYPT_UNWRAP.

GPGME_ENCRYPT_WANT_ADDRESS
SINCE: 1.11.0

The GPGME_ENCRYPT_WANT_ADDRESS symbol requests that all supplied keys or key specifications include a syntactically valid mail address. If this is not the case the operation is not even tried and the error code GPG_ERR_INV_USER_ID is returned. Only the address part of the key specification is conveyed to the backend. As of now the key must be specified using the RECPSTRING argument of the extended encrypt functions. This feature is currently only supported for the OpenPGP crypto engine.

If GPG_ERR_UNUSABLE_PUBKEY is returned, some recipients in RECP are invalid, but not all. In this case the plaintext might be encrypted for all valid recipients and returned in CIPHER (if this happens depends on the crypto engine). More information about the invalid recipients is available with gpgme_op_encrypt_result.

If RECP is NULL, symmetric rather than public key encryption is performed. Symmetrically encrypted cipher text can be deciphered with gpgme_op_decrypt. Note that in this case the crypto backend needs to retrieve a passphrase from the user. Symmetric encryption is currently only supported for the OpenPGP crypto backend.

The function returns the error code GPG_ERR_NO_ERROR if the ciphertext could be created successfully, GPG_ERR_INV_VALUE if CTX, RECP, PLAIN or CIPHER is not a valid pointer, GPG_ERR_UNUSABLE_PUBKEY if RECP contains some invalid recipients,
GPG_ERR_BAD_PASSPHRASE if the passphrase for the symmetric key could not be retrieved, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_encrypt_start (gpgme_ctx_t CTX,
gpgme_key_t RECP[], gpgme_encrypt_flags_t FLAGS,
gpgme_data_t PLAIN, gpgme_data_t CIPHER)
The function gpgme_op_encrypt_start initiates a gpgme_op_encrypt operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::.

References to the keys only need to be held for the duration of this call. The user can release its references to the keys after this function returns, even if the operation is not yet finished.

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, GPG_ERR_INV_VALUE if CTX, RSET, PLAIN or CIPHER is not a valid pointer, and GPG_ERR_UNUSABLE_PUBKEY if RSET does not contain any valid recipients.

-- Function: gpgme_error_t gpgme_op_encrypt_ext (gpgme_ctx_t CTX,
gpgme_key_t RECP[], const char *RECPSTRING,
gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN,
gpgme_data_t CIPHER)

SINCE: 1.11.0

This is an extended version of gpgme_op_encrypt with RECPSTRING as additional parameter. If RECP is NULL and RECPSTRING is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to RECP the keys are given directly as strings and there is no need to first create key objects. Leading and trailing white space is remove from each line in RECPSTRING. The keys are then passed verbatim to the backend engine.

For the OpenPGP backend several special keywords are supported to modify the operation. These keywords are given instead of a key specification. The currently supported keywords are:

--hidden
--no-hidden

These keywords toggle between normal and hidden recipients for all following key specifications. When a hidden recipient is requested the gpg option -R (or -F in file mode) is used instead of -r (-f in file mode).
These keywords toggle between regular and file mode for all following key specification. In file mode the option -f or -F is passed to gpg. At least GnuPG version 2.1.14 is required to handle these options. The GPGME_ENCRYPT_WANT_ADDRESS flag is ignored in file mode.

This keyword disables all keyword detection up to the end of the string. All keywords are treated as verbatim arguments.

To create a RECPSTRING it is often useful to employ a strconcat style function. For example this function creates a string to encrypt to two keys:

```c
char *xbuild_recpstring (const char *key1, const char *key2)
{
    char *result = gpgrt_strconcat ("--
", key1, 
", key2, NULL);
    if (!result)
        { perror ("strconcat failed"); exit (2); }
    return result;
}
```

Note the use of the double dash here; unless you want to specify a keyword, it is a good idea to avoid any possible trouble with key specifications starting with a double dash. The used strconcat function is available in Libgpg-error 1.28 and later; Libgpg-error (aka Gpgrt) is a dependency of GPGME. The number of arguments to gpgrt_strconcat is limited to 47 but that should always be sufficient. In case a larger and non-fixed number of keys are to be supplied the following code can be used:

```c
char *
xbuild_long_recpstring (void)
{
    gpgrt_stream_t memfp;
    const char *s;
    void *result;

    memfp = gpgrt_fopenmem (0, "w+b");
    if (!memfp)
        { perror ("fopenmem failed"); exit (2); }
    gpgrt_fputs ("--", memfp);
    while ((s = get_next_keyspec ()))
    {
        gpgrt_fputc (\n', memfp);
```
In this example get_next_keyspec is expected to return the next key to be added to the string. Please take care: Encrypting to a large number of recipients is often questionable due to security reasons and also for the technicality that all keys are currently passed on the command line to gpg which has as a platform specific length limitation.

-- Function: gpgme_error_t gpgme_op_encrypt_ext_start (gpgme_ctx_t CTX, gpgme_key_t RECP[], const char *RECPSTRING, gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN, gpgme_data_t CIPHER)

SINCE: 1.11.0

This is an extended version of gpgme_op_encrypt_start with RECPSTRING as additional parameter. If RECP is NULL and RECPSTRING is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to RECP the keys are given directly as strings and there is no need to first create key objects. The keys are passed verbatim to the backend engine.

-- Data type: gpgme_encrypt_result_t

This is a pointer to a structure used to store the result of a gpgme_op_encrypt operation. After successfully encrypting data, you can retrieve the pointer to the result with gpgme_op_encrypt_result. The structure contains the following members:

- gpgme_invalid_key_t invalid_recipients
  A linked list with information about all invalid keys for which the data could not be encrypted.

-- Function: gpgme_encrypt_result_t gpgme_op_encrypt_result (gpgme_ctx_t CTX)

The function gpgme_op_encrypt_result returns a gpgme_encrypt_result_t pointer to a structure holding the result of a gpgme_op_encrypt operation. The pointer is only valid if
the last operation on the context was a gpgme_op_encrypt, gpgme_op_encrypt_start, gpgme_op_sign or gpgme_op_sign_start operation. If this operation failed, this might be a NULL pointer. The returned pointer is only valid until the next operation is started on the context.

-- Function: gpgme_error_t gpgme_op_encrypt_sign (gpgme_ctx_t CTX, gpgme_key_t RECP[], gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN, gpgme_data_t CIPHER)
The function gpgme_op_encrypt_sign does a combined encrypt and sign operation. It is used like gpgme_op_encrypt, but the ciphertext also contains signatures for the signers listed in CTX.

The combined encrypt and sign operation is currently only available for the OpenPGP crypto engine.

-- Function: gpgme_error_t gpgme_op_encrypt_sign_start (gpgme_ctx_t CTX, gpgme_key_t RECP[], gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN, gpgme_data_t CIPHER)
The function gpgme_op_encrypt_start initiates a gpgme_op_encrypt_sign operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:::

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if CTX, RSET, PLAIN or CIPHER is not a valid pointer.

-- Function: gpgme_error_t gpgme_op_encrypt_sign_ext (gpgme_ctx_t CTX, gpgme_key_t RECP[], const char *RECPSTRING, gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN, gpgme_data_t CIPHER)
SINCE: 1.11.0

This is an extended version of gpgme_op_encrypt_sign with RECPSTRING as additional parameter. If RECP is NULL and RECPSTRING is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to RECP the keys are given directly as strings and there is no need to first create the key objects. The keys are passed verbatim to the backend engine.

-- Function: gpgme_error_t gpgme_op_encrypt_sign_ext_start (gpgme_ctx_t CTX, gpgme_key_t RECP[], const char *RECPSTRING, gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN, gpgme_data_t CIPHER)
This is an extended version of gpgme_op_encrypt_sign_start with
RECPSTRING as additional parameter. If RECP is NULL and RECPSTRING
is not NULL, the latter is expected to be a linefeed delimited
string with the set of key specifications. In contrast to RECP the
keys are given directly as strings and there is no need to first
create the key objects. The keys are passed verbatim to the
backend engine.

File: gpgme.info, Node: Miscellaneous, Next: Run Control, Prev: Crypto Operations, Up: Contexts

7.8 Miscellaneous operations
=================================

Here are some support functions which are sometimes useful.

* Menu:

* Running other Programs:: Running other Programs
* Using the Assuan protocol:: Using the Assuan protocol
* Checking for updates:: How to check for software updates

File: gpgme.info, Node: Running other Programs, Next: Using the Assuan protocol, Up: Miscellaneous

7.8.1 Running other Programs
----------------------------

GPGME features an internal subsystem to run the actual backend engines.
Along with data abstraction object this subsystem can be used to run
arbitrary simple programs which even need not be related to
cryptographic features. It may for example be used to run tools which
are part of the GnuPG system but are not directly accessible with the
GPGME API.

-- Function: gpgme_error_t gpgme_op_spawn (gpgme_ctx_t CTX,
       const char *FILE, const char *ARGV[], gpgme_data_t DATAIN,
       gpgme_data_t DATAOUT, gpgme_data_t DATAERR,
       unsigned int FLAGS)

SINCE: 1.5.0

The function gpgme_op_spawn runs the program FILE with the
arguments taken from the NULL terminated array ARGV. If no
arguments are required ARGV may be given as NULL. In the latter
case or if argv[0] is the empty string, GPGME uses the basename
of FILE for argv[0]. The file descriptors stdin, stdout, and stderr are connected to the data objects DATAIN, DATAOUT, and DATAERR. If NULL is passed for one of these data objects the corresponding file descriptor is connected to /dev/null.

The value in FLAGS is a bitwise-or combination of one or multiple of the following bit values:

**GPGME_SPAWN_DETACHED**

**SINECE: 1.5.0**

Under Windows this flag inhibits the allocation of a new console for the program. This is useful for a GUI application which needs to call a command line helper tool.

**GPGME_SPAWN_ALLOW_SET_FG**

**SINECE: 1.5.0**

Under Windows this flag allows the called program to put itself into the foreground.

-- Function: gpgme_error_t gpgme_op_spawn_start (gpgme_ctx_t CTX, const char *FILE, const char *ARGV[], gpgme_data_t DATAIN, gpgme_data_t DATAOUT, gpgme_data_t DATAERR, unsigned int FLAGS)

**SINECE: 1.5.0**

This is the asynchronous variant of gpgme_op_spawn.

File: gpgme.info, Node: Using the Assuan protocol, Next: Checking for updates, Prev: Running other Programs, Up: Miscellaneous

7.8.2 Using the Assuan protocol

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

The Assuan protocol can be used to talk to arbitrary Assuan servers. By default it is connected to the GnuPG agent, but it may be connected to arbitrary servers by using gpgme_ctx_set_engine_info, passing the location of the servers socket as FILE_NAME argument, and an empty string as HOME_DIR argument.

The Assuan protocol functions use three kinds of callbacks to transfer data:

-- Data type: gpgme_error_t (gpgme_assuan_data_cb_t) (void *OPAQUE, const void *DATA, size_t DATALEN)
This callback receives any data sent by the server. OPAQUE is the pointer passed to \texttt{gpgme\_op\_assuan\_transact\_start}, DATA of length DATALEN refers to the data sent.

\begin{verbatim}
-- Data type: gpgme\_error\_t (*gpgme\_assuan\_inquire\_cb\_t) (void *OPAQUE, const char *NAME, const char *ARGS, gpgme\_data\_t *R\_DATA)
\end{verbatim}

This callback is used to provide additional data to the Assuan server. OPAQUE is the pointer passed to \texttt{gpgme\_op\_assuan\_transact\_start}, NAME and ARGS specify what kind of data the server requested, and R\_DATA is used to return the actual data.

Note: Returning data is currently not implemented in GPGME.

\begin{verbatim}
-- Data type: gpgme\_error\_t (*gpgme\_assuan\_status\_cb\_t) (void *OPAQUE, const char *STATUS, const char *ARGS)
\end{verbatim}

This callback receives any status lines sent by the server. OPAQUE is the pointer passed to \texttt{gpgme\_op\_assuan\_transact\_start}, STATUS and ARGS denote the status update sent.

\begin{verbatim}
-- Function: gpgme\_error\_t gpgme\_op\_assuan\_transact\_start
 (gpgme\_ctx\_t CTX, const char *COMMAND, gpgme\_assuan\_data\_cb\_t DATA\_CB, void * DATA\_CB\_VALUE, gpgme\_assuan\_inquire\_cb\_t INQUIRE\_CB, void * INQUIRE\_CB\_VALUE, gpgme\_assuan\_status\_cb\_t STATUS\_CB, void * STATUS\_CB\_VALUE)
\end{verbatim}

Send the Assuan COMMAND and return results via the callbacks. Any callback may be NULL. The result of the operation may be retrieved using \texttt{gpgme\_wait\_ext}.

Asynchronous variant.

\begin{verbatim}
-- Function: gpgme\_error\_t gpgme\_op\_assuan\_transact\_ext
 (gpgme\_ctx\_t CTX, const char *COMMAND, gpgme\_assuan\_data\_cb\_t DATA\_CB, void * DATA\_CB\_VALUE, gpgme\_assuan\_inquire\_cb\_t INQUIRE\_CB, void * INQUIRE\_CB\_VALUE, gpgme\_assuan\_status\_cb\_t STATUS\_CB, void * STATUS\_CB\_VALUE)
\end{verbatim}
Send the Assuan COMMAND and return results via the callbacks. The result of the operation is returned in OP_ERR.

Synchronous variant.

File: gpgme.info, Node: Checking for updates, Prev: Using the Assuan protocol, Up: Miscellaneous

7.8.3 How to check for software updates
---------------------------------------

The GnuPG Project operates a server to query the current versions of software packages related to GnuPG. GPGME can be used to access this online database and check whether a new version of a software package is available.

-- Data type: gpgme_query_swdb_result_t
    SINCE: 1.8.0

This is a pointer to a structure used to store the result of a gpgme_op_query_swdb operation. After successful call to that function, you can retrieve the pointer to the result with gpgme_op_query_swdb_result. The structure contains the following member:

name
    This is the name of the package.

iversion
    The currently installed version or an empty string. This value is either a copy of the argument given to gpgme_op_query_swdb or the version of the installed software as figured out by GPGME or GnuPG.

created
    This gives the date the file with the list of version numbers has originally been created by the GnuPG project.

retrieved
    This gives the date the file was downloaded.

warning
    If this flag is set either an error has occurred or some of the information in this structure are not properly set. For example if the version number of the installed software could not be figured out, the update flag may not reflect a
required update status.

update
   If this flag is set an update of the software is available.

urgent
   If this flag is set an available update is important.

noinfo
   If this flag is set, no valid information could be retrieved.

unknown
   If this flag is set the given name is not known.

toold
   If this flag is set the available information is not fresh enough.

terror
   If this flag is set some other error has occurred.

version
   The version string of the latest released version.

terldate
   The release date of the latest released version.

-- Function: gpgme_error_t gpgme_op_query_swdb (gpgme_ctx_t CTX,
   const char *NAME, const char *IVERSION, gpgme_data_t RESERVED)

SINCE: 1.8.0

Query the software version database for software package NAME and check against the installed version given by IVERSION. If IVERSION is given as NULL a check is only done if GPGME can figure out the version by itself (for example when using "gpgme" or "gnupg"). If NULL is used for NAME the current gpgme version is checked. RESERVED must be set to 0.

-- Function: gpgme_query_swdb_result_t gpgme_op_query_swdb_result
   (gpgme_ctxt_t CTX)

SINCE: 1.8.0

The function gpgme_op_query_swdb_result returns a gpgme_query_swdb_result_t pointer to a structure holding the result of a gpgme_op_query_swdb operation. The pointer is only valid if the last operation on the context was a successful call to
gpgme_op_query_swdb. If that call failed, the result might be a
NULL pointer. The returned pointer is only valid until the next
operation is started on the context CTX.

Here is an example on how to check whether GnuPG is current:

#include <gpgme.h>

int
main (void)
{
  gpg_error_t err;
  gpgme_ctx_t ctx;
  gpgme_query_swdb_result_t result;

  gpgme_check_version (NULL);
  err = gpgme_new (&ctx);
  if (err)
    fprintf (stderr, "error creating context: %s\n", gpg_strerror (err));
  else
  {
    gpgme_set_protocol (ctx, GPGME_PROTOCOL_GPGCONF);

    err = gpgme_op_query_swdb (ctx, "gnupg", NULL, 0);
    if (err)
      fprintf (stderr, "error querying swdb: %s\n", gpg_strerror (err));
    else
    {
      result = gpgme_op_query_swdb_result (ctx);
      if (!result)
        fprintf (stderr, "error querying swdb\n");
      if (!result->warning && !result->update)
        printf ("GnuPG version %s is current\n", result->iversion);
      else if (!result->warning && result->update)
        printf ("GnuPG version %s can be updated to %s\n", result->version,
                result->version);
      else
        fprintf (stderr, "error finding the update status\n");
    }
  gpgme_release (ctx);
  }
return 0;
}
7.9 Run Control
===============

GPGME supports running operations synchronously and asynchronously. You can use asynchronous operation to set up a context up to initiating the desired operation, but delay performing it to a later point.

Furthermore, you can use an external event loop to control exactly when GPGME runs. This ensures that GPGME only runs when necessary and also prevents it from blocking for a long time.

* Menu:

  * Waiting For Completion:: Waiting until an operation is completed.
  * Using External Event Loops:: Advanced control over what happens when.
  * Cancellation:: How to end pending operations prematurely.

File: gpgme.info, Node: Waiting For Completion, Next: Using External Event Loops, Up: Run Control

7.9.1 Waiting For Completion
----------------------------

-- Function: gpgme_ctx_t gpgme_wait (gpgme_ctx_t CTX,
    gpgme_error_t *STATUS, int HANG)

The function gpgme_wait continues the pending operation within the context CTX. In particular, it ensures the data exchange between GPGME and the crypto backend and watches over the run time status of the backend process.

If HANG is true, the function does not return until the operation is completed or cancelled. Otherwise the function will not block for a long time.

The error status of the finished operation is returned in STATUS if gpgme_wait does not return NULL.

The CTX argument can be NULL. In that case, gpgme_wait waits for any context to complete its operation.

gpgme_wait can be used only in conjunction with any context that has a pending operation initiated with one of the gpgme_op_*_start functions except gpgme_op_keylist_start and gpgme_op_trustlist_start (for which you should use the corresponding gpgme_op_*_next functions). If CTX is NULL, all of such contexts are waited upon and possibly returned. Synchronous operations running in parallel, as well as key and trust item list operations, do not affect gpgme_wait.
In a multi-threaded environment, only one thread should ever call gpgme_wait at any time, regardless of whether CTX is specified or not. This means that all calls to this function should be fully synchronized by locking primitives. It is safe to start asynchronous operations while a thread is running in gpgme_wait.

The function returns the CTX of the context which has finished the operation. If HANG is false, and the timeout expires, NULL is returned and *status will be set to 0. If an error occurs, NULL is returned and the error is returned in *status.

File: gpgme.info, Node: Using External Event Loops, Next: Cancellation, Prev: Waiting For Completion, Up: Run Control

7.9.2 Using External Event Loops

GPGME hides the complexity of the communication between the library and the crypto engine. The price of this convenience is that the calling thread can block arbitrary long waiting for the data returned by the crypto engine. In single-threaded programs, in particular if they are interactive, this is an unwanted side-effect. OTOH, if gpgme_wait is used without the HANG option being enabled, it might be called unnecessarily often, wasting CPU time that could be used otherwise.

The I/O callback interface described in this section lets the user take control over what happens when. GPGME will provide the user with the file descriptors that should be monitored, and the callback functions that should be invoked when a file descriptor is ready for reading or writing. It is then the users responsibility to decide when to check the file descriptors and when to invoke the callback functions. Usually this is done in an event loop, that also checks for events in other parts of the program. If the callback functions are only called when the file descriptors are ready, GPGME will never block. This gives the user more control over the program flow, and allows to perform other tasks when GPGME would block otherwise.

By using this advanced mechanism, GPGME can be integrated smoothly into GUI toolkits like GTK+ even for single-threaded programs.

* Menu:

* I/O Callback Interface:: How I/O callbacks are registered.
* Registering I/O Callbacks:: How to use I/O callbacks for a context.
* I/O Callback Example:: An example how to use I/O callbacks.
* I/O Callback Example GTK+:: How to use GPGME with GTK+
7.9.2.1 I/O Callback Interface

-- Data type: gpgme_error_t (*gpgme_io_cb_t) (void *DATA, int FD)
   The gpgme_io_cb_t type is the type of functions which GPGME wants
to register as I/O callback handlers using the
   gpgme_register_io_cb_t functions provided by the user.

   DATA and FD are provided by GPGME when the I/O callback handler is
registered, and should be passed through to the handler when it is
invoked by the user because it noticed activity on the file
descriptor FD.

   The callback handler always returns 0, but you should consider
the return value to be reserved for later use.

   -- Data type: gpgme_error_t (*gpgme_register_io_cb_t) (void *DATA,
       int FD, int DIR, gpgme_io_cb_t FNC, void *FNC_DATA,
       void **TAG)
   The gpgme_register_io_cb_t type is the type of functions which
   can be called by GPGME to register an I/O callback function FNC for
   the file descriptor FD with the user. FNC_DATA should be passed as
   the first argument to FNC when the handler is invoked (the second
   argument should be FD). If DIR is 0, FNC should be called by the
   user when FD is ready for writing. If DIR is 1, FNC should be
called when FD is ready for reading.

   DATA was provided by the user when registering the
   gpgme_register_io_cb_t function with GPGME and will always be
   passed as the first argument when registering a callback function.
   For example, the user can use this to determine the event loop to
   which the file descriptor should be added.

   GPGME will call this function when a crypto operation is initiated
   in a context for which the user has registered I/O callback handler
   functions with gpgme_set_io_cbs. It can also call this function
   when it is in an I/O callback handler for a file descriptor
   associated to this context.

   The user should return a unique handle in TAG identifying this I/O
   callback registration, which will be passed to the
   gpgme_register_io_cb_t function without interpretation when the
file descriptor should not be monitored anymore.

-- Data type: void (*gpgme_remove_io_cb_t) (void *TAG)
The gpgme_remove_io_cb_t type is the type of functions which can be called by GPGME to remove an I/O callback handler that was registered before. TAG is the handle that was returned by the gpgme_register_io_cb_t for this I/O callback.

GPGME can call this function when a crypto operation is in an I/O callback. It will also call this function when the context is destroyed while an operation is pending.

-- Data type: enum gpgme_event_io_t
The gpgme_event_io_t type specifies the type of an event that is reported to the user by GPGME as a consequence of an I/O operation.
The following events are defined:

GPGME_EVENT_START
The operation is fully initialized now, and you can start to run the registered I/O callback handlers now. Note that registered I/O callback handlers must not be run before this event is signalled. TYPE_DATA is NULL and reserved for later use.

GPGME_EVENT_DONE
The operation is finished, the last I/O callback for this operation was removed. The accompanying TYPE_DATA points to a struct gpgme_io_event_done_data variable that contains the status of the operation that finished. This event is signalled after the last I/O callback has been removed.

GPGME_EVENT_NEXT_KEY
In a gpgme_op_keylist_start operation, the next key was received from the crypto engine. The accompanying TYPE_DATA is a gpgme_key_t variable that contains the key with one reference for the user.

GPGME_EVENT_NEXT_TRUSTITEM
In a gpgme_op_trustlist_start operation, the next trust item was received from the crypto engine. The accompanying TYPE_DATA is a gpgme_trust_item_t variable that contains the trust item with one reference for the user.

-- Data type: void (*gpgme_event_io_cb_t) (void *DATA,
gpgme_event_io_t TYPE, void *TYPE_DATA)
The gpgme_event_io_cb_t type is the type of functions which can be called by GPGME to signal an event for an operation running in a context which has I/O callback functions registered by the user.
DATA was provided by the user when registering the

gpgme_event_io_cb_t function with GPGME and will always be passed
as the first argument when registering a callback function. For
example, the user can use this to determine the context in which
this event has occurred.

TYPE will specify the type of event that has occurred. TYPE_DATA
specifies the event further, as described in the above list of
possible gpgme_event_io_t types.

GPGME can call this function in an I/O callback handler.

File: gpgme.info, Node: Registering I/O Callbacks, Next: I/O Callback Example, Prev: I/O Callback Interface,
Up: Using External Event Loops

7.9.2.2 Registering I/O Callbacks

-- Data type: struct gpgme_io_cbs

This structure is used to store the I/O callback interface
functions described in the previous section. It has the following
members:

gpgme_register_io_cb_t add
This is the function called by GPGME to register an I/O
callback handler. It must be specified.

void *add_priv
This is passed as the first argument to the add function
when it is called by GPGME. For example, it can be used to
determine the event loop to which the file descriptor should
be added.

gpgme_remove_io_cb_t remove
This is the function called by GPGME to remove an I/O callback
handler. It must be specified.

gpgme_event_io_cb_t event
This is the function called by GPGME to signal an event for an
operation. It must be specified, because at least the start
event must be processed.

void *event_priv
This is passed as the first argument to the event function
when it is called by GPGME. For example, it can be used to
determine the context in which the event has occurred.
-- Function: void gpgme_set_io_cbs (gpgme_ctx_t CTX,
   struct gpgme_io_cbs *IO_CBS)
   The function gpgme_set_io_cbs enables the I/O callback interface
   for the context CTX. The I/O callback functions are specified by
   IO_CBS.

   If IO_CBS->add is NULL, the I/O callback interface is disabled
   for the context, and normal operation is restored.

-- Function: void gpgme_get_io_cbs (gpgme_ctx_t CTX,
   struct gpgme_io_cbs *IO_CBS)
   The function gpgme_get_io_cbs returns the I/O callback functions
   set with gpgme_set_io_cbs in IO_CBS.

File: gpgme.info, Node: I/O Callback Example, Next: I/O Callback Example GTK+, Prev: Registering I/O
   Callbacks, Up: Using External Event Loops

7.9.2.3 I/O Callback Example

............................

To actually use an external event loop, you have to implement the I/O
   callback functions that are used by GPGME to register and unregister
   file descriptors. Furthermore, you have to actually monitor these file
   descriptors for activity and call the appropriate I/O callbacks.

   The following example illustrates how to do that. The example uses
   locking to show in which way the callbacks and the event loop can run
   concurrently. For the event loop, we use a fixed array. For a
   real-world implementation, you should use a dynamically sized structure
   because the number of file descriptors needed for a crypto operation in
   GPGME is not predictable.

   #include <assert.h>
   #include <errno.h>
   #include <stdlib.h>
   #include <pthread.h>
   #include <sys/types.h>
   #include <gpgme.h>

   /* The following structure holds the result of a crypto operation. */
   struct op_result
   {
   int done;
   gpgme_error_t err;
   
   };
/* The following structure holds the data associated with one I/O callback. */
struct one_fd
{
    int fd;
    int dir;
    gpgme_io_cb_t fnc;
    void *fnc_data;
    void *loop;
};

struct event_loop
{
    pthread_mutex_t lock;
#define MAX_FDS 32
    /* Unused slots are marked with FD being -1. */
    struct one_fd fds[MAX_FDS];
};

The following functions implement the I/O callback interface.

gpgme_error_t
add_io_cb (void *data, int fd, int dir, gpgme_io_cb_t fnc, void *fnc_data,
           void **r_tag)
{
    struct event_loop *loop = data;
    struct one_fd *fds = loop->fds;
    int i;

    pthread_mutex_lock (&loop->lock);
    for (i = 0; i < MAX_FDS; i++)
    {
        if (fds[i].fd == -1)
        {
            fds[i].fd = fd;
            fds[i].dir = dir;
            fds[i].fnc = fnc;
            fds[i].fnc_data = fnc_data;
            fds[i].loop = loop;
            break;
        }
    }
    pthread_mutex_unlock (&loop->lock);
    if (i == MAX_FDS)
        return gpg_error (GPG_ERR_GENERAL);
    *r_tag = &fds[i];
    return 0;
}
void
remove_io_cb (void *tag)
{
    struct one_fd *fd = tag;
    struct event_loop *loop = fd->loop;

    pthread_mutex_lock (&loop->lock);
    fd->fd = -1;
    pthread_mutex_unlock (&loop->lock);
}

void
event_io_cb (void *data, gpgme_event_io_t type, void *type_data)
{
    struct op_result *result = data;

    /* We don't support list operations here. */
    if (type == GPGME_EVENT_DONE)
    {
        result->done = 1;
        result->err = *type_data;
    }
}

The final missing piece is the event loop, which will be presented
next. We only support waiting for the success of a single operation.

int
do_select (struct event_loop *loop)
{
    fd_set rfds;
    fd_set wfds;
    int i, n;
    int any = 0;
    struct timeval tv;
    struct one_fd *fdlist = loop->fds;

    pthread_mutex_lock (&loop->lock);
    FD_ZERO (&rfds);
    FD_ZERO (&wfds);
    for (i = 0; i < MAX_FDS; i++)
        if (fdlist[i].fd != -1)
            FD_SET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds);
    pthread_mutex_unlock (&loop->lock);

    tv.tv_sec = 0;
    tv.tv_usec = 1000;
# Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

```c
int main (int argc, char *argv[]) {
    do {
        n = select (FD_SETSIZE, &rfds, &wfds, NULL, &tv);
    } while (n < 0 && errno == EINTR);

    if (n < 0) return n;/* Error or timeout. */

    pthread_mutex_lock (&loop->lock);
    for (i = 0; i < MAX_FDS && n; i++) {
        if (fdlist[i].fd != -1) {
            if (FD_ISSET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds)) {
                assert (n);
                n--;
                any = 1;

                /* The I/O callback handler can register/remove callbacks,
                 * so we have to unlock the file descriptor list. */
                pthread_mutex_unlock (&loop->lock);
                (*fdlist[i].fnc) (fdlist[i].fnc_data, fdlist[i].fd);
                pthread_mutex_lock (&loop->lock);
            }
        }
    }
    pthread_mutex_unlock (&loop->lock);
    return any;
}

void wait_for_op (struct event_loop *loop, struct op_result *result) {
    int ret;

    do {
        ret = do_select (loop);
    } while (ret >= 0 && !result->done);
}

The main function shows how to put it all together.

int main (int argc, char *argv[]) {
    "}
{  
struct event_loop loop;
struct op_result result;
gpgme_ctx_t ctx;
gpgme_error_t err;
gpgme_data_t sig, text;
int i;
pthread_mutexattr_t attr;
struct gpgme_io_cbs io_cbs =
{
  add_io_cb,  
  &loop,  
  remove_io_cb,  
  event_io_cb,  
  &result
};

init_gpgme ();

/* Initialize the loop structure. */

/* The mutex must be recursive, since remove_io_cb (which acquires a  
lock) can be called while holding a lock acquired in do_select. */
pthread_mutexattr_init (&attr);
pthread_mutexattr_settype (&attr, PTHREAD_MUTEX_RECURSIVE);
pthread_mutex_init (&loop.lock, &attr);
pthread_mutexattr_destroy (&attr);

for (i = 0; i < MAX_FDS; i++)
  loop.fds[i].fd = -1;

/* Initialize the result structure. */
result.done = 0;

err = gpgme_data_new_from_file (&sig, "signature", 1);
if (!err)
  err = gpgme_data_new_from_file (&text, "text", 1);
if (!err)
  err = gpgme_new (&ctx);
if (!err)
  
  gpgme_set_io_cbs (ctx, &io_cbs);
  err = gpgme_op_verify_start (ctx, sig, text, NULL);
}
if (err)
  
  fprintf (stderr, "gpgme error: %s: %s\n",  
            gpgme_strerror (err), gpgme_strsource (err), gpgme_strerror (err));
```c
exit (1);
}

wait_for_op (&loop, &result);
if (!result.done)
{
    fprintf (stderr, "select error\n");
    exit (1);
}
if (!result.err)
{
    fprintf (stderr, "verification failed: %s: %s\n",
            gpgme_strsource (result.err), gpgme_strerror (result.err));
    exit (1);
}
/* Evaluate verify result. */
...
return 0;
}
```

The I/O callback interface can be used to integrate GPGME with the GTK+ event loop. The following code snippets shows how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any GTK+ specific setup.

```
#include <gtk/gtk.h>

struct my_gpgme_io_cb
{
    gpgme_io_cb_t fnc;
    void *fnc_data;
    guint input_handler_id
};

void
my_gpgme_io_cb (gpointer data, gint source, GdkInputCondition condition)
{
    struct my_gpgme_io_cb *iocb = data;
    (*iocb->fnc) (iocb->data, source);
```
The I/O callback interface can also be used to integrate GPGME with the GDK event loop. The following code snippets show how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any GDK specific setup.

It is very similar to the GTK+ example in the previous section.

```c
#include <gdk/gdk.h>

struct my_gpgme_io_cb
{
    gpgme_io_cb_t fnc;
    void *fnc_data;
    gint tag;
};

void
my_gpgme_remove_io_cb (void *data)
{
    struct my_gpgme_io_cb *iocb = data;
    gtk_input_remove (data->input_handler_id);
}

void
my_gpgme_register_io_callback (void *data, int fd, int dir, gpgme_io_cb_t fnc,
    void *fnc_data, void **tag)
{
    struct my_gpgme_io_cb *iocb = g_malloc (sizeof (struct my_gpgme_io_cb));
    iocb->fnc = fnc;
    iocb->data = fnc_data;
    iocb->input_handler_id = gtk_input_add_full (fd, dir
        ? GDK_INPUT_READ
        : GDK_INPUT_WRITE,
        my_gpgme_io_callback,
        0, iocb, NULL);

    *tag = iocb;
    return 0;
}
```

The I/O callback interface can also be used to integrate GPGME with the Qt event loop. The following code snippets show how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any Qt specific setup.

```c
#include <qsocketnotifier.h>
#include <qapplication.h>

struct IOCB {
    IOCB( GpgmeIOCb f, void * d, QSocketNotifier * n )
};

void
my_gpgme io cb ( gpointer data, gint source, GdkInputCondition condition )
{
    struct my_gpgme io cb *iocb = data;
    (*(iocb->fnc)) (iocb->data, source);
}

void
my_gpgme remove io cb ( void *data )
{
    struct my_gpgme io cb *iocb = data;
    gdk_input_remove (data->tag);
}

void
my_gpgme register io callback ( void *data, int fd, int dir, gpgme io cb_t fnc, void *fnc data, void **tag )
{
    struct my_gpgme io cb *iocb = g_malloc (sizeof (struct my_gpgme io cb));
    iocb->fnc = fnc;
    iocb->data = fnc_data;
    iocb->tag = gtk_input_add_full (fd, dir ? GDK_INPUT_READ : GDK_INPUT_WRITE,
        my_gpgme io callback, iocb, NULL);
    *tag = iocb;
    return 0;
}
```

class MyApp : public QApplication {

    // ...

    static void registerGpgmeIOCallback( void * data, int fd, int dir,
        GpgmeIOCb func, void * func_data,
        void ** tag ) {
        QSocketNotifier * n =
            new QSocketNotifier( fd, dir ? QSocketNotifier::Read
                : QSocketNotifier::Write );
        connect( n, SIGNAL(activated(int)),
            qApp, SLOT(slotGpgmeIOCallback(int)) );
        qApp->mIOCBs.push_back( IOCB( func, func_data, n ) );
        *tag = (void*)n;
    }

    static void removeGpgmeIOCallback( void * tag ) {
        if ( tag ) return;
        QSocketNotifier * n = static_cast<QSocketNotifier*>( tag );
        for ( QValueList<IOCB>::iterator it = qApp->mIOCBs.begin() ;
            it != qApp->mIOCBs.end() ; ++it )
            if ( it->notifier == n ) {
                delete it->notifier;
                qApp->mIOCBs.erase( it );
                return;
            }
    }

public slots:
    void slotGpgmeIOCallback( int fd ) {
        for ( QValueList<IOCB>::const_iterator it = mIOCBs.begin() ;
            it != mIOCBs.end() ; ++it )
            if ( it->notifier && it->notifier->socket() == fd )
                ((*it->func)) ( it->func_data, fd );
    }

    // ...

private:
    QValueList<IOCB> mIOCBs;
    // ...
};
7.9.3 Cancellation

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

Sometimes you do not want to wait for an operation to finish. GPGME provides two different functions to achieve that. The function `gpgme_cancel` takes effect immediately. When it returns, the operation is effectively canceled. However, it has some limitations and can not be used with synchronous operations. In contrast, the function `gpgme_cancel_async` can be used with any context and from any thread, but it is not guaranteed to take effect immediately. Instead, cancellation occurs at the next possible time (typically the next time I/O occurs in the target context).

-- Function: gpgme_ctx_t gpgme_cancel (gpgme_ctx_t CTX)
SINCE: 0.4.5

The function `gpgme_cancel` attempts to cancel a pending operation in the context CTX. This only works if you use the global event loop or your own event loop.

If you use the global event loop, you must not call `gpgme_wait` during cancellation. After successful cancellation, you can call `gpgme_wait` (optionally waiting on CTX), and the context CTX will appear as if it had finished with the error code GPG_ERR_CANCEL.

If you use an external event loop, you must ensure that no I/O callbacks are invoked for this context (for example by halting the event loop). On successful cancellation, all registered I/O callbacks for this context will be unregistered, and a GPGME_EVENT_DONE event with the error code GPG_ERR_CANCEL will be signalled.

The function returns an error code if the cancellation failed (in this case the state of CTX is not modified).

-- Function: gpgme_ctx_t gpgme_cancel_async (gpgme_ctx_t CTX)
SINCE: 1.1.7

The function `gpgme_cancel_async` attempts to cancel a pending operation in the context CTX. This can be called by any thread at any time after starting an operation on the context, but will not take effect immediately. The actual cancellation happens at the next time GPGME processes I/O in that context.
The function returns an error code if the cancellation failed (in this case the state of CTX is not modified).

Appendix A The GnuPG UI Server Protocol
***************************************
This section specifies the protocol used between clients and a User Interface Server (UI server). This protocol helps to build a system where all cryptographic operations are done by a server and the server is responsible for all dialogs. Although GPGME has no direct support for this protocol it is believed that servers will utilize the GPGME library; thus having the specification included in this manual is an appropriate choice. This protocol should be referenced as The GnuPG UI Server Protocol.

A server needs to implement these commands:(1)

* Menu:

* UI Server Encrypt:: Encrypt a message.
* UI Server Sign:: Sign a message.
* UI Server Decrypt:: Decrypt a message.
* UI Server Verify:: Verify a message.
* UI Server Set Input Files:: Specifying the input files to operate on.
* UI Server Sign/Encrypt Files:: Encrypting and signing files.
* UI Server Verify/Decrypt Files:: Decrypting and verifying files.
* UI Server Import/Export Keys:: Managing certificates.
* UI Server Checksum Files:: Create and verify checksums for files.
* Miscellaneous UI Server Commands:: Commands not related to a specific operation.

----------- Footnotes -----------

(1) In all examples we assume that the connection has already been established; see the Assuan manual for details.

A.1 UI Server: Encrypt a Message
===============================

Before encryption can be done the recipients must be set using the command:

-- Command: RECIPIENT STRING
Set the recipient for the encryption. STRING is an RFC-2822 recipient name ("mailbox" as per section 3.4). This command may or may not check the recipient for validity right away; if it does not all recipients are expected to be checked at the time of the ENCRYPT command. All RECIPIENT commands are cumulative until a successful ENCRYPT command or until a RESET command. Linefeeds are obviously not allowed in STRING and should be folded into spaces (which are equivalent).

To tell the server the source and destination of the data, the next two commands are to be used:

-- Command: INPUT FD=N  
Set the file descriptor for the message to be encrypted to N. The message send to the server is binary encoded.

GpgOL is a Windows only program, thus N is not a libc file descriptor but a regular system handle. Given that the Assuan connection works over a socket, it is not possible to use regular inheritance to make the file descriptor available to the server. Thus DuplicateHandle needs to be used to duplicate a handle to the server process. This is the reason that the server needs to implement the GETINFO pid command. Sending this command a second time replaces the file descriptor set by the last one.

-- Command: OUTPUT FD=N [--binary]  
Set the file descriptor to be used for the output (i.e. the encrypted message) to N. If the option --binary is given the output shall be in binary format; if not given, the output for OpenPGP needs to be ASCII armored and for CMS Base-64 encoded. For details on the file descriptor, see the INPUT command.

The setting of the recipients, the data source and destination may happen in any order, even intermixed. If this has been done the actual encryption operation is called using:

-- Command: ENCRYPT --protocol=NAME  
This command reads the plaintext from the file descriptor set by the INPUT command, encrypts it and writes the ciphertext to the file descriptor set by the OUTPUT command. The server may (and should) overlap reading and writing. The recipients used for the encryption are all the recipients set so far. If any recipient is not usable the server should take appropriate measures to notify the user about the problem and may cancel the operation by returning an error code. The used file descriptors are void after this command; the recipient list is only cleared if the server
Because GpgOL uses a streaming mode of operation the server is not allowed to auto select the protocol and must obey to the mandatory PROTOCOL parameter:

OpenPGP
   Use the OpenPGP protocol (RFC-2440).

CMS
   Use the CMS (PKCS#7) protocol (RFC-3852).

To support automagically selection of the protocol depending on the selected keys, the server MAY implement the command:

-- Command: PREP_ENCRYPT [--protocol=NAME] [--expect-sign]

This commands considers all recipients set so far and decides whether it is able to take input and start the actual encryption. This is kind of a dry-run ENCRYPT without requiring or using the input and output file descriptors. The server shall cache the result of any user selection to avoid asking this again when the actual ENCRYPT command is send. The --protocol option is optional; if it is not given, the server should allow the user to select the protocol to be used based on the recipients given or by any other means.

If --expect-sign is given the server should expect that the message will also be signed and use this hint to present a unified recipient and signer selection dialog if possible and desired. A selected signer should then be cached for the expected SIGN command (which is expected in the same session but possible on another connection).

If this command is given again before a successful ENCRYPT command, the second one takes effect.

Before sending the OK response the server shall tell the client the protocol to be used (either the one given by the argument or the one selected by the user) by means of a status line:

-- Status line: PROTOCOL NAME
   Advise the client to use the protocol NAME for the ENCRYPT command. The valid protocol names are listed under the description of the ENCRYPT command. The server shall emit exactly one PROTOCOL status line.

Here is an example of a complete encryption sequence; client lines are indicated by a C:, server responses by C::
The server needs to implement opaque signing as well as detached signing. Due to the nature of OpenPGP messages it is always required to send the entire message to the server; sending just the hash is not possible. The following two commands are required to set the input and output file descriptors:

-- Command: INPUT FD=N
Set the file descriptor for the message to be signed to N. The message send to the server is binary encoded. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

-- Command: OUTPUT FD=N [--binary]
Set the file descriptor to be used for the output. The output is either the complete signed message or in case of a detached signature just that detached signature. If the option --binary is given the output shall be in binary format; if not given, the output for OpenPGP needs to be ASCII armored and for CMS Base-64 encoded. For details on the file descriptor, see the INPUT command.

To allow the server the selection of a non-default signing key the client may optionally use the SENDER command, see *note command SENDER::.
The signing operation is then initiated by:

-- Command: SIGN --protocol=NAME [--detached]
Sign the data set with the INPUT command and write it to the sink set by OUTPUT. NAME is the signing protocol used for the message. For a description of the allowed protocols see the ENCRYPT command. With option --detached given, a detached signature is created; this is actually the usual way the command is used.

The client expects the server to send at least this status information before the final OK response:

-- Status line: MICALG STRING
The STRING represents the hash algorithm used to create the signature. It is used with RFC-1847 style signature messages and defined by PGP/MIME (RFC-3156) and S/MIME (RFC-3851). The GPGME library has a supporting function gpgme_hash_algo_name to return the algorithm name as a string. This string needs to be lowercased and for OpenPGP prefixed with "pgp-".

The client expects the server to send at least this status information before the final OK response:

-- Status line: MICALG STRING
The STRING represents the hash algorithm used to create the signature. It is used with RFC-1847 style signature messages and defined by PGP/MIME (RFC-3156) and S/MIME (RFC-3851). The GPGME library has a supporting function gpgme_hash_algo_name to return the algorithm name as a string. This string needs to be lowercased and for OpenPGP prefixed with "pgp-".


A.3 UI Server: Decrypt a Message
================================

Decryption may include the verification of OpenPGP messages. This is due to the often used combined signing/encryption modus of OpenPGP. The client may pass an option to the server to inhibit the signature verification. The following two commands are required to set the input and output file descriptors:

-- Command: INPUT FD=N
Set the file descriptor for the message to be decrypted to N. The message send to the server is either binary encoded or in the case of OpenPGP ASCII armored. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

-- Command: OUTPUT FD=N
Set the file descriptor to be used for the output. The output is binary encoded. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

The decryption is started with the command:

-- Command: DECRYPT --protocol=NAME [--no-verify]
NAME is the encryption protocol used for the message. For a description of the allowed protocols see the ENCRYPT command. This argument is mandatory. If the option --no-verify is given, the server should not try to verify a signature, in case the input data is an OpenPGP combined message. If the option --export-session-key is given and the underlying engine knows how to export the session key, it will appear on a status line.
The following are all the past *What's New* sections for the Python Bindings HOWTO and other documentation.

* What Was New in GPGME 1120:

The most obviously new point for those reading this guide is this section on other new things, but that's hardly important. Not given all the other things which spurred the need for adding this section and its subsections.

* New in GPGME 1120:

There have been quite a number of additions to GPGME and the Python bindings to it since the last release of GPGME with versions 1.11.0 and 1.11.1 in April, 2018.

The bullet points of new additions are:

- an expanded section on @uref{gpgme-python-howto#installation, installing} and @uref{gpgme-python-howto#snafu, troubleshooting} the Python
The release of Python 3.7.0; which appears to be working just fine with our bindings, in spite of intermittent reports of problems for many other Python projects with that new release.

Python 3.7 has been moved to the head of the specified python versions list in the build process.

In order to fix some other issues, there are certain underlying functions which are more exposed through the @uref{gpgme-python-howto#howto-get-context, gpg.Context()}, but ongoing documentation ought to clarify that or otherwise provide the best means of using the bindings. Some additions to @samp{gpg.core} and the @samp{Context()}, however, were intended (see below).

Continuing work in identifying and confirming the cause of oft-reported @uref{gpgme-python-howto#snafu-runtime-not-funtime, problems installing the Python bindings on Windows}.

GSOC: Google's Surreptitiously Ordered Conscription @dots{} erm @dots{} oh, right; Google's Summer of Code. Though there were two hopeful candidates this year; only one ended up involved with the GnuPG Project directly, the other concentrated on an unrelated third party project with closer ties to one of the GNU/Linux distributions than to the GnuPG Project. Thus the Python bindings benefited from GSOC participant Jacob Adams, who added the key@math{_import} function; building on prior work by Tobias Mueller.

Several new methods functions were added to the gpg.Context(), including: @uref{gpgme-python-howto#howto-import-key, key@math{_import}}}, @uref{gpgme-python-howto#howto-export-key, key@math{_export}}}, @uref{gpgme-python-howto#howto-export-public-key, key@math{_export}@math{_minimal}}] and @uref{gpgme-python-howto#howto-export-secret-key, key@math{_export}@math{_secret}}].

Importing and exporting examples include versions integrated with Marcel Fest's recently released @uref{https://github.com/Selfnet/hkp4py, HKP for Python} module. Some @uref{gpgme-python-howto#hkp4py, additional notes on this module} are included at the end of the HOWTO.

Instructions for dealing with semi-walled garden implementations like ProtonMail are also included. This is intended to make things a little easier when communicating with users of ProtonMail's services and should not be construed as an endorsement of said service. The GnuPG Project neither favours, nor disfavours ProtonMail and the majority of this deals with interacting with the ProtonMail keyserver.

Semi-formalised the location where @uref{gpgme-python-howto#draft-editions, draft versions} of this HOWTO may
periodically be accessible. This is both for the reference of others and testing the publishing of the document itself. Renamed this file at around the same time.

@item
The Texinfo documentation build configuration has been replicated from the parent project in order to make to maintain consistency with that project (and actually ship with each release).

@item
a reStructuredText (@samp{.rst}) version is also generated for Python developers more used to and comfortable with that format as it is the standard Python documentation format and Python developers may wish to use it with Sphinx. Please note that there has been no testing of the reStructuredText version with Sphinx at all. The reST file was generated by the simple expedient of using @uref{https://pandoc.org/, Pandoc}.

@item
Added a new section for @uref{gpgme-python-howto#advanced-use, advanced or experimental use}.

@item
Began the advanced use cases with @uref{gpgme-python-howto#cython, a section} on using the module with @uref{https://cython.org/, Cython}.

@item
Added a number of new scripts to the @samp{example/howto/} directory; some of which may be in advance of their planned sections of the HOWTO (and some are just there because it seemed like a good idea at the time).

@item
Cleaned up a lot of things under the hood.

@end itemize

@end

Additional license notices for GPGME.

This file contains the copying permission notices for various files in the GPGME distribution which are not covered by the GNU Lesser General Public License (LGPL) or the GNU General Public License (GPL).

These notices all require that a copy of the notice be included in the accompanying documentation and be distributed with binary distributions of the code, so be sure to include this file along with any binary distributions derived from the GNU C Library.

* MIT License

For files:
- cJSON.c, cJSON.h

#+begin_quote
Copyright (c) 2009 Dave Gamble
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a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
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LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2011-10-25 Marcus Brinkmann <marcus@g10code.com>

* m4/pth.m4: Removed.
* configure.ac: Remove check for pth and automake conditional
  HAVE_PTH.

2011-06-16 Marcus Brinkmann <marcus@g10code.com>

Release 1.3.1

* configure.ac: Set LT version to C19/A8/R0.

2011-05-06 Marcus Brinkmann <marcus@g10code.com>

* Makefile.am (SUBDIRS): Remove complus.
* configure.ac (AC_CONFIG_FILES): Remove complus/Makefile.
  (BUILD_COMPLUS): Remove AM_CONDITIONAL.
* complus/: Remove very old and stale component.
* acinclude.m4 (GNUPG_FIX_HDR_VERSION): Remove.
2011-04-14 Werner Koch <wk@g10code.com>

* configure.ac: Require automake 1.11.

2011-04-06 Werner Koch <wk@g10code.com>

* autogen.sh (--build-w32): Support option --build-w64.
* configure.ac (HAVE_W64_SYSTEM): Define.
* (INSERT__TYPEDEFS_FOR_GPGME_H): New.
* (GPGME_CONFIG_HOST): New.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

* configure.ac (NEED_LIBASSUAN_VERSION): Bump to 2.0.2 for system hooks.

2010-12-30 Werner Koch <wk@g10code.com>

* configure.ac: Support a git revision.

2010-11-03 Werner Koch <wk@g10code.com>

* configure.ac (AC_CHECK_HEADERS): Check for sys/types.h and sys/stat.h.

2010-11-02 Werner Koch <wk@g10code.com>

* configure.ac (AC_CHECK_HEADERS): Check for sys/time.h.

2010-08-19 Werner Koch <wk@g10code.com>

* configure.ac (AH_BOTTOM): Define GPG_ERR_ENABLE_ERRNO_MACROS.

2010-05-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for setlocale.

2010-05-07 Werner Koch <wk@g10code.com>

* configure.ac: Change checks to always require libassuan.

2010-05-07 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh: Update the thing.

* configure.ac: Check for locale.h.

2010-05-06 Marcus Brinkmann <marcus@g10code.de>
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 1920

* configure.ac: Detect Windows CE.
(HAVE_W32CE_SYSTEM): New symbol and automake conditional.
* ltmain.sh, m4/libtool.m4: Patch so that it works for Windows CE.

* configure.ac: Require libgpg-error 1.8.

2010-03-15 Werner Koch <wk@g10code.com>

* configure.ac (emacs_local_vars_begin)
(emacs_local_vars_read_only, emacs_local_vars_end): New.

2010-01-22 Werner Koch <wk@g10code.com>

* autogen.sh (--build-w32): Add --with-libassuan-prefix.

2010-01-11 Marcus Brinkmann <marcus@g10code.de>

Release 1.3.0.

2009-12-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Do not use echo -n. Test for __thread.

2009-12-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Make largefile check more robust.

2009-12-10 Werner Koch <wk@g10code.com>

* configure.ac: Check for getgid and getegid.

2009-12-08 Marcus Brinkmann <marcus@g10code.de>

Update to libtool 2.2.6a.
* configure.ac: Invoke AC_CONFIG_MACRO_DIR.
(AC_LIBTOOL_WIN32_DLL, AC_LIBTOOL_RC): Replace by ...
(LT_PREREQ, LT_INIT, LT_LANG): ... these.
* config.guess, config.sub, install-sh, ltmain.sh, m4/libtool.m4:
Updated to libtool 2.2.6a.
* m4/ltoptions.m4, m4/ltsugar.m4, m4/ltversion.m4,
m4/lt~obsolete.m4: New files from libtool 2.2.6a.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Activate UIServer if FD passing is enabled and
Assuan is available.
2009-10-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for argp.h and error_t.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION_DEFAULT): Bump to 1.4.0 as 1.3.0
  was development versions only.

2009-10-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add support for G13.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_CONFIG_FILES): Remove assuan/Makefile.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Replace internal libassuan by external libassuan.
  * Makefile.am (assuan): Remove variable.
    (SUBDIRS): Remove \$[assuan].
  * assuan/: Removed.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add AC_TYPE_UINTPTR_T.

* assuan/assuan.h [_ASSUAN_IN_GPGME_BUILD_ASSUAN]: Declare
  _gpgme_io_connect.

2009-06-18 Marcus Brinkmann <marcus@g10code.de>

Released GPGME 1.2.0.

* configure.ac (my_version): Set to 1.2.0.
  (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump.
  (LIBGPGME_LT_REVISION): Reset.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add infrastructure for compile time check of
  _FILE_OFFSET_BITS.

2009-04-19 Moritz <moritz@gnu.org>

2009-03-06 Marcus Brinkmann <marcus@g10code.de>

* assuan/: Update to libassuan SVN 2009-03-06.

2009-01-26 Werner Koch <wk@g10code.com>

* configure.ac (AC_CONFIG_FILES): Add tests/opassuan/Makefile.

2008-12-08 Marcus Brinkmann <marcus@g10code.de>

Release GPGME 1.1.8.

* configure.ac: Bump API revision.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

* configure.ac: Replace gpgme paths with src.
  * gpgme: Move to ...
  * src: ... this new directory.

2008-10-20 Werner Koch <wk@g10code.com>

* configure.ac (AC_CONFIG_FILES): Add gpgme.h.
(GNUPG_FIX_HDR_VERSION): Remove.

2008-10-17 Marcus Brinkmann <marcus@g10code.com>

Release GPGME 1.1.7.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2008-09-19 Moritz <moritz@gnu.org>

* configure.ac: Remove bogus "esac".

2008-09-16 Marcus Brinkmann <marcus@g10code.com>

* configure.ac (_XOPEN_SOURCE) [apple-darwin]: Define it.

2008-07-04 Werner Koch <wk@g10code.com>

* config.guess, config.sub: Update to 2007-11-19. Also update missing et al scripts.

2008-04-01 Werner Koch <wk@g10code.com>

* configure.ac (AC_INIT): Fix quoting.
2008-01-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump required version of automake up to 1.10.
* autogen.sh: Fix aclocal check.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

Release GPGME 1.1.6.

* configure.ac: Support gpgconf.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* assuan-pipe-connect.c (pipe_connect_gpgme): Do not close process handle here. Use this function also on Unix systems.

* assuan-pipe-connect.c (pipe_connect_gpgme): Fix last change.

* assuan-pipe-connect.c (pipe_connect_gpgme): New function, use it if _ASSUAN_IN_GPGME_BUILD_ASSUAN.

2007-09-17 Werner Koch <wk@g10code.com>

* configure.ac: Use the svn version magic.

2007-09-07 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for C++, Qt and support --enable-w32-qt.

2007-08-21 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (--enable-w32-glib): Use --enableval, not --withval.

2007-07-16 Marcus Brinkmann <marcus@g10code.de>

* assuan/assuan-socket.c (_assuan_close): Always use close().
* assuan/assuan.h (_gpgme_io_close): New prototype.
  (close): New macro, define as _gpgme_io_close.

2007-07-13 Marcus Brinkmann <marcus@g10code.de>

* assuan/assuan-io.c (_assuan_simple_read, _assuan_simple_write): Always use read/write (which means _gpgme_io_read and _gpgme_io_write).
2007-07-09 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.5.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2007-07-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (GPGSM_DEFAULT) [*-mingw32*]: Initialize it.
(HAVE_ASSUAN_H): Set to 1 if we have it.
(funopen): Use AC_REPLACE_FUNCS.
(USE_DESCRIPTOR_PASSING): Define to 1 if we have it. Do not define it at all if we don't.
(NETLIBS) [have_w32_system]: Add -lws2_32.
(DIRSEP_C, DIRSEP_S, EXPSEP_C, EXPSEP_S, PATHSEP_S)
[HAVE_DOSISH_SYSTEM]: Remove definitions.

* assuan/assuan.h (_assuan_funopen): Define to _gpgme_funopen.
* assuan/funopen.c: Move to ../gpgme/funopen.c.
* assuan/Makefile.am (libassuan_la_SOURCES): Remove funopen.c.

2007-07-04 Marcus Brinkmann <marcus@g10code.de>

* assuan/Makefile.am (INCLUDES): Include $(top_srcdir)/gpgme.
* assuan/assuan.h: Include <ath.h> instead of trying to duplicate the definitions.

* assuan/: Update files to 2007-07-04 version of assuan.

* autogen.sh: Use = not == in test.

2007-03-05 Werner Koch <wk@g10code.com>

Released 1.1.4.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

* autogen.sh: New option --force.

2007-01-29 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.3.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2007-01-26 Werner Koch <wk@g10code.com>

* configure.ac: Changed gpg and gpgsm version checks to work with
arbitrary names of the gpg binary. New option --disable-gpg-test
and --disable-gpgsm-test.

2007-01-09 Werner Koch <wk@g10code.com>

* configure.ac (NEED_GPG_VERSION, NEED_GPGSM_VERSION): Must define
after it may have been changed by an option.

2007-01-08 Werner Koch <wk@g10code.com>

* configure.ac: Require gpg-error 1.4 due to the use of
gpg_error_from_syserror.
(HAVE_ASSUAN_H): New.

2007-01-05 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add options --with-gpg-version and
--with-gpgsm-version to allow overriding the minimum version
requirements.

2006-12-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Fix two typos in last change.

2006-12-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Use descriptor passing only if --enable-fd-passing
is provided.

* configure.ac: Add check for use of descriptor passing.

2006-11-29 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION): Bump to 1.3.0.

2006-09-19 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Turn stpcpy into a replacement function.
Check for unistd.h and add setenv as replacement function.

2006-07-29 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for network libraries and set NETLIBS.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

* lang, lang/cl: New subdirectories.
* lang/Makefile.am, lang/README: New files.
* configure.ac (AC_CONFIG_FILES): Add lang/Makefile, lang/cl/Makefile and lang/cl/gpgme.asd.

* Makefile.am (SUBDIRS): Add lang.

2006-03-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.1.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump for release.
(LIBGPGME_LT_REVISION): Reset to 0 for release.

2006-01-05 Werner Koch <wk@g10code.com>

* configure.ac: Test for inline feature.
(AH_BOTTOM): New to define the pure attribute.

2006-01-03 Werner Koch <wk@g10code.com>

* configure.ac: Append SVN revision to the version.

2005-11-18 Werner Koch <wk@g10code.com>

* configure.ac (BUILD_REVISION): New.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add support for --enable-w32-glib (disabled by default). Invoke AM_PATH_GLIB_2_0.

2005-11-16 Werner Koch <wk@g10code.com>

* configure.ac (CFLAGS) [W32]: Make sure that -mms-bitfields are used.

2005-11-15 Werner Koch <wk@g10code.com>

* configure.ac: Create BUILD_FILEVERSION from SVN Revision.

* autogen.sh [W32]: Build shared and static versions of the library.

2005-10-20 Marcus Brinkmann <marcus@g10code.de>

* w32-dll/ChangeLog, w32-dll/build-dll, w32-dll/gpgme.def: Remove files.
* configure.ac: Instead checking for windres and dlltool, invoke
  AC_LIBTOOL_WIN32_DLL and AC_LIBTOOL_RC.
* src/Makefile.am [HAVE_W32_SYSTEM]: Use libtool, which simplifies
  the rules.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.0.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump for
  release.
  (LIBGPGME_LT_REVISION): Reset to 0 for release.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (HAVE_PTH): Don't add $PTH_CFLAGS to SCFLAGS here.

2005-08-26 Werner Koch <wk@g10code.com>

* configure.ac (SEPCONSTANTS): New to define DIRSEP_C et al.

2005-08-19 Werner Koch <wk@g10code.com>

* configure.ac [W32]: Create values for versioninfo.rc and list
  substuture versioninfo.rc.
* configure.ac: Define ENABLE_GPGSM.

2005-08-08 Werner Koch <wk@g10code.com>

* configure.ac (stpcpy): Changed from replace to test.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AH_BOTTOM): Removed.

2005-03-09 Werner Koch <wk@g10code.com>

* acinclude.m4 (GNUPG_CHECK VA_COPY): Assume no when cross-compiling.

* Makefile.am (EXTRA_DIST): Include autogen.sh

* autogen.sh: Added the usual code to build for W32 (--build-w32).

* configure.ac: Fixed the mingw32 host string, removed OS/2 stuff.
  (HAVE_DRIVE_LETTERS): Removed.
  (HAVE_W32_SYSTEM): Added.
  (AC_GNU_SOURCE): New to replace the identical AH_VERBATIM.
Released 1.0.2.

* Makefile.am (AUTOMAKE_OPTIONS): Build bzip 2 version.
  (ACLOCAL_AMFLAGS): Add -I m4.
* configure.ac: Require automake 1.9.3 and autoconf 2.59.
* acinclude.m4: Changed quoting for automake 1.9.
* README: Use SHA1 instead of MD5.

2004-12-11 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Replace ttyname_r if it doesn't exist (and warn in that case).

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* README: Refer to COPYING.LESSER and "each file" instead of COPYING.
* COPYING.LESSER: New file.
* gpgme.spec.in (%doc): Add COPYING.LESSER.
* acinclude.m4, configure.ac, Makefile.am: Change license to LGPL 2.1 or later.
* TODO: Add copyright notice.
* README.CVS: Likewise.

* configure.ac (GPGSM_VERSION): Fix filter to get it.

2004-10-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.1.

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 2.
  (AC_INIT): Set version to 1.0.1.

* configure.ac: Set HAVE_GPGSM to true only if SGP GSM is not "no".

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.0.

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 1.
  (AC_INIT): Set version to 1.0.0.

* Makefile.am (EXTRA_DIST): Remove README-alpha.
* README-alpha: Remove file.
2004-09-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Disable AC_CONFIG_MACRO_DIR for now.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Improve diagnostics with version check.

* configure.ac: Print diagnostics about found thread libraries at the end. Check for the versions of GPG and GPGSM and print the found versions at the end.
(HAVE_GPGSM): Do not require GPGSM to exist and be readable.
(AC_CONFIG_MACRO_DIR): Invoke with argument m4.

* acinclude.m4: Add copyright notice.
(jm,GLIBC21,AM_PATH_GPG_ERROR, _AC_PTH_ERROR, _AC_PTH_VERBOSE, AC_CHECK_PTH): Removed.

2004-06-23 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for <sys/uio.h>.

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

Released 0.9.0.

* configure.ac (AC_INIT): Set version number to 0.9.0.
(LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump up by one.
(LIBGPGME_LT_REVISION): Reset to zero.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (GPGME_CONFIG_API_VERSION): New variable, substitute it.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.7.

* configure.ac (LIBGPGME_LT_REVISION): Bump it up.

2004-04-02 Thomas Schwinge <schwinge@nic-nac-project.de>

* autogen.sh: Added ACLOCAL_FLAGS.

2004-04-06 Werner Koch <wk@gnupg.org>
Released 0.4.6.

* config.guess, config.sub, ltmain.sh: Updated to those from libtools 1.5.4.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.5.

* configure.ac (NEED_GPGSM_VERSION): Bump up to 1.9.6.

* Makefile.am (EXTRA_DIST): Remove autogen.sh and README.CVS.

2004-02-18 Werner Koch <wk@gnupg.org>

* configure.ac: Make the check for funopen fail with just a warning.

2004-02-11 Werner Koch <wk@gnupg.org>

* autogen.sh (check_version): Removed bashism and simplified.

2004-02-10 Werner Koch <wk@gnupg.org>

* configure.ac: Fixed funopen test change.

2004-02-06 Moritz Schulte <mo@g10code.com>

* configure.ac: Fix funopen replacement mechanism.

2004-01-31 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add invocation of AC_SYS_LARGEFILE, AC_TYPE_OFF_T and AC_FUNC_FSEEKO.

2004-01-12 Werner Koch <wk@gnupg.org>

Released 0.4.4.

* configure.ac: Bumped LT_Revision; now at C12/A1/R1.
(NEED_GPGSM_VERSION): Set to 1.9.3.
(min_automake_version): Added.
* README.CVS: New.
* Makefile.am (EXTRA_DIST): Added README.CVS.
* autogen.sh: Updated.

2003-11-19 Werner Koch <wk@gnupg.org>
* acinclude.m4: Add AM_PATH_GPG_ERROR.
* configure.ac: Check for timegm. Made warning messages more prominent.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.3.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump up by 1.
(LIBGPGME_LT_REVISION): Set to 0.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Require libgpg-error 0.5.

* acinclude.m4: Remove libtool cruft, add jm_GLIBC21.
* configure.ac: Add check for getenv_r, and call jm_GLIBC21.
Define HAVE_THREAD_SAFE_GETENV if appropriate.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Remove GPGME_CONFIG_LIBS and GPGME_CONFIG_CFLAGS.

2003-09-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Move invocation of AC_CANONICAL_HOST up to suppress warning by autoconf.

2003-08-30 Robert Schiele <rschiele@uni-mannheim.de>

* gpgme.spec.in: %{_infodir}/dir is not packaged, remove to prevent checking failure.

2003-08-18 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: If building Assuan, check for funopen and fopencookie, and make isascii, putc_unlocked and memrchr replacement functions.
(AM_PATH_GPG_ERROR): Require 0.3.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.4.3.

2003-07-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 1.
Released 0.4.2.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Complain if libgpg-error is not found.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.4.2.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_CURRENT): Bump up to 11.

* configure.ac: Use AM_PATH_GPG_ERROR.

* configure.ac: Check for libgpg-error. Define
GPG_ERR_SOURCE_DEFAULT.

2003-05-26 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION): Bump up to 1.2.2.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

In all files, replace the Gpgme* type names with the new gpgme_*
type names.

2003-02-01 Marcus Brinkmann <marcus@g10code.de>

* assuan/: Update files to 2002-11-10 version of assuan.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

* bonobo/gpgme.c, bonobo/main.c, bonobo/main.h, bonobo/Makefile,
bonobo/Makefile.am, bonobo/Makefile.in: Dead files removed.
* configure.ac: Remove automake conditional BUILD_BONOBO
(AC_CONFIG_FILES): Remove bonobo/Makefile.
* Makefile.am (bonobo): Remove variable.
(SUBDIRS): Remove ${bonobo}.

* configure.ac: Remove all uses of GNUPG_CHECK_TYPEDEF, for byte,
ushort, ulong, u16 and u32.
* acinclude.m4 (GNUPG_CHECK_TYPEDEF): Remove macro.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: New conditional HAVE_LD_VERSION_SCRIPT.
Call AC_CANONICAL_HOST, use host instead target.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump up to 0.4.1.

Released 0.4.0.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh (automake_vers): Require 1.7 (really 1.7.1) for the conditional source distribution bug fix.

2002-12-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_CURRENT): Increase by one.
(LIBGPGME_LT_AGE, LIBGPGME_LT_REVISION): Set to 0.

2002-11-28 Marcus Brinkmann <marcus@g10code.de>

* NEWS: Add note about moving "gpgmeplug" to the "cryptplug" package.
* README: Remove instructions related to "gpgmeplug".
* configure.ac: Remove enable option "gpgmeplug" and automake conditional BUILD_GPGMEPLUG, as well as the status info about it.
(GPGMEPLUG): Remove variable.
* Makefile.am (gpgmeplug): Remove variable.
(SUBDIRS): Remove ${gpgmeplug}.
* cryptplug.h, gpgme-opengpg.c, gpgmeplug.dox, gpgme-smime.c, Makefile.am, gpgmeplug.c, ChangeLog: Files removed.

2002-11-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Disable GPGSM for all dosish systems.

2002-10-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add automake conditional HAVE_GPGSM.

2002-10-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version up to 0.4.0.
(NEED_GPG_VERSION): Bump up to 1.2.0.
(NEED_GPGSM_VERSION): Bump up to 0.9.0.
* README: Update version numbers.
* NEWS: Start entry for 0.4.0.

2002-09-20 Werner Koch <wk@gnupg.org>
Released 0.3.11.

* configure.ac: Bump up LIBGPGME_LT_REVISION.

* configure.ac (AC_CHECK_HEADERS): Check for sys/select.h.

2002-09-04 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh (autoconf_vers): Bump up to 2.53 to get the @&t@ quadrigraph. Always cutting the edge!

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Create and substitute LTLIBOBS.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.10.

* NEWS: Update for 0.3.9 release.

* configure.ac: Bump up LIBGPGME_LT_REVISION.

2002-08-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.spec.in: Changed user name in Wojciech Polak's email address from ghostface to polak per request by himself.

2002-08-28 Werner Koch <wk@gnupg.org>

* acinclude.m4 (GNUPG_CHECK_VA_COPY): New.

* configure.ac: Use it.

2002-08-23 Werner Koch <wk@gnupg.org>

* configure.ac (GPGME_CONFIG_CFLAGS): Renamed from GPGME_CFLAGS and removed the libpath because it is set by the config script.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump version number to 0.3.10.

* NEWS: Add template for development version.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.9.
* NEWS: Update for 0.3.9 release.
* Makefile.am (EXTRA_DIST): Add gpgme.spec.in.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* jnlib/argparse.c, jnlib/argparse.h, jnlib/ChangeLog,
jnlib/dotlock.c, jnlib/dotlock.h, jnlib/libjnlib-config.h,
jnlib/logging.c, jnlib/logging.h,jnlib/Makefile.am,
jnlib/mischelp.h, jnlib/README, jnlib/stringhelp.c,
jnlib/stringhelp.h, jnlib/strlist.c, jnlib/strlist.h,
jnlib/types.h, jnlib/xmalloc.c, jnlib/xmalloc.h: Remove files.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (SUBDIRS): Remove jnlib.
* configure.ac: Don't check for unsigned short or unsigned long.
  Don't check for memicmp, strlwr, strlou, memmove, strncmp.
  Make stpcpy a replaced function.
  Don't define HAVE_JNLIB_LOGGING.
  Don't generate jnlib/Makefile.

2002-07-02 Werner Koch <wk@gnupg.org>

* configure.ac: Bumped version number to 0.3.9; add a comment on
  when to change it.

* Makefile.am (dist-hook): New.

* AUTHORS: Added Wojciech and bug reporting addresses.

2002-06-25 Werner Koch <wk@gnupg.org>

Released 0.3.8.

* configure.ac: Bumped LT version to 9/3/0.
  (NEED_GPGSM_VERSION): Need 0.3.8 due to fixed export command.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.7.

* configure.ac (AC_INIT): Set version to 0.3.7.
  (LIBGPGME_LT_REVISION): Add one.

* README: Document version requirement correctly.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>
* acinclude.m4: Fix Pth check so that it doesn't error out if pth is not found.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add checks for Pth and pthreads.
* acinclude.m4: Add slightly hacked check for pth (seems to be an autoconf version problem).

2002-05-21 Werner Koch <wk@gnupg.org>

* configure.ac (NEED_GPGSM_VERSION): We need gpgsm 0.3.7.

2002-05-03 Werner Koch <wk@gnupg.org>

Released 0.3.6.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

* acconfig.h: File removed.
* configure.ac (NEED_GPG_VERSION): Add description.
(NEED_GPGSM_VERSION): Likewise.
(HAVE_DOSISH_SYSTEM): Likewise.
(HAVE_DRIVE_LETTERS): Likewise.
(GPG_PATH): Likewise.
(GPGSM_PATH): Likewise.
* acinclude.m4 (GNUPG_CHECK_TYPEDEF): Likewise.

2002-04-01 Werner Koch <wk@gnupg.org>

Released 0.3.5.

2002-03-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add automake conditional HAVE_DOSISH_SYSTEM.

2002-03-04 Werner Koch <wk@gnupg.org>

* configure.ac: Bumped version to 0.3.4-cvs to continue development.

Released 0.3.4.

* configure.ac: Bumped LT version numbers to (7,1,0), requires gpgsm 0.3.1.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>
* configure.ac (AC_INIT): Change version number to snapshot CVS version.

2002-02-13 Werner Koch <wk@gnupg.org>

* configure.ac (vasprintf,fopencookie): Add checks.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.3.3.
  * jnlib/Makefile.am: Revert to older version that includes xmalloc but not dotlock and some other files. Reported by Stphane Corthys.

2002-02-10 Marcus Brinkmann <marcus@g10code.de>

* Released 0.3.2.

* configure.ac (AC_INIT): Bump version to 0.3.2.
  * jnlib/libjnlibconfig.h: Revert to older version that doesn't expect libgcrypt. Reported by Jose Carlos Garcia Sogo <jsogo@debian.org>.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* Released 0.3.1.

* configure.ac (LIBGPGME_LT_CURRENT): Bump it up to 6!
  (NEED_GPGSM_VERSION): Bump it up to 0.3.0!
  (AC_INIT): Bump version to 0.3.1

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (HAVE_JNLIB_LOGGING): Define always for assuan.

2001-12-19 Werner Koch <wk@gnupg.org>

* configure.ac (VERSION,PACKAGE): Defined and subst. Used for AM_INIT_AUTOMAKE and moved all version number more to the top.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh (libtool_vers): Bump to 1.4.

* configure.ac (LIBGPGME_LT_CURRENT): Increment.
  (LIBGPGME_LT_AGE): Reset.
  Improve comment.
  Fix wrong comment character.
2001-12-18  Werner Koch  <wk@gnupg.org>

* acinclude.m4 (GNUPG_FIX_HDR_VERSION): Fixed for new automake.

2001-12-14  Marcus Brinkmann  <marcus@g10code.de>

* configure.ac (GPG): Substitute this variable.
  (GPGSM): Likewise.

2001-11-22  Marcus Brinkmann  <marcus@g10code.de>

* configure.ac (AC_CONFIG_FILES): Add tests/gpg/Makefile and
  tests/gpgsm/Makefile.

2001-11-21  Marcus Brinkmann  <marcus@g10code.de>

* Makefile.am (gpgmeplug): New variable, set to gpgmeplug if
  [BUILD_GPGMEPLUG].
* configure.ac (AC_CONFIG_FILES): Add gpgmeplug/Makefile.
  Support --enable-gpgmeplug.

2001-11-21  Marcus Brinkmann  <marcus@g10code.de>

* autogen.sh: Tighten version dependencies.

2001-11-20  Marcus Brinkmann  <marcus@g10code.de>

* Makefile.am (SUBDIRS): Support building the assuan library
  (currently if GPGSM_PATH is set)...
* configure.ac: Support building the assuan library.
* assuan: New directory, populated with the Assuan library
  (copied from the newpg repository).

2001-11-20  Marcus Brinkmann  <marcus@g10code.de>

* configure.ac (NEED_GPGSM_VERSION): New variable.  Treat it
  similarly to NEED_GPG_VERSION.
* acconfig.h: Likewise.

2001-11-18  Marcus Brinkmann  <marcus@g10code.de>

* configure.in: Renamed to ...
  * configure.ac: ... this.  Update to autoconf 2.52.  Lots of small
    changes in the transition.  Support --with-gpg=PATH and
    --with-gpgsm=PATH options.  Check if test suites can be run.
  * acconfig.h: Add GPGSM_PATH.
  * Makefile.am: New variable `tests', set to `tests' if
RUN_GPG_TESTS.
(SUBDIRS): Replace string `tests' with variable `tests'.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh: Invoke automake with `-a' (add missing files).
  Do not invoke configure.

2001-09-17 Werner Koch <wk@gnupg.org>

Released 0.2.3.

* configure.in (NEED_GPG_VERSION): Set to 1.0.6. Incremented LT current and age.

* Makefile.am (SUBDIRS): Add doc

2001-06-12 Werner Koch <wk@gnupg.org>

Released 0.2.2.

2001-04-05 Werner Koch <wk@gnupg.org>

* configure.in (NEED_GPG_VERSION): Set to 1.0.4g

2001-04-02 Werner Koch <wk@gnupg.org>

Released 0.2.1.

Changed the copyright notices all over the place.

2001-02-28 Werner Koch <wk@gnupg.org>

Released 0.2.0.

2001-01-18 Werner Koch <wk@gnupg.org>

* autogen.sh: Added option --build-w32.

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This file is distributed in the hope that it will be useful, but
A.4 UI Server: Verify a Message

The server needs to support the verification of opaque signatures as well as detached signatures. The kind of input sources controls what
kind message is to be verified.

-- Command: MESSAGE FD=N
This command is used with detached signatures to set the file
descriptor for the signed data to N. The data is binary encoded
(used verbatim). For details on the file descriptor, see the
description of INPUT in the ENCRYPT section.

-- Command: INPUT FD=N
Set the file descriptor for the opaque message or the signature
part of a detached signature to N. The message send to the server
is either binary encoded or in the case of OpenPGP ASCII
armored. For details on the file descriptor, see the description
of INPUT in the ENCRYPT section.

-- Command: OUTPUT FD=N
Set the file descriptor to be used for the output. The output is
binary encoded and only used for opaque signatures. For details on
the file descriptor, see the description of INPUT in the
ENCRYPT section.

The verification is then started using:

-- Command: VERIFY --protocol=NAME [--silent]
NAME is the signing protocol used for the message. For a
description of the allowed protocols see the ENCRYPT command.
This argument is mandatory. Depending on the combination of
MESSAGE INPUT and OUTPUT commands, the server needs to select
the appropriate verification mode:

MESSAGE and INPUT
This indicates a detached signature. Output data is not
applicable.

INPUT
This indicates an opaque signature. As no output command has
been given, the server is only required to check the
signature.

INPUT and OUTPUT
This indicates an opaque signature. The server shall write
the signed data to the file descriptor set by the output
command. This data shall even be written if the signatures
cant be verified.

With --silent the server shall not display any dialog; this is for
example used by the client to get the content of opaque signed messages.
The client expects the server to send at least this status information
before the final OK response:
-- Status line: SIGSTATUS FLAG DISPLAYSTRING

Returns the status for the signature and a short string explaining the status. Valid values for FLAG are:

none
  The message has a signature but it could not be verified due to a missing key.
green
  The signature is fully valid.
yellow
  The signature is valid but additional information was shown regarding the validity of the key.
red
  The signature is not valid.

DISPLAYSTRING is a percent-and-plus-encoded string with a short human readable description of the status. For example

    S SIGSTATUS green Good+signature+from+Keith+Moon+<keith@example.net>

Note that this string needs to fit into an Assuan line and should be short enough to be displayed as short one-liner on the clients window. As usual the encoding of this string is UTF-8 and it should be send in its translated form.

The server shall send one status line for every signature found on the message.


A.5 UI Server: Specifying the input files to operate on.
================================================================================

All file related UI server commands operate on a number of input files or directories, specified by one or more FILE commands:

-- Command: FILE [--clear] NAME

Add the file or directory NAME to the list of pathnames to be processed by the server. The parameter NAME must be an absolute path name (including the drive letter) and is percent espaced (in particular, the characters %, = and white space characters are always escaped). If the option --clear is given, the list of files is cleared before adding NAME.

Historical note: The original spec did not define --clear but the keyword --continued after the file name to indicate that more
files are to be expected. However, this has never been used and
thus removed from the specs.

A.6 UI Server: Encrypting and signing files.

First, the input files need to be specified by one or more FILE
commands. Afterwards, the actual operation is requested:

-- Command: ENCRYPT_FILES --nohup
-- Command: SIGN_FILES --nohup
-- Command: ENCRYPT_SIGN_FILES --nohup

Request that the files specified by FILE are encrypted and/or
signed. The command selects the default action. The UI server may
allow the user to change this default afterwards interactively, and
even abort the operation or complete it only on some of the
selected files and directories.

What it means to encrypt or sign a file or directory is specific to
the preferences of the user, the functionality the UI server
provides, and the selected protocol. Typically, for each input
file a new file is created under the original filename plus a
protocol specific extension (like .gpg or .sig), which contain
the encrypted/signed file or a detached signature. For
directories, the server may offer multiple options to the user (for
e.g. ignore or process recursively).

The ENCRYPT_SIGN_FILES command requests a combined sign and
encrypt operation. It may not be available for all protocols (for
example, it is available for OpenPGP but not for CMS).

The option --nohup is mandatory. It is currently unspecified
what should happen if --nohup is not present. Because --nohup
is present, the server always returns OK promptly, and completes
the operation asynchronously.
commands. Afterwards, the actual operation is requested:

-- Command: DECRYPT_FILES --nohup
-- Command: VERIFY_FILES --nohup
-- Command: DECRYPT_VERIFY_FILES --nohup

Request that the files specified by FILE are decrypted and/or verified. The command selects the default action. The UI server may allow the user to change this default afterwards interactively, and even abort the operation or complete it only on some of the selected files and directories.

What it means to decrypt or verify a file or directory is specific to the preferences of the user, the functionality the UI server provides, and the selected protocol. Typically, for decryption, a new file is created for each input file under the original filename minus a protocol specific extension (like .gpg) which contains the original plaintext. For verification a status is displayed for each signed input file, indicating if it is signed, and if yes, if the signature is valid. For files that are signed and encrypted, the VERIFY command transiently decrypts the file to verify the enclosed signature. For directories, the server may offer multiple options to the user (for example ignore or process recursively).

The option --nohup is mandatory. It is currently unspecified what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes the operation asynchronously.


A.8 UI Server: Managing certificates.
========================================

First, the input files need to be specified by one or more FILE commands. Afterwards, the actual operation is requested:

-- Command: IMPORT_FILES --nohup

Request that the certificates contained in the files specified by FILE are imported into the local certificate databases.

For directories, the server may offer multiple options to the user (for example ignore or process recursively).

The option --nohup is mandatory. It is currently unspecified what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes
the operation asynchronously.

FIXME: It may be nice to support an EXPORT command as well, which is enabled by the context menu of the background of a directory.


A.9 UI Server: Create and verify checksums for files.

First, the input files need to be specified by one or more FILE commands. Afterwards, the actual operation is requested:

-- Command: CHECKSUM_CREATE_FILES --nohup
Request that checksums are created for the files specified by FILE. The choice of checksum algorithm and the destination storage and format for the created checksums depend on the preferences of the user and the functionality provided by the UI server. For directories, the server may offer multiple options to the user (for example ignore or process recursively).

The option --nohup is mandatory. It is currently unspecified what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes the operation asynchronously.

-- Command: CHECKSUM_VERIFY_FILES --nohup
Request that checksums are created for the files specified by FILE and verified against previously created and stored checksums. The choice of checksum algorithm and the source storage and format for previously created checksums depend on the preferences of the user and the functionality provided by the UI server. For directories, the server may offer multiple options to the user (for example ignore or process recursively).

If the source storage of previously created checksums is available to the user through the Windows shell, this command may also accept such checksum files as FILE arguments. In this case, the UI server should instead verify the checksum of the referenced files as if they were given as INPUT files.

The option --nohup is mandatory. It is currently unspecified what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes the operation asynchronously.
A.10 Miscellaneous UI Server Commands

The server needs to implement the following commands which are not related to a specific command:

-- Command: GETINFO WHAT
This is a multi purpose command, commonly used to return a variety of information. The required subcommands as described by the WHAT parameter are:

  pid
  Return the process id of the server in decimal notation using an Assuan data line.

To allow the server to pop up the windows in the correct relation to the client, the client is advised to tell the server by sending the option:

-- Command option: window-id NUMBER
The NUMBER represents the native window ID of the clients current window. On Windows systems this is a windows handle (HWND) and on X11 systems it is the X Window ID. The number needs to be given as a hexadecimal value so that it is easier to convey pointer values (e.g. HWND).

A client may want to fire up the certificate manager of the server. To do this it uses the Assuan command:

-- Command: START_KEYMANAGER
The server shall pop up the main window of the key manager (aka certificate manager). The client expects that the key manager is brought into the foreground and that this command immediately returns (does not wait until the key manager has been fully brought up).

A client may want to fire up the configuration dialog of the server. To do this it uses the Assuan command:

-- Command: START_CONFDIALOG
The server shall pop up its configuration dialog. The client expects that this dialog is brought into the foreground and that this command immediately returns (i.e. it does not wait until the dialog has been fully brought up).
When doing an operation on a mail, it is useful to let the server know the address of the sender:

-- Command: SENDER [--info] [--protocol=NAME] EMAIL
   EMAIL is the plain ASCII encoded address ("addr-spec" as per RFC-2822) enclosed in angle brackets. The address set with this command is valid until a successful completion of the operation or until a RESET command. A second command overrides the effect of the first one; if EMAIL is not given and --info is not used, the server shall use the default signing key.

   If option --info is not given, the server shall also suggest a protocol to use for signing. The client may use this suggested protocol on its own discretion. The same status line as with PREP_ENCRYPT is used for this.

   The option --protocol may be used to give the server a hint on which signing protocol should be preferred.

To allow the UI-server to visually identify a running operation or to associate operations the server MAY support the command:

-- Command: SESSION NUMBER [STRING]
   The NUMBER is an arbitrary value, a server may use to associate simultaneous running sessions. It is a 32 bit unsigned integer with 0 as a special value indicating that no session association shall be done.

   If STRING is given, the server may use this as the title of a window or, in the case of an email operation, to extract the senders address. The string may contain spaces; thus no plus-escaping is used.

   This command may be used at any time and overrides the effect of the last command. A RESET undoes the effect of this command.


Appendix B How to solve problems

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

Everyone knows that software often does not do what it should do and thus there is a need to track down problems. This is in particular true for applications using a complex library like GPGME and of course also for the library itself. Here we give a few hints on how to solve such problems.
First of all you should make sure that the keys you want to use are installed in the GnuPG engine and are usable. Thus the first test is to run the desired operation using gpg or gpgsm on the command line. If you can’t figure out why things don’t work, you may use GPGME’s built in trace feature. This feature is either enabled using the environment variable GPGME_DEBUG or, if this is not possible, by calling the function gpgme_set_global_flag. The value is the trace level and an optional file name. If no file name is given the trace output is printed to stderr.

For example

GPGME_DEBUG=9:/home/user/mygpgme.log

(Note that under Windows you use a semicolon in place of the colon to separate the fields.)

A trace level of 9 is pretty verbose and thus you may want to start off with a lower level. The exact definition of the trace levels and the output format may change with any release; you need to check the source code for details. In any case the trace log should be helpful to understand what is going on. Warning: The trace log may reveal sensitive details like passphrases or other data you use in your application. If you are asked to send a log file, make sure that you run your tests only with play data.

File: gpgme.info, Node: Deprecated Functions, Next: Library Copying, Prev: Debugging, Up: Top

Appendix C Deprecated Functions
*******************************

For backward compatibility GPGME has a number of functions, data types and constants which are deprecated and should not be used anymore. We document here those which are really old to help understanding old code and to allow migration to their modern counterparts.

*Warning:* These interfaces will be removed in a future version of GPGME.

-- Function: void gpgme_key_release (gpgme_key_t KEY)
  The function gpgme_key_release is equivalent to gpgme_key_unref.

-- Function: void gpgme_trust_item_release (gpgme_trust_item_t ITEM)
  The function gpgme_trust_item_release is an alias for gpgme_trust_item_unref.

-- Function: gpgme_error_t gpgme_op_import_ext (gpgme_ctx_t CTX,
   gpgme_data_t KEYDATA, int *NR)
The function `gpgme_op_import_ext` is equivalent to:

```c
    gpgme_error_t err = gpgme_op_import (ctx, keydata);
    if (!err)
    {
        gpgme_import_result_t result = gpgme_op_import_result (ctx);
        *nr = result->considered;
    }
```

Data type: `gpgme_error_t (*gpgme_edit_cb_t) (void *HANDLE,
                           gpgme_status_code_t STATUS, const char *ARGS, int FD)`

The `gpgme_edit_cb_t` type is the type of functions which GPGME calls if a key edit operation is on-going. The status code `STATUS` and the argument line `ARGS` are passed through by GPGME from the crypto engine. The file descriptor `FD` is -1 for normal status messages. If `STATUS` indicates a command rather than a status message, the response to the command should be written to `FD`. The `HANDLE` is provided by the user at start of operation.

The function should return `GPG_ERR_FALSE` if it did not handle the status code, 0 for success, or any other error value.

Function: `gpgme_error_t gpgme_op_edit (gpgme_ctx_t CTX,
                                        gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE,
                                        gpgme_data_t OUT)`

SINCE: 0.3.9

Note: This function is deprecated, please use `gpgme_op_interact` instead.

The function `gpgme_op_edit` processes the key `KEY` interactively, using the edit callback function `FNC` with the handle `HANDLE`. The callback is invoked for every status and command request from the crypto engine. The output of the crypto engine is written to the data object `OUT`.

Note that the protocol between the callback function and the crypto engine is specific to the crypto engine and no further support in implementing this protocol correctly is provided by GPGME.

The function returns the error code `GPG_ERR_NO_ERROR` if the edit operation completes successfully, `GPG_ERR_INV_VALUE` if `CTX` or `KEY` is not a valid pointer, and any error returned by the crypto engine or the edit callback handler.

Function: `gpgme_error_t gpgme_op_edit_start (gpgme_ctx_t CTX,`
gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE,  
gpgme_data_t OUT)

SINCE: 0.3.9

Note: This function is deprecated, please use  
gpgme_op_interact_start instead.

The function gpgme_op_edit_start initiates a gpgme_op_edit  
operation. It can be completed by calling gpgme_wait on the  
context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the  
operation was started successfully, and GPG_ERR_INV_VALUE if CTX  
or KEY is not a valid pointer.

-- Function: gpgme_error_t gpgme_op_card_edit (gpgme_ctx_t CTX,  
gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE,  
gpgme_data_t OUT)
Note: This function is deprecated, please use gpgme_op_interact  
with the flag GPGME_INTERACT_CARD instead.

The function gpgme_op_card_edit is analogous to gpgme_op_edit,  
but should be used to process the smart card corresponding to the  
key KEY.

-- Function: gpgme_error_t gpgme_op_card_edit_start (gpgme_ctx_t CTX,  
gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE,  
gpgme_data_t OUT)
Note: This function is deprecated, please use  
gpgme_op_interact_start with the flag GPGME_INTERACT_CARD  
instead.

The function gpgme_op_card_edit_start initiates a  
gpgme_op_card_edit operation. It can be completed by calling  
gpgme_wait on the context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the  
operation was started successfully, and GPG_ERR_INV_VALUE if CTX  
or KEY is not a valid pointer.

-- Function: gpgme_error_t gpgme_data_new_with_read_cb  
(gpgme_data_t *DH, int (*READFUNC) (void *HOOK, char *BUFFER,  
size_t COUNT, size_t *NREAD), void *HOOK_VALUE)
The function gpgme_data_new_with_read_cb creates a new  
gpgme_data_t object and uses the callback function READFUNC to  
retrieve the data on demand. As the callback function can supply  
the data in any way it wants, this is the most flexible data type
GPGME provides. However, it can not be used to write data.

The callback function receives HOOK_VALUE as its first argument whenever it is invoked. It should return up to COUNT bytes in BUFFER, and return the number of bytes actually read in NREAD. It may return 0 in NREAD if no data is currently available. To indicate EOF the function should return with an error code of -1 and set NREAD to 0. The callback function may support to reset its internal read pointer if it is invoked with BUFFER and NREAD being NULL and COUNT being 0.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, GPG_ERR_INV_VALUE if DH or READFUNC is not a valid pointer, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_rewind (gpgme_data_t DH)
The function gpgme_data_rewind is equivalent to:

       return (gpgme_data_seek (dh, 0, SEEK_SET) == -1)
       ? gpgme_error_from_errno (errno) : 0;

-- Data type: gpgme_attr_t
The gpgme_attr_t type is used to specify a key or trust item attribute. The following attributes are defined:

GPGME_ATTR_KEYID
This is the key ID of a sub key. It is representable as a string.

For trust items, the trust item refers to the key with this ID.

GPGME_ATTR_FPR
This is the fingerprint of a sub key. It is representable as a string.

GPGME_ATTR_ALGO
This is the crypto algorithm for which the sub key can be used. It is representable as a string and as a number. The numbers correspond to the enum gcry_pk_algos values in the gcrypt library.

GPGME_ATTR_LEN
This is the key length of a sub key. It is representable as a number.

GPGME_ATTR_CREATED
This is the timestamp at creation time of a sub key. It is representable as a number.

GPGME_ATTR_EXPIRE
This is the expiration time of a sub key. It is representable as a number.

GPGME_ATTR_OTRUST
XXX FIXME (also for trust items)

GPGME_ATTR_USERID
This is a user ID. There can be more than one user IDs in a GPGME_KEY_T object. The first one (with index 0) is the primary user ID. The user ID is representable as a number.

For trust items, this is the user ID associated with this trust item.

GPGME_ATTR_NAME
This is the name belonging to a user ID. It is representable as a string.

GPGME_ATTR_EMAIL
This is the email address belonging to a user ID. It is representable as a string.

GPGME_ATTR_COMMENT
This is the comment belonging to a user ID. It is representable as a string.

GPGME_ATTR_VALIDITY
This is the validity belonging to a user ID. It is representable as a string and as a number. See below for a list of available validities.

For trust items, this is the validity that is associated with this trust item.

GPGME_ATTR_UID_REVOKED
This specifies if a user ID is revoked. It is representable as a number, and is 1 if the user ID is revoked, and 0 otherwise.

GPGME_ATTR_UID_INVALID
This specifies if a user ID is invalid. It is representable as a number, and is 1 if the user ID is invalid, and 0 otherwise.
GPGME_ATTR_LEVEL
    This is the trust level of a trust item.

GPGME_ATTR_TYPE
    This returns information about the type of key. For the
    string function this will either be "PGP" or "X.509". The
    integer function returns 0 for PGP and 1 for X.509. It is
    also used for the type of a trust item.

GPGME_ATTR_IS_SECRET
    This specifies if the key is a secret key. It is
    representable as a number, and is 1 if the key is revoked,
    and 0 otherwise.

GPGME_ATTR_KEY_REVOKED
    This specifies if a sub key is revoked. It is representable
    as a number, and is 1 if the key is revoked, and 0
    otherwise.

GPGME_ATTR_KEY_INVALID
    This specifies if a sub key is invalid. It is representable
    as a number, and is 1 if the key is invalid, and 0
    otherwise.

GPGME_ATTR_KEY_EXPIRED
    This specifies if a sub key is expired. It is representable
    as a number, and is 1 if the key is expired, and 0
    otherwise.

GPGME_ATTR_KEY_DISABLED
    This specifies if a sub key is disabled. It is representable
    as a number, and is 1 if the key is disabled, and 0
    otherwise.

GPGME_ATTR_KEY_CAPS
    This is a description of the capabilities of a sub key. It is
    representable as a string. The string contains the letter e
    if the key can be used for encryption, s if the key can be
    used for signatures, and c if the key can be used for
    certifications.

GPGME_ATTR_CAN_ENCRYPT
    This specifies if a sub key can be used for encryption. It is
    representable as a number, and is 1 if the sub key can be
    used for encryption, and 0 otherwise.

GPGME_ATTR_CAN_SIGN
    This specifies if a sub key can be used to create data
signatures. It is representable as a number, and is 1 if the sub key can be used for signatures, and 0 otherwise.

GPGME_ATTR_CAN_CERTIFY
This specifies if a sub key can be used to create key certificates. It is representable as a number, and is 1 if the sub key can be used for certifications, and 0 otherwise.

GPGME_ATTR_SERIAL
The X.509 issuer serial attribute of the key. It is representable as a string.

GPGME_ATTR_ISSUE
The X.509 issuer name attribute of the key. It is representable as a string.

GPGME_ATTR_CHAINID
The X.509 chain ID can be used to build the certification chain. It is representable as a string.

-- Function: const char * gpgme_key_get_string_attr (gpgme_key_t KEY, gpgme_attr_t WHAT, const void *RESERVED, int IDX)
The function gpgme_key_get_string_attr returns the value of the string-representable attribute WHAT of key KEY. If the attribute is an attribute of a sub key or an user ID, IDX specifies the sub key or user ID of which the attribute value is returned. The argument RESERVED is reserved for later use and should be NULL.

The string returned is only valid as long as the key is valid.

The function returns 0 if an attribute cant be returned as a string, KEY is not a valid pointer, IDX out of range, or RESERVED not NULL.

-- Function: unsigned long gpgme_key_get_ulong_attr (gpgme_key_t KEY, gpgme_attr_t WHAT, const void *RESERVED, int IDX)
The function gpgme_key_get_ulong_attr returns the value of the number-representable attribute WHAT of key KEY. If the attribute is an attribute of a sub key or an user ID,IDX specifies the sub key or user ID of which the attribute value is returned. The argument RESERVED is reserved for later use and should be NULL.

The function returns 0 if the attribute cant be returned as a number, KEY is not a valid pointer, IDX out of range, or RESERVED not NULL.

The signatures on a key are only available if the key was retrieved via a listing operation with the GPGME_KEYLIST_MODE_SIGS mode enabled,
because it is expensive to retrieve all signatures of a key.

So, before using the below interfaces to retrieve the signatures on a key, you have to make sure that the key was listed with signatures enabled. One convenient, but blocking, way to do this is to use the function gpgme_get_key.

-- Data type: gpgme_attr_t

The gpgme_attr_t type is used to specify a key signature attribute. The following attributes are defined:

GPGME_ATTR_KEYID
This is the key ID of the key which was used for the signature. It is representable as a string.

GPGME_ATTR_ALGO
This is the crypto algorithm used to create the signature. It is representable as a string and as a number. The numbers correspond to the enum gcry_pk_algos values in the gcrypt library.

GPGME_ATTR_CREATED
This is the timestamp at creation time of the signature. It is representable as a number.

GPGME_ATTR_EXPIRE
This is the expiration time of the signature. It is representable as a number.

GPGME_ATTR_USERID
This is the user ID associated with the signing key. The user ID is representable as a number.

GPGME_ATTR_NAME
This is the name belonging to a user ID. It is representable as a string.

GPGME_ATTR_EMAIL
This is the email address belonging to a user ID. It is representable as a string.

GPGME_ATTR_COMMENT
This is the comment belonging to a user ID. It is representable as a string.

GPGME_ATTR_KEY_REVOKED
This specifies if a key signature is a revocation signature. It is representable as a number, and is 1 if the key is
revoked, and 0 otherwise.

GPGME_ATTR_SIG_CLASS
This specifies the signature class of a key signature. It is representable as a number. The meaning is specific to the crypto engine.

GPGME_ATTR_SIG_CLASS
This specifies the signature class of a key signature. It is representable as a number. The meaning is specific to the crypto engine.

GPGME_ATTR_SIG_STATUS
This is the same value as returned by gpgme_get_sig_status.

-- Function: const char * gpgme_key_sig_get_string_attr
(gpgme_key_t KEY, int UID_IDX, gpgme_attr_t WHAT,
const void *RESERVED, int IDX)
The function gpgme_key_sig_get_string_attr returns the value of the string-representable attribute WHAT of the signature IDX on the user ID UID_IDX in the key KEY. The argument RESERVED is reserved for later use and should be NULL.

The string returned is only valid as long as the key is valid.

The function returns 0 if an attribute can't be returned as a string, KEY is not a valid pointer, UID_IDX or IDX out of range, or RESERVED not NULL.

-- Function: unsigned long gpgme_key_sig_get_ulong_attr
(gpgme_key_t KEY, int UID_IDX, gpgme_attr_t WHAT,
const void *RESERVED, int IDX)
The function gpgme_key_sig_get_ulong_attr returns the value of the number-representable attribute WHAT of the signature IDX on the user ID UID_IDX in the key KEY. The argument RESERVED is reserved for later use and should be NULL.

The function returns 0 if an attribute can't be returned as a string, KEY is not a valid pointer, UID_IDX or IDX out of range, or RESERVED not NULL.

Trust items have attributes which can be queried using the interfaces below. The attribute identifiers are shared with those for key attributes. *Note Information About Keys:::

-- Function: const char * gpgme_trust_item_get_string_attr
(gpgme_trust_item_t ITEM, gpgme_attr_t WHAT,
const void *RESERVED, int IDX)
The function `gpgme_trust_item_get_string_attr` returns the value of the string-representable attribute `WHAT` of trust item `ITEM`. The arguments `IDX` and `RESERVED` are reserved for later use and should be 0 and NULL respectively.

The string returned is only valid as long as the key is valid.

The function returns 0 if an attribute can't be returned as a string, `KEY` is not a valid pointer, `IDX` out of range, or `RESERVED` not NULL.

-- Function: int gpgme_trust_item_get_int_attr
  (gpgme_trust_item_t ITEM, gpgme_attr_t WHAT, const void *RESERVED, int IDX)

The function `gpgme_trust_item_get_int_attr` returns the value of the number-representable attribute `WHAT` of trust item `ITEM`. If the attribute occurs more than once in the trust item, the index is specified by `IDX`. However, currently no such attribute exists, so `IDX` should be 0. The argument `RESERVED` is reserved for later use and should be NULL.

The function returns 0 if the attribute can't be returned as a number, `KEY` is not a valid pointer, `IDX` out of range, or `RESERVED` not NULL.

-- Data type: enum gpgme_sig_stat_t

The `gpgme_sig_stat_t` type holds the result of a signature check, or the combined result of all signatures. The following results are possible:

**GPGME_SIG_STAT_NONE**
This status should not occur in normal operation.

**GPGME_SIG_STAT_GOOD**
This status indicates that the signature is valid. For the combined result this status means that all signatures are valid.

**GPGME_SIG_STAT_GOOD_EXP**
This status indicates that the signature is valid but expired. For the combined result this status means that all signatures are valid and expired.

**GPGME_SIG_STAT_GOOD_EXPKEY**
This status indicates that the signature is valid but the key used to verify the signature has expired. For the combined result this status means that all signatures are valid and all keys are expired.
**GPGME_SIG_STAT_BAD**
This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.

**GPGME_SIG_STAT_NOKEY**
This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.

**GPGME_SIG_STAT_NOSIG**
This status indicates that the signature data provided was not a real signature.

**GPGME_SIG_STAT_ERROR**
This status indicates that there was some other error which prevented the signature verification.

**GPGME_SIG_STAT_DIFF**
For the combined result this status means that at least two signatures have a different status. You can get each keys status with gpgme_get_sig_status.

-- Function: const char * gpgme_get_sig_status (gpgme_ctx_t CTX, int IDX, gpgme_sig_stat_t *R_STAT, time_t *R_CREATED)
The function gpgme_get_sig_status is equivalent to:

```
gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
{
    sig = sig->next;
    idx--;
}
if (!sig || idx)
    return NULL;
if (r_stat)
{
    switch (gpg_err_code (sig->status))
    {
    case GPG_ERR_NO_ERROR:
```
*r_stat = GPGME_SIG_STAT_GOOD;
break;

case GPG_ERR_BAD_SIGNATURE:
*r_stat = GPGME_SIG_STAT_BAD;
break;

case GPG_ERR_NO_PUBKEY:
*r_stat = GPGME_SIG_STAT_NOKEY;
break;

case GPG_ERR_NO_DATA:
*r_stat = GPGME_SIG_STAT_NOSIG;
break;

case GPG_ERR_SIG_EXPIRED:
*r_stat = GPGME_SIG_STAT_GOOD_EXP;
break;

case GPG_ERR_KEY_EXPIRED:
*r_stat = GPGME_SIG_STAT_GOOD_EXPKEY;
break;

default:
*r_stat = GPGME_SIG_STAT_ERROR;
break;
}

if (r_created)
*r_created = sig->timestamp;
return sig->fpr;

-- Function: const char * gpgme_get_sig_string_attr (gpgme_ctx_t CTX,
int IDX, gpgme_attr_t WHAT, int WHATIDX)
The function gpgme_get_sig_string_attr is equivalent to:

gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
{
    sig = sig->next;
    idx--;
}
if (!sig || idx)
return NULL;

switch (what)
{
    case GPGME_ATTR_FPR:
        return sig->fpr;

    case GPGME_ATTR_ERRTOK:
        if (whatidx == 1)
            return sig->wrong_key_usage ? "Wrong_Key_Usage" : "";
        else
            return "";
        default:
            break;
    }

return NULL;

-- Function: const char * gpgme_get_sig_ulong_attr (gpgme_ctx_t CTX,
        int IDX, gpgme_attr_t WHAT, int WHATIDX)
The function gpgme_get_sig_ulong_attr is equivalent to:

gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
{
    sig = sig->next;
    idx--;
}
if (!sig || idx)
    return 0;

switch (what)
{
    case GPGME_ATTR_CREATED:
        return sig->timestamp;

    case GPGME_ATTR_EXPIRE:
        return sig->exp_timestamp;

    case GPGME_ATTR_VALIDITY:
        return (unsigned long) sig->validity;

    case GPGME_ATTR_SIG_STATUS:
switch (sig->status)
{
    case GPG_ERR_NO_ERROR:
        return GPGME_SIG_STAT_GOOD;
    case GPG_ERR_BAD_SIGNATURE:
        return GPGME_SIG_STAT_BAD;
    case GPG_ERR_NO_PUBKEY:
        return GPGME_SIG_STAT_NOKEY;
    case GPG_ERR_NO_DATA:
        return GPGME_SIG_STAT_NOSIG;
    case GPG_ERR_SIG_EXPIRED:
        return GPGME_SIG_STAT_GOOD_EXP;
    case GPG_ERR_KEY_EXPIRED:
        return GPGME_SIG_STAT_GOOD_EXPKEY;
    default:
        return GPGME_SIG_STAT_ERROR;
}

    case GPGME_ATTR_SIG_SUMMARY:
        return sig->summary;

    default:
        break;
}
return 0;

-- Function: const char * gpgme_get_sig_key (gpgme_ctx_t CTX, int IDX, gpgme_key_t *R_KEY)
The function gpgme_get_sig_key is equivalent to:

gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
{
    sig = sig->next;
    idx--;
}
if (!sig || idx)
return gpg_error (GPG_ERR_EOF);

return gpgme_get_key (ctx, sig->fpr, r_key, 0);

File: gpgme.info, Node: Library Copying, Next: Copying, Prev: Deprecated Functions, Up: Top

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

Version 2.1, February 1999

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========

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* gpgme_data_seek_cb_t: Callback Based Data Buffers.
* gpgme_data_set_encoding: Data Buffer Meta-Data.
* gpgme_data_set_file_name: Data Buffer Meta-Data.
* gpgme_data_set_flag: Data Buffer Meta-Data.
* gpgme_data_t: Exchanging Data.
* gpgme_data_type_t: Data Buffer Convenience.
* gpgme_data_write: Data Buffer I/O Operations.
* gpgme_data_write_cb_t: Callback Based Data Buffers.
* gpgme_decrypt_result_t: Decrypt.
* gpgme_edit_cb_t: Deprecated Functions.
* gpgme_encrypt_result_t: Encrypting a Plaintext.
* gpgme_engine_check_version: Engine Version Check.
* gpgme_engine_info_t: Engine Information.
* gpgme_error: Error Values.
* gpgme_error_from_errno: Error Values.
* gpgme_error_t: Error Values.
* gpgme_error_t (*gpgme_assuan_data_cb_t) (void *OPAQUE, const void *DATA, size_t DATALEN): Using the
Assuan protocol. (line 15)

* gpgme_error_t (*gpgme_assuan_inquire_cb_t) (void *OPAQUE, const char *NAME, const char *ARGS, gpgme_data_t *R_DATA): Using the Assuan protocol. (line 24)

* gpgme_error_t (*gpgme_assuan_status_cb_t) (void *OPAQUE, const char *STATUS, const char *ARGS): Using the Assuan protocol. (line 38)

* gpgme_error_t (*gpgme_edit_cb_t) (void *HANDLE, gpgme_status_code_t STATUS, const char *ARGS, int FD): Deprecated Functions. (line 35)

* gpgme_error_t (*gpgme_interact_cb_t) (void *HANDLE, const char *STATUS, const char *ARGS, int FD): Advanced Key Editing. (line 6)

* gpgme_error_t (*gpgme_io_cb_t) (void *DATA, int FD): I/O Callback Interface. (line 6)

* gpgme_error_t (*gpgme_passphrase_cb_t) (void *HOOK, const char *UID_HINT, const char *PASSPHRASE_INFO, int PREV_WAS_BAD, int FD): Passphrase Callback. (line 6)

* gpgme_error_t (*gpgme_register_io_cb_t) (void *DATA, int FD, int DIR, gpgme_io_cb_t FNC, void *FNC_DATA, void **TAG): I/O Callback Interface. (line 19)

* gpgme_error_t (*gpgme_status_cb_t) (void *HOOK, const char *KEYWORD, const char *ARGS): Status Message Callback. (line 6)

* gpgme_err_code: Error Values. (line 42)

* gpgme_err_code_from_errno: Error Values. (line 98)

* gpgme_err_code_t: Error Values. (line 6)

* gpgme_err_code_to_errno: Error Values. (line 103)

* gpgme_err_make: Error Values. (line 57)

* gpgme_err_make_from_errno: Error Values. (line 83)

* gpgme_err_source: Error Values. (line 49)

* gpgme_err_source_t: Error Values. (line 13)

* gpgme_event_io_t: I/O Callback Interface. (line 59)

* gpgme_event_io_t <1>: Registering I/O Callbacks. (line 7)

* gpgme_free: Destroying Data Buffers. (line 25)

* gpgme_genkey_result_t: Generating Keys. (line 381)

* gpgme_get_armor: ASCII Armor. (line 13)

* gpgme_get_ctx_flag: Context Flags. (line 121)

* gpgme_get_dirinfo: Engine Version Check. (line 6)

* gpgme_get_engine_info: Engine Information. (line 46)

* gpgme_get_include_certs: Included Certificates. (line 37)

* gpgme_get_io_cbs: Registering I/O Callbacks.
* gpgme_get_key: Listing Keys. (line 44)
* gpgme_get_keylist_mode: Key Listing Mode. (line 95)
* gpgme_get_offline: Offline Mode. (line 31)
* gpgme_get_passphrase_cb: Passphrase Callback. (line 63)
* gpgme_get_pinentry_mode: Pinentry Mode. (line 18)
* gpgme_get_progress_cb: Progress Meter Callback. (line 31)
* gpgme_get_protocol: Protocol Selection. (line 21)
* gpgme_get_protocol_name: Protocols and Engines. (line 58)
* gpgme_get_sender: Setting the Sender. (line 29)
* gpgme_get_sig_key: Deprecated Functions. (line 641)
* gpgme_get_sig_status: Deprecated Functions. (line 489)
* gpgme_get_sig_string_attr: Deprecated Functions. (line 286)
* gpgme_get_sig_ulong_attr: Deprecated Functions. (line 377)
* gpgme_get_status_cb: Status Message Callback. (line 31)
* gpgme_get_textmode: Text Mode. (line 20)
* gpgme_hash_algo_name: Hash Algorithms. (line 30)
* gpgme_hash_algo_t: Hash Algorithms. (line 10)
* gpgme_import_result_t: Importing Keys. (line 118)
* gpgme_import_status_t: Importing Keys. (line 80)
* gpgme_interact_cb_t: Advanced Key Editing. (line 11)
* gpgme_invalid_key_t: Crypto Operations. (line 10)
* gpgme_io_cb_t: I/O Callback Interface. (line 7)
* gpgme_keylist_result_t: Listing Keys. (line 155)
* gpgme_key_get_string_attr: Deprecated Functions. (line 286)
* gpgme_key_get_ulong_attr: Deprecated Functions. (line 300)
* gpgme_key_ref: Manipulating Keys. (line 6)
* gpgme_key_release: Deprecated Functions. (line 14)
* gpgme_key_sig_get_string_attr: Deprecated Functions. (line 377)
* gpgme_key_sig_get_ulong_attr: Deprecated Functions. (line 393)
* gpgme_key_sig_t: Key objects. (line 339)
* gpgme_key_t: Key objects. (line 10)
* gpgme_key_unref: Manipulating Keys. (line 10)
* gpgme_new: Creating Contexts. (line 6)
* gpgme_new_signature_t: Creating a Signature.  (line  57)
* gpgme_off_t: Exchanging Data.  (line  24)
* gpgme_op_adduid: Generating Keys.  (line 189)
* gpgme_op_adduid_start: Generating Keys.  (line 215)
* gpgme_op_assuan_transact_ext: Using the Assuan protocol.  (line  64)
* gpgme_op_assuan_transact_start: Using the Assuan protocol.  (line  47)
* gpgme_op_card_edit: Deprecated Functions.  (line  89)
* gpgme_op_card_edit_start: Deprecated Functions.  (line  99)
* gpgme_op_createkey: Generating Keys.  (line  14)
* gpgme_op_createkey_start: Generating Keys.  (line 119)
* gpgme_op_createsubkey: Generating Keys.  (line 132)
* gpgme_op_createsubkey_start: Generating Keys.  (line 176)
* gpgme_op_decrypt: Decrypt.  (line   6)
* gpgme_op_decrypt_ext: Decrypt.  (line  30)
* gpgme_op_decrypt_ext_start: Decrypt.  (line  60)
* gpgme_op_decrypt_result: Decrypt.  (line 164)
* gpgme_op_decrypt_start: Decrypt.  (line  20)
* gpgme_op_decrypt_verify: Decrypt and Verify.  (line   6)
* gpgme_op_decrypt_verify_start: Decrypt and Verify.  (line  30)
* gpgme_op_delete: Deleting Keys.  (line  47)
* gpgme_op_delete_ext: Deleting Keys.  (line   6)
* gpgme_op_delete_ext_start: Deleting Keys.  (line  33)
* gpgme_op_delete_start: Deleting Keys.  (line  52)
* gpgme_op_edit: Deprecated Functions.  (line  48)
* gpgme_op_edit_start: Deprecated Functions.  (line  72)
* gpgme_op_encrypt: Encrypting a Plaintext.  (line   6)
* gpgme_op_encrypt_ext: Encrypting a Plaintext.  (line 131)
* gpgme_op_encrypt_ext_start: Encrypting a Plaintext.  (line 224)
* gpgme_op_encrypt_result: Encrypting a Plaintext.  (line 252)
* gpgme_op_encrypt_sign: Encrypting a Plaintext.  (line 252)
* gpgme_op_encrypt_sign_ext: Encrypting a Plaintext.  (line 263)
* gpgme_op_encrypt_sign_ext_start: Encrypting a Plaintext.  (line 288)
* gpgme_op_encrypt_sign_start: Encrypting a Plaintext.  (line 304)
* gpgme_op_encrypt_sign_start: Encrypting a Plaintext.  (line 274)
* gpgme_op_sign_start: Creating a Signature.
  (line 47)
* gpgme_op_spawn: Running other Programs.
  (line 13)
* gpgme_op_spawn_start: Running other Programs.
  (line 45)
* gpgme_op_tofu_policy: Changing TOFU Data. (line 29)
* gpgme_op_tofu_policy_start: Changing TOFU Data. (line 43)
* gpgme_op_trustlist_end: Listing Trust Items. (line 44)
* gpgme_op_trustlist_next: Listing Trust Items. (line 27)
* gpgme_op_trustlist_start: Listing Trust Items. (line 6)
* gpgme_op_verify: Verify. (line 6)
* gpgme_op_verify_result: Verify. (line 290)
* gpgme_op_verify_start: Verify. (line 26)
* gpgme_passphrase_cb_t: Passphrase Callback. (line 10)
* gpgme_pinentry_mode_t: Pinentry Mode. (line 26)
* gpgme_progress_cb_t: Progress Meter Callback.
  (line 8)
* gpgme_protocol_t: Protocols and Engines.
  (line 17)
* gpgme_protocol_t <1>: Engine Information. (line 7)
* gpgme_pubkey_algo_name: Public Key Algorithms.
  (line 58)
* gpgme_pubkey_algo_string: Public Key Algorithms.
  (line 68)
* gpgme_pubkey_algo_t: Public Key Algorithms.
  (line 10)
* gpgme_query_swdb_result_t: Checking for updates.
  (line 11)
* gpgme_recipient_t: Decrypt. (line 75)
* gpgme_register_io_cb_t: I/O Callback Interface.
  (line 23)
* gpgme_release: Destroying Contexts. (line 6)
* gpgme_result_ref: Result Management. (line 15)
* gpgme_result_unref: Result Management. (line 23)
* gpgme_set_armor: ASCII Armor. (line 6)
* gpgme_set_ctx_flag: Context Flags. (line 6)
* gpgme_set_engine_info: Engine Configuration.
  (line 11)
* gpgme_set_global_flag: Library Version Check.
  (line 44)
* gpgme_set_include_certs: Included Certificates.
  (line 6)
* gpgme_set_io_cbs: Registering I/O Callbacks.
  (line 35)
* gpgme_set_keylist_mode: Key Listing Mode. (line 6)
* gpgme_set_locale: Locale. (line 14)
* gpgme_set_offline: Offline Mode. (line 6)
* gpgme_set_passphrase_cb: Passphrase Callback. (line  40)
* gpgme_set_pinentry_mode: Pinentry Mode. (line  6)
* gpgme_set_progress_cb: Progress Meter Callback. (line  16)
* gpgme_set_protocol: Protocol Selection. (line  6)
* gpgme_set_sender: Setting the Sender. (line  13)
* gpgme_set_status_cb: Status Message Callback. (line  17)
* gpgme_set_textmode: Text Mode. (line  6)
* gpgme_signature_t: Verify. (line  92)
* gpgme_signers_add: Selecting Signers. (line  18)
* gpgme_signers_clear: Selecting Signers. (line  11)
* gpgme_signers_count: Selecting Signers. (line  25)
* gpgme_signers_enum: Selecting Signers. (line  31)
* gpgme_sign_result_t: Creating a Signature. (line  85)
* gpgme_sig_mode_t: Creating a Signature. (line  7)
* gpgme_sig_notation_add: Signature Notation Data. (line  19)
* gpgme_sig_notation_clear: Signature Notation Data. (line  10)
* gpgme_sig_notation_get: Signature Notation Data. (line  45)
* gpgme_sig_notation_t: Verify. (line  38)
* gpgme_sig_stat_t: Deprecated Functions. (line  442)
* gpgme_ssize_t: Exchanging Data. (line  32)
* gpgme_status_cb_t: Status Message Callback. (line  8)
* gpgme_strerror: Error Strings. (line  6)
* gpgme_strerror_r: Error Strings. (line  15)
* gpgme_strsource: Error Strings. (line  26)
* gpgme_subkey_t: Key objects. (line  112)
* gpgme_tofu_info_t: Key objects. (line  275)
* gpgme_tofu_policy_t: Changing TOFU Data. (line  13)
* gpgme_trust_item_get_int_attr: Deprecated Functions. (line  426)
* gpgme_trust_item_get_string_attr: Deprecated Functions. (line  411)
* gpgme_trust_item_ref: Manipulating Trust Items. (line  6)
* gpgme_trust_item_release: Deprecated Functions. (line  18)
* gpgme_trust_item_t: Trust Item Management. (line  8)
* gpgme_trust_item_unref: Manipulating Trust Items. (line  10)
* gpgme_user_id_t:       Key objects. (line 217)
* gpgme_validity_t:     Information About Keys. (line 9)
* gpgme_verify_result_t: Verify. (line 268)
* gpgme_wait:          Waiting For Completion. (line 6)
* IMPORT_FILES:        UI Server Import/Export Keys. (line 9)
* INPUT:               UI Server Encrypt. (line 23)
* INPUT <1>:           UI Server Sign. (line 12)
* INPUT <2>:           UI Server Decrypt. (line 12)
* INPUT <3>:           UI Server Verify. (line 16)
* MESSAGE:             UI Server Verify. (line 10)
* MICALG:              UI Server Sign. (line 43)
* off_t (*gpgme_data_seek_cb_t) (void *HANDLE, off_t OFFSET, int WHENCE): Callback Based Data Buffers. (line 43)
* OUTPUT:              UI Server Encrypt. (line 36)
* OUTPUT <1>:          UI Server Sign. (line 18)
* OUTPUT <2>:          UI Server Decrypt. (line 19)
* OUTPUT <3>:          UI Server Verify. (line 23)
* PREP_ENCRYPT:        UI Server Encrypt. (line 72)
* PROTOCOL:            UI Server Encrypt. (line 98)
* RECIPIENT:           UI Server Encrypt. (line 9)
* SENDER:              Miscellaneous UI Server Commands. (line 50)
* SESSION:             Miscellaneous UI Server Commands. (line 69)
* SIGN:                UI Server Sign. (line 33)
* SIGN_FILES:          UI Server Sign/Encrypt Files. (line 10)
* SIGSTATUS:           UI Server Verify. (line 56)
* ssize_t (*gpgme_data_read_cb_t) (void *HANDLE, void *BUFFER, size_t SIZE): Callback Based Data Buffers. (line 10)
* ssize_t (*gpgme_data_write_cb_t) (void *HANDLE, const void *BUFFER, size_t SIZE): Callback Based Data Buffers. (line 27)
* START_CONFDIALOG:     Miscellaneous UI Server Commands. (line 41)
* START_KEYMANAGER:     Miscellaneous UI Server Commands. (line 31)
* struct gpgme_data_cbs: Callback Based Data Buffers. (line 31)
* struct gpgme_io_cbs:  Registering I/O Callbacks. (line 6)
* VERIFY:              UI Server Verify. (line 31)
* VERIFY_FILES:        UI Server Verify/Decrypt Files. (line 10)
* void (*gpgme_data_release_cb_t) (void *HANDLE): Callback Based Data Buffers.
* Maintenance Mode from 2019

| Version:       | 0.0.1               |
| GPGME Version: | 1.13.0              |
| Author:        | Ben McGinnes <ben@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language:      | Australian English, British English |
| xml:lang:      | en-AU, en-GB, en    |

From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made. This also means that documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.
How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding for that position, the amount of time I will be able to dedicate solely to this task will be limited and reduced to volunteered time. As with all volunteered time and effort in free software projects, this will be subject to numerous external imperatives.

For most, if not all, Python developers using these bindings; they will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the lower level, dynamically generated methods which match the GPGME C documentation. While the more intuitively Pythonic higher level layer already covers the vast majority of functionality people require with key generation, signatures, certifications (key signing), encryption, decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking because they are missing from GPGME itself (e.g. revoking keys via the API) and in such cases they are usually deliberately excluded. More discussion of these issues can be found in the archives of the [gnupg-devel mailing list].

Any features existing in the dynamically generated layer for which people want a specific, higher level function included to make it more Pythonic (e.g. to avoid needing to learn or memorise cryptographic
mode values or GnuPG status code numbers), would be a feature request and /not/ a bug.

It is still worthwhile requesting it, but the addition of such a feature would not be guaranteed and provided on a purely volunteer basis. Expediting such a request would require funding that request.

Those with a commercial interest in expediting such a feature request already know how to [https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset][expedite it] (use the message field to state what feature is being requested).

** Documentation formats

:ThePROPERTIES:
:CUSTOM_ID: docs
:END:

The documentation has been written in Org mode for GNU Emacs, with both Texinfo and reStructuredText formats generated from that. The Texinfo files are intended for use with the rest of the GnuPG documentation; while the reStructuredText files are intended for use with Docutils and Sphinx, as with other Python projects.

*** Cautionary Notes regarding Sphinx and EPUB

:ThePROPERTIES:
:CUSTOM_ID: sphinx-made-epubs-suck
:END:

Though Python's Docutils in conjunction with Sphinx is capable of generating some very useful HTML sites, as proven by [https://readthedocs.org][Read the Docs] and the [https://docs.python.org][Python documentation], there are a number of output formats it does not handle well. At the top of the list of things it manages to break so atrociously as to be embarassing is the [http://idpf.org/epub][EPUB 3] format.

The automatically generated EPUB of the CPython documentation always contains hundreds of validation errors and even the modest amount of documentation here [https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-python/rst/epub/GPGMEPythonBindings.epub][produced a file] with approximately thirty validation errors. As the volume of documentation content increases, so does the induced errors. Whereas Texinfo doesn't produce EPUB output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a [https://dev.gnupg.org/maniphest/task/edit/form/4][feature request] case marked for [https://dev.gnupg.org/p/BenM][my] attention. The means of generating such files flawlessly is already available, but is not yet part of the
GnuPG build system. Nor is it integrated with a means of converting Org mode input files to the relevant base format automatically, as can already be done when converting Org to reStructuredText or Org to Texinfo. As a certain amount of work would be required to get it done, there would need to be clear demand for that work to be done.

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-05-11 Marcus Brinkmann <marcus@g10code.com>

* gpgsm/Makefile.am (DISTCLEANFILES): Move to ...
  (CLEANFILES): ... here.
  (clean-local): New rule.
* gpg/Makefile.am (DISTCLEANFILES): Move to ...
  (CLEANFILES): ... here.

2011-05-05 Marcus Brinkmann <marcus@g10code.com>

* gpg/Makefile.am: Unset GPG_AGENT_INFO when setting up local configuration.
  (clean-local): Shut down local gpg-agent.

2011-05-04 Marcus Brinkmann <marcus@g10code.com>

* gpg/t-import.c (check_result): Complete secret key pair counting and disable status check, as GPG 2.1 currently emits two IMPORT_OK lines and we only look at the first.

2011-04-27 Marcus Brinkmann <marcus@g10code.com>

* gpg/Makefile.am (DISTCLEANFILES): Add S.gpg-agent.
  (mkdemodirs, ./Alpha/Secret.gpg): Remove targets.
  (GNUPGHOME): Export as absolute build directory (for gpg-agent).
  (./pubring.gpg): Remove --homedir option, import secdemo.asc.
  (clean-local): Rewrite.
* gpg/pubkey-1.asc, gpg/seckey-1.asc: Change passphrase to "abc" (now needed as GnuPG 2.1 asks for secret key passphrase on import).
* gpg/t-keylist.c (keys): Update key info for Joe Random Hacker.
  (main): Disable check for can_encrypt, as this is now in a different subkey.
* gpg/t-encrypt-sign.c (check_result): Allow RMD160 hash algorithm.
* gpg/t-import.c (check_result): One secret key pair now counts as two secret keys, allow that.

2009-11-03 Werner Koch <wk@g10code.com>

* run-support.h (fail_if_err): Include program name.

* run-sign.c (main): Add option --uiserver.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* opassuan/t-command.c: Update to new interface.

2009-10-15 Werner Koch <wk@g10code.com>

* run-verify.c: New.

2009-08-06 Werner Koch <wk@g10code.com>

* run-sign.c: New.

2009-07-07 Werner Koch <wk@g10code.com>

* run-keylist.c (main): Add options --cms and --openpgp.

* gpg/pgp-keylist.c: Rename to ...
* run-keylist.c: ... this.
* gpg/pgp-import.c: Rename to ...
* run-import.c: ... this.
* gpg/pgp-export.c: Rename to ...
* run-export.c: ... this.
* run-support.h: New. Copied from gpg/t-support.h.
* gpg/Makefile.am (noinst_PROGRAMS): Remove them.
* Makefile.am (noinst_PROGRAMS): Add them.
* (noinst_HEADERS): New.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-support.h (passphrase_cb): Implement write() according to the book to silence compiler warning.
* gpgsm/t-support.h (passphrase_cb): Likewise.

2009-06-16 Werner Koch <wk@g10code.com>

* gpg/pgp-import.c: New.
* gpg/t-support.h (print_import_result, nonnull): Factored out from other tools.
2009-06-09 Werner Koch <wk@g10code.com>

* gpg/pgp-export.c, gpg/pgp-keylist.c: New.

2009-04-19 Moritz <moritz@gnu.org>

* gpg/Makefile.am (/pubring.gpg): Ignore errors in case of already imported keys. Add --no-permission-warning and remove obsolete --allow-secret-key-import.
* gpg/mkdemodirs.in (GPG): Add --no-permission-warning.

* gpg/t-edit.c (edit_fnc): Use gpgme_io_write.

2009-02-24 Werner Koch <wk@g10code.com>

* opassuan/t-command.c: Adjust for changed new op_assuan interface.

2009-02-03 Werner Koch <wk@g10code.com>

* gpg/t-keylist.c (main): Check that new fields is_cardkey and card_number are not set.

2008-12-03 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (INCLUDES): Fix path to include file.
* gpg/Makefile.am (INCLUDES), gpgsm/Makefile.am (INCLUDES): Likewise.

2008-11-18 Werner Koch <wk@g10code.com>

* gpgsm/cms-decrypt.c: New.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>
* gpgsm/Makefile.am (INCLUDES, LDADD): Replace gpgme path with src.
* gpg/Makefile.am (INCLUDES, LDADD, t_thread1_LDADD): Likewise.
* Makefile.am (LDADD): Likewise.

2008-10-30 Werner Koch <wk@g10code.com>

* gpgsm/cms-keylist.c: New.

2008-06-19 Werner Koch <wk@g10code.com>

* gpg/t-gpgconf.c (dump_arg): Add new types. Print strings in quotes.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (DISTCLEANFILES): Add pubring.kbx~.

2008-01-10 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-gpgconf.c (main): Allow for dirmngr not to be available.
* gpg/Makefile.am (./gpg-agent.conf): Correct pinentry path.

* gpg/Makefile.am (DISTCLEANFILES, all-local): Add gpg-agent.conf
  (EXTRA_DIST): Add pinentry.

* gpg/t-gpgconf.c (main): Exit early if compiled without gpgconf.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): Add pubring.kbx and dirmngr.conf.

* Makefile.am (TESTS_ENVIRONMENT): Use absolute path for GNUPGHOME.
* gpg/Makefile.am (TESTS_ENVIRONMENT): Use absolute path for GNUPGHOME.
* gpgsm/Makefile.am (TESTS_ENVIRONMENT): Use absolute path for GNUPGHOME.
* gpg/Makefile.am (TESTS): Add t-gpgconf.
  t-gpgconf.c: New file.

2007-11-23 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (show_auditlog): Check for GPG_ERR_ASS_UNKNOWN_CMD.
2007-11-23 Werner Koch <wk@g10code.com>

* gpgsm/t-verify.c (check_result): Don't exit on error but set a flag.
  (main): Consult flag for return value.
  (show_auditlog): New.
  (main): Use it.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* t-engine-info.c (check_engine_info): Fix debug output.
* gpg/Makefile.am (tests_unix): New variable.
  (TESTS): Use it.
* gpg/t-support.h (passphrase_cb) [HAVE_W32_SYSTEM]: Use WriteFile instead of write.
* gpg/t-wait.c [HAVE_W32_SYSTEM]: Define sleep as _sleep.

2007-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (main): Release TEXT and SIG.

2007-07-12 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (key_id): Change := into =.

2007-07-12 Werner Koch <wk@g10code.com>

* gpgsm/t-support.h (init_gpgme) [W32]: Do not init the locales as the constants are not available.

2007-02-26 Werner Koch <wk@g10code.com>

* gpg/t-verify.c (double_plaintext_sig): New.
  (main): Check it.

2006-12-02 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Skip unknown keys. Newer versions of GPGSM import more keys than older ones.

2005-12-06 Werner Koch <wk@g10code.com>

* gpg/t-keylist.c (main): Changed for that secondary keys now have a fingerprint.
* gpg/t-keylist-sig.c (main): Ditto.
* gpgsm/t-keylist.c (main): Ditto. The test used to be wrong.

2005-10-18 Werner Koch <wk@g10code.com>

* gpg/pubdemo.asc, gpg/secdemo.asc: Add 2 expired subkeys to
Whisky.
* gpg/t-keylist.c: Reordered list to match new demo keyring. Add arg for number of subkeys and for extra checking function.
(main): Enhanced a few error outputs. Changed subkey counting. Call extra checking function.
(check_whisky): New.

2005-10-07 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Allow for an email address as a second uid.

* gpg/t-sig-notation.c: Change critical notation to something GnuPG understands.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (EXTRA_DIST): Remove gpg.conf.
(DISTCLEANFILES): Add gpg.conf.
(all-local): Add gpg.conf.
(.gpg.conf): New target.
* gpg/gpg.conf: Remove file.

* gpg/Makefile.am (EXTRA_DIST): Add gpg.conf.

* gpg/Makefile.am (TESTS): Add t-sig-notation.
* gpg/t-sig-notation.c (check_result): New file.
* gpg/t-verify.c (check_result): Also check the length of the notation data.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-filename.

2005-09-23 Werner Koch <wk@g10code.com>

* gpg/t-support.h (init_gpgme) [W32]: Don't use LC_MESSAGES.

* gpg/t-encrypt-large.c: New test.
* gpg/Makefile.am (TESTS): Add t-encrypt-large.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-wait.
* gpg/t-wait.c (main): New test.
2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* gpg/mkdemodirs: Add copyright notice.

* gpgsm/Makefile.am, gpgsm/t-support.h, gpgsm/t-decrypt.c, gpgsm/t-encrypt.c, gpgsm/t-export.c, gpgsm/t-genkey.c, gpgsm/t-import.c, gpgsm/t-keylist.c, gpgsm/t-sign.c, gpgsm/t-verify.c, gpg/Makefile.am, gpg/t-decrypt.c, gpg/t-decrypt-verify.c, gpg/t-edit.c, gpg/t-encrypt.c, gpg/t-encrypt-sign.c, gpg/t-encrypt-sym.c, gpg/t-eventloop.c, gpg/t-export.c, gpg/t-genkey.c, gpg/t-import.c, gpg/t-keylist.c, gpg/t-keylist-sig.c, gpg/t-sign.c, gpg/t-signers.c, gpg/t-support.h, gpg/t-thread1.c, gpg/t-trustlist.c, gpg/t-verify.c, Makefile.am, t-data.c, t-engine-info.c, t-version.c: Change license to LGPL.

2004-08-17 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (struct): Add new fields VALIDITY and KEY_LENGTH.
  (main): Use them.
* gpgsm/t-import.c (check_result): New argument total_stat.
  (main): Pass this argument. Reduce number of total considered keys to 1 for the second test.

2004-04-05 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am: Changed the faked system time to 20011213T12000.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c: Add chain IDs.

2004-03-03 Werner Koch <wk@gnupg.org>

* gpgsm/t-export.c (main): Also check exporting 2 certificates.

2004-02-17 Werner Koch <wk@gnupg.org>

* gpgsm/t-import.c (check_result): gpgsm does now return info in the result->imports; adjust for that.

* gpgsm/Makefile.am (TESTS_ENVIRONMENT): Reset the GPG_AGENT_INFO.

  Include config.h at the top of each C source. This is required due to LFS support.

* gpg/t-keylist-sig.c (main): s/class/sig_class/.
* gpg/t-signers.c (check_result): Ditto.
* gpg/t-sign.c (check_result): Ditto.
* gpg/t-encrypt-sign.c (check_result): Ditto.
* gpgsm/t-sign.c (check_result): Ditto.

2004-01-12 Werner Koch <wk@gnupg.org>

* gpg/t-keylist-sig.c (main): Temporary disabled one test due to gpg 1.3.4 problems.
* gpg/t-import.c (check_result): Likewise.

2003-11-19 Werner Koch <wk@gnupg.org>

* gpg/t-support.h (DIM): Added.
* gpg/t-verify.c (check_result): Rewrote test for notations because the order of notations is not guaranteed.

* gpgsm/t-support.h (fail_if_err): Also print the numeric values.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c: Include <sys/types.h> for old systems.
* gpgsm/Makefile.am (DISTCLEANFILES): Add random_seed.
* gpg/t-thread1.c (thread_one): Do not call initialize_gpgme. Likewise.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-thread1.c (main): Call init_gpgme here.
  (initialize_gpgme): Function removed.

* gpg/t-thread1.c: New file.
* gpg/Makefile.am (TESTS): Add t-thread1.c.
  (t_thread1_LDADD): New variable.
  (LDADD): Remove GPG Error lib.
* gpgsm/Makefile.am (LDADD): Likewise.

* gpg/t-import.c (main): Likewise.
* gpg/t-keylist-sig.c (main): Likewise.
* gpg/t-keylist.c (main): Likewise.
* gpg/t-sign.c (main): Likewise.
* gpg/t-signers.c (main): Likewise.
* gpg/t-trustlist.c (main): Likewise.
* gpgsm/t-support.h: Include <stdlib.h> and <locale.h>.
  (init_gpgme): New function.
* gpg/t-support.h: Likewise.
* gpgsm/t-verify.c (main): Call init_gpgme.
* gpgsm/t-decrypt.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.
* gpgsm/t-genkey.c (main): Likewise.
* gpgsm/t-import.c (main): Likewise.
* gpgsm/t-keylist.c (main): Likewise.
* gpgsm/t-sign.c (main): Likewise.
* gpg/t-verify.c (main): Call init_gpgme.
* gpg/t-decrypt-verify.c (main): Likewise.
* gpg/t-decrypt.c (main): Likewise.
* gpg/t-edit.c (main): Likewise.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpg/t-encrypt-sym.c (main): Likewise.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-eventloop.c (main): Likewise.
* gpg/t-export.c (main): Likewise.
* gpg/t-genkey.c (main): Likewise.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-sign.c (check_result): Change output format for signature class to unsigned int.
* gpg/t-signers.c (check_result): Likewise.
* gpg/t-encrypt-sign.c (check_result): Likewise.
* gpgsm/t-sign.c (check_result): Likewise.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-verify.c (check_result): Change type of SUMMARY to unsigned int.
* gpg/t-decrypt-verify.c (check_verify_result): Likewise.
* gpg/t-keylist-sig.c (keys): Change type of member CLASS to unsigned int.
* t-data.c (read_cb): Change type of AMOUNT to unsigned int.
* t-version.c (version): Remove unused variable.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (AM_CPPFLAGS): New variable.
  (LDADD): Add @GPG_ERROR_LIBS@.
* gpg/Makefile.am (AM_CPPFLAGS): New variable.
  (LDADD): Add @GPG_ERROR_LIBS@.
* gpgsm/Makefile.am (AM_CPPFLAGS): New variable.
  (LDADD): Add @GPG_ERROR_LIBS@.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>
Everywhere: Use libgpg-error error codes.

* gpg/Makefile.am (noinst_HEADERS): New variable.
* gpg/t-support.h: New file.
* gpgsm/Makefile.am (noinst_HEADERS): New variable.
* gpgsm/t-support.h: New file.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sym.c (main): Adapt to new syntax.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-eventloop.c (main): Likewise.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c (main): Rewrite recipient management.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpg/t-encrypt.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Order t-keylist and t-keylist-sig after t-import.
* gpg/t-edit.c (edit_fnc): Fix primary UID for keylisting tests.
* gpg/t-keylist.c: Change order of user IDs.
* gpg/t-keylist-sig.c: Likewise.
* gpg/t-import.c: Add support for gpg in CVS.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* t-data.c: Remove TEST_OUT_CB.
   (main): Likewise.
* gpg/t-trustlist.c (main): Access ITEM directly.

* (t-decrypt-verify.c, t-decrypt.c, t-edit.c, t-encrypt-sign.c, t-encrypt-sym.c, t-sign.c, t-signers.c): Include <unistd.h>.
   (passphrase_cb): Rewritten.
* t-edit.c (edit_fnc): Rewritten.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>
* gpg/t-keylist-sig.c (main): Remove timestamp check.

* gpgsm/t-keylist.c: Add check for timestamp.

* gpg/Makefile.am (TESTS): Add t-keylist-sig.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c (main): Do not call print_op_info.
  (print_op_info): Function removed.

* gpg/t-keylist.c: Rewritten.
* gpgsm/t-keylist.c (main): Rewritten.
* gpg/t-edit.c (main): Do not use gpgme_key_get_as_xml. Use
  gpgme_key_unref instead gpgme_key_release.
* gpg/t-signers.c (main): Use gpgme_key_unref instead
  gpgme_key_release.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-trustlist.c: Rewritten.

* gpg/t-verify.c (main): Rewritten.
* gpg/t-decrypt-verify.c: Rewritten.
* gpgsm/t-verify.c (main): Rewritten.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-decrypt.c (main): Rewritten.

* gpg/t-decrypt.c: Rewritten.

* gpg/t-signers.c: Rewritten.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sign.c (check_result): Rewritten.

* gpg/t-sign.c: Rewritten.
* gpgsm/t-sign.c: Rewritten.
* gpg/t-encrypt.c: Check for invalid recipients.
* gpgsm/t-encrypt.c: Likewise.

* gpg/t-import.c (check_result): Really use FPR.
* gpgsm/t-import.c (check_result): Rewritten.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>
* gpg/t-import.c: Rewritten.

* gpgsm/t-genkey.c: Rewritten.
  * gpgsm/Makefile.am (noinst_PROGRAMS): Add t-genkey.
  * gpg/t-genkey.c: Include <stdlib.h>.
  (main): Check result->fpr before checking its length.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-genkey.c: Rewritten to match new semantics.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-decrypt.c (passphrase_cb): Fix to new prototype.
  * gpg/t-decrypt-verify.c (passphrase_cb): Likewise.
  * gpg/t-edit.c (passphrase_cb): Likewise.
  * gpg/t-encrypt-sign.c (passphrase_cb): Likewise.
  * gpg/t-encrypt-sym.c (passphrase_cb): Likewise.
  * gpg/t-sign.c (passphrase_cb): Likewise.
  * gpg/t-signers.c (passphrase_cb): Likewise.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* t-engine-info.c: Use file_name instead path throughout.

  * Makefile.am (TESTS): Add t-engine-info.
  * t-engine-info.c: New file.
  * gpg/t-encrypt.c (main): Don't print engine info.
  * gpg/t-eventloop.c (main): Likewise.
  * gpg/t-encrypt-sign.c (main): Likewise.
  * gpgsm/t-encrypt.c (main): Likewise.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (main): Adjust caller of gpgme_op_verify.
  * gpg/t-verify.c (main): Likewise.
  * gpg/t-decrypt-verify.c (main): Likewise for gpgme_op_decrypt_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

  * gpgsm/Makefile.am (/gpgsm.conf): Add a faked system time to avoid certification's expiry.
  * gpgsm/t-encrypt.c (main): Use the short certification name.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>
* gpg/t-genkey.c (main): Add missing argument to gpgme_op_genkey invocation.

2002-10-09 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-decrypt.c (print_data): Update to new gpgme_data_read interface, and use gpgme_engine_check_version instead gpgme_check_version.
* gpg/t-decrypt-verify.c (print_data): Likewise.
* gpg/t-edit.c (main): Likewise.
* gpg/t-encrypt.c (print_data): Likewise.
* gpg/t-encrypt-sign.c (print_data): Likewise.
* gpg/t-encrypt-sym.c (print_data): Likewise.
* gpg/t-eventloop.c (print_data): Likewise.
* gpg/t-export.c (print_data): Likewise.
* gpg/t-sign.c (print_data): Likewise.
* gpg/t-signers.c (print_data): Likewise.
* gpgsm/t-decrypt.c (print_data): Likewise.
* gpgsm/t-encrypt.c (print_data): Likewise.
* gpgsm/t-export.c (print_data): Likewise.
* gpgsm/t-sign.c (print_data): Likewise.
* gpg/t-verify.c (main): Likewise for gpgme_op_verify.
* gpgsm/t-verify.c (main): Likewise for gpgme_op_verify.
* t-data.c (read_once_test): Likewise.
(write_test): Update for new behaviour of data objects.
(main): Remove type test.

2002-09-30 Werner Koch <wk@gnupg.org>

* gpgsm/t-keylist.c (doit): Add arg SECRET.
(main): Add option --secret.

2002-09-28 Marcus Brinkmann <marcus@g10code.de>

* t-version.c: Include <string.h>. Reported by Stphane Corhisy.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-keylist.c (main): Test PATTERN for NULL before printing. Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-08-01 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-edit.c: Also add a test for the expire command (testing the passphrase callback).

2002-07-28 Marcus Brinkmann <marcus@g10code.de>
* gpg/Makefile (TESTS): Add t-edit.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sym.c (main): Change type of I to size_t and rename to LEN.
* gpg/t-verify.c (main): Likewise. Submitted by Stephane Corthsy.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile (TESTS): Add t-eventloop.

2002-06-26 Werner Koch <wk@gnupg.org>


2002-06-25 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am (DISTCLEANFILES): new.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (TESTS): Add t-export.

2002-06-20 Werner Koch <wk@gnupg.org>

* gpgsm/t-sign.c (main): Also test a normal signature.

* gpg/Makefile (TESTS_ENVIRONMENT): Set GPG_AGENT_INFO empty.
* gpg/t-signers.c, gpg/t-sign.c, gpg/t-encrypt-sym.c
* gpg/t-encrypt-sign.c, gpg/t-decrypt.c
* gpg/t-decrypt-verify.c (main): Changed the GPG_AGENT_INFO check to match the one in ../..gpgme/rungpg.c.

2002-06-12 Werner Koch <wk@gnupg.org>

* gpgsm/t-keylist.c (doit): Print operation info if available.

2002-06-10 Werner Koch <wk@gnupg.org>

* gpgsm/t-verify.c (print_sig_stat): Print the error token.

2002-06-04 Werner Koch <wk@gnupg.org>
* gpgsm/t-encrypt.c (main): Add a simple option parser and allow to specify an encryption key.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (all-local): Remove dependency on ./secring.gpg.
  ./secring.gpg: Remove target, and move all rules for this target to ...
  ./pubring.gpg: ... here. This was necessary because GnuPG 1.0.7 does create an empty secring.gpg file when importing public keys.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (validity_string): New.
  (print_sig_stat): Print expire time and validity.
  (status_string): Add new exipred stati.

2002-05-03 Werner Koch <wk@gnupg.org>

* gpg/t-verify.c (validity_string): New.
  (print_sig_stat): Print expire time and validity.
  (status_string): Add new exipred stati.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (./trustlist.txt): Put more into this file to prevent use of gpg-agent.
  ./gpg-agent.conf: Remove target.
  (all-local): Remove ./gpg-agent.conf.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Use gpgme_engine_check_version instead gpgme_check_engine.
  * gpgsm/t-encrypt.c (main): Likewise.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

  * gpg/Makefile.am (TESTS): Add t-encrypt-sym.

2002-03-05 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): Remove random_seed, which is now in DISTCLEANFILES.

2002-03-04 Werner Koch <wk@gnupg.org>
* gpg/Makefile.am (DISTCLEANFILES): Added.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-verify.c (main): Add a few more sanity checks, and a check for normal signatures.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-encrypt-sign.

2002-02-13 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am (private-keys-v1.d): Don't fail when the directory already exists.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): New target.
  (distclean-local): Rename to ...
  (clean-local): ... this.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>


2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-genkey.c: New file (not added to Makefile.am because of gpg-agent bug).

2002-02-08 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (key_id): Update value.
  (all-local): Add .key to keyid filename.
  (./private-keys-v1.d/$(key_id)): Renamed to ...
  (./private-keys-v1.d/$(key_id).key): ... this.
  (all-local): Add ./gpgsm.conf, ./trustlist.txt.
  (./gpgsm.conf, ./trustlist.txt): New target.
* gpgsm/567064FE6D14A17B2D811ABBB0728BC558AA455: Renamed to ...
* gpgsm/32100C2713EF6E9C4E9A25D3D69F86D37A4F939: ... this.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-import.c (print_op_info): New function.
  (main): Use it.
2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-signers.c (passphrase_cb): Change type of r_hd to void**.
* gpg/t-sign.c (passphrase_cb): Likewise.
* gpg/t-decrypt-verify.c (passphrase_cb): Likewise.
* gpg/t-decrypt.c (passphrase_cb): Likewise.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-decrypt-verify.c: Don't include `mcheck.h'. Reported by Stphane Corthsy.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (EXTRA_DIST): Add missing line continuation.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (EXTRA_DIST): Add $(key_id).

2001-12-16 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile: Rename `pubcerts.kbx' to `pubring.kbx'.

2001-12-15 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (check_two_contexts): Set protocols.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (TESTS): Add t-sign.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-decrypt.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-decrypt.

(key_id): New variable.
(all-local): New target ./private-keys-v1.d/$(key_id) added.
(./private-keys-v1.d/$(key_id)): New target.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-verify.
2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (GPG): Set to @GPG_PATH@.
   (/pubring.gpg): Use $(GPG) instead gpg.
   (/secring.gpg): Likewise.

* gpgsm/t-import.c (main): Remove third test case.
* gpgsm/Makefile.am (GPGSM): Set to @GPGSM@.
   (all-local): New target.
   (/pubcerts.kbx): Likewise.
* gpgsm/t-encrypt.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-encrypt.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-keylist.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/cert_dfn_pca01.der: New file.
* gpgsm/cert_dfn_pca15.der: Likewise.
* gpgsm/cert_g10code_test1.der: Likewise.
* gpgsm/t-import.c: Likewise.
* gpgsm/Makefile.am (EXTRADIST): Add new files.
  (TESTS): Add t-import.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/: New directory.
* Makefile.am, t-verify.c, t-encrypt.c, t-signers.c, t-trustlist.c,
  t-sign.c, t-keylist.c, t-import.c, t-genkey.c, t-export.c,
  t-decrypt-verify.c, t-decrypt.c, t-version.c, t-data.c, mkdemodirs.
  cipher-1.asc, cipher-2.asc, geheim.txt, pubdemo.asc, pubkey-1.asc,
  secdemo.asc, seckey-1.asc): Move to sub directory gpg/.

* gpg/Makefile.am (INCLUDES): Include gpgme/, not include/ and
  intl/.
    (LDD): Correct relative path to gpgme library.
    (TESTS): Remove t-version and t-data.
* gpg/t-verify.c, gpg/t-encrypt.c, gpg/t-signers.c, gpg/t-trustlist.c,
  gpg/t-sign.c, gpg/t-keylist.c, gpg/t-import.c, gpg/t-genkey.c,
  gpg/t-export.c, gpg/t-decrypt-verify.c, gpg/t-decrypt.c,
  t-version.c, t-data.c): Include gpgme.h, not "./.gpgme/gpgme.h".

* gpgsm/: New directory.
* gpgsm/Makefile.am: New file.
2001-11-16 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (TESTS): Add t-decrypt-verify.
* t-decrypt-verify.c: New file.
* cipher-2.asc: Likewise.

2001-11-02 Marcus Brinkmann <marcus@g10code.de>

* t-data.c: Include stddef.h.
(read_once_test): Change type of READ to size_t.
(read_test): Likewise.
(write_test): Likewise.

2001-10-29 Marcus Brinkmann <marcus@g10code.de>

* t-signers.c: New file.
* Makefile.am (TESTS): Add t-signers.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (TEST_ENVIRONMENT): Revert last change.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (TEST_ENVIRONMENT): Set environment to $(srcdir),
not current directory.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* t-data.c (write_test): New function.
(main): Invoke write_test for all rounds except TEST_OUT_CB.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (INCLUDES): Remove spurious duplicate to silence
automake.

2001-10-16 Marcus Brinkmann <marcus@g10code.de>

* t-version.c: New file.
* t-data.c: Likewise.
* t-data-1.txt: Likewise.
* t-data-2.txt: Likewise.
* Makefile.am (TESTS): Add t-version, t-data.

2001-09-17 Werner Koch <wk@gnupg.org>
* t-keylist.c (check_two_contexts): New.

2001-09-03  Werner Koch  <wk@gnupg.org>

* t-encrypt.c (print_op_info): New and use it after each operation.

2001-08-28  Werner Koch  <wk@gnupg.org>

* t-sign.c (print_op_info): New and use it after each operation.

2001-03-15  Werner Koch  <wk@gnupg.org>

* t-keylist.c (doit): List subkeys too, show caps.

2001-02-13  Werner Koch  <wk@gnupg.org>

* t-verify.c (print_sig_stat): Repaled ulong by unsigned long
  because we don't use the config stuff here.

2001-02-12  Werner Koch  <wk@gnupg.org>

* tests/t-verify.c (print_sig_stat): Print info about the keys.

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+<&[AF]F%7
ZlRaW=OC,.meKW@J-*<,L}\:Bnm-kv
What's New

| Version: | 0.0.1 |
| GPGME Version: | 1.13.0 |
| Author: | Ben McGinnes <ben@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language: | Australian English, British English |
| xml:lang: | en-AU, en-GB, en |

Last time the most obviously new thing was adding the /What's New/ section to the HOWTO. Now it's moving it out of the HOWTO.

** New in GPGME 1130

Additions since GPGME 1.12.0 include:
- Moving the /What's New/ section out of the basic [[file:gpgme-python-howto.org][HOWTO]] document and into its own file so as to more readily include other documents beyond that HOWTO.
- Moving the preceding, archival, segments into [[file:what-was-new.org][another file]].
- Added =gpg.version.versionintlist= to make it easier for Python developers to check for a specific version number, even with beta versions (it will drop the "-betaN" part).
- Added expanded detail on issues pertaining to installing for Windows users.
- Added documentation on maintenance mode and what changes can be made to the code when in that status. Essentially that boils down to bug fixes only and no feature requests.
- The import-keys-hkp.py example script, which uses the =hkp4py= module to search the SKS servers for a key, has been tightened up to search for both hexadecimal key IDs and user ID strings with reduced chance of unnecessary repetition. There may still be some repetition if a key includes a user ID matching the hexadecimal value of a key ID.

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Version 2.1, February 1999

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That's all there is to it!
txt('2008-07-17',(0.608301,0,0,0.608301,708.661,65.8308))
lw(1)
rt(0,0,0,0.750,427.153,265)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2((([-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(219.685,325.984,0)
bs(219.685,198.425,0)
bs(219.685,162.992,0)
G()
fp((1,1,1))
lw(0.283465)
rt(113.386,0,0,-42.5196,35.4333,162.992,0.0670228,0.151107)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('LDAP Server',(0.552654,0,0,0.552654,92.1261,148.819),1,1)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('CRLs, Certificates',(0.552654,0,0,0.552654,92.1261,134.646),1,1)
G_()
G()
fp((1,1,1))
lw(0.283465)
rt(113.386,0,0,-42.5196,35.4331,99.2125,0.0670228,0.151107)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('HTTP Server',(0.552654,0,0,0.552654,92.1259,85.0394),1,1)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
Certificate Cache

CRL Cache

G_()

la2((([-4.0, 3.0], [2.0, 0.0], [-4.0, -3.0], [-4.0, 3.0]], 1))

bs(503.149, 240.945, 0)
bs(503.149, 283.464, 0)
bs(588.189, 283.465, 0)
bs(588.189, 325.984, 0)
lw(1)
la2((([-4.0, 3.0], [2.0, 0.0], [-4.0, -3.0], [-4.0, 3.0]], 1))

bs(503.149, 283.464, 0)
bs(503.149, 283.464, 0)
bs(361.417, 283.464, 0)
bs(361.417, 325.984, 0)
lw(1)
la2((([-4.0, 3.0], [2.0, 0.0], [-4.0, -3.0], [-4.0, 3.0]], 1))

bs(361.417, 283.464, 0)
bs(205.512, 283.465, 0)
bs(205.512, 325.984, 0)
lw(1)
la2((([-4.0, 3.0], [2.0, 0.0], [-4.0, -3.0], [-4.0, 3.0]], 1))

bs(361.417, 283.464, 0)
bs(205.512, 283.465, 0)
bs(205.512, 325.984, 0)
lw(1)
la2((([-4.0, 3.0], [2.0, 0.0], [-4.0, -3.0], [-4.0, 3.0]], 1))

bs(574.015, 85.0393, 0)
bs(574.015, 141.732, 0)
bs(262.204, 141.732, 0)
lw(1)
la2((([-4.0, 3.0], [2.0, 0.0], [-4.0, -3.0], [-4.0, 3.0]], 1))

bs(574.015, 85.0393, 0)
bs(574.015, 141.732, 0)
bs(262.204, 141.732, 0)
lw(1)
la2((([-4.0, 3.0], [2.0, 0.0], [-4.0, -3.0], [-4.0, 3.0]], 1))

bs(602.361, 85.0393, 0)
bs(602.361, 170.079, 0)
bs(439.37, 170.079, 0)
bs(439.37, 311.811, 0)
bs(460.629, 311.811, 0)
NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-10-25 Marcus Brinkmann <marcus@g10code.com>

* Makefile.am: Remove build rules for libgpgme-pth.
* gpgme.m4: Remove support for libgpgme-pth.

2011-05-26 Marcus Brinkmann <marcus@g10code.com>

* decrypt.c (gpgme_op_decrypt_start, gpgme_op_decrypt): Check CTX.
* decrypt-verify.c (gpgme_op_decrypt_verify_start)
  (gpgme_op_decrypt_verify): Likewise.
* delete.c (gpgme_op_delete_start, gpgme_op_delete): Likewise.
* edit.c (gpgme_op_edit_start, gpgme_op_edit)
  (gpgme_op_card_edit_start, gpgme_op_card_edit): Likewise.
* encrypt.c (gpgme_op_encrypt_start, gpgme_op_encrypt): Likewise.
* encrypt-sign.c (gpgme_op_encrypt_sign_start)
  (gpgme_op_encrypt_sign): Likewise.
* export.c (gpgme_op_export_start, gpgme_op_export)
  (gpgme_op_export_ext_start, gpgme_op_export_ext)
  (gpgme_op_export_keys_start, gpgme_op_export_keys): Likewise.
* genkey.c (gpgme_op_genkey_start, gpgme_op_genkey): Likewise.
* getauditlog.c (gpgme_op_getauditlog_start)
  (gpgme_op_getauditlog): Likewise.
* gpgconf.c (gpgme_op_conf_load, gpgme_op_conf_save): Likewise.
* import.c (gpgme_op_import_start, gpgme_op_import_keys_start)
(gpgme_op_import_keys, gpgme_op_import): Likewise.
* keylist.c (gpgme_op_keylist_start, gpgme_op_keylist_ext_start):
  Likewise.
* opassuan.c (gpgme_op_assuan_transact_start)
  (gpgme_op_assuan_transact_ext): Likewise.
* passwd.c (gpgme_op_passwd_start, gpgme_op_passwd): Likewise.
* sign.c (gpgme_op_sign_start, gpgme_op_sign): Likewise.
* trustlist.c (gpgme_op_trustlist_start)
  (gpgme_op_trustlist_next): Likewise.
* verify.c (gpgme_op_verify_start, gpgme_get_sig_key): Likewise.
* op-support.c (_gpgme_op_data_lookup): Likewise.
* vfs-create.c (gpgme_op_vfs_transact, gpgme_op_vfs_create): Likewise.
* vfs-mount.c (gpgme_op_vfs_mount, gpgme_op_vfs_transact): Likewise.
* gpgme.c (gpgme_set_protocol)
  (gpgme_set_sub_protocol)
  (gpgme_set_armor, gpgme_set_include_certs)
  (gpgme_set_keylist_mode, gpgme_set_passphrase_cb)
  (gpgme_set_progress_cb, gpgme_set_io_cbs, gpgme_set_locale)
  (gpgme_ctx_set_engine_info, gpgme_sig_notation_clear): Likewise.
* gpgme.c (gpgme_new): Check for valid R_CTX.
  (gpgme_cancel, gpgme_cancel_async, gpgme_release): Likewise.

2011-04-06 Werner Koch <wk@g10code.com>

* gpgme-config.in: Add option --host. Change options --cflags and
  --libs to collapse duplicate include and lib dirs. Try to put
  extra libs at the end.

* gpgme.h.in: Use INSERT__TYPEDEFS_FOR_GPGME_H to include platform
  specific typedefs.

2011-02-03 Werner Koch <wk@g10code.com>

* extra-stati.h: New.
* mkstatus: Extend to also process extra-stati.h
* Makefile.am (main_sources): Add extra-stati.h
  (status-table.h): Depend on extra-stati.h and adjust rule.

2011-02-03 Marcus Brinkmann <marcus@g10code.com>

* w32-io.c (_gpgme_io_socket): Return fd, not res.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

* assuan-support.c (my_socket, my_connect): New functions.
  (_gpgme_assuan_system_hooks): Add my_Socket, my_connect.
* w32-io.c (pid_to_handle, handle_to_oid, fd_to_handle): Remove macros.
(is_socket): Remove function.
(_gpgme_io_spawn) [HAVE_W32CE_SYSTEM]: Remove some dead code.
(_gpgme_io_spawn): Translate handles before DuplicateHandle them.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

* w32-util.c (mkstemp): Don’t use CreateFile instead of open (the function is not used on Windows CE, and the callers were not adjusted).

2011-01-21 Marcus Brinkmann <mb@g10code.com>

* engine-gpgconf.c (_gpgme_conf_opt_change): Fix the case that is not self-assignment.

2010-12-08 Werner Koch <wk@g10code.com>

* gpgme-tool.c (strcpy_escaped_plus): New.
  (DIM, xtoi_1, xtoi_2): New.
  (cmd_keylist): Allow for multiple patterns.

2010-11-23 Marcus Brinkmann <mb@g10code.com>

* w32-io.c (create_reader, create_writer): Use small stack size on Windows CE.

2010-11-23 Marcus Brinkmann <mb@g10code.com>

* gpgme.h.in (gpgme_conf_arg_new): Make VALUE arg const void *.
  * gpgconf.c (_gpgme_conf_arg_new): Likewise.
    (gpgme_conf_arg_new): Likewise.
  * engine-gpgconf.c (_gpgme_conf_arg_new): Likewise.
    (gpgconf_write): Remove debug hack.

2010-11-19 Marcus Brinkmann <mb@g10code.com>


2010-11-17 Marcus Brinkmann <mb@g10code.com>

* vasprintf.c (int_vasprintf) [HAVE_W32CE_SYSTEM]: Just use a fixed size buffer, as va_copy is not easy to fake.

2010-11-15 Marcus Brinkmann <mb@g10code.com>

* w32-ce.h (strcasecmp, strdup) [_MSC_VER]: Define.
  * genkey.c, passphrase.c: Include util.h.
* w32-util.c (_gpgme_w32ce_get_debug_envvar): Fix return value.

2010-11-15 Werner Koch <wk@g10code.com>

* data-compat.c (gpgme_data_new_from_filepart)
  (gpgme_data_new_from_file) [W32CE && _MSC_VER]: Return not
  GPG_ERR_NOTIMPLEMENTED.

* w32-ce.h (HKEY_PERFORMANCE_DATA, HKEY_CURRENT_CONFIG, _IOLBF)
  (abort) [_MSC_VER]: Provide these macros.

* ath.h [W32CE && _MSC_VER]: Include winsock2.h.

* ath.c (ath_read, ath_write) [W32CE && _MSC_VER]: Do not call
  non-available functions.

2010-11-04 Werner Koch <wk@g10code.com>

* w32-ce.h [_MSC_VER && W32CE]: Undef leave.
* export.c: Include util.h so that we get the above undef.

* memrchr.c: Remove. Used to be a replacement function required
  by the formerly included assuan code.

2010-11-03 Werner Koch <wk@g10code.com>

* debug.c (_gpgme_debug) [W32CE]: Replace locatime by GetLocalTime.

* signers.c (gpgme_signers_clear): Remove useless return.
  Reported by Patrick Spendrin.

* w32-util.c: s/__inline__/GPG_ERR_INLINE/

* setenv.c: Include string.h due to our strerror replacement.

* w32-ce.h (access, bsearch): New macros.
* w32-ce.c (_gpgme_wince_access): New.
  (RegQueryValueExA): Change DATA to a void*.
  (_gpgme_wince_bsearch): New. Taken from glibc 2.6.

Guard include of sys/stat.h and sys/types.h.

2010-11-02 Werner Koch <wk@g10code.com>

* data-fd.c (read, write, lseek) [W32CE && !_MINGW32CE__]: New.
  Taken from Pedro Alves Public Domain code.
* w32-ce.h (SHGetSpecialFolderPath): Remove our defines and prototypes. We use the system provided prototypes now.
* w32-ce.c: Include shlobj.h
  (_WIN32_IE): Define to 0x0400
  (CreateFileA): New.
* w32-util.c: Explicitly include windows headers before util.h.
  (_gpgme_w32ce_get_debug_envvar): Do not use wchar_t strings for
  read_w32_registry_string.
  (mkstemp): Use CreateFile instead of open.

* w32-io.c (handle_to_fd, fd_tohandle): Add. We need them for W32.
* w32-util.c (_WIN32_IE): Define to 0x0400.

* util.h [W32]: Include windows.h.
* w32-sema.c: Do not include windows.h directly.
* ath.c (ssize_t, pid_t)[_MSC_VER]: Add new types.
* gpgme.c (gpgme_result_ref, gpgme_result_unref): Do not use a
  void pointer in pointer arithmetic.
* w32-util.c: Include util.h prior to ath.h. Don't include
  windows.h directly.
  (F_OK): Define if not defined.
* w32-cc.c: Include string.h.
  (RegQueryValueExA): Use WINAPI modifier to match the declaration.
* vfs-create.c: Include string.h because under W32CE with MSC we
  get a warning related to our strerror replacement.
* encrypt-sign.c: Include stdlib.h, string.h and errno.h.
* priv-io.h [W32CE]: Include w32-ce.h
* w32-ce.h: Include winsock2.h and ws2tcpip.h.
  (_MSV_VER): Remove useless macro.
  (pid_t): Add typedef.

Guard all includes of unistd.h and sys/time.h.

2010-10-28 Marcus Brinkmann  <marcus@g10code.com>

* opassuan.c (gpgme_op_assuan_transact_ext): Fix uninitialized
  value use. Reported by Marc Mutz.

2010-10-07 Werner Koch  <wk@g10code.com>

* gpgme-tool.c (ARGP_ERR_UNKNOWN): Use EDEADLK if available.

* w32-util.c (_gpgme_w32ce_get_debug_envvar) [W32CE]: New.
* debug.c (debug_init) [W32CE]: Use new function.

2010-09-16 Werner Koch  <wk@g10code.com>

* import.c: Include "util.h".
(parse_import): Return GPG_ERR_MISSING_ISSUER_CERT.

* util.h: Add fallback define for GPG_ERR_MISSING_ISSUER_CERT.
* op-support.c: Include "util.h".
(_gpgme_parse_inv_recip): Handle new code 12.

2010-09-02 Marcus Brinkmann <marcus@g10code.de>

* error.c (gpgme_err_code_to_errno): Fix cut and paste bug (thanks
to Marc Mutz).

2010-09-01 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c: Revert change from 2009-06-18, as it created a race
condition.

2010-08-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.def: Add gpgme_err_code_from_syserror and gpgme_err_set_errno.
* libgpgme.vers: Likewise.
* gpgme.h.in (gpgme_error_from_errno): Fix return type to
gpgme_error_t.
(gpgme_err_code_from_syserror, gpgme_err_set_errno): New prototype.
(gpgme_error_from_errno): New inline function (why are
gpgme_error_make_from_errno and gpgme_error_from_errno not inline
functions?).
* error.c (gpgme_error_from_errno): Fix return type to gpgme_error_t.
(gpgme_err_set_errno, gpgme_err_code_from_syserror): New functions.

2010-08-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme-tool.c (result_encrypt_to_xml, result_sign_to_xml)
(result_verify_to_xml, result_import_to_xml)
(result_genkey_to_xml): Check vigorously for null pointers.

* w32-io.c (GPGCEDEV_IOCTL_ASSIGN_RVID): New macro.
(_gpgme_io_spawn): Use ASSIGN_RVID.

2010-06-11 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io.spawn): Remove debug printf.

2010-06-10 Marcus Brinkmann <marcus@g10code.de>

* gpgme-tool.c (gpgme_server): Use special hack for Windows CE to
get at stdin and stdout.

* engine-gpgsm.c (gpgsm_new): Translate returned achild_fds back
to child_fds.

* debug.h (TRACE_SUC6): New macro.
* w32-io.c (MAX_SLAFD): New macro.
(fd_table): New static variable.
(new_fd, release_fd): New functions.
(fd_to_handle, handle_to_fd, handle_to_socket): Remove macros.
(MAX_READERS, MAX_WRITERS): Increase to 64.
(notify_table): Increase to MAX_SLAFD.
(struct reader_context_s, struct writer_context_s): Add member
file_sock.
(reader, writer): Use file_hd vs file_sock to decide if socket
operations to use. Remove auto-detect mode.
(create_reader, create_writer): Set file_sock. Unblock pending
thread only if this is a pipe fd.
(_gpgme_io_pipe): Allocate fds from table and return slot indices
instead of windows handles. This allows to properly handle RVIDs.
(_gpgme_io_close): Handle dup'ed file descriptors.
(build_commandline) [HAVE_W32_SYSTEM]: Use RVID from fd table now.
(_gpgme_io_spawn): Use fd table now.
(_gpgme_io_fd2str): Use RVID from fd table now.
(_gpgme_io_dup): Implement using fd table.
(_gpgme_io_socket): Allocate fds from table.
(_gpgme_io_connect): Use fd from table.

* w32-glib-io.c (find_channel): Check that the slot is used.

2010-06-09 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c [HAVE_W32CE_SYSTEM]: Include assuan.h and winioctl.h.
(GPGCEDEV_IOCTL_UNBLOCK) [HAVE_W32CE_SYSTEM]: Define.
(set_synchronize) [HAVE_W32CE_SYSTEM]: Stub it out.
(is_socket): Allow to return -1 for auto-detect (old behaviour).
(is_socket) [HAVE_W32CE_SYSTEM]: Return -1.
(reader): Handle auto-detect case. Handle ctx->stop_me before
checking for EOF.
(destroy_reader) [HAVE_W32CE_SYSTEM]: Unblock a pending reader.
(writer): Handle auto-detect case. Handle ctx->stop_me with
ERROR_BUSY.
(destroy_writer) [HAVE_W32CE_SYSTEM]: Unblock a pending writer.
(_gpgme_io_pipe) [HAVE_W32CE_SYSTEM]: Implement in terms of a
half-pipe.
(build_commandline) [HAVE_W32CE_SYSTEM]: New function.
(_gpgme_io_spawn) [HAVE_W32CE_SYSTEM]: Implement it differently
for this platform.
(_gpgme_io_fd2str) [HAVE_W32CE_SYSTEM]: Implement it for RVIDs.
(_gpgme_io_dup) [HAVE_W32CE_SYSTEM]: Stub it out.
* gpgme-tool.c (result_add_timestamp): Add missing NULL argument.
  (result_sign_to_xml): Protect against NULL fingerprint.
  (struct server): New members input_fd, input_filename,
  input_stream, output_fd, output_filename, output_stream,
  message_filename, message_stream.
  (server_reset_fds): Deallocate those.
  (server_parse_fd): New function.
  (server_data_obj): Take optional filename argument and direction
  argument. Also take new argument to return a filestream that
  needs to be closed after destroying the data object.
  Change all callers, too.
  (input_notify, output_notify): Removed.
  (cmd_input, cmd_output): New functions.
  (gpgme_server): Do not register input and output notifier.
  (register_commands): Use cmd_input and cmd_output.
  (cmd_message): Rewritten to use server_parse_fd.
  (cmd_delete, cmd_keylist): Fix inverted option check.
  (main) [HAVE_W32CE_SYSTEM]: Sleep a bit to work around bug in ssh.

* genkey.c (gpgme_op_genkey): Return err with TRACE_ERR.

2010-05-12 Marcus Brinkmann <marcus@g10code.de>

* conversion.c (_gpgme_timegm) [HAVE_W32_SYSTEM]: New static
  function.
  (_gpgme_parse_timestamp) [HAVE_W32_SYSTEM]: Use it.

* gpgme-tool.c (main): Protect call to setlocale with
  HAVE_SETLOCALE.

* Makefile.am (system_components): Remove custom cppflags from
  RCCOMPILE (because gpg-error adds -idirafter that makes RC bail.
  [HAVE_W32CE_SYSTEM]: Add w32-ce.h and w32-ce.c, clear
  libexec_PROGRAMS.
  * w32-ce.h, w32-ce.c: New files.

* priv-io.h: Include <sys/types.h>
  * util.h: Likewise.

2010-05-11 Marcus Brinkmann <marcus@g10code.de>

* w32-util.c: Include ath.h
  (HAVE_ALLOW_SET_FOREGROUND_WINDOW) ![HAVE_W32CE_SYSTEM]: Define
  it.
  (RTLD_LAZY, dlopen, dlsym,
  dlclose) ![HAVE_ALLOW_SET_FOREGROUND_WINDOW]: Don't define anymore.
  (_gpgme_allow_set_foreground_window) ![HAVE_ALLOW_SET_FOREGROUND_WINDOW]:
  Make it a stub.
(read_w32_registry_string): Use FooA variants of Windows functions instead of Foo (which dispatches depending on UNICODE).

//HAVE_W32CE_SYSTEM]: Don't check environment.

(w32_shgetfolderpath): Remove.

(find_program_at_standard_place): Call SHGetSpecialFolderPath (which is available on all Windows systems and also Windows CE).

(mkstemp): Use ath_self instead of getpid.

(_gpgme_mkstemp): Use GetTempPathA instead of GetTempPath.

* gpgme.h.in: Use _WIN32 instead of _MSC_VER. Include time.h for time_t.

2010-05-07 Marcus Brinkmann  <marcus@g10code.de>

* engine-g13.c, gpgme.c, engine-gpgsm.c, engine-gpg.c, op-support.c, engine-assuan.c, gpgme-tool.c: Include <locale.h> only if available with HAVE_LOCALE_H and conditionalize use of LC_CTYPE on its definition.

* engine-gpgconf.c: Do not include <locale.h>.

2010-05-06 Marcus Brinkmann  <marcus@g10code.de>

* w32-glib-io.c, w32-io.c, w32-qt-io.cpp, w32-sema.c, w32-util.c: Do not include <signal.h>.

* sign.c, data-user.c, conversion.c, debug.c, verify.c, data.c, decrypt.c, delete.c, assuan-support.c, import.c, engine-gpgsm.c, data-mem.c, op-support.c, w32-iot.c, w32-util.c, data-compat.c: Use gpg_error_from_syserror instead gpg_error_from_errno, and use gpg_err_set_errno to set error number.

* setenv.c: Include <gpg-error.h> and define __set_errno to use gpg_err_set_errno.

* gpgme-tool.c (ARGP_ERR_UNKNOWN): Define to EDEADLOCK (which is mapped in Windows CE) instead of E2BIG (which is not).

2010-04-19 Marcus Brinkmann  <marcus@g10code.de>

* assuan-support.c (my_spawn): Cast to avoid warning.
* engine-g13.c (g13_new): Make ARGV array of pointer to const char.
(g13_assuan_simple_command) ![USE_DESCRIPTOR_FUNCTION]: Don't define.
* ops.h (_gpgme_key_append_name): Same in prototype.
* key.c (_gpgme_key_append_name): Make SRC argument pointer to const char.
* posix-util.c (_gpgme_get_usiserver_socket_path): Make HOMEDIR const.
* vfs-mount.c (gpgme_op_vfs_transact_start): Never define this potentially useful but currently unused function.
* vfs-create.c (gpgme_op_vfs_transact_start): Likewise.

2010-04-16 Werner Koch <wk@g10code.com>

* w32-io.c (is_socket): New.
(reader, writer): Use it to figure out the API to use.

2010-03-15 Werner Koch <wk@g10code.com>

* gpgme.h.in: Add autoconf template to set generated file to read-only in an emacs buffer.

2010-03-12 Werner Koch <wk@g10code.com>

* gpgme.h.in (GPGME_STATUS_SUCCESS): Use the right file for the change; see below.

* passwd.c (op_data_t): New.
(passwd_start): Setup OPD.
(passwd_status_handler): Return GPG_ERR_NOT_SUPPORTED if needed.
* context.h (OPDATA_PASSWD): New.
* gpgme.h (GPGME_STATUS_SUCCESS): New.

2010-03-09 Werner Koch <wk@g10code.com>

* engine-gpgsm.c (gpgsm_keylist): Try to start the agent.

2010-02-17 Werner Koch <wk@g10code.com>

* posix-io.c (notify_table): Change implementation.
(notify_table_item_t, notify_table_size, notify_table_lock): New.
(_gpgme_io_close, _gpgme_io_set_close_notify): Adjust for new implementation.

2010-02-16 Werner Koch <wk@g10code.com>

* gpgme-tool.c (spacep, has_option, skip_options): New.
(cmd_export): Implement option --minimal.
* gpgme.h.in (GPGME_EXPORT_MODE_MINIMAL): New.
* export.c (export_start, export_ext_start): Implement it.
* engine-gpg.c (export_common): Ditto.

2010-01-25 Werner Koch <wk@g10code.com>

* w32-io.c (_gpgme_io_connect): Fix return code check to make it work.

2010-01-22 Werner Koch <wk@g10code.com>

* version.c (do_subsystem_inits): Remove superfluous second
  WSAStartup.

2010-01-08 Werner Koch <wk@g10code.com>

* engine-gpg.c (gpg_passwd): New.
  (_gpgme_engine_ops_gpg): Register.
* passwd.c (parse_error): New.
  (passwd_status_handler): Use it.

2010-01-07 Marcus Brinkmann <marcus@g10code.de>

* gpgme-tool.c (result_xml_write_cb_t, struct result_xml_state):
  New types.
  (MAX_TAGS): New macro.
  (result_init, result_xml_indent, result_xml_tag_start)
  (result_xml_tag_data, result_xml_tag_end, result_add_error)
  (result_add_pubkey_algo, result_add_hash_algo, result_add_keyid)
  (result_add_fpr, result_add_timestamp, result_add_sig_mode)
  (result_add_value, result_add_string, result_encrypt_to_xml)
  (result_decrypt_to_xml, result_sign_to_xml)
  (result_verify_to_xml, result_import_to_xml)
  (result_genkey_to_xml, result_keylist_to_xml)
  (result_vfs_mount_to_xml): New functions.
  (gt_result): Rewritten.

2010-01-05 Werner Koch <wk@g10code.com>

* gpgme-tool.c (gt_passwd, cmd_passwd): New.
  (register_commands): Register.

* gpgme.h.in (gpgme_op_passwd_start, gpgme_op_passwd): New.
* libgpgme.vers, gpgme.def: Add new functions.
* passwd.c: New.
* Makefile.am (main_sources): Add passwd.c
* engine.c, engine.h (_gpgme_engine_op_passwd): New.
* engine-backend.h (struct engine_ops): Add PASSWD.
* engine-gpgsm.c (gpgsm_passwd): New.
   (_gpgme_engine_ops_gpgsm): Register.
   (gpgsm_reset): Reset only if we have a connection.

* gpgme.h.in (GPGME_PK_ECDSA, GPGME_PK_ECDH): New.
* gpgme.c (gpgme_pubkey_algo_name): Add them.

2009-12-22 Marcus Brinkmann <marcus@g10code.de>

* debug.c: Test for TLS, not __GNUC__

2009-12-15 Marcus Brinkmann <marcus@g10code.de>

* assuan-support.c (my_spawn): Calloc, not malloc, the fd_items.

2009-12-10 Werner Koch <wk@g10code.com>

* debug.c (debug_init): Test on sgid process.

2009-12-08 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (LTRCCOMPILE): Refactor with ...
   (RCCOMPILE): ... this new macro.
   (SUFFIXES): Add .lo.
   (gpgme_res_lldflag): Removed.
   (gpgme_res): Use libtool object file name here.
   (libgpgme_la_LDFLAGS): Remove gpgme_res_lldflag usage.
   (libgpgme_la_LIBADD): Add gpgme_res.

* ath.c (ath_self) [HAVE_W32_SYSTEM]: Fix typo.

2009-12-02 Werner Koch <wk@g10code.com>

* gpgconf.c (gpgme_conf_arg_release): No return in a function
  returning void. Reported by Wyllys Ingersoll.

2009-12-01 Werner Koch <wk@g10code.com>

* gpgme-tool.c (cmd_getauditlog): Add flag --html.
  (hlp_getauditlog): New.

* gpgme-tool.c (GT_GCC_A_SENTINEL, GT_GCC_A_PRINTF): New.
  (gt_write_status): Use sentinel.
  (argp_error, log_error): Use printf attribute.
  (argp_parse): Remove extra argument to argp_error.
(_gt_progress_cb, gt_get_engine_info, gt_get_keylist_mode)
(gt_result): Add NULL arg.

2009-11-26 Marcus Brinkmann <marcus@g10code.de>

* opassuan.c (opassuan_start): Allocate result structure before
beginning operation.

2009-11-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme-tool.c (gpgme_server): Use assuan_fd_t and assuan_fdopen
on fds.

2009-11-13 <wk@g10code.com>

* sign.c (_gpgme_sign_status_handler): Handle SIG_CREATED_SEEN.
* engine-uiserver.c (uiserver_sign): Make sending SENDER optional.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* op-support.c (_gpgme_op_reset): Instead of last change, only set
sub protocol if it is not the default.

2009-11-10 Werner Koch <wk@g10code.com>

* op-support.c (_gpgme_op_reset): Ignore GPG_ERR_NOT_IMPLEMENTED
while setting the sub protocol.

* engine-uiserver.c (uiserver_new): Pass fdpassing flag to
assuan_socket_connect.
(set_recipients): Replace fingerprint by user id.

* engine-gpgsm.c (set_recipients): Fix non-terminating loop in
case of a missing key.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_new): Set default sub protocol.
* gpgme-tool.c: Implement get sub protocol.

* gpgme.h.in (gpgme_get_sub_protocol): Add prototype.
* gpgme.def, libgpgme.vers: Add gpgme_get_sub_protocol.
* context.h (struct gpgme_context): New member sub_protocol.
* gpgme.c (gpgme_set_sub_protocol): Set CTX->sub_protocol.
(gpgme_get_sub_protocol): New function.
* op-support.c (_gpgme_op_reset): Set sub protocol.

* Makefile.am (uiserver_components): New variable.
* ops.h, key.c (_gpgme_key_append_name): Take CONVERT argument, implement it. Adjust callers.
* gpgme_key_from_uid: New function.
* gpgme.h.in (gpgme_protocol_t): Add GPGME_PROTOCOL_DEFAULT.
* gpgme_encrypt_flags_t: Add GPGME_ENCRYPT_PREPARE, GPGME_ENCRYPT_EXPECT_SIGN.
* libgpgme.vers, gpgme.def: Add new functions.
* gpgme.c (gpgme_set_protocol): Add UIServer protocol.
* gpgme_set_sub_protocol: New function.
* gpgme_get_protocol_name: Add UIServer and default protocol.
* assuan-support.c: Return correct error values, implement socketpair for POSIX.
* engine.c (engine_ops, gpgme_get_engine_info): Add UIServer engine.
* decrypt-verify.c (decrypt_verify_start): Call _gpgme_engine_op_decrypt_verify.
* util.h, posix-util.c, w32-util.c (_gpgme_get_uiserver_socket_path): New function.
* engine-gpgsm.c (gpgsm_set_fd): Fix _gpgme_io_pipe invocation.
* gpgme-tool.c: Some support for UIServer protocol.

2009-11-09 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Close server side FDs.

2009-11-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme-tool.c (struct gpgme_tool): New members write_data and write_data_hook.
* gpgme-server: Initialize write_data members.

2009-11-05 Marcus Brinkmann <marcus@g10code.de>

* engine-g13.c (struct engine_g13): Remove members RESULT_CB and
RESULT_CB_VALUE.
(g13_assuan_simple_command, status_handler): Don't use those anymore.
(g13_transact): Remove them from argument list, too.
* vfs-mount.c (_gpgme_vfs_mount_status_handler): New function.
(_gpgme_op_vfs_mount): Pass it to transact.

* engine-assuan.c (llass_new): Update use of assuan_socket_connect.
* engine-gpgsm.c (gpgsm_new): Update use of assuan_pipe_connect.
* engine-g13.c (g13_new): Likewise.

* w32-io.c (_gpgme_io_spawn): Implement this flag.
* posix-io.c (_gpgme_io_spawn): Likewise.
* w32-glib-io.c (_gpgme_io_spawn): Likewise.
* assuan-support.c (my_spawn): Set this flag.

* decrypt.c (gpgme_op_decrypt_start): Fix use of debug macro.
* decrypt-verify.c (gpgme_op_decrypt_verify_start): Likewise.
* delete.c (gpgme_op_delete_start): Likewise.
* edit.c (gpgme_op_edit_start, gpgme_op_card_edit_start): Likewise.
* encrypt.c (gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (gpgme_op_encrypt_sign_start): Likewise.
* export.c (gpgme_op_export_start, gpgme_op_export_ext_start)
  (gpgme_op_export_keys_start, gpgme_op_export_keys): Likewise.
* genkey.c (gpgme_op_genkey_start): Likewise.
* getauditlog.c (gpgme_op_getauditlog_start): Likewise.
* import.c (gpgme_op_import_start, gpgme_op_import_keys_start): Likewise.
* opassuan.c (gpgme_op_assuan_transact_start): Likewise.
* sign.c (gpgme_op_sign_start): Likewise.
* verify.c (gpgme_op_verify_start): Likewise.
* vfs-create.c (gpgme_op_vfs_create): Likewise.
* vfs-mount.c (gpgme_op_vfs_mount): Likewise.

2009-11-04 Marcus Brinkmann <marcus@g10code.de>

* ath.h (ath_self): New prototype. Include <stdint.h>
* ath.c, ath-PTH.c, ath-pthread.c (ath_self): New function.
* debug.h: Rewrite most macros to beautify debug output.
(_gpgme_debug_buffer): Remove tagname and tag argument.
(_gpgme_debug_frame_begin, _gpgme_debug_frame_end): New prototypes.
* debug.c: Include <time.h>. Don't include assuan.h.
(frame_nr, FRAME_NR): New thread-specific variable and macro.
(debug_init): Do not initialize assuan. Call _gpgme_debug after initialization instead using printf directly.
(_gpgme_debug): Do not call debug_init (we now ensure proper initialization by user). Add timestamp and thread/process ID.
(_gpgme_debug_buffer): Do not take tagname and tag argument.
(_gpgme_debug_frame_begin, _gpgme_debug_frame_end): New functions.
* version.c (gpgme_check_version_internal, gpgme_check_version):
  Fix debug string. Do not initialize assuan.
* posix-io.c (get_max_fds): Use 0 not NULL (nicer debug output).

2009-11-04 Werner Koch <wk@g10code.com>
* gpgme-tool.c (register_commands): Add HELP feature.

2009-11-03 Werner Koch <wk@g10code.com>
* gpgme.h.in (GPGME_PROTOCOL_UISERVER): New.

2009-11-03 Marcus Brinkmann <marcus@g10code.de>
* Makefile.am (main_sources): Change g13.c to vfs-mount.c. Add
  vfs-create.c
* vfs-create.c: New file.
* g13.c: Renamed to ...
* vfs-mount.c: ... this new file.
* gpgme.h.in (gpgme_op_vfs_create): New prototype.
* gpgme.def, libgpgme.vers: Add gpgme_op_vfs_create.
* gpgme-tool.c (gt_vfs_create, cmd_vfs_create): New functions.
  (register_commands): Add VFS_CREATE and CREAET.

2009-11-02 Marcus Brinkmann <marcus@g10code.de>
* debug.h (_gpgme_debug_buffer): Make TAG argument const const.
* debug.c (_gpgme_debug_buffer): Likewise.
* gpgme-tool.c (input_notify, output_notify): Adjust type to new
  assuan interface.
* decrypt.c (gpgme_op_decrypt_result): Remove unused variable.
* opassuan.c (gpgme_op_assuan_transact): Fix return value.

2009-10-30 Marcus Brinkmann <marcus@g10code.de>
(gpgme_tool_LDADD): New variable.
* gpgme-tool.c: New file.
* ops.h (_gpgme_sig_notation_clearm _gpgme_signers_clear): New
  prototypes.
* gpgme.c (gpgme_set_protocol): Allow GPGME_PROTOCOL_GPGCONF (when
  had that gone missing?).
(_gpgme_sig_notation_clear): New function without debug output.
(gpgme_release): Call it and _gpgme_signers_clear.
* signers.c (_gpgme_signers_clear): New function without debug output.
* g13.c (gpgme_op_vfs_mount): Add debug output.
* assuan-support.c (my_spawn): Allow fd_child_list to be NULL.
* conversion.c (_gpgme_encode_percent_string): Fix infinite loop.
* debug.h: Put tag in front of debug lines, should make for nicer output.
* engine-assuan.c (lass_new): Use our new system hooks for libassuan.
* engine-g13.c (g13_new): Remove redundant assuan context allocation.
* version.c (gpgme_check_version_internal): Delay debug output until after gpgme_check_version was called.

2009-10-28 Marcus Brinkmann <marcus@g10code.de>

* signers.c, encrypt-sign.c, encrypt.c, delete.c, keylist.c, edit.c, import.c, export.c: Fix last change in debug output.

2009-10-27 Marcus Brinkmann <marcus@g10code.de>

* edit.c (gpgme_op_edit_start, gpgme_op_edit)
  (gpgme_op_card_edit_start, gpgme_op_card_edit): Add debug output.
* encrypt-sign.c (gpgme_op_encrypt_sign_start)
  (gpgme_op_encrypt_sign): Likewise.
* encrypt.c (gpgme_op_encrypt_start, gpgme_op_encrypt)
  (gpgme_op_encrypt_result): Likewise.
* export.c (gpgme_op_export_start, gpgme_op_export)
  (gpgme_op_export_ext_start, gpgme_op_export_ext)
  (gpgme_op_export_keys_start, gpgme_op_export_keys): Likewise.
* genkey.c (gpgme_op_genkey_start, gpgme_op_genkey)
  (gpgme_op_genkey_result): Likewise.
* getauditlog.c (gpgme_op_getauditlog_start)
  (gpgme_op_getauditlog): Likewise.
* import.c (gpgme_op_import_result, gpgme_op_import_start)
  (gpgme_op_import): Likewise.
* keylist.c (gpgme_op_keylist_result, keylist_colon_handler)
  (gpgme_op_keylist_start, gpgme_op_keylist_ext_start)
  (gpgme_op_keylist_next, gpgme_op_keylist_end, gpgme_get_key): Likewise.
* opassuan.c (gpgme_op_assuan_transact_start)
  (gpgme_op_assuan_transact_ext, gpgme_op_assuan_result)
  (gpgme_op_assuan_transact): Likewise.
* signers.c (gpgme_signers_add, gpgme_signers_clear): Likewise.
* trustlist.c (gpgme_op_trustlist_start)
  (gpgme_op_trustlist_next, gpgme_op_trustlist_end): Likewise.
* verify.c (gpgme_op_verify_start, gpgme_op_verify)
  (gpgme_op_verify_result): Likewise.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (struct gpgme_io_event_done_data)
  (gpgme_io_event_done_data_t): New types.
  (struct _gpgme_op_assuan_result): Deprecate the err member.
(gpgme_op_assuan_result): Deprecate (for now).
(gpgme_op_assuan_transact_ext): New prototype.
(gpgme_op_assuan_transact): Deprecate.
(struct _gpgme_op_g13_result): Replace with ...
(struct _gpgme_op_vfs_mount_result): ... this.
(gpgme_op_g13_mount): Replace with ...
(gpgme_op_vfs_mount): ... this.
* gpgme.def (gpgme_op_assuan_transact_ext, gpgme_wait_ext)
(gpgme_op_vfs_mount_result, gpgme_op_vfs_mount): New.
(gpgme_op_g13_mount): Remove.
* libgpgme.vers: Likewise.
* engine-backend.h (struct engine_ops): Remove RESULT_CB and
RESULT_CB_VALUE args in opassuan_transact member. Add CANCEL_OP
member.
* ops.h (_gpgme_cancel_with_err, _gpgme_wait_on_condition): Add
OP_ERR argument.
(_gpgme_wait_one_ext): New prototype.
* context.h (ctx_op_data_id_t): Add OPDATA_VFS_MOUNT.
* engine-g13.c (g13_cancel_op): New function.
(parse_status): Remove declaration.
(g13_assuan_simple_command): Do nothing with status lines for now.
(status_handler): Update opaque value access.
(_gpgme_engine_ops_g13): Add new cancel_op member.
* gpgme.c (_gpgme_cancel_with_err): Add new parameter OP_ERR.
Handle operational errors.
(gpgme_cancel, gpgme_io_read, gpgme_io_write): Add debug output.
* data.c (_gpgme_data_inbound_handler)
(_gpgme_data_outbound_handler): Adjust opaque value access.
* engine-gpg.c (command_handler, status_handler)
(colon_line_handler): Likewise.
* engine-gpgsm.c (status_handler): Likewise.
* engine-gpg.c (_gpgme_engine_ops_gpg): Add cancel_op member.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm): Likewise.
* g13.c: Rewritten (and will be rewritten again).
* engine.h (_gpgme_engine_op_assuan_transact): Remove result_cb
and result_cb_value parameters from prototype.
(_gpgme_engine_cancel_op): New prototype.
* engine.c (engine_ops) ![ ENABLE_ASSUAN]: Add missing comma.
(_gpgme_engine_op_assuan_transact): Remove result_cb and
result_cb_value parameter.
(_gpgme_engine_cancel_op): New function.
* wait.h (_gpgme_run_io_cb): Add new argument OP_ERR.
(struct io_cb_data): New struct to pass opaque data and get a
op_err return value. Needed because we can’t modify I/O callback
handler signature because it is exposed to the user.
* wait.c (_gpgme_run_io_cb): Add OP_ERR parameter. Handle
operational errors.
* wait-user.c (_gpgme_user_io_cb_handler): Handle operational
errors.
* wait-private.c (_gpgme_wait_on_condition): New argument to retrieve the operational result. Handle operational errors in session based protocols.
(_gpgme_wait_one_ext): New function.
(_gpgme_wait_one): Pass argument in invocation of _gpgme_wait_on_condition.
* wait-global.c (struct ctx_list_item): Add member OP_ERR.
(ctx_done): New argument OP_ERR.
(ctx_wait): New argument OP_ERR.
(gpgme_wait_ext): New function based on gpgme_wait but handling operational errors.
(gpgme_wait): Implement in term of gpgme_wait_ext.
* keylist.c (gpgme_op_keylist_next): Pass argument in invocation of _gpgme_wait_on_condition.
* trustlist.c (gpgme_op_trustlist_next): Pass argument in invocation of _gpgme_wait_on_condition.
* engine-assuan.c (struct engine_llass): Replace members RESULT_CB and RESULT_CB.VALUE by LAST_OP_ERR.
(_gpgme_engine_assuan_last_op_err): Add this hack function.
(llass_cancel_op): New function.
(_gpgme_engine_llass_ops): Add cancel_op member.
(llass_status_handler): Update opaque value access.
(llass_transact): Remove RESULT_CB and RESULT_CB.VALUE arguments.
* opassuan.c: Move compat hacks to the end of file.
(opassuan_start): Do not set OPD->result.err.
Do not pass RESULT_Cb and CTX to _gpgme_engine_op_assuan_transact.
(gpgme_op_assuan_transact_ext): New function.

* debug.h (DEBUG_GLOBAL): New debug level.
* conversion.c (gpgme_errors, _gpgme_map_gnupg_error): Removed.
* data-user.c (gpgme_data_new_from_cbs): Add debug output.
* data-fd.c (gpgme_data_new_from_fd): Likewise.
* data-stream.c (gpgme_data_new_from_stream): Likewise.
* decrypt.c (gpgme_op_decrypt_result, gpgme_op_decrypt_start)
(gpgme_op_decrypt): Likewise.
* delete.c (gpgme_op_delete_start, gpgme_op_delete): Likewise.
* decrypt-verify.c (gpgme_op_decrypt_verify_start)
(gpgme_op_decrypt_verify): Likewise.
* sign.c (gpgme_op_sign_result): Fix debug message.
* data-mem.c (gpgme_data_new): Improve debug output.
* verify.c (parse_trust): Use atoi instead of _gpgme_map_gnupg_error.
* decrypt.c (_gpgme_decrypt_status_handler): Likewise.

2009-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am: Remove @NETLIBS@ from LIBADDs.
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 2009

(g13_components): New variable.

(main_sources): Add $(g13_components).

* g13.c, engine-g13.c: New files.

* engine.c (engine_ops): Check for assuan for assuan engine, add g13 engine.

* util.h (_gpgme_get_g13_path, _gpgme_encode_percent_string): New prototypes.

* conversion.c (_gpgme_encode_percent_string): New function.

* gpgme.h.in (gpgme_protocol_t): Add GPGME_PROTOCOL_G13.

* (struct _gpgme_op_g13_result, gpgme_g13_result_t): New types.

* gpgme_op_g13_mount(): New function.


* posix-util.c (_gpgme_get_g13_path): New function.

* w32-util.c (_gpgme_get_g13_path): New function.

* engine-backend.h (_gpgme_engine_ops_g13): New declaration.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (netlibs): Remove.

* Makefile.am (assuan_cppflags, assuan_libobjs): Removed.

* (gpgsm_components): Move engine-assuan.c to ...

* (assuan_components): ... this new variable.

* (main_sources): Add this new variable.

* (AM_CPPFLAGS): Remove $(assuan_cppflags).

* (AM_CFLAGS): Add @LIBASSUAN_CFLAGS@.

* (libgpgme_la_DEPENDENCIES, libgpgme_pth_la_DEPENDENCIES)

* (libgpgme_glib_la_DEPENDENCIES, libgpgme_qt_la_DEPENDENCIES)

* (libgpgme_pthread_la_DEPENDENCIES): Remove $(assuan_libobjs).

* (libgpgme_la_LIBADD, libgpgme_pth_la_LIBADD)

* (libgpgme_glib_la_LIBADD, libgpgme_qt_la_LIBADD)

* (libgpgme_pthread_la_LIBADD): Replace $(assuan_libobjs) by @LIBASSUAN_LIBS@.

* priv-io.h [HAVE_W32_SYSTEM]: Declare _gpgme_io_recvmsg, _gpgme_io_sendmsg, _gpgme_io_waitpid.

* engine-backend.h: Define with [ENABLE_ASSUAN] instead of [ENABLE_GPGSM].


* util.h (ENABLE_ASSUAN): Declare _gpgme_assuan_system_hooks, _gpgme_assuan_malloc_hooks, _gpgme_assuan_log_cb.

* engine-gpgsm.c: Don't map assuan error codes. Use assuan_release instead of assuan_disconnect.

* (map_assuan_error): Remove function.

* (gpgsm_new): Use new assuan context interface.

* (engine-assuan.c): Use assuan_release instead of
assuan_disconnect.
(llass_new): Use new assuan context interface.

2009-10-07   <wk@g10code.com>

* priv-io.h [W32]: Include windows.h instead of sys/socket.h.

2009-08-06 Werner Koch <wk@g10code.com>

* op-support.c (_gpgme_parse_inv_recp): Allow for no fingerprint.

* engine-gpgsm.c (gpgsm_sign): Hook up the status func for the
SIGNER command.
* gpgme.h.in (GPGME_STATUS_INV_SGNR, GPGME_STATUS_NO_SGNR): New.
* sign.c (op_data_t): Add fields IGNORE_INV_RECP and INV_SGNR_SEEN.
(_gpgme_op_sign_init_result): Factor code out to ...
(sign_init_result): .. new. Init new fields.
(sign_start): Use sign_init_result.
(_gpgme_sign_status_handler): Take care of the new INV_SGNR.
Return an error if no signature has been created.

2009-07-07 Werner Koch <wk@g10code.com>

* engine-gpgsm.c (struct engine_gpgsm): Add fields
input_helper_data and input_helper_memory.
(close_notify_handler): Release these new fields.
(gpgsm_import): Implement the keyarray feature.

* engine-gpg.c (gpg_import): Actually return GPG_ERR_INV_VALUE.

* engine-gpgsm.c (gpgsm_import): Return an error for unknown data
encodings.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

* debug.h: Everywhere, use %p instead of 0x%x to print pointer.
[HAVE_STDINT_H]: Include <stdint.h>.
(_TRACE, TRACE, TRACE0, TRACE1, TRACE2, TRACE3, TRACE6): Cast tag
to (uintptr_t) before casting it to (void*) to silence GCC
warning.

* gpgme.h.in (_GPGME_DEPRECATED_OUTSIDE_GPGME): New macro.
* sign.c (_GPGME_IN_GPGME): Define it.
* keylist.c (_GPGME_IN_GPGME): Define it.

* debug.c (_gpgme_debug_begin, _gpgme_debug_add): Handle error in
vasprintf and asprintf.
* priv-io.h: Include <sys/socket.h>. Declare _gpgme_io_connect.

2009-06-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (GPGME_CONF_PATHNAME): Revert last change, it's back! (GPA still uses it...).

* gpgme.def: Fix stupid typo.
* w32-io.c (_gpgme_io_pipe): Add missing declaration.

* gpgme.h.in (GPGME_CONF_PATHNAME): Remove obsolete macro.

* w32-io.c (_gpgme_io_pipe): Allocate reader/writer thread right away.
  (_gpgme_io_read, _gpgme_io_write, _gpgme_io_select)
  (_gpgme_io_dup): Never allocate threads here.
  (find_writer, find_reader): Check return value of thread creation function.

* context.h (CTX_OP_DATA_MAGIC): New macro.
  (struct ctx_op_data): New member MAGIC.
* op-support.c (_gpgme_op_data_lookup): Initialize magic.
* gpgme.c (gpgme_result_unref, gpgme_result_ref): Check magic.

2009-06-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_result_unref): Hot fix to release a lock.

* gpgme.c (result_ref_lock): New global variable.
  (gpgme_result_ref, gpgme_result_unref): use it.

2009-06-16 Werner Koch <wk@g10code.com>

* version.c: Include stdlib.h.

* gpgme.h.in (gpgme_data_encoding_t): Add GPGME_DATA_ENCODING_URL, GPGME_DATA_ENCODING_URL_ESC, GPGME_DATA_ENCODING_URL0.
* data.c (gpgme_data_set_encoding): Adjust for new values.
* engine-gpg.c (string_from_data): New.
  (gpg_import): Implement --fetch-key feature.

2009-06-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (gpgme_op_export_keys_start, gpgme_op_export_keys): New.
* gpgme.def, libgpgme.vers: Add them.
* export.c (gpgme_op_export_keys_start, gpgme_op_export_keys): New.
  (export_keys_start): New.

* gpgme.h.in (gpgme_export_mode_t, GPGME_EXPORT_MODE_EXTERN): New.
  (gpgme_op_export_start, gpgme_op_export, gpgme_op_export_ext_start)
(gpgme_op_export_ext): Change arg RESERVED to MODE of new compatible type.
* export.c (gpgme_export_ext_start, gpgme_op_export)
(gpgme_op_export_ext_start, gpgme_op_export_ext): Ditto.
(export_start): Ditto.
* engine.c (_gpgme_engine_op_export): Ditto.
* engine-backend.h (struct engine_ops): Ditto.
* engine-gpgsm.c (gpgsm_export, gpgsm_export_ext): Ditto.
* engine-gpg.c (gpg_export, gpg_export_ext): Ditto. Implement mode EXTERN.
(gpg_export, gpg_export_ext): Factor common code out to ..
(export_common): .. this.

* gpgme.h.in (gpgme_op_import_keys_start, gpgme_op_import_keys): New.
* gpgme.def, libgpgme.vers: Add them.
* import.c (gpgme_op_import_keys_start, gpgme_op_import_keys): New.
(_gpgme_op_import_keys_start): New.
* engine.c (_gpgme_engine_op_import): Add arg KEYARRAY.
* engine-backend.h (struct engine_ops): Ditto.
* engine-gpg.c (gpg_import): Ditto. Implement it.

2009-06-15 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (gpgme_result_ref, gpgme_result_unref): Add prototypes.
* gpgme.def, libgpgme.vers (gpgme_result_ref, gpgme_result_unref): Add these.
* context.h (struct ctx_op_data): Add member "references".
* gpgme.c (gpgme_result_ref, gpgme_result_unref): New functions.
(_gpgme_release_result): Use gpgme_result_unref.
* op-support.c (_gpgme_op_data_lookup): Initialize references.

2009-06-12 Werner Koch <wk@g10code.com>

* gpgme-w32spawn.c (translate_get_from_file): Parse optional spawn flags. Add new arg R_FLAGS. Fix segv on file w/o LF.
(translate_handles): Add new arg R_FLAGS. Avoid possible segv.
(main): Pass flags for my_spawn.
(my_spawn): Add arg FLAGS and implement AllowSetForegroundWindow.

* w32-io.c (_gpgme_io_spawn): Add arg FLAGS and implement it.
* w32-glib-io.c (_gpgme_io_spawn): Ditto.
* w32-qt-io.cpp (_gpgme_io_spawn): Ditto.
* posix-io.c (_gpgme_io_spawn): Add dummy arg FLAGS.
* engine-gpg.c (start): Call spawn with new flag.
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* posix-util.c (_gpgme_allow_set_foreground_window): Ditto. |
| 2009-06-09      | Werner Koch          | * w32-util.c (_gpgme_allow_set_foreground_window): Add trace support.   |
| 2009-05-28      | Marcus Brinkmann     | * gpgme.h.in (gpgme_check_version_internal): New prototype.             
(gpgme_check_version): New macro, overriding function of the same name. |
| 2009-05-18      | Marcus Brinkmann     | * gpgme.h.in (gpgme_encrypt_flags_t): Add GPG_ME_ENCRYPT_NO_ENCRYPT_TO. |

* engine-gpg.c (gpg_encrypt): Pass --no-encrypt-to to gpg if GPGME_ENCRYPT_NO_ENCRYPT_TO flag is set.
better maintainability and to help debugging.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in: Add compile time check for _FILE_OFFSET_BITS.

2009-04-15 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_connect): Fix stupid error.

2009-04-08 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (giochannel_table): New members used, fd, socket.
  (find_channel): Drop CREATE argument.
  (new_dummy_channel_from_fd, new_channel_from_fd)
  (new_channel_from_socket): New functions.
  (_gpgme_io_fd2str): Implement for sockets.
  (_gpgme_io_write, _gpgme_io_read): Translate EAGAIN errors correctly.
  (_gpgme_io_pipe): Fix for new channel bookkeeping.
  (_gpgme_io_close, _gpgme_io_dup): Likewise.
* w32-io.c (MAX_READERS, MAX_WRITERS): Bump up to 40.
* version.c [HAVE_W32_SYSTEM]: Include "windows.h."
  (do_subsystem_inits) [HAVE_W32_SYSTEM]: Call WSAStartup.
* engine-Assuan.c (Ilass_status_handler): Ignore EAGAIN errors.

2009-03-18 Werner Koch <wk@g10code.com>

* gpgme.h.in (GPGME_KEYLIST_MODE_EPHEMERAL): New.
* engine-gpgsm.c (gpgsm_keylist): Send new option.

2009-03-13 Werner Koch <wk@g10code.com>

* gpgme-config.in: Make sure locale is set to C.

2009-02-24 Werner Koch <wk@g10code.com>

* gpgme.h.in (struct _gpgme_op_assuan_result): New.
  (gpgme_assuan_result_t): New.
  (gpgme_op_assuan_result): Change return type.
  (struct _gpgme_assuan_sendfnc_ctx)
  (gpgme_assuan_sendfnc_ctx_t, gpgme_assuan_sendfnc_t): Remove.
  (gpgme_assuan_inquire_cb_t): Changed.
* opassuan.c (op_data_t): Make use of a result structure.
(gpgme_op_assuan_result): Change return type.
(opassuan_start): Use result structure.
(result_cb): Ditto.
* engine-assuan.c (struct _gpgme_assuan_sendfnc_ctx): Remove.
(inquire_cb_sendfnc): Remove.
(lass_status_handler): Allow sending a CANCEL from the inquire CB.

2009-02-04 Werner Koch <wk@g10code.com>

* w32-glib-io.c (_gpgme_io_spawn): Make ARGV argument const to match prototype.
* w32-qt-io.cpp (_gpgme_io_spawn): Ditto.

2009-02-03 Werner Koch <wk@g10code.com>

* gpgme.h.in (struct _gpgme_subkey): Add fields IS_CARDKEY and CARD_NUMBER..
* key.c (gpgme_key_unref): Release field CARD_NUMBER.
* keylist.c (keylist_colon_handler): Factor common code out to ...
(parse_sec_field15): New. Set card number.

2009-01-26 Werner Koch <wk@g10code.com>

* opassuan.c, dirinfo.c, engine-assuan.c: New.
* Makefile.am: Add them.
* engine-backend.h: Add _gpgme_engine_ops_assuan.
(struct engine_ops): Add field OPASSUAN_TRANSACT. Update all engine initializers.
* Makefile.am (gpgsm_components): Add engine-assuan.c.
* gpgme.h.in (gpgme_protocol_t): Add GPGME_PROTOCOL_ASSUAN.
(gpgme_assuan_data_cb_t, gpgme_assuan_sendfnc_ctx_t)
(gpgme_assuan_inquire_cb_t, gpgme_assuan_status_cb_t): New.
(gpgme_op_assuan_transact_start, gpgme_op_assuan_transact): New.
* gpgme.c (gpgme_get_protocol_name): Ditto.
(gpgme_set_protocol): Support it.
* engine.c (gpgme_get_engine_info): Ditto.
(engine_ops): Register it.
(_gpgme_engine_op_assuan_transact): New.
* libgpgme.vers (gpgme_op_assuan_transact_start)
(gpgme_op_assuan_transact): New.
* gpgme.def (gpgme_op_assuan_transact_start)
(gpgme_op_assuan_transact): New.
* engine-backend.h (struct engine_ops): Add GET_HOME_DIR and initialize to NULL for all engines.
* engine.c (engine_get_home_dir): New.
(gpgme_get_engine_info): Use it.
(_gpgme_set_engine_info): Use it.
* engine.h (engine_assuan_result_cb_t): New.
* context.h (ctx_op_data_id_t): Add OPDATA_ASSUAN.

* util.h (GPG_ERR_UNFINISHED): Define if not yet defined.

* version.c (gpgme_check_version): Protect trace arg against NULL.

2009-01-19 Werner Koch <wk@g10code.com>

* rungpg.c: Rename to engine-gpg.c
* Makefile.am (main_sources): Ditto.

2008-12-03 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (status-table.h): Use $(builddir) to find gpgme.h.

2008-11-18 Werner Koch <wk@g10code.com>


* decrypt.c (_gpgme_decrypt_status_handler): Use _gpgme_map_gnupg_error to parse the error code for decrypt.algorithm.

2008-10-30 Marcus Brinkmann <marcus@g10code.de>

* wait-private.c (_gpgme_wait_on_condition): Remove unused variable IDX.
* wait-global.c: Include ops.h to silence gcc warning.
(_gpgme_wait_global_event_cb): Pass error value directly.
* wait-user.c: Include ops.h to silence gcc warning.

* posix-io.c (_gpgme_io_spawn): Make ARGV argument const to silence gcc warning. Cast argument to execv to silence warning.
* w32-io.c (_gpgme_io_spawn): Likewise.
* priv-io.h (_gpgme_io_spawn): Likewise for prototype.

2008-10-24 Werner Koch <wk@g10code.com>

* rungpg.c (gpg_keylist_preprocess): Escape backslashes too.

2008-10-23 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_keylist_preprocess): Convert percent escaped string to C coded string.

2008-10-20 Werner Koch <wk@g10code.com>
* Makefile.am (EXTRA_DIST): Add gpgme.h.in.

* gpgme.h: Rename to gpgme.h.in.
* gpgme.h.in (GPGME_VERSION): Use autoconf substitution.

* posix-io.c: Include sys/uio.h. Fixes bug #818.

2008-10-18 Marcus Brinkmann <marcus@g10code.com>

* w32-util.c (find_program_in_registry): Don't define.
  (_gpgme_get_gpg_path, _gpgme_get_gpgsm_path)
  (_gpgme_get_gpgconf_path): Do not check for fooProgram in the
  registry anymore. It is now no longer possible to overwrite the
  default location in that way.

2008-10-17 Werner Koch <wk@g10code.com>

* w32-glib-io.c (_gpgme_io_fd2str): Use "%d" and not "%ld" to work
  around a bug in mingw32.

2008-09-23 Marcus Brinkmann <marcus@g10code.com>

* gpgme.c (gpgme_sig_notation_clear): Clear CTX->sig_notations.
  Submitted by "Daniel Mueller" <daniel@danm.de>

2008-09-16 Marcus Brinkmann <marcus@g10code.com>

* rungpg.c (gpg_new): Don't use errno with ttyname_r.

2008-08-11 Marcus Brinkmann <marcus@g10code.com>

* rungpg.c (gpg_cancel): Remove cmd fd before status fd.
* gpgme.c (_gpgme_cancel_with_err): New function.
  (_gpgme_cancel): Reimplement in terms of _gpgme_cancel_with_err.
* wait-private.c (_gpgme_wait_on_condition): Use
  _gpgme_cancel_with_err.
* wait-user.c (_gpgme_user_io_cb_handler): Likewise.
* wait-global.c (_gpgme_wait_global_event_cb, gpgme_wait): Likewise.

2008-08-08 Marcus Brinkmann <marcus@g10code.com>

* rungpg.c (command_handler): Remove I/O callback on error, too.

2008-06-29 Marcus Brinkmann <marcus@g10code.com>

* gpgme.c (gpgme_cancel_async): Remove unused variable.

2008-06-27 Marcus Brinkmann <marcus@g10code.de>
* libgpgme.vers: Add gpgme_cancel_async.
  * gpgme.def: Likewise.

* context.h: Include "sema.h".
  (struct gpgme_context): New members lock and canceled.
* gpgme.c (gpgme_new): Initialize lock.
  (gpgme_release): Destroy lock.
  (gpgme_cancel_async): New function.
* op-support.c (_gpgme_op_reset): Reset the canceled flag.
* wait-global.c (gpgme_wait): Check cancel flag before processing
  any I/O callbacks.
* wait-private.c (_gpgme_wait_on_condition): Likewise.
* wait-user.c (_gpgme_user_io_cb_handler): Likewise.

2008-06-26 Werner Koch <wk@g10code.com>

* w32-util.c (_gpgme_mkstemp): Replace sprint by stpcpy.
  (mkstemp): Need to use GetSystemTimeAsFileTime for better
  compatibility.

2008-06-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme-w32spawn.c: New file.
* Makefile.am (libexec_PROGRAMS) [HAVE_W32_SYSTEM]: New variable
  with gpgme-w32spawn.
* engine-gpgsm.c (gpgsm_new): Use server translated handles.
  (gpgsm_set_locale): Return early if locale value is NULL.
* util.h (_gpgme_mkstemp)
  (_gpgme_get_w32spawn_path) [HAVE_W32_SYSTEM]: New function
  prototypes.
* w32-util.c: Include <stdint.h>, <sys/stat.h> and <unistd.h>.
  (letters, mkstemp, _gpgme_mkstemp, _gpgme_get_w32spawn_path): New
  functions.
* rungpg.c (gpg_decrypt, gpg_encrypt, gpg_encrypt_sign)
  (gpg_genkey, gpg_import, gpg_verify, gpg_sign): Pass data over
  special filename FD rather than stdin.
  (struct arg_and_data_s): Add member ARG_LOCP.
  (struct fd_data_map_s): Add member ARG_LOC.
  (struct engine_gpg): Add member ARG_LOC to status and colon.
  (_add_arg, add_arg_with_locp): New function.
  (add_arg_ext): Reimplement in terms of _add_arg.
  (gpg_new): Remember argument location for status FD.
  (build_argv): Set argument location if requested. Also set
  argument location of fd_data_map for data items.
  (start): Adjust caller of _gpgme_io_spawn.
* priv-io.h (struct spawn_fd_item_s): Add members peer_name and
  arg_loc.
(_gpgme_io_spawn): Remove parent fd list argument.
* posix-io.c (get_max_fds): New function.
(_gpgme_io_dup): Add tracing.
(_gpgme_io_spawn): Remove parent fd list. Change meaning of child fd list to contain all child fds that should be inherited. Close all other file descriptors after fork.
* w32-io.c, w32-glib-io.c, w32-qt-io.c(_gpgme_io_spawn): Remove parent fd list. Change meaning of child fd list to contain all child fds that should be inherited. Do not inherit any file descriptors, but DuplicateHandle them. Spawn process through wrapper process. Provide wrapper process with a temporary file containing handle translation data. Return translated handle names.
* w32-io.c (reader): Add more tracing output.
(_gpgme_io_read): Likewise.
* engine-gpgconf.c (gpgconf_read): Adjust caller of _gpgme_io_spawn.
* version.c (_gpgme_get_program_version): Likewise.

2008-06-20 Werner Koch <wk@g10code.com>


2008-06-19 Werner Koch <wk@g10code.com>

* gpgme.h (GPGME_CONF_PATHNAME): Replace by GPGME_CONF_FILENAME, change all callers and provide compatibility macro.
(gpgme_conf_type_t): Add complex types 34..37.
* engine-gpgconf.c (gpgconf_parse_option, arg_to_data)

2008-06-19 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgconf.c (gpgconf_parse_option): Fix comma detection.

2008-05-09 Werner Koch <wk@g10code.com>

* engine-gpgconf.c (gpgconf_read): Do not pass empty lines to the callback.

2008-05-07 Werner Koch <wk@g10code.com>


* rungpg.c (gpg_keylist, gpg_keylist_ext): Factor common code out
(gpg_build_keylist_options): .. new. Allow combination of extern
and intern mode.
(gpg_new): DFT_TTYNAME is an array, thus check the first character.

2008-05-06 Werner Koch <wk@g10code.com>

* version.c (extract_version_string): New.
(('_gpgme_get_program_version'): Use it to allow for suffixes in the
version line.

2008-04-28 Werner Koch <wk@g10code.com>

* engine-gpgconf.c (gpgconf_read): Fixed segv. Avoid memmove for
each line.

2008-04-22 Marcus Brinkmann <marcus@g10code.de>

* w32-qt-io.cpp, kdpipeiodevice.cpp: New versions from Frank
Osterfeld, implement blocking select.

2008-03-11 Marcus Brinkmann <marcus@g10code.de>

* data.c (gpgme_data_read, gpgme_data_write): Retry on EINTR.

2008-03-06 Marcus Brinkmann <marcus@g10code.de>

* key.c (_gpgme_key_add_sig): Terminate UID in case SRC is NULL.
Reported by Marc Mutz.

2008-03-05 Marcus Brinkmann <marcus@g10code.de>

* decrypt.c (release_op_data): Release OPD->result.recipients.
* encrypt.c (release_op_data): Release invalid_recipient.

2008-02-15 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgconf.c (gpgconf_read): Fix end-of-line handline.

2008-02-14 Werner Koch <wk@g10code.com>

* w32-io.c (_gpgme_io_spawn): Add arg R_PID to return the pid.
* posix-io.c (_gpgme_io_spawn): Ditto.
* w32-glib-io.c (_gpgme_io_spawn): Ditto.
* w32-qt-io.cpp (_gpgme_io_spawn): Ditto.
* priv-io.h (_gpgme_io_spawn): Adjust prototyp and change all callers.
* rungpg.c (start): Call _gpgme_allow_set_foreground_window.
* w32-util.c (_gpgme_allow_set_foreground_window): New.
* engine-gpgsm.c (default_inq_cb): New.
  (gpgsm_new) [W32]: Enable pinentry notifications.
  (status_handler): Handle inquiries.

2008-01-30 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version by Frank Osterfeld, fixes race
  condition.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (map_input_enc): Rename to ...
  (map_data_enc): ... this. Also change all callers.
  (gpgsm_encrypt, gpgsm_export, gpgsm_export_ext, gpgsm_genkey)
  (gpgsm_sign): Set encoding for output.

2008-01-28 Werner Koch <wk@g10code.com>

* keylist.c (gpgme_get_key): Skip duplicated keys. Fixes bug 876.

2008-01-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgconf.c (gpgconf_config_load_cb): Fix program_name
  field.

2008-01-10 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version from Frank Osterfeld.

* engine-gpgconf.c (gpgconf_config_load_cb2): Handle the flag
  NO_ARG_DESC.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgconf_components): New variable.
  (main_sources): Add gpgconf.c.
  * gpgme.h (gpgme_protocol_t): New protocol GPGME_PROTOCOL_GPGCONF.
    (gpgme_conf_level_t, gpgme_conf_type_t, gpgme_conf_arg_t)
    (gpgme_conf_opt_t, gpgme_conf_comp_t, gpgme_conf_arg_new)
    (gpgme_conf_arg_release, gpgme_conf_opt_change)
    (gpgme_conf_release, gpgme_op_conf_load, gpgme_op_conf_save): New
    types.
  * gpgconf.c, engine-gpgconf.c: New files.
  * engine.h: (_gpgme_engine_op_conf_load,
  * op-support.c (_gpgme_op_reset): Ignore not implemented locale
* posix-util.c (_gpgme_get_gpgconf_path): New function.
* w32-util.c (_gpgme_get_gpgconf_path): New function.
* engine-gpgsm.c:
  (_gpgme_engine_ops_gpgsm): Add stubs for conf_load and conf_save.
* rungpg.c:
  (_gpgme_engine_ops_gpg): Add stubs for conf_load and conf_save.
* gpgme.def: Add new gpgconf related interfaces.
* libgpgme.vers: Likewise.
* util.h (_gpgme_get_gpgconf_path): New prototype.
* gpgme.h (gpgme_protocol_t): Add GPGME_PROTOCOL_GPGCONF.
* engine-backend.h (_gpgme_engine_ops_gpgconf): New prototype.
  (struct engine_ops): Add members for conf_load and conf_save.
* engine.c (engine_ops): Add _gpgme_engine_ops_gpgconf.
  (gpgme_get_engine_info): Allow protocol GPGME_PROTOCOL_GPGCONF.

2007-11-28 Marcus Brinkmann <marcus@g10code.de>

* w32-util.c (_gpgme_get_gpg_path, _gpgme_get_gpgsm_path): Search
  for installation directory. Remove old fallback default.
  (find_program_in_inst_dir): New function.

2007-11-26 Werner Koch <wk@g10code.com>

* engine-gpgsm.c (struct engine_gpgsm): Add field INLINE_DATA and
  always reset it before calling start.
  (gpgsm_new): Clear it.
  (status_handler): Implement it.
  (gpgsm_getauditlog) [USE_DESCRIPTOR_PASSING]: Use INLINE_DATA.

2007-11-23 Werner Koch <wk@g10code.com>

* op-support.c (_gpgme_op_reset): Implement a no-reset flag.
* getauditlog.c (getauditlog_start): Use that flag.

2007-11-20 Werner Koch <wk@g10code.com>

* op-support.c (_gpgme_parse_inv_recp): Add new reason code 11.

2007-11-22 Werner Koch <wk@g10code.com>

* gpgme.h (gpgme_op_getauditlog_start, gpgme_op_getauditlog): New.
* libgpgme.vers: Ditto.
* gpgme.def: Ditto.
* getauditlog.c: New.
* engine-backend.h (struct engine_ops): Add member GETAUDITLOG.
* engine-gpgsm.c (gpgsm_getauditlog): New.
(_gpgme_engine_ops_gpgsm): Insert new function.
(gpgsm_new): Try to enable audit log support.
* rungpg.c (_gpgme_engine_ops_gpg): Insert dummy entry.

2007-11-12 Marcus Brinkmann <marcus@g10code.de>

* kdpipelinedevice.cpp: New version from Frank Osterfeld.

2007-10-11 Marcus Brinkmann <marcus@g10code.de>

* kdpipelinedevice.cpp: New version from Frank Osterfeld.

2007-10-09 Marcus Brinkmann <marcus@g10code.de>

* kdpipelinedevice.cpp: New version from Frank Osterfeld and Marc Mutz.

2007-10-05 Marcus Brinkmann <marcus@g10code.de>


2007-10-04 Marcus Brinkmann <marcus@g10code.de>

* kdpipelinedevice.h, kdpipelinedevice.cpp, kdpipelinedevice.moc, w32-qt-io.cpp: New versions from Frank Osterfeld.

2007-10-02 Marcus Brinkmann <marcus@g10code.de>

* kdpipelinedevice.cpp, kdpipelinedevice.moc: New versions.
* w32-qt-io.cpp (_gpgme_io_fd2str): Print actual_fd if available.
(_gpgme_io_dup): Only acquire a reference, do not actually dup.
Submitted by Frank Osterfeld.

* priv-io.h, engine-gpgsm.c: Add comments.
* w32-qt-io.cpp (_gpgme_io_select): Remove code handling frozen FDs.
* w32-glib-io.c (_gpgme_io_close): Always dereference the channel, even if not primary.

2007-09-28 Werner Koch <wk@g10code.com>

* engine-gpgsm.c (iocb_data_t): Add SERVER_FD_STR.
(gpgsm_new): Set it.
(gpgsm_set_fd): Use it.
* w32-glib-io.c (find_channel): Add a new primary flag.
  (_gpgme_io_close): Close channel only if primary.
  (_gpgme_io_dup): Put newfd into the table as shallow copy.

* priv-io.h (struct io_select_fd_s): Remove member FROZEN.
* w32-io.c (_gpgme_io_select): Add tracing.
* w32-glib-io.c (_gpgme_io_select): Ditto.
* posix-io.c (_gpgme_io_select): Ditto.
* rungpg.c (read_status): Ditto.
* wait.c (fd_table_put): Ditto.

* rungpg.c (gpg_io_event): Add tracing.
  (start): Use gpg_io_event for sending the start event.
* engine-gpgsm.c (gpgsm_io_event): Add tracing.
  (start): Use gpgsm_io_event for sending the start event.
* wait.c (_gpgme_add_io_cb, _gpgme_run_io_cb): Add tracing.

2007-09-28 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.moc, w32-qt-io.cpp, kdpipeiodevice.cpp: New
  versions from Frank Osterfeld.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (_gpgme_io_spawn),
  w32-qt-io.cpp (_gpgme_io_spawn), w32-io.c (_gpgme_io_spawn): Close
  the process handle, return 0.

* gpgme.h (gpgme_protocol_t): Add GPGME_PROTOCOL_UNKNOWN.
* gpgme.c (gpgme_get_protocol_name): Implement support for
  GPGME_PROTOCOL_UNKNOWN.

* kdpipeiodevice.h: Fix last change.

* w32-glib-io.c (_gpgme_io_pipe), w32-qt-io.c (_gpgme_io_pipe),
  w32-io.c (_gpgme_io_pipe), posix-io.c (_gpgme_io_pipe): Fix debug
  output.

2007-09-25 Marcus Brinkmann <marcus@g10code.de>

* conversion.c, keylist.c: Include <sys/types.h>.

* kdpipeiodevice.h: Use namespace _gpgme_.
* kdpipeiodevice.cpp: Use namespace _gpgme_.
[Q_OS_WIN32 && NOMINMAX]: Do not define NOMINMAX again.
* w32-qt-io.cpp: Change namespace of KDPipeIODevice to
  _gpgme_::KDPipeIODevice.
2007-09-17 Werner Koch <wk@g10code.com>

* rungpg.c (gpg_new): Make robust against undefined ttiname or ttytype.

2007-09-14 Werner Koch <wk@g10code.com>

* data-mem.c (gpgme_data_release_and_get_mem): Fix tracing bug.

2007-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_release): Call gpgme_sig_notation_clear.

2007-09-13 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_new): Handle return value of _gpgme_getenv (fixes small memory leak).

2007-09-07 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_qt_la_SOURCES): Move moc_kdpipeiodevice.cpp to EXTRA_DIST, as this is only included by another file (it's more like a header file than a cpp file, but automake doesn't know that).

  * w32-qt-io.cpp (_gpgme_io_spawn): Fix several cast errors and typos.
  * w32-io.c (_gpgme_io_write): Use TRACE_SYSRES instead of TRACE_SYS.
    (libgpgme_qt_la_LIBADD): Add QT4_CORE_LIBS, not QT4_CORE_LIB.

  * kdpipeiodevice.h, kdpipeiodevice.cpp, moc_kdpipeiodevice.cpp, kdpipeiodevice.moc, w32-qt-io.c: New files.
  * Makefile.am (ltlib_gpgme_extra): Rename to ltlib_gpgme_glib.
    (ltlib_gpgme_qt): New variable.
    (lib_1LTLIBRARIES): Add $(ltlib_gpgme_qt).
    (libgpgme_qt_la_SOURCES): New variable.
    (AM_CPPFLAGS): Add @QT4_CORE_INCLUDES@ (AM_CFLAGS): Add @QT4_CORE_CFLAGS@.
    (libgpgme_qt_la_LDFLAGS, libgpgme_qt_la_DEPENDENCIES) (libgpgme_qt_la_LIBADD): New variables.

  * sema.h (struct critsect_s): Rename "private" to "priv" to make C++ users happy. Change users.
  * w32-sema.c (critsect_init, _gpgme_sema_cs_enter) (_gpgme_sema_cs_leave, _gpgme_sema_cs_destroy): Likewise.
  * w32-glib-io.c (gpgme_get_giochannel): Change return type to
void*
(gpgme_get_fdptr): New function.
* w32-io.c (gpgme_get_fdptr): New function
* gpgme.def: Add gpgme_get_fdptr.

2007-08-22 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_write): Return early if COUNT is zero.
(writer): Remove superfluous check.

2007-08-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Move include of gpg-error.h out of extern "C".

2007-08-07 Werner Koch <wk@g10code.com>

* gpgme.h (struct _gpgme_signature): Add member CHAIN_MODEL.
* verify.c (parse_trust): Set Chain_MODEL.

2007-08-02 Werner Koch <wk@g10code.com>

* w32-glib-io.c (_gpgme_io_spawn): Use DETACHED_PROCESS flag.
* w32-io.c (_gpgme_io_spawn): Ditto.
(_gpgme_io_write): Map ERROR_NO_DATA to EPIPE.
* debug.c (_gpgme_debug): Enable assuan logging.
(_gpgme_debug_subsystem_init): New.
* version.c (do_subsystem_inits): Disable assuan logging and initialize the debug system.
(gpgme_check_version): Do not trace before the subsystems are initialized.

2007-07-17 Marcus Brinkmann <marcus@g10code.de>

* debug.c: Include <errno.h> and "debug.h".
(_gpgme_debug): Save and restore ERRNO.
(TOHEX): New macro.
(_gpgme_debug_buffer): New function.
* conversion.c, data-compat.c, data-mem.c, data.c, engine-gpgsm.c, gpgme.c, keylist.c, posix-io.c, runpg.c, sign.c, version.c, w32-io.c, wait.c: Replace DEBUG macros by TRACE_* variants. In most of these files, add many more tracepoints.

2007-07-16 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (status_handler): Do not send BYE here.

* w32-io.c (struct reader_context_s, struct writer_context_s): New members REFCOUNT.
(create_reader, create_writer): Initialize C->refcount to 1.
(destruct_reader, destroy_writer): Only destroy if C->refcount
drops to 0.
(find_reader, find_writer, kill_reader, kill_writer): Beautify.
* w32-io.c (_gpgme_io_dup): Likewise.
* w32-glib-io.c (_gpgme_io_dup): Likewise.

2007-07-13 Marcus Brinkmann <marcus@g10code.de>

* data-user.c (user_read, user_write, user_seek): Set errno and
  return -1 instead returning the error code directly.
* data-compat.c (old_user_seek): Likewise.
* gpgme.c (gpgme_sig_notation_add): Return error properly.

* Revert the "close_notify_handler" returns int stuff. Always
close in the _gpgme_io_close implementations.
* engine-gpgsm.c (status_handler): Try to terminate the connection
  in case of error.
* w32-io.c (_gpgme_io讀): Return C->error_code in ERRNO.
(_gpgme_io_write): Likewise.

* priv-io.h (_gpgme_io设_close_notify): Change type of HANDLER
to _gpgme_close_notify_handler.
(_gpgme_close_notify_handler): New type.
(_gpgme_io_dup): Remove prototype.
* posix-io.c (notify_table, _gpgme_io设_close_notify): Change
type of HANDLER to _gpgme_close_notify_handler.t.
(_gpgme_io_close): Do not close the FD if handler returns 0.
(_gpgme_io_dup): Remove function.
* w32-io.c (notify_table, _gpgme_io设_close_notify,
  _gpgme_io_close): Change type of HANDLER to
  _gpgme_close_notify_handler.t.
(_gpgme_io_close): Do not close the FD if handler returns 0.
(_gpgme_io_dup): Remove function.
* w32-glib-io.c (_gpgme_io_dup): Remove function.
(_gpgme_io设_close_notify, notify_table): Change type of HANDLER
to _gpgme_close_notify_handler.t.
(_gpgme_io_close): Do not close the FD if handler returns 0.
* rungpg.c (close_notify_handler): Change return type to int,
  return 1.
* engine-gpgsm.c (close_notify_handler): Change return type to
  int, return 0 for status FD and 1 for all other FDs.
(start): Do not duplicate the status FD.

2007-07-12 Marcus Brinkmann <marcus@g10code.de>
* Makefile.am: Replace implicit rule by suffix rule. Add SUFFIXES for that.

2007-07-12 Werner Koch <wk@g10code.com>

* version.c (do_subsystem_inits) [W32]: Make sure that the socket system has been started.

2007-07-10 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_dup): Likewise.
* w32-glib-io.c (_gpgme_io_dup): Likewise.
* engine-gpgsm.c (start): Use _gpgme_dup() instead of dup().

2007-07-08 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c [HAVE_W32_SYSTEM]: Enable the bunch of the file.
* funopen.c (funopen): Rename to _gpgme_funopen.

2007-04-30 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Fix error handling for ttyname_r.
* rungpg.c (gpg_new): Likewise.
Submitted by Stephen Tether.

2007-02-26 Werner Koch <wk@g10code.com>

* verify.c (op_data_t): New element PLAINTEXT_SEEN.
(_gpgme_verify_status_handler): Return an error if more than one plaintext has been seen.
(parse_error): New arg SET_STATUS. Also detect it based on an ERROR status (gpg > 1.4.6).

2007-01-26 Werner Koch <wk@g10code.com>

* w32-io.c (build_commandline): Fixed stupid quoting bug.
* w32-glib-io.c (build_commandline): Ditto.

* rungpg.c (gpg_set_locale): Avoid dangling pointer after free.

* gpgme-config.in: New options --get-gpg and --get-gpgsm.

2007-01-18 Marcus Brinkmann <marcus@g10code.de>

* data.h (_gpgme_data_get_fd): Add prototype.
(gpgme_data_get_fd_cb): New type.
(struct _gpgme_data_cbs): New member get_fd.
* data.c (_gpgme_data_get_fd): New function.
* data-fd.c (fd_get_fd): New function.
(fd_cbs): Add fd_get_fd.
* data-stream.c (stream_get_fd): New function.
(stream_cbs): Add stream_get_fd.
* data-mem.c (mem_cbs): Add NULL for get_fd callback.
* data-user.c (user_cbs): Likewise.
* engine-gpgsm.c (gpgsm_set_fd) [USE_DESCRIPTOR_PASSING]: Try to short-cut by passing the data descriptor directly.

2007-01-17 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (build_commandline): Quote all command line arguments.
* w32-glib-io.c (build_commandline): Likewise.

2007-01-10 Werner Koch <wk@g10code.com>

* ttyname_r.c (ttyname_r) [W32]: Return a dummy name.

2007-01-08 Werner Koch <wk@g10code.com>

* version.c (do_subsystem_inits): Do assuan init only if building with Assuan.
* setenv.c: Include assuan-def.h only if building with Assuan support.

* op-support.c (_gpgme_op_reset): Set LC_MESSAGES only if if defined.
* engine-gpgsm.c (gpgsm_set_locale): Ditto.
* rungpg.c (gpg_set_locale): Ditto.

2006-12-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_protocol): Shut down the engine when switching protocols.
(gpgme_ctx_set_engine_info): Likewise for engine info.
* engine.h (_gpgme_engine_reset): New function prototype.
* engine.c (_gpgme_engine_reset): New function.
* engine-backend.h (struct engine_ops): New member RESET.
* rungpg.c (_gpgme_engine_ops_gpg): Add NULL for reset function.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm)
[USE_DESCRIPTOR_PASSING]: Add gpgsm_reset for reset.
(_gpgme_engine_ops_gpgsm) ![USE_DESCRIPTOR_PASSING]: Add NULL for reset function.
(gpgsm_reset) [USE_DESCRIPTOR_PASSING]: New function.
* op-support.c (_gpgme_op_reset): Try to use the engine's reset
function if available.
* engine-gpgsm.c (gpgsm_new): Move code to dup status_fd to ...
(start): ... here.

* engine.h (_gpgme_engine_new): Remove arguments lc_cctype and
lc_messsages from prototype.
(_gpgme_engine_set_locale): New prototype.
* engine.c (_gpgme_engine_set_locale): New function.
* op-support.c (_gpgme_op_reset): Call _gpgme_engine_set_locale.
* engine-backend.h (struct engine_ops): Add new member SET_LOCALE.
Remove arguments lc_messages and lc_cctype from member NEW.
* engine-gpgsm.c (struct engine_gpgsm): New members lc_cctype_set
and lc_messages_set.
(gpgsm_new): Remove lc_messages and lc_cctype
arguments.
(gpgsm_set_locale): New function.
(_gpgme_engine_ops_gpgsm): Add gpgsm_set_locale.
* rungpg.c (struct engine_gpg): Add new members lc_messages and
lc_cctype.
(gpg_release): Release lc_messages and lc_cctype if set.
(gpg_new): Remove lc_messages and lc_cctype arguments.
(gpg_set_locale): New function.
(_gpgme_engine_ops_gpg): Add gpg_set_locale.
(add_arg): Implement in terms of:
(add_arg_ext): New function.
(start): Set lc-messages and lc-cctype arguments here.

2006-12-03 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (struct engine_gpgsm): Move members
input_fd_server, output_fd_server, message_fd_server to ...
(iocb_data): ... here (as server_fd).
(close_notify_handler): Reset tags as well.
(gpgsm_new): Implement support for descriptor
passing.
(fd_type_t): New type.
(gpgsm_clear_fd): New function. Use it instead of _gpgsm_io_close
for unused communication channels.
(gpgsm_set_fd): Rewritten to support descriptor passing. All
relevant callers adjusted as well (previously of _gpgme_io_close).

2006-12-02 Marcus Brinkmann <marcus@g10code.de>

* version.c: Include "assuan.h".
(do_subsystem_inits): Call assuan_set_assuan_err_source.

2006-12-01 Marcus Brinkmann <marcus@g10code.de>
* Makefile.am (libgpgme_real_la_SOURCES): Rename to main_sources.
   (libgpgme_la_SOURCES, libgpgme_pthread_la_SOURCES,
    libgpgme_glib_la_SOURCES, libgpgme_pth_la_SOURCES): Add
    $(main_sources).
   (libgpgme_la_DEPENDENCIES, libgpgme_la_LIBADD,
    libgpgme_pthread_la_DEPENDENCIES, libgpgme_pthread_la_LIBADD,
    libgpgme_pth_la_DEPENDENCIES, libgpgme_pth_la_LIBADD,
    libgpgme_glib_la_DEPENDENCIES, libgpgme_glib_la_LIBADD): Remove
    libgpgme-real.la.
   (noinst_LTLIBRARIES): Removed.
   (libgpgme_glib_la_CFLAGS, libgpgme_pth_la_CFLAGS): Removed.
   (AM_CFLAGS): New variable.

2006-11-30 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Replace AssuanError with gpg_error_t and
  ASSUAN_CONTEXT with assuan_context_t.

2006-11-29 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Check return value of
  assuan_pipe_connect.

* rungpg.c: Include <unistd.h>.
  (gpg_new): Support --display, --ttyname, --ttytype, --lc-ctype and
  --lc-messages. Fixes issue 734.

2006-10-24 Marcus Brinkmann <marcus@g10code.de>

* trustlist.c (gpgme_op_trustlist_next): Return error if OPD is
  NULL.

2006-10-23 Marcus Brinkmann <marcus@g10code.de>

* wait-global.c (gpgme_wait): Unlock CTX_LIST_LOCK while calling
  _gpgme_engine_io_event()..

* keylist.c (gpgme_op_keylist_next): Return error if OPD is NULL.

2006-09-25 Marcus Brinkmann <marcus@g10code.de>

* data-mem.c (gpgme_data_release_and_get_mem): Release the data
  object properly.

2006-09-22 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (keylist_colon_handler): Move debug output after
initialising KEY.

2006-07-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (Options): Add NETLIBS.
* Makefile.am (libgpgme_la_LIBADD, libgpgme_pthread_la_LIBADD, libgpgme_pth_la_LIBADD, libgpgme_glib_la_LIBADD): Add NETLIBS.

* rungpg.c (read_status): Fix comparison disguising as an assignment.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_locale): Remove conditional on HAVE_W32_SYSTEM, and just check for LC_MESSAGES.

2006-07-16 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (read_status): Strip potential carriage return.
* genkey.c (get_key_parameter): Skip potential carriage return.
* version.c (_gpgme_get_program_version): Strip potential carriage return.

* data.c (gpgme_data_set_file_name): Allow to clear the file name by passing NULL.

2006-06-22 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_get_key): Also clone the engine info.

2006-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (cflags_pth): Revert accidental removal of pthread support with last change.

2006-02-28 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (O_BINARY) ![O_BINARY]: New macro. (_gpgme_io_pipe): Open pipes in binary mode.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

* engine.c (gpgme_engine_check_version): Reimplemented to allow checking the version correctly even after changing the engine information. Bug reported by Stphane Corthsy.

* rungpg.c (read_colon_line): Invoke colon preprocess handler if it is set.
(colon_preprocessor_t): New type.
(struct engine_gpg): New member colon.preprocess_fnc.
(gpg_keylist_preprocess): New function.
* keylist.c (keylist_colon_handler): Allow short key IDs.

2006-02-15 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (create_writer): Make C->have_data a manually reset event.
(writer): Move code from end of if block to beginning, so it is also run the first time.
(_gpgme_io_write): Move assert check after error check. Reset the is_empty event, and also do it eagerly.
(_gpgme_io_select): Unconditionally wait for the is_empty event.

2006-01-26 Werner Koch <wk@g10code.com>

* w32-util.c (_gpgme_get_conf_int): New.
* w32-io.c (get_desired_thread_priority): New.
(creator_reader, create_writer): Use it here.

2006-01-04 Werner Koch <wk@g10code.com>

* debug.h (_gpgme_debug_srcname): New. Use it with the debug macros.


2006-01-03 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (_gpgme_io_close): Only close fd if there is no channel for it.

2005-12-31 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (find_channel): Set channel to unbuffered.
(_gpgme_io_select): Fix debug output.

2005-12-23 Werner Koch <wk@g10code.com>

* gpgme.h (struct _gpgme_signature): Append field PKA_ADDRESS.
* verify.c (release_op_data, _gpgme_verify_status_handler): Set this field.

2005-12-20 Werner Koch <wk@g10code.com>

* gpgme.h (gpgme_status_code_t): Added GPGME_STATUS_PKA_TRUST_BAD
and GPGME_STATUS_PKA_TRUST_GOOD.
(struct _gpgme_signature): New field pka_trust.
* verify.c (_gpgme_verify_status_handler): Set pka_trust.

2005-12-06 Werner Koch <wk@g10code.com>

* keylist.c (keylist_colon_handler): Store fingerprints of the
  subkeys. Reset the secret flag of subkeys for stub secret keys.
(NR_FIELDS): Bumped up to 16

2005-11-27 Marcus Brinkmann <marcus@g10code.de>

* engine.c (_gpgme_set_engine_info): Use new_file_name in
  engine_get_version invocation. Reported by Stphane Corthsy.

2005-11-24 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (_gpgme_io_fd2str): Remove debug printf.

2005-11-18 Werner Koch <wk@g10code.com>

* w32-glib-io.c: Include glib.h before windows to avoid a symbol
  shadowing warning.
  (find_channel): Better use g_io_channel_win32_new_fd instead of
  the autodetection function g_io_channel_unix_new.
  (_gpgme_io_select): Rewritten. It is now a fully working select
  implementation.

2005-11-18 Marcus Brinkmann <marcus@g10code.de>

* priv-io.h (_gpgme_io_fd2str): New prototype.
* w32-io.c (_gpgme_io_fd2str): New function.
* rungpg.c: Use this new function.
* w32-glib-io.c (_gpgme_io_fd2str): Rewrote the file handle code
  again. Two's company, three's the musketeers.

  * w32-glib-io.c: Rewrote the file handle code. We don't create
    system fds for every handle (doesn't work for inherited handles),
    but we create pseudo fds in a private namespace that designate a
    handle and potentially a giochannel.

2005-11-18 Werner Koch <wk@g10code.com>

* versioninfo.rc.in: Set file version to LT-version + Svn-revision.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>
* gpgme.def (gpgme_get_giochannel): Add symbol.
* Makefile.am (system_components) [HAVE_DOSISH_SYSTEM]: Remove w32-io.c.
  (ltlib_gpgme_extra): New variable.
  (lib_1_TLIBRARIES): Add $(ltlib_gpgme_extra).
  (system_components_not_extra): New variable.
  (libgpgme_la_SOURCES, libgpgme_pthread_la_SOURCES,
   libgpgme_pth_la_SOURCES): Add $(system_components_not_extra).
  (libgpgme_glib_la_LDFLAGS, libgpgme_glib_la_DEPENDENCIES,
   (libgpgme_glib_la_LIBADD, libgpgme_glib_la_CFLAGS)
   [BUILD_W32_GLIB]): New variables.
* gpgme-config.in (glib): New option.
* gpgme.m4 (AM_PATH_GPGME_GLIB): New macro.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_waitpid, _gpgme_io_kill): Removed.
  (_gpgme_io_waitpid): Declare static.

2005-10-24 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_spawn): Don't minimize window, hide it.

2005-10-21 Werner Koch <wk@g10code.com>

* Makefile.am: Fixed cut+paste problem

2005-10-20 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am: Build versioninfo.lo, not versioninfo.o. Also, fix the whole mess.

2005-10-16 Marcus Brinkmann <marcus@g10code.de>

* runpgc.c (gpg_edit): Don't add a key argument if in card edit mode.

2005-10-06 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgme.dll gpgme.dll.a): Use $(srcdir) for gpgme.def.

* gpgme.h (gpgme_free): New prototype.
* data-mem.c (gpgme_free): New function.
* libgpgme.vers (GPGME_1.1): Add gpgme_free.
* gpgme.def: Add gpgme_free.

2005-10-02 Marcus Brinkmann <marcus@g10code.de>

* util.h (_gpgme_decode_percent_string): Add new argument BINARY to prototype.
* verify.c (parse_notation): Likewise for invocation.
* conversion.c (_gpgme_decode_percent_string): Likewise to declaration. If set, do not replace '0' characters with a printable string.
* gpgme.h (struct _gpgme_key_sig): New field notations.
* ops.h (_gpgme_parse_notation): New prototype.
* sig-notation.c (_gpgme_parse_notation): New function.
* key.c (gpgme_key_unref): Free all signature notations.
* keylist.c (op_data_t): New member tmp_keysig.
* (finish_key): Clear OPD->tmp_keysig.
* gpgme.c (gpgme_set_keylist_mode): Remove check.
* rungpg.c (gpg_keylist): Support listing signature notations.
* (gpg_keylist_ext): Likewise.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* engine.h (_gpgme_set_engine_info): Add prototype.
* engine-backend.h (struct engine_ops): Change return type of get_file_name() to const char * to silence gcc warning.
* engine.c (engine_get_file_name): Change return type to const char * to silence gcc warning.
* gpgme_get_engine_info): Use transitional variable to go from const char * to char * to silence gcc warning.
* engine-gpgsm.c (struct engine_gpgsm): Change type of LINE to char * to silence gcc warning.
* gpgsm_new): Make ARGV a pointer to const char.
* (status_handler): Change type of SRC, END, DST, ALINE and NEWLINE to char * to silence gcc warning.

* gpgme.def: Add gpgme_data_set_file_name, gpgme_data_get_file_name, gpgme_sig_notation_clear, gpgme_sig_notation_add and gpgme_sig_notation_get.
* libgpgme.vers: Add gpgme_sig_notation_clear, gpgme_sig_notation_add and gpgme_sig_notation_get.
* Makefile.am (libgpgme_real_la_SOURCES): Add sig-notation.c.
* context.h (struct gpgme_context): New field sig_notations.
* gpgme.h (struct _gpgme_sig_notation): New member value_len and critical.
* (gpgme_sig_notation_flags_t): New type.
* (gpgme_sig_notation_add, gpgme_sig_notation_clear,
* ops.h (_gpgme_sig_notation_create, _gpgme_sig_notation_free):
  New prototypes.
* verify.c (parse_notation): Use support functions.
  (release_op_data): Likewise.
* rungpg.c (append_args_from_sig_notations): New function.
  (gpg_encrypt_sign, gpg_sign): Call it.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* data.h (struct gpgme_data): New member file_name.
* data.c (gpgme_data_set_filename): New function.
  (_gpgme_data_release): Free DH->filename if necessary.
  (gpgme_data_get_filename): New function.
* rungpg.c (gpg_encrypt): Set filename option.
  (gpg_encrypt_sign, gpg_sign): Likewise.
  (gpg_sign): Likewise.
* libgpgme.vers (GPGME_1.1): Add gpgme_data_set_file_name and
gpgme_data_get_file_name.

* decrpyt.c, verify.c, gpgme.h: Replace plaintext_filename with
  file_name.

2005-09-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_key): Add field is_qualified.
  (struct _gpgme_subkey): Likewise.
* keylist.c (set_subkey_capability, set_mainkey_capability): Set
  field is_qualified.

2005-09-23 Werner Koch <wk@g10code.com>

* w32-io.c (_gpgme_io_pipe): Removed use of environment variable again.
  (create_reader, create_writer): Set thread priority higher.

2005-09-19 Werner Koch <wk@g10code.com>

* w32-io.c (_gpgme_io_pipe): New environment variable to change
  the size of the pipe buffer.

2005-09-13 Werner Koch <wk@g10code.com>

* ath.c: Changes to make it work under W32.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>
* Makefile.am (libgpgme_la_SOURCES): Set to ath.h and ath.c.
  (ath_pth_src, ath_pthread_src): Removed.
  (w32_o_files): Replace ath-compat.o with ath.o.
  (libgpgme_pth_la_CFLAGS): New variable.
* ath-compat.c, ath-pthread-compat.c, ath-pth-compat.c: Removed.
* ath.h (ath_pthread_available, ath_pth_available): Removed.
(at_h_init) ![_ATH_EXT_SYM_PREFIX]: Do not define macro.
(struct ath_ops, ath_init) ![_ATH_COMPAT]: Removed.
(_ATH_COMPAT): Macro removed.
* posix-sema.c (_gpgme_sema_subsystem_init): Do not call
  _gpgme_ati_init.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (release_op_data): Do not free opd->tmp_uid.

2005-09-07 Werner Koch <wk@g10code.com>

* w32-io.c (build_commandline): Quote argv[0],

2005-08-26 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (command_handler): Use _gpgme_io_write instead of write.

* edit.c (command_handler): Do not depend on PROCESSED being
  available.

* engine.h (engine_command_handler_t): Add new argument processed.
* ops.h (_gpgme_passphrase_command_handler_internal): Rename
  prototype to ...
  (_gpgme_passphrase_command_handler): ... this one.
* passphrase.c (_gpgme_passphrase_command_handler_internal):
  Rename to ...
  (_gpgme_passphrase_command_handler): ... this one.
* edit.c (command_handler): Add new argument processed. Remove
  local variable with the same name. Always return processed as
  true.
* rungpg.c (command_handler): Send a newline character if the
  handler did not.

2005-08-26 Werner Koch <wk@g10code.com>

* w32-util.c (read_w32_registry_string): Updated from code used by
  GnuPG. This allows for expanding strings and features the
  implicit fallback key.
  (w32_shgetfolderpath, find_program_at_standard_place): New.
  (_gpgme_get_gpg_path, _gpgme_get_gpgsm_path): With no registry
  entry, locate the programs at the standard place.
(dlopen, dlsym, dlclose): New, so that we can keep on using what we are accustomed to.

* debug.c (debug_init): Use PATHSEP_C so that under W32 a semicolon is used which allows us to create files with drive letters.

* w32-io.c (_gpgme_io_read, _gpgme_io_write): Print content in debug mode too.

2005-07-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_status_code_t): Add GPGME_STATUS_PLAINTEXT.
  (struct _gpgme_op_decrypt_result): New member plaintext_filename.
  (struct _gpgme_op_verify_result): Likewise.
* ops.h (_gpgme_parse_plaintext): Add prototype.
* op-support.c (_gpgme_parse_plaintext): New function.
* decrypt.c (release_op_data): Release OPD->result.plaintext_filename.
  (_gpgme_decrypt_status_handler): Handle GPGME_STATUS_PLAINTEXT.
* verify.c (release_op_data): Release OPD->result.plaintext_filename.
  (_gpgme_verify_status_handler): Handle GPGME_STATUS_PLAINTEXT.

2005-08-08 Werner Koch <wk@g10code.com>

* util.h (stpcpy): Renamed to ..
  (_gpgme_stpcpy): .. this and made inline. This avoids duplicate definitions when linking statically.
* stpcpy.c: Removed.

2005-08-19 Werner Koch <wk@g10code.com>

* gpgme.def: New.
* versioninfo.rc.in: New.
* Makefile.am: Adds support for building a W32 DLL.

* ttyname_r.c (ttyname_r) [W32]: Return error.
* ath-compat.c [W32]: select and co are not yet supported; return error.
* data-stream.c (stream_seek): Use ftell if ftello is not available.

2005-07-26 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_get_key): Allow key IDs.

2005-06-20 Marcus Brinkmann <marcus@g10code.de>
* gpgme.m4: Only call GPGME_CONFIG if found.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_signature): New members pubkey_algo and hash_algo.
* verify.c (parse_valid_sig): Parse pubkey and hash algo numbers.
  (parse_new_sig): Parse pubkey, hash algo and timestamp for ERRSIG.

(_gpgme_decrypt_status_handler): Fix last change.

* gpgme.h (struct _gpgme_recipient): New structure.
  (gpgme_recipient_t): New type.
  (struct _gpgme_op_decrypt_result): Add member recipients.
* decrypt.c (op_data_t): New member last_recipient_p.
(_gpgme_op_decrypt_init_result): Initialize last_recipient_p.
(parse_enc_to): New function.
(_gpgme_decrypt_status_handler): Handle status ENC_TO and NO_SECKEY.

* wait-global.c (gpgme_wait): Break out of the fd processing loop after an error.
  Reported by Igor Belyi <gpgme@katehok.ac93.org>.

2005-06-02 Marcus Brinkmann <marcus@g10code.de>

* wait.h (_gpgme_run_io_cb): New prototype.
* wait.c (_gpgme_run_io_cb): New function.
* wait-global.c (gpgme_wait): Call it.
* wait-user.c (_gpgme_user_io_cb_handler): Likewise.
* wait-private.c (_gpgme_wait_on_condition): Likewise.

2005-06-02 Werner Koch <wk@g10code.com>

* passphrase.c (_gpgme_passphrase_status_handler): Take care of
  GPGME_STATUS_NEED_PASSPHRASE_PIN.
(_gpgme_passphrase_command_handler_internal): Also act on the key
"passphrase.pin.ask".

* gpgme.h: Added status codes GPGME_STATUS_SIG_SUBPACKET,
  GPGME_STATUS_NEED_PASSPHRASE_PIN, GPGME_STATUS_SC_OP_FAILURE,
  GPGME_STATUS_SC_OP_SUCCESS, GPGME_STATUS_CARDCTRL,
  GPGME_STATUS_BACKUP_KEY_CREATED.

2005-05-28 Marcus Brinkmann <marcus@g10code.de>

* data-user.c: Include <errno.h>.

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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 2100
2005-05-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_new): Set the CTX->include_certs default to the
default.

2005-05-11 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_select): Fix loop increment.

2005-05-05 Marcus Brinkmann <marcus@g10code.de>

* data-user.c (user_release): Only call user hook if provided.
  (user_seek): Return EBADF if no user hook is provided.
  (user_read): Likewise.
  (user_write): Likewise.

2005-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GPGME_INCLUDE_CERTS_DEFAULT): New macro.
  * engine-gpgsm.c (gpgsm_sign): Send the include-certs option after
    the reset, just for cleanliness, and do not sent it at all if the
default is requested.
  * gpgme.c (gpgme_set_include_certs): Allow to use
    GPGME_INCLUDE_CERTS_DEFAULT.

2005-04-21 Werner Koch <wk@g10code.com>

* verify.c (calc_sig_summary): Set the key revoked bit.

2005-04-14 Marcus Brinkmann <marcus@g10code.de>

* wait-global.c (gpgme_wait): Use LI->ctx when checking a context
  in the list, not the user-provided CTX.
Reported by Igor Belyi <gpgme@katehok.ac93.org>.

* wait-global.c (gpgme_wait): If no context is found, and we
  should not hang, set *status to 0 and return NULL.
Reported by Igor Belyi <gpgme@katehok.ac93.org>.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* data.h (EOPNOTSUPP) [_WIN32]: Remove definition.
  * data.c (EOPNOTSUPP) [HAVE_W32_SYSTEM]: Remove definition.
    (gpgme_data_read, gpgme_data_write, gpgme_data_seek): Return
    ENOSYS instead EOPNOTSUPP.
  * data-compat.c (EOPNOTSUPP) [HAVE_W32_SYSTEM]: Remove definition.
    (gpgme_error_to_errno): Map GPG_ERR_NOT_SUPPORTED
to ENOSYS.
* io.h: Rename to ...
* priv-io.h: ... this.
* Makefile.am (libgpgme_real_la_SOURCES): Change io.h to priv-io.h.
* data.c, engine-gpgsm.c, posix-io.c, rungpg.c, version.c, w32-io.c, wait-private.c, wait-global.c, wait-user.c, wait.c:
  Change all includes of "io.h" to "priv-io.h"

2005-03-09 Werner Koch <wk@g10code.com>

* w32-util.c (_gpgme_get_gpg_path, _gpgme_get_gpgsm_path): Do not cast away type checks.

* io.h [W32]: Do not include stdio.h. If it is needed do it at the right place.

* data.h [W32]: Removed kludge for EOPNOTSUP.
* data.c, data-compat.c [W32]: Explicitly test for it here.

Replaced use of _WIN32 by HAVE_W32_SYSTEM except for public header files.

2005-03-07 Timo Schulz <twoaday@g10code.de>

* gpgme.h: [_WIN32] Removed ssize_t typedef.
* ath.h: [_WIN32] Added some (dummy) types.
* io.h: [_WIN32] include stdio.h.
* data.h: [_WIN32] Define EOPNOTSUPP.
* gpgme.c [_WIN32] (gpgme_set_locale): Disabled.

2004-12-12 Marcus Brinkmann <marcus@g10code.de>

* engine.c (_gpgme_set_engine_info): Fix assertion.

2004-12-11 Marcus Brinkmann <marcus@g10code.de>

* util.h [HAVE_CONFIG_H && HAVE_TTYNAME_R] (ttyname_r): Define prototype.
* ttyname_r.c: New file.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* putc_unlocked.c, funopen.c: I just claim copyright on these files and change their license to LGPL, because they are totally trivial wrapper functions.
* isascii.c: Change copyright notice to the one from ctype/ctype.h in the GNU C Library (CVS Head 2004-10-10), where isascii is defined as a macro doing exactly the same as the function in this file.

* memrchr.c: Update from the GNU C Library (CVS Head 2001-07-06).
* stpcpy.c: Update from the GNU C Library (CVS Head 2004-10-10).
* ath.c, ath-compat.c, ath.h, ath-phantom.c, ath-phantom-compat.c, ath-phantom-thread.c, ath-phantom-thread-compat.c, context.h, conversion.c, data.c, data-compat.c, data-fd.c, data.h, data-mem.c, data-stream.c, data-user.c, debug.c, debug.h, decrypt.c, decrypt-verify.c, delete.c, edit.c, encrypt.c, encrypt-sign.c, engine-backend.h, engine.c, engine-gpgsm.c, engine.h, error.c, export.c, genkey.c, get-env.c, gpgme.c, gpgme.h, import.c, io.h, key.c, keylist.c, mkstatus, Makefile.am, ops.h, op-support.c, passphrase.c, posix-io.c, posix-sema.c, posix-util.c, progress.c, rungpg.c, sema.h, sign.c, signers.c, trust-item.c, trustlist.c, util.h, verify.c, version.c, w32-ioctl.c, w32-sema.c, w32-util.c, wait.c, wait-global.c, wait.h, wait-private.c, wait-user.c: Change license to LGPL.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* libgpgme.vers (GPGME_1.1): New version.
* engine-backend.h (struct engine_ops): Add argument FILE_NAME to member get_version(). Add arguments FILE_NAME and HOME_DIR to member new(). Change return type of get_file_name and get_version to char *.
* engine-gpgsm.c (gpgsm_get_version): Change return type to char pointer. Do not cache result.
(gpgsm_new): Add file_name and home_dir argument, and use them instead of the defaults, if set.
* rungpg.c (struct engine_gpg): New member file_name.
(gpg_get_version): Change return type to char pointer, and do not cache result.
(gpg_release): Free gpg->file_name.
(gpg_new): Take new arguments file_name and home_dir. Set the --homedir argument if HOME_DIR is not NULL. Set gpg->file_name.
(start): Use gpg->file_name instead _gpgme_get_gpg_path, if set.
* engine.h (_gpgme_engine_info_copy, _gpgme_engine_info_release): New prototypes.
(_gpgme_engine_new): Change first argument to gpgme_engine_info_t info.
* engine.c: Include <assert.h>.
(gpgme_get_engine_info): Set *INFO within the lock. Move ENGINE_INFO and ENGINE_INFO_LOCK to ....
(engine_info, engine_info_lock): ... here. New static variables.
(engine_get_version): Add file_name argument to get_version invocation. Change return type to char pointer.
(gpgme_engine_check_version): Rewritten to free() the return value of engine_get_version after using it.
(_gpgme_engine_info_release): New function.
(gpgme_get_engine_info): Rewritten.
(_gpgme_engine_info_copy): New function.
(_gpgme_set_engine_info): New function.
(gpgme_set_engine_info): New function.
(_gpgme_engine_new): Change first argument to gpgme_engine_info_t info, and use that.
* gpgme.h (struct _gpgme_engine_info): Change type of file_name and version to char * (remove the const). New member home_dir.
* context.h (struct gpgme_context): New member engine_info.
* gpgme.c (gpgme_new): Allocate CTX->engine_info.
(gpgme_release): Deallocate CTX->engine_info.
(gpgme_ctx_get_engine_info, gpgme_ctx_set_engine_info): New functions.
* op-support.c (_gpgme_op_reset): Look for correct engine info and pass it to _gpgme_engine_new.
* version.c (gpgme_check_version): Adjust to _gpgme_compare_versions returning an int.
(_gpgme_compare_versions): Return an int value, not a const char pointer.
* ops.h (_gpgme_compare_versions): Same for prototype.

2004-10-03 Marcus Brinkmann <marcus@g10code.de>

* verify.c (parse_trust): If no reason is provided, set SIG->validity_reason to 0.
(calc_sig_summary): Set GPGME_SIGSUM_CRL_TOO_OLD if appropriate.

2004-10-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (map_assuan_error): Return 0 if ERR is 0.
(start): Call map_assuan_error on return value of assuan_write_line.

2004-10-05 Marcus Brinkmann <marcus@g10code.de>

* op-support.c (_gpgme_op_data_lookup): Use char pointer for pointer arithmetic.

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.m4: Implement the --api-version check.

* rungpg.c (read_status): Move the polling of the output data pipe
to just before removing the command fd, from just before adding it. This avoids buffering problems.

* data.c (_gpgme_data_inbound_handler): Use _gpgme_io_read, not read, to improve debug output.

2004-09-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GPGME_IMPORT_NEW, GPGME_IMPORT_UID, GPGME_IMPORT_SIG,
GPGME_IMPORT_SUBKEY, GPGME_IMPORT_SECRET,
(GPGME_KEYLIST_MODE_LOCAL, GPGME_KEYLIST_MODERN_EXTERN,
GPGME_KEYLIST_MODE_SIGS, GPGME_KEYLIST_MODE_VALIDATE): Change from
enum to macros.
(gpgme_keylist_mode_t): Define as unsigned int.
(gpgme_key_t): Change type of keylist_mode to
gpgme_keylist_mode_t.

2004-09-23 Marcus Brinkmann <marcus@g10code.de>

* data.c (_gpgme_data_outbound_handler): Close the file descriptor
if we get an EPIPE.

* data-stream.c (stream_seek): Call ftello and return the current
offset.
* data.h (struct gpgme_data): Change type of data.mem.offset to
off_t.
* data.c (gpgme_data_seek): Check dh->cbs->seek callback, not read
callback. If SEEK_CUR, adjust the offset by the pending buffer
size. Clear pending buffer on success.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.m4: Add copyright notice.

2004-08-18 Marcus Brinkmann <marcus@g10code.de>

* passphrase.c (_gpgme_passphrase_status_handler): Always run the
status handler.

2004-08-17 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (build_argv): Use --no-sk-comment, not --no-comment.

2004-06-23 Marcus Brinkmann <marcus@g10code.de>

* key.c (_gpgme_key_append_name): Make sure tail points to the
byte following the uid.
Likewise. Don't use calloc, but malloc and memset.

2004-06-02 Marcus Brinkmann <marcus@g10code.de>

* libgpgme.vers: Remove C-style comment, which is not supported by older binutils.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (Options): Support --api-version.

* libgpgme.vers: List all gpgme symbols under version GPGME_1.0.

* decrypt.c (_gpgme_decrypt_status_handler): Fix last change.
* verify.c (parse_error): Likewise.

* verify.c (parse_error): Do not skip location of where token.

* gpgme.h (gpgme_status_code_t): Add GPGME_STATUS_REVKEYSIG.
* verify.c (_gpgme_verify_status_handler): Add handling of GPGME_STATUS_REVKEYSIG.
   (parse_trust): Likewise.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_decrypt_result): New fields wrong_key_usage and _unused.
* decrypt.c (_gpgme_decrypt_status_handler): Don't skip over character after a matched string, as in a protocol error this could skip over the trailing binary zero.

Handle decrypt.keyusage error notifications.

* gpgme.h (struct _gpgme_key): New member keylist_mode.
* keylist.c (keylist_colon_handler): Set the keylist_mode of KEY.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_signature): Change member WRONG_KEY_USAGE to unsigned int. Same for member _unused.

* keylist.c (set_mainkey_trust_info): Rewritten.
   (set_subkey_capability): Handle 'd' (disabled).
   (set_mainkey_capability): Rewritten.

2004-04-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.m4: Quote first argument to AC_DEFUN.
2004-04-21 Werner Koch <wk@gnupg.org>

* key.c (gpgme_key_unref): Allow passing NULL like free does.
  The rule of least surprise.

2004-04-15 Werner Koch <wk@gnupg.org>

* verify.c (prepare_new_sig, _gpgme_verify_status_handler): Remove
  unused result.signatures items.

* keylist.c (gpgme_get_key): Return an error if FPR is NULL.

2004-04-08 Werner Koch <wk@gnupg.org>

* verify.c (_gpgme_verify_status_handler): Ignore the error status
  if we can't process it.

* decrypt-verify.c (decrypt_verify_status_handler): Backed out
  yesterday's hack. It is not any longer required.

2004-04-07 Werner Koch <wk@gnupg.org>

* decrypt-verify.c (decrypt_verify_status_handler): Hack to cope
  with meaningless error codes from the verify status function.

2004-04-05 Werner Koch <wk@gnupg.org>

* gpgme.h: Add GPGME_STATUS_NEWSIG.

* verify.c (parse_error): Compare only the last part of the where
  token.
  (prepare_new_sig): New.
  (parse_new_sig): Use prepare_new_sig when required.
  (_gpgme_verify_status_handler): Handle STATUS_NEWSIG.

* engine-gpgsm.c (gpgsm_keylist_ext): Send with-validation
  option. Fixed pattern construction.
  (status_handler): Add debugging output.

2004-03-23 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Protect _only_ tty related code with
  isatty(). Submitted by Bernhard Herzog.

2004-03-11 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Protect all tty related code with
  isatty().
* rungpg.c (gpg_cancel): Set GPG->fd_data_map to NULL after releasing it.
* engine-gpgsm.c (gpgsm_cancel): Only call assuan_disconnect if GPGSM->assuan_ctx is not NULL. Set it to NULL afterwards.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in: Do not emit include and lib directory for prefix "/usr" or "".

2004-03-03 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (gpgsm_export_ext): Properly insert a space between patterns.

2004-02-18 Werner Koch <wk@gnupg.org>

* gpgme-config.in: Ignore setting of --prefix.

2004-02-25 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_cancel): New function.
  (gpg_release): Call it here.
  (_gpgme_engine_ops_gpg): Add it here.
* engine-gpgsm.c (gpgsm_cancel): Fix last change.

2004-02-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_cancel): New function.
* engine-backend.h (struct engine_ops): New member cancel.
* engine.h (_gpgme_engine_cancel): New prototype.
* engine.c (_gpgme_engine_cancel): New function.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm): Add new member cancel.
  (gpgsm_cancel): New function.
  (gpgsm_release): Use it.
* rungpg.c (_gpgme_engine_ops_gpg): Add new member cancel.

2004-02-17 Werner Koch <wk@gnupg.org>

* gpgme.h: Add GPGME_KEYLIST_MODE_VALIDATE.
* engine-gpgsm.c (gpgsm_keylist): Send this to gpgsm.

2004-02-15 Werner Koch <wk@gnupg.org>

* memrchr.c (memrchr): Fixed implementation. Problem pointed out by Adriaan de Groot.
2004-02-01 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (build_argv): Use --no-comment, not --comment "".

* data-compat.c (gpgme_data_new_from_filepart): Call fseeko if available.
* data-stream.c (stream_seek): Likewise.

2004-01-16 Werner Koch <wk@gnupg.org>

* conversion.c (_gpgme_map_gnupg_error): Handle numerical codes as used by GnuPG 1.9.x

2004-01-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_key_sig): Fix comment on REVOKED.

2004-01-12 Werner Koch <wk@gnupg.org>

* sign.c: Include util.h for prototype of _gpgme_parse_timestamp.

2003-12-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (_GPGME_DCLASS): Revert this change.
  (struct _gpgme_key_sig): For C++ compilers, rename class member to _obsolete_class. Add new member sig_class.
  (struct _gpgme_new_signature): Same here.
* key.c (gpgme_key_sig_get_ulong_attr): Use CERTSIG->sig_class, not CERTSIG->class.
* keylist.c (keylist_colon_handler): Likewise for KEYSIG, but keep setting KEYSIG->class, too. Rename variable CLASS to SIG_CLASS.
* sign.c (parse_sig_created): Set SIG->sig_class.

2003-12-22 Werner Koch <wk@gnupg.org>

* gpgme.h (_GPGME_DCLASS): Kludge for C++ compatibility without changing the C API.

2003-11-19 Werner Koch <wk@gnupg.org>

* conversion.c (_gpgme_parse_timestamp): New.
  (atoi_1, atoi_2, atoi_4): New.
* keylist.c (parse_timestamp): Removed. Changed all callers to use the new function.
* verify.c (parse_valid_sig): Ditto. Replaced the errno check.
* sign.c (parse_sig_created): Ditto.

2003-10-31 Werner Koch <wk@gnupg.org>
* keylist.c (parse_timestamp): Detect ISO 8601 timestamps and try to convert them.

2003-10-10 Marcus Brinkmann <marcus@g10code.de>

* genkey.c (get_key_parameter): Make a copy of the key parameters. Submitted by Miguel Coca <e970095@zipi.fi.upm.es>.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

* data-compat.c: Include <sys/time.h> before <sys/stat.h> for broken systems.

* engine-gpgsm.c (map_assuan_error): If ERR is -1, return sensible error.

* posix-io.c (_gpgme_io_subsystem_init): Add function.
(_gpgme_io_spawn): Do not fixup signal handler here.
* version.c (do_subsystem_inits): Call _gpgme_io_subsystem_init.

* debug.c (debug_init): Drop const qualifier from E.

* ath.h (struct ath_ops): Make ADDR argument of CONNECT prototype const.
(ath_connect): Make ADDR argument const.
* ath-pthread.c (ath_connect): Likewise.
* ath-pth.c (ath_connect): Likewise.
* ath-compat.c (ath_connect): Likewise.
* ath.c (ath_connect): Likewise.

* ath.h [HAVE_SYS_SELECT_H]: Include <sys/select.h> for fd_set.
[!HAVE_SYS_SELECT_H]: Include <sys/time.h>.

* conversion.c (_gpgme_hextobyte): Drop "unsigned" from type of SRC argument.
* util.h (_gpgme_hextobyte): Likewise for prototype.

* gpgme.h: Remove trailing comma in enum.

* rungpg.c: Do not include <time.h>, <sys/time.h>, <sys/types.h>, <signal.h>, <fcntl.h>, or "unistd.h".

2003-10-02 Marcus Brinkmann <marcus@g10code.de>

* engine-backend.h (struct engine_ops): Add argument TYPE.
* engine.c (_gpgme_engine_op_edit): Likewise.
* engine.h: Likewise.
* rungpg.c (gpg_edit): Likewise. Use it.
* edit.c (edit_start): Likewise. Pass it on.
  (gpgme_op_edit_start, gpgme_op_edit): Likewise.
  (gpgme_op_card_edit_start, gpgme_op_card_edit): New functions.

2003-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpg_strerror_r): Change prototype to match
gpg_strerror_r change.
* error.c (gpg_strerror_r): Likewise, also update implementation.

* gpgme.c (gpgme_hash_algo_name): Change name of RMD160 to
  RIPEMD160, name of TIGER to TIGER192, name of CRC32-RFC1510 to
  CRC32RFC1510, and name of CRC24-RFC2440 to CRC24RFC2440.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add prototype for gpgme_set_locale.

* gpgme.h: Define macro _GPGME_INLINE depending on the compiler
  characteristics and use that instead __inline__.

* context.h (struct gpgme_context): New members lc_cotype and
  lc_messages.
* gpgme.c: Include <locale.h>.
  (def_lc_lock, def_lc_cotype, def_lc_messages): New static
  variables.
  (gpgme_set_locale): New function.
* engine.c (_gpgme_engine_new): Add arguments lc_cotype and
  lc_messages.
* engine.h (_gpgme_engine_new): Likewise.
* engine-gpgsm.c (gpgsm_new): Likewise.
* rungpg.c (gpg_new): Likewise.
* engine-backend.h (struct engine_ops): Likewise to NEW.
* op-support.c (_gpgme_op_reset): Likewise to invocation of
  _gpgme_engine_new.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_strerror_r): New prototype.
* error.c (gpgme_strerror_r): New function.

* util.h (_gpgme_getenv): Add prototype.
* Makefile.am (libgpgme_real_la_SOURCES): Add get-env.c.
* rungpg.c (build_argv): Use _gpgme_getenv.
* debug.c (debug_init): Likewise.
* engine-gpgsm.c (gpgsm_new): Likewise.
  (gpgsm_new): Use ttyname_r.
* w32-io.c (_gpgme_io_spawn): Disable debugging for now.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in: Use $libdir, not @libdir@, for the echo command.
* gpgme-config.in: Rewritten.
* gpgme.m4: Rewritten.

2003-08-19 Marcus Brinkmann <marcus@g10code.de>

The ath files (ath.h, ath.c, ath-pth.c, ath-pthread.c,
ath-compat.c, ath-pth-compat.c and ath-pthread-compat.c) have been
updated to have better thread support, and the Makefile.am was
changed to reflect that.

* util.h [!HAVE_FOPENCOOKIE]: Remove fopencookie declaration.
* engine-gpgsm.c (gpgsm_assuan_simple_command): Set ERR to return value of status_fnc.
* rungpg.c (start): Return SAVED_ERRNO, not errno.

2003-08-18 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (start): Use saved_errno instead errno.

2003-08-18 Marcus Brinkmann <marcus@g10code.de>

* funopen.c, putc_unlocked.c, isascii.c, memrchr.c: New files.
* fopencookie.c: File removed.

2003-08-15 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in: Put gpg-error related flags after gpgme's.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct_gpgme_new_signature): Rename member CLASS to
  _OBSOLETE_CLASS, add member CLASS with type unsigned int.
* sign.c (parse_sig_created): Also set SIG->_unused_class for
  backward compatibility.

2003-08-04 Marcus Brinkmann <marcus@g10code.de>

* verify.c (parse_new_sig): Fix status parsing case.
2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_subkey): Add flag CAN_AUTHENTICATE.
  Lower UNUSED to 23 bits.
  (struct _gpgme_key): Likewise.
* keylist.c (set_mainkey_capability): Support 'a' and 'A'.
  (set_subkey_capability): Support 'a'.

* keylist.c (gpgme_get_key): Check if there is more than one key
  listed, and return GPG_ERR_AMBIGUOUS_NAME in that case.

* util.h (_gpgme_decode_c_string): Change type of LEN argument to
  size_t.
  (_gpgme_decode_percent_string): Likewise.
* conversion.c (_gpgme_decode_c_string): Likewise.
  (_gpgme_decode_percent_string): Likewise.
  (_gpgme_map_gnupg_error): Change type of I to unsigned int.
* signers.c (gpgme_signers_clear): Likewise.
  (gpgme_signers_enum): New unsigned variable SEQNO, set to SEQ.
  Use SEQNO instead SEQ.
* wait.c (fd_table_put): Change type of I and J to unsigned int.
* wait-global.c (_gpgme_wait_global_event_cb): Change type of IDX
to unsigned int.
  (gpgme_wait): Change type of I and IDX to unsigned int.
* wait-private.c (_gpgme_wait_on_condition): Change type of IDX
  and I to unsigned int.
* posix-io.c (_gpgme_io_close): Cast return value of macro DIM to
  int to suppress gcc warning.
  (_gpgme_io_set_close_notify): Likewise.
  (_gpgme_io_select): Change type of I to unsigned int.
* engine.c (gpgme_get_engine_info): Change type of PROTO to
  unsigned int.
* wait-user.c (_gpgme_user_io_cb_handler): Change type of IDX and
  I to unsigned int.

2003-07-29 Marcus Brinkmann <marcus@g10code.de>

* decrypt-verify.c (decrypt_verify_status_handler): Expand silly
  and wrong expression.
* encrypt-sign.c (encrypt_sign_status_handler): Likewise.
* encrypt.c (encrypt_sym_status_handler): Likewise.
* sign.c (sign_status_handler): Likewise.
* verify.c (verify_status_handler): Likewise.
* decrypt.c (decrypt_status_handler): Likewise.

* engine.c (gpgme_get_engine_info): Initialize NULL.

2003-07-23 Marcus Brinkmann <marcus@g10code.de>
* gpgme-config.in (gpg_error_libs): Quote GPG_ERROR_CFLAGS and
  GPG_ERROR_LIBS when setting the corresponding variables.
  Reported by Stephane Corthesy.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (set_recipients): Move declaration of NEWLEN to
  the beginning of the block.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* data-mem.c (mem_write): Copy original buffer content.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_user_ids_release, gpgme_user_ids_append): Remove
  prototypes.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (AM_CPPFLAGS): Add @GPG_ERROR_CFLAGS@.
  * gpgme-config.in (gpg_error_libs, gpg_error_cflags): New variables.
    Print them.

* op-support.c (_gpgme_parse_inv_userid): Rename to
  _gpgme_parse_inv_recp and change to new datatype.
* ops.h (_gpgme_parse_inv_key): Fix prototype.
* gpgme.h (struct _gpgme_invalid_user_id): Rename to
  __gpgme_invalid_key. Rename field ID to KEY.
  (gpgme_invalid_user_id_t): Rename to gpgme_invalid_key_t.
  (struct _gpgme_op_encrypt_result): Here, too.
  (struct _gpgme_op_sign_result): Likewise.
* encrypt.c (struct op_data): Likewise.
  (release_op_data): Likewise.
* sign.c (struct op_data): Likewise.
  (release_op_data): Likewise.

* posix-io.c (_gpgme_io_read): Save errno across debug calls.
  (_gpgme_io_write): Likewise.
  (_gpgme_io_pipe): Likewise.
  (_gpgme_io_select): Likewise.

* rungpg.c (struct engine_gpg): Remove arg_error.
  (add_arg): Don't set arg_error.
  (add_data): Likewise.
  (start): Don't check arg_error.
  (gpg_new): Check return value of add_arg.
* verify.c (parse_notation): Free allocated memory at error.

2003-06-05 Marcus Brinkmann <marcus@g10code.de>

Everywhere: Use libgpg-error error codes.

* Makefile.am (EXTRA_DIST): Remove mkerrors.
  (BUILT_SOURCES): Remove errors.c.
  (MOSTLYCLEANFILES): Likewise.
  (libgpgme_la_SOURCES): Likewise. Add error.c.
  (errors.c): Remove target.
* mkerrors: File removed.
* error.c: New file.

* gpgme.h (gpgme_error_t): Change to type gpg_error_t.
  (gpgme_err_code_t, gpgme_err_source_t): New types.
  (gpgme_err_code, gpgme_err_source, gpgme_error, gpgme_err_make):
    New static inline functions.
  (gpgme_strsource, gpgme_err_code_from_errno,
   gpgme_err_code_to_errno, gpgme_err_make_from_errno,
   gpgme_error_from_errno): New prototypes.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_op_export_start): Change second arg to const char *.
  (gpgme_op_export): Likewise.
  (gpgme_op_export_ext_start): New prototype.
  (gpgme_op_export_ext): Likewise.
* engine.h: Likewise for _gpgme_engine_op_export and
  _gpgme_engine_op_export_ext.
* engine-backend.h (struct engine_ops): Change second argument of
  prototype of export to const char *, and add reserved int as
  third argument. Add prototype for export_ext.
* engine.c (_gpgme_engine_op_export_ext): New function.
  (_gpgme_engine_op_export): Change second argument of prototype of
  export to const char *, and add reserved int as third argument.
* rungpg.c (gpg_export): Change second argument of prototype of
  export to const char *, and add reserved int as third argument.
  (gpg_export_ext): New function.
  (gpg_keylist_ext): Break loop at error.
  (_gpgme_engine_ops_gpg): Add gpg_export_ext.
* engine-gpgsm.c (gpgsm_export): Change second argument of
  prototype of export to const char *, and add reserved int as
  third argument.
  (gpgsm_export_ext): New function.
  (_gpgme_engine_ops_gpgsm): Add gpgsm_export_ext.
* export.c (export_start): Change second argument of prototype of
  export to const char *, and add reserved int as third argument.
Like wise.
Likewise.
Likewise.
Likewise.
Likewise.

* gpgme.h (gpgme_keylist_mode_t): New type for anonymous enum.
* gpgme_sigsun_t): New type for anonymous enum.

* encrypt-sign.c (encrypt_sign_start): Check for errors earlier, and return an error if RECP is not set.

* Makefile.am (libgpgme_la_SOURCES): Remove user-id.c.
* user-id.c: Remove file.
* ops.h: Remove prototype for _gpgme_user_ids_all_valid.

* gpgme.h (gpgme_encrypt_flags_t): New type.
(gpgme_op_encrypt_start): Change second parameter to type gpgme_key_t[], and add third parameter.
(gpgme_op_encrypt): Likewise.
(gpgme_op_encrypt_sign_start): Likewise.
(gpgme_op_encrypt_sign): Likewise.

* encrypt.c (encrypt_start): Likewise.
(gpgme_op_encrypt_start): Likewise.
(gpgme_op_encrypt): Likewise. Pass flags to engine.
* encrypt-sign.c (encrypt_sign_start): Likewise.
(gpgme_op_encrypt_sign_start): Likewise.
(gpgme_op_encrypt_sign): Likewise.

* engine-backend.h (struct engine_ops): Likewise for prototypes of encrypt and encrypt_sign.
* engine.h: Likewise for prototypes of _gpgme_engine_op_encrypt and _gpgme_engine_op_encrypt_sign.
* engine.c (_gpgme_engine_op_encrypt): Likewise.
(_gpgme_engine_op_encrypt_sign): Likewise.

* rungpg.c (gpg_encrypt): Likewise.
(gpg_encrypt_sign): Likewise.

* rungpg.c (gpg_encrypt): Check flags for always trust option.
* engine-gpgsm.c (gpgsm_encrypt): Likewise.
(set_recipients): Rewritten to use keys instead user IDs.
* rungpg.c (append_args_from_recipients): Rewritten to use keys instead user IDs.

* encrypt.c (_gpgme_encrypt_status_handler): Change errors returned to GPGME_Invalid_Key and GPGME_General_Error.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Rename GpgsmObject to engine_gpgsm_t.
(struct gpgsm_object_s): Rename to struct engine_gpgsm.
* rungpg.c: Rename GpgObject to engine_gpg_t.
(struct gpg_object_s): Rename to struct engine_gpg.
* context.h (struct gpgme_context): Change EngineObject to engine_object_t.
  (enum ctx_op_data_type): Rename to ctx_op_data_id_t.
  (ctx_op_data_t): New type.
  (struct gpgme_context): Use it.
* ops.h (_gpgme_op_data_lookup): Use new type name.
* op-support.c (_gpgme_op_data_lookup): Likewise.
* engine.c: Rename EngineObject to engine_t in the file. Also
  EngineStatusHandler to engine_status_handler_t,
  EngineCommandHandler to engine_command_handler_t and
  EngineColonLineHandler to engine_colon_line_handler.
* rungpg.c (start): Likewise.
* engine-gpgsm.c: Likewise.
* engine-backend.h (struct engine_ops): Likewise
* engine.h (struct engine_object_s): Rename to struct engine.
  (EngineObject): Rename to engine_t. Also everywhere else in the
  file.
  (EngineStatusHandler): Rename to engine_status_handler_t.
  (EngineColonLineHandler): Rename to engine_colon_line_handler_t.
  (EngineCommandHandler): Rename to engine_command_handler_t.

* engine-gpgsm.c (gpgsm_export): Fix bug in last change.

* Makefile.am (libgpgme_la_SOURCES): Remove recipient.c, add
  user-id.c.
* gpgme.h (gpgme_recipients_t): Removed.
  (gpgme_recipients_new, gpgme_recipients_release,
  gpgme_recipients_add_name,
  gpgme_recipients_add_name_with_validity, gpgme_recipients_count,
  gpgme_recipients_enum_open, gpgme_recipients_enum_read,
  gpgme_recipients_enum_close): Removed.
  (gpgme_op_encrypt, gpgme_op_encrypt_start, gpgme_op_encrypt_sign,
  gpgme_op_encrypt_sign_start, gpgme_op_export_start,
  gpgme_op_export): Change second argument to gpgme_user_id_t.
  (gpgme_user_ids_release): New prototype.
  (gpgme_user_ids_append): Likewise.
* ops.h (_gpgme_recipients_all_valid): Remove.
  (_gpgme_user_ids_all_valid): Add.
* context.h (struct gpgme_recipients): Removed.
* user-id.c: New file.
* recipient.c: Removed file.
* rungpg.c (append_args_from_recipients): Change last arg to
  gpgme_user_id_t. Reimplement.
  (gpg_encrypt): Change second arg to gpgme_user_id_t.
  (gpg_encrypt_sign): Likewise.
  (gpg_export): Likewise. Rewrite user ID list code.
* engine.c (_gpgme_engine_op_encrypt): Change second arg to
gpgme_user_id_t.
(_gpgme_engine_op_encrypt_sign): Likewise.
(_gpgme_engine_op_encrypt): Likewise.
* engine.h (_gpgme_engine_op_encrypt, _gpgme_engine_op_encrypt_sign,
  _gpgme_engine_op_export): Likewise.
* engine-gpgsm.c (set_recipients): Likewise. Rewrite loop code.
(gpgsm_encrypt): Likewise.
(gpgsm_export): Likewise.
* engine-backend.h (struct engine_ops): Likewise for members
  ENCRYPT, ENCRYPT_SIGN and EXPORT.
* export.c (export_start, gpgme_op_export_start, gpgme_op_export):
  Likewise.
* encrypt.c (encrypt_start): Likewise. Don't check for count of
  recipients.
(gpgme_op_encrypt_start): Likewise.
(gpgme_op_encrypt): Likewise.
* encrypt-sign.c (encrypt_sign_start): Likewise.
(gpgme_op_encrypt_sign): Likewise.
(gpgme_op_encrypt_sign_start): Likewise.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_op_import_result): Add skipped_new_keys.
* import.c (parse_import_res): Add skipped_new_keys parser.

* op-support.c (_gpgme_parse_inv_userid): Add missing break
  statements.
* encrypt.c (gpgme_op_encrypt): Use gpgme_error_t instead of int.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* encrypt.c (gpgme_op_encrypt_result): Use intermediate variable
  HOOK to avoid compiler warning. Don't ask, you don't want to know.
(_gpgme_encrypt_status_handler): Likewise.
(_gpgme_op_encrypt_init_result): Likewise.
* decrypt.c (gpgme_op_decrypt_result): Likewise.
(_gpgme_decrypt_status_handler): Likewise.
(_gpgme_op_decrypt_init_result): Likewise.
* verify.c (gpgme_op_verify_result): Likewise.
(_gpgme_verify_status_handler): Likewise.
(_gpgme_op_verify_init_result): Likewise.
* edit.c (edit_status_handler): Likewise.
(command_handler): Likewise.
(edit_start): Likewise.
* genkey.c (gpgme_op_genkey_result): Likewise.
(genkey_status_handler): Likewise.
(genkey_start): Likewise.
* import.c (gpgme_op_import_result): Likewise.
(import_status_handler): Likewise.
(_gpgme_op_import_start): Likewise.
* trustlist.c (gpgme_op_trustlist_next): Likewise.
(_gpgme_op_trustlist_event_cb): Likewise.
(gpgme_op_trustlist_start): Likewise.
* keylist.c (gpgme_op_keylist_result): Likewise.
(keylist_colon_handler): Likewise.
(keylist_status_handler): Likewise.
(_gpgme_op_keylist_event_cb): Likewise.
(gpgme_op_keylist_start): Likewise.
(gpgme_op_keylist_ext_start): Likewise.
(gpgme_op_keylist_next): Likewise.
* passphrase.c (_gpgme_passphrase_status_handler): Likewise.
(_gpgme_passphrase_command_handler_internal): Likewise.
* sign.c (gpgme_op_sign_result): Likewise.
(_gpgme_sign_status_handler): Likewise.
(_gpgme_op_sign_init_result): Likewise.

* passphrase.c (_gpgme_passphrase_command_handler_internal): Fix access to pointer type.

2003-05-26 Marcus Brinkmann <marcus@g10code.de>

* engine.h (EngineCommandHandler): Change last argument to int fd.
* gpgme.h (gpgme_passphrase_cb_t): Rewritten to take parts of the description and fd.
(gpgme_edit_cb_t): Change last argument to int fd.
* ops.h (_gpgme_passphrase_command_handler_internal): New prototype.
* passphrase.c: Include <assert.h>.
(op_data_t): Rename userid_hint to uid_hint, remove last_w_handle.
(release_op_data): Check values before calling free.
(_gpgme_passphrase_status_handler): Likewise.
(_gpgme_passphrase_command_handler_internal): New function.
(_gpgme_passphrase_command_handler): Rewritten.
* edit.c (edit_status_handler): Pass -1 as fd argument.
(command_handler): Update prototype. New variable processed. Use it to store return value of
_gpgme_passphrase_command_handler_internal which is now used instead _gpgme_passphrase_command_handler. Use it also to check if we should call the user's edit function. Pass fd to user's edit function.
* rungpg.c (struct gpg_object_s): Change type of cmd.cb_data to void *.
(gpg_release): Check value before calling free. Do not release cmd.cb_data.
(command_cb): Function removed.
(command_handler): New function. Thus we don't use a data object for command handler stuff anymore, but handle it directly. This
allows proper error reporting (cancel of passphrase requests, for example). Also all callbacks work via direct writes to the file descriptor (so that passphrases are not kept in insecure memory).

(gpg_set_command_handler): Rewritten to use even more ugly hacks. (read_status): Check cmd.keyword before calling free. Install command_handler as the I/O callback handler with GPG as private data.

* rungpg.c (gpg_new): Add --enable-progress-filter to gpg invocation.
* decrypt-verify.c (_gpgme_op_decrypt_verify_start): Rename to decrypt_verify_start.
  (gpgme_op_decrypt_verify_start): Call decrypt_verify_start.
  (gpgme_op_decrypt_verify): Likewise.
* verify.c (verify_status_handler): New function that also calls progress status handler.
  (_gpgme_op_verify_start): Set status handler to verify_status_handler.
  Rename to (verify_start).
  (gpgme_op_verify_start): Call verify_start.
  (gpgme_op_verify): Likewise.
* encrypt.c (encrypt_status_handler): New function.
  (_gpgme_encrypt_sym_status_handler): Call progress status handler.
  Make static. Rename to encrypt_sym_status_handler.
  (encrypt_start): Set status handler to encrypt_sym_status_handler or encrypt_status_handler.
* sign.c (sign_status_handler): New function.
  (sign_start): Set status handler to sign_status_handler.
* decrypt.c (decrypt_status_handler): New function that also calls progress status handler.
  (decrypt_start): Set status handler to decrypt_status_handler.
* encrypt-sign.c (encrypt_sign_status_handler): Likewise.
* decrypt-verify.c (decrypt_verify_status_handler): Call _gpgme_progress_status_handler.

* conversion.c (_gpgme_decode_c_string): Add missing break statement.

* recipient.c (gpgme_recipients_add_name_with_validity): Add one to buffer to allocate.

2003-05-19 Marcus Brinkmann <marcus@g10code.de>

* verify.c (parse_new_sig): Fix ERRSIG case.
Submitted by Benjamin Lee <benjaminlee@users.sf.net>.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: The following types are renamed. The old name is kept
as a deprecated typedef.

(GpgmeCtx): Rename to gpgme_ctx_t.
(GpgmeData): Rename to gpgme_data_t.
(GpgmeRecipients): Rename to gpgme_recipients_t.
(GpgmeError): Rename to gpgme_error_t.
(GpgmeDataEncoding): Rename to gpgme_data_encoding_t.
(GpgmePubKeyAlgo): Rename to gpgme_pubkey_algo_t.
(GpgmeHashAlgo): Rename to gpgme_hash_algo_t.
(GpgmeSigStat): Rename to gpgme_sig_stat_t.
(GpgmeSigMode): Rename to gpgme_sig_mode_t.
(GpgmeAttr): Rename to gpgme_attr_t.
(GpgmeValidity): Rename to gpgme_validity_t.
(GpgmeProtocol): Rename to gpgme_protocol_t.
(GpgmeStatusCode): Rename to gpgme_status_code_t.
(GpgmeEngineInfo): Rename to gpgme_engine_info_t.
(GpgmeSubkey): Rename to gpgme_subkey_t.
(GpgmeKeySig): Rename to gpgme_keysig_t.
(GpgmeUserID): Rename to gpgme_user_id_t.
(GpgmePassphraseCb): Rename to gpgme_passphrase_cb_t.
(GpgmeProgressCb): Rename to gpgme_progress_cb_t.
(GpgmeEditCb): Rename to gpgme_edit_cb_t.
(GpgmeIOCb): Rename to gpgme_io_cb_t.
(GpgmeRegisterIOCb): Rename to gpgme_register_io_cb_t.
(GpgmeRemoveIOCb): Rename to gpgme_remove_io_cb_t.
(GpgmeEventIO): Rename to gpgme_event_io_t.
(GpgmeEventIOCb): Rename to gpgme_event_io_cb_t.
(GpgmeIOCs): Rename to gpgme_io_cbs.
(gpgme_io_cbs_t): New type.
(GpgmeDataReadCb): Rename to gpgme_data_read_cb_t.
(GpgmeDataWriteCb): Rename to gpgme_data_write_cb_t.
(GpgmeDataSeekCb): Rename to gpgme_data_seek_cb_t.
(GpgmeDataReleaseCb): Rename to gpgme_data_release_cb_t.
(GpgmeDataCbs): Rename to gpgme_data_cbs.
(gpgme_data_cbs_t): New type.
(GpgmeInvalidUserID): Rename to gpgme_invalid_user_id_t.
(GpgmeEncryptResult): Rename to gpgme_encrypt_result_t.
(GpgmeDecryptResult): Rename to gpgme_decrypt_result_t.
(GpgmeNewSignature): Rename to gpgme_new_signature_t.
(GpgmeSignResult): Rename to gpgme_sign_result_t.
(GpgmeSigNotation): Rename to gpgme_sig_notation_t.
(GpgmeSignature): Rename to gpgme_signature_t.
(GpgmeVerifyResult): Rename to gpgme_verify_result_t.
(GpgmeImportStatus): Rename to gpgme_import_status_t.
(GpgmeImportResult): Rename to gpgme_import_result_t.
(GpgmeGenKeyResult): Rename to gpgme_genkey_result_t.
(GpgmeKeyListResult): Rename to gpgme_keylist_result_t.
(GpgmeTrustItem): Rename to gpgme_trust_item_t.
* gpgme.h (gpgme_deprecated_error_t): New type, swallowing macros
GPGME_No_Recipients, GPGME_Invalid_Recipient and GPGME_No_Passphrase.
* data.h (struct gpgme_data_s): Rename to struct gpgme_data.
* context.h (struct gpgme_context_s): Rename to struct gpgme_context.
(struct gpgme_recipients_s): Rename to gpgme_recipients.

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* keylist.c (finish_key): Clear OPD->tmp_uid.

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* verify.c (_gpgme_verify_status_handler): Return GPGME_No_Data for NODATA status without signatures.

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* key.c (_gpgme_key_append_name): Use decoded string to parse user id.
(_gpgme_key_add_sig): Likewise.

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* context.h (struct gpgme_context_s): Remove member op_info.

* key.c (_gpgme_key_addsig): Initialize SIG->uid.

* gpgme.h (GpgmeError): Add deprecated values for GPGME_Invalid_Type and GPGME_Invalid_Mode.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_get_op_info): Remove prototype.
* ops.h (_gpgme_set_op_info,
_gpgme_data_release_and_return_string, _gpgme_data_get_as_string,
_gpgme_data_append, _gpgme_data_append_string,
_gpgme_data_append_string_for_xml, _gpgme_data_append_for_xml,
_gpgme_data_append_percentstring_for_xml): Likewise.
(_gpgme_progress_status_handler): Change first arg to void *.
* progress.c (_gpgme_progress_status_handler): Likewise.
* conversion.c: Do not include <string.h>, <errno.h>, <ctype.h>,
and <sys/types.h>, but <string.h>.
(_gpgme_data_append): Remove function.
(_gpgme_data_append_string): Likewise.
(_gpgme_data_append_for_xml): Likewise.
(_gpgme_data_append_string_for_xml): Likewise.
(_gpgme_data_append_percentstring_for_xml): Likewise.
* data-mem.c (_gpgme_data_get_as_string): Likewise.
 (_gpgme_data_release_and_return_string): Likewise.
* gpgme.c (gpgme_get_op_info): Likewise.
 (_gpgme_set_op_info): Likewise.

* gpgme.h (struct _gpgme_key): New structure.
(GpgmeKey): Define using _gpgme_key.
(struct _gpgme_subkey): New structure.
(GpgmeSubKey): New type.
(struct _gpgme_key_sig): New structure.
(GpgmeKeySig): New type.
(struct _gpgme_user_id): New structure.
(GpgmeUserID): New type.
(struct _gpgme_op_keylist_result): New structure.
(GpgmeKeyListResult): New type.
(gpgme_op_keylist_result): New function.
(gpgme_key_get_as_xml): Remove prototype.
* context.h (struct gpgme_context_s): Remove members tmp_key,
tmp_uid, key_cond and key_queue.
(struct key_queue_item_s): Remove structure.
(struct user_id_s): Remove structure.
(struct gpgme_recipients_s): Replace with simple
GpgmeUserID list.
* gpgme.c (gpgme_release): Do not release CTX->tmp_key.
* ops.h (_gpgme_key_add_subkey, _gpgme_key_append_name,
_gpgme_key_add_sig, _gpgme_trust_item_new): New prototypes.
* rungpg.c (command_cb): Return GpgmeError instead int.
New variable ERR. Use it to hold return value of cmd handler.
(gpg_delete): Access fingerprint of key directly.
(append_args_from_signers): Likewise.
(gpg_edit): Likewise.
(append_args_from_recipients): Use GpgmeUserID for recipient list.
* engine-gpgsm.c: Do not include "key.h".
(gpgsm_delete): Access fingerprint of key directly.
(gpgsm_sign): Likewise.
(set_recipients): Use GpgmeUserID for recipients. Invert invalid
user ID flag.
* key.h: File removed.
* key.c: Completely reworked to use exposed GpgmeKey data types.
* keylist.c: Likewise.
* recipient.c: Completely reworked to use GpgmeUserID.

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* gpgme.h (gpgme_get_key): Remove force_update argument.
* key-cache.c: File removed.
* Makefile.am (libgpgme_la_SOURCES): Remove key-cache.c.
* ops.h (_gpgme_key_cache_add, _gpgme_key_cache_get): Remove
prototypes.
* keylist.c (_gpgme_op_keylist_event_cb): Don't call _gpgme_key_cache_add.
  (gpgme_get_key): New function.
* verify.c (gpgme_get_sig_key): Remove last argument to gpgme_get_key invocation.

* gpgme.h (struct _gpgme_trust_item): New structure.
  (GpgmeTrustItem): New type.
  (gpgme_trust_item_ref, gpgme_trust_item_unref): New prototypes.
* context.h (struct trust_queue_item_s): Remove structure.
  (struct gpgme_context_s): Remove trust_queue member.
* Makefile.am (libgpgme_la_SOURCES): Add trust-item.c.
* trust-item.c: New file.
* trustlist.c: Do not include <stdio.h> or <time.h>, but "gpgme.h".
  (struct trust_queue_item_s): Change to new type op_data_t.
  (trust_status_handler): Change first argument to void *.
  (trust_colon_handler): Likewise.
  (_gpgme_op_trustlist_event_cb): Use op_data_t type.
  (gpgme_op_trustlist_start): Use op_data_t and rework error handling.
  (gpgme_op_trustlist_next): Use op_data_t.
  (gpgme_trust_item_release): Remove function.
  (gpgme_trust_item_get_string_attr): Likewise.
  (gpgme_trust_item_get_int_attr): Likewise.

* verify.c (calc_sig_summary): Do not set GPGME_SIGSUM_SYS_ERROR for bad signatures.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

* context.h: Remove OPDATA_VERIFY_COLLECTING.
  (struct gpgme_context_s): Remove member notation.
* gpgme.h: Make enum for GPGME_KEYLIST_MODE_...* values.

* gpgme.h (struct _gpgme_sig_notation): New structure.
  (GpgmeSigNotation): New type.
  (struct _gpgme_signature): New structure.
  (GpgmeSignature): New type.
  (struct _gpgme_op_verify_result): New structure.
  (GpgmeVerifyResult): New type.
  (gpgme_op_verify_result): New prototype.
  (gpgme_get_notation): Remove prototype.
* ops.h (_gpgme_op_verify_init_result): New prototype.
  (_gpgme_verify_status_handler): Change first argument to void *.
* util.h (_gpgme_decode_percent_string, _gpgme_map_gnupg_error):
  New prototypes.
* conversion.c (_gpgme_decode_percent_string): New function.
(gnupg_errors): New static global.
(_gpgme_map_gnupg_error): New function.
* gpgme.c (gpgme_release): Don't release CTX->notation.
(gpgme_get_notation): Remove function.
* decrypt-verify.c (_gpgme_op_decrypt_verify_start): Call
  _gpgme_op_verify_init_result.
* verify.c: Do not include <stdio.h>, <assert.h> and "key.h", but
do include "gpgme.h".
(struct verify_result): Replace with ...
(op_data_t): ... this type.
(release_verify_result): Remove function.
(release_op_data): New function.
(is_token): Remove function.
(skip_token): Remove function.
(copy_token): Remove function.
(gpgme_op_verify_result): New function.
(calc_sig_summary): Rewritten.
(finish_sig): Remove function.
(parse_new_sig): New function.
(parse_valid_sig): New function.
(parse_notation): New function.
(parse_trust): New function.
(parse_error): New function.
(_gpgme_verify_status_handler): Rewritten. Change first argument
to void *.
(_gpgme_op_verify_start): Rework error handling. Call
  _gpgme_op_verify_init_result.
(gpgme_op_verify): Do not release or clear CTX->notation.
(gpgme_get_sig_status): Rewritten.
(gpgme_get_sig_string_attr): Likewise.
(gpgme_get_sig_ulong_attr): Likewise.
(gpgme_get_sig_key): Likewise.

* gpgme.h (struct _gpgme_op_decrypt_result): New structure.
(GpgmeDecryptResult): New type.
(gpgme_op_decrypt_result): New prototype.
* ops.h (_gpgme_op_decrypt_init_result): New prototype.
(_gpgme_decrypt_status_handler): Fix prototype.
(_gpgme_decrypt_start): Remove prototype.
* decrypt-verify.c: Do not include <stdio.h>, <stdlib.h>,
  <string.h> and <assert.h>, "util.h" and "context.h", but
  "gpgme.h".
(decrypt_verify_status_handler): Change first argument to void *,
  and rework error handling.
(_gpgme_op_decrypt_verify_start): New function.
(gpgme_op_decrypt_verify_start): Rewrite using
  _gpgme_op_decrypt_verify_start.
(gpgme_op_decrypt_verify): Likewise.
* decrypt.c: Include <string.h>, "gpgme.h" and "util.h".
(struct decrypt_result): Change to typedef op_data_t, rewritten.
(is_token): Remove function.
(release_op_data): New function.
(skip_token): Remove function.
(gpgme_op_decrypt_result): New function.
(_gpgme_decrypt_status_handler): Change first argument to void *.
Rework error handling.
(_gpgme_decrypt_start): Rename to ...
(decrypt_start): ... this. Call _gpgme_op_decrypt_init_result.
(_gpgme_op_decrypt_init_result): New function.
(gpgme_op_decrypt_start): Use decrypt_start.
(gpgme_op_decrypt): Likewise.

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* encrypt-sign.c: Do not include <stddef.h>, <stdio.h>,
<stdlib.h>, <string.h>, <assert.h> and "util.h", but "gpgme.h".
(_gpgme_op_encrypt_sign_start): Rename to ...
(encrypt_sign_start): ... this.
(gpgme_op_encrypt_sign_start): Use encrypt_sign_start, not
_gpgme_op_encrypt_sign_start.
(gpgme_op_encrypt_sign): Likewise.

* gpgme.h (GpgmeEncryptResult): New data type.
(gpgme_op_encrypt_result): New prototype.
* ops.h (_gpgme_op_encrypt_init_result): New prototype.
(_gpgme_op_encrypt_status_handler): Fix prototype.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Call
_gpgme_op_encrypt_init_result.
* encrypt.c: Do not include <stdio.h>, <assert.h>, "util.h" and
"wait.h". Include <errno.h> and "gpgme.h".
(SKIP_TOKEN_OR_RETURN): Remove macro.
(struct encrypt_result): Rename to ...
(op_data_t): ... new data type. Rewrite for user result data.
(append_xml_encinfo): Remove function.
(release_op_data): New function.
(gpgme_op_encrypt_result): New function.
(_gpgme_op_encrypt_status_handler): Change first argument to void *.
Rewrite result parsing.
(_gpgme_op_encrypt_sym_status_handler): Change first argument to void *.
(_gpgme_op_encrypt_init_result): New function.
(_gpgme_op_encrypt_start): Rename to ...
(encrypt_start): ... this.
(gpgme_op_encrypt_start): Use encrypt_start, not
 gpgme_op_encrypt_start.
(gpgme_op_encrypt): Likewise.
* gpgme.h (GpgmePubKeyAlgo, GpgmeHashAlgo, GpgmeInvalidUserID,
GpgmeNewSignature, GpgmeSignResult): New data types.
(gpgme_op_sign_result, gpgme_pubkey_algo_name,
gpgme_hash_algo_name): New prototypes.
* gpgme.c (gpgme_pubkey_algo_name): New function.
(gpgme_hash_algo_name): Likewise.
* ops.h (_gpgme_parse_inv_userid, _gpgme_op_sign_init_result): New
prototype.
(_gpgme_op_sign_status_handler): Fix prototype.
* op-support.c: Include <errno.h> and <string.h>.
(_gpgme_parse_inv_userid): New function.
* sign.c: Include <errno.h> and "gpgme.h", but not <stdio.h>,
<assert.h> and "util.h".
(SKIP_TOKEN_OR_RETURN): Remove macro.
(struct sign_result): Change to op_data_t type and rework it.
(release_sign_result): Rename to ...
(release_op_data): ... this and rewrite it.
(append_xml_info): Remove function.
(gpgme_op_sign_result): New function.
(parse_sig_created): New function.
(_gpgme_sign_status_handler): Change first argument to void *
Rewrite the function to use the new result structure and functions.
(_gpgme_op_sign_init_result): New function.
(_gpgme_op_sign_start): Rename to ...
(sign_start): ... this. Call _gpgme_op_sign_init_result.
(gpgme_op_sign_start): Use sign_start instead _gpgme_op_sign_start.
(gpgme_op_sign): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Call
_gpgme_op_sign_init_result.

* delete.c: Include <errno.h> and "gpgme.h", but not "util.h" or
"key.h".
(enum delete_problem): Move into function delete_status_handler.
(delete_status_handler): Change first argument to void *. Parse
delete problem with strtol instead atoi. Return better error
values.
(_gpgme_op_delete_start): Rename to ...
(delete_start): ... this. Rework error handling.
(gpgme_op_delete_start): Use delete_start instead
_gpgme_op_delete_start.
(gpgme_op_delete): Likewise.
* gpgme.h (GpgmeDataType): Removed.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Change GPGME_IMPORT_PRIVATE to GPGME_IMPORT_SECRET.
* import.c (parse_import_res): Parse unchanged field.
* gpgme.h: New enum for GPGME_IMPORT_NEW, GPGME_IMPORT_UID,
  GPGME_IMPORT_SIG, GPGME_IMPORT_SUBKEY, GPGME_IMPORT_PRIVATE.
  (GpgmeError): GPGME_Unknown_Reason, GPGME_Not_Found,
  GPGME_Ambiguous_Specification, GPGME_Wrong_Key_Usage,
  GPGME_Key_Revoked, GPGME_Key_Expired, GPGME_No_CRL_Known,
  GPGME_CRL_Too_Old, GPGME_Policy_Mismatch, GPGME_No_Secret_Key,
  GPGME_Key_Not_Trusted, GPGME_Issuer_Missing, GPGME_Chain_Too_Long,
  GPGME_Unsupported_Algorithm, GPGME_Sig_Expired,
  GPGME_Bad_Signature, GPGME_No_Public_Key added as new error codes.
  (struct _gpgme_import_status): New structure.
  (GpgmeImportStatus): New type.
  (struct _gpgme_op_import_result): New structure.
  (GpgmeImportResult): New type.
  (gpgme_op_import_result): New function.
* import.c: Include <errno.h> and "gpgme.h", but not "util.h".
  (struct import_result): Change to type op_data_t.
  (release_import_result): Rename to ...
  (release_op_data): ... this.
  (append_xml_impinfo): Function removed.
  (gpgme_op_import_result): New function.
  (parse_import): New function.
  (parse_import_res): Likewise.
  (import_status_handler): Change first argument to void *.
  Rewrite to use new functions.
  (_gpgme_op_import_start): Rework error handling.

* edit.c: Do not include <assert.h>, "util.h", but "gpgme.h".
  (edit_result): Change to typedef for op_data_t.
  (edit_status_handler): Change first argument to void *.
  Rework error handling.
  (command_handler): Rework error handling.
  (_gpgme_op_edit_start): Rename to ...
  (edit_start): ... this. Rework error handling.
  (gpgme_op_edit_start): Rewrite using edit_start.
  (gpgme_op_edit): Likewise.

* ops.h (_gpgme_passphrase_start): Remove prototype.
* passphrase.c: Do not include <assert.h>, "util.h" or
  "debug.h", but "gpgme.h".
  (struct passphrase_result): Change to typedef for op_data_t.
  (release_passphrase_result): Rename to release_op_data.
  (_gpgme_passphrase_status_handler): Change first argument to void *.
  Use new op_data_t type.
  (_gpgme_passphrase_command_handler): Use new op_data_t type.
  (_gpgme_passphrase_start): Remove function.
* decrypt.c (_gpgme_decrypt_start): Rewrite error handling. Do
  not call _gpgme_passphrase_start, but install command handler.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.

* context.h (struct gpgme_context_s): Remove member initialized, use_cms and help_data_1. Add member protocol. Make use_armor and use_textmode bit flags. Make keylist_mode, include_certs, signers_len and signers_size unsigned.
* gpgme.c (gpgme_new): Initialize CTX->protocol.
  (gpgme_set_protocol): Do not check CTX. Use CTX->protocol.
  (gpgme_get_protocol): Likewise.
  (gpgme_release): Do not release CTX->help_data_1.
* op-support.c (_gpgme_op_reset): Use CTX->protocol.

* wait-private.c (_gpgme_wait_private_event_cb): Remove variable CTX.

* data.c: Do not include <assert.h>, but "gpgme.h".
  (_gpgme_data_inbound_handler): Expand _gpgme_data_append, because it will go. Do not assert DH.
  (_gpgme_data_outbound_handler): Do not assert DH.

* export.c: Do not include <stdlib.h>, "debug.h" and "util.h", but "gpgme.h".
  (export_status_handler): Change type of first argument to void *.
  (_gpgme_op_export_start): Rename to ...
  (export_start): ... this. Rework error handling.
  (gpgme_op_export_start): Rewritten to use export_start instead _gpgme_op_export_start.
  (gpgme_op_export): Likewise.

* gpgme.h (GpgmeError): Add GPGME_Busy, GPGME_No_Request.
  (GPGME_No_Recipients, GPGME_Invalid_Recipient, GPGME_No_Passphrase): New macros.

* key.c (gpgme_key_get_string_attr): Fix validity attribute.

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* gpgme.h (struct _gpgme_op_genkey_result): New structure.
  (GpgmeGenKeyResult): New type.
  (gpgme_op_genkey): Drop last argument.
  (gpgme_op_genkey_result): New function.
* genkey.c: Do not include "util.h", but "gpgme.h".
  (struct genkey_result): Replace with ...
  (op_data_t): ... this new type.
  (release_genkey_result): Replace with ...
  (release_op_data): ... this new function.
  (gpgme_op_genkey_result): New function.
(genkey_status_handler): Rewritten using new op_data_t type.
(get_key_parameter): New function.
(_gpgme_op_genkey_start): Renamed to
genkey_start: ... this and rewritten.
(gpgme_op_genkey_start): Use genkey_start instead
  _gpgme_op_genkey_start.
(gpgme_op_genkey): Rewritten. Remove FPR argument.

* context.h (struct gpgme_context_s): Remove member verbosity.
* gpgme.c (gpgme_new): Do not set member verbosity.
* engine.h (_gpgme_engine_set_verbosity): Remove prototype.
* engine.c (_gpgmeEngine_set_verbosity): Remove function.
* engine-backend.h (struct engine_ops): Remove set_verbosity.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm): Remove set_verbosity member.
* rungpg.c (_gpgme_engine_ops_gpg): Likewise.
(gpg_set_verbosity): Remove function.
* decrypt.c (_gpgme_decrypt_start): Don't call
  _gpgme_engine_set_verbosity.
* delete.c (_gpgme_op_delete_start): Likewise.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* keylist.c (gpgme_op_keylist_start): Likewise.
  (gpgme_op_keylist_ext_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.

* Makefile.am (libgpgme_la_SOURCES): Add key-cache.c.
* key.c (key_cache_initialized, key_cache_size,
  key_cache_max_chain_length, ): Removed.
(struct key_cache_item_s, key_cache_lock, key_cache,
  key_cache_unused_items, hash_key, _gpgme_key_cache_add,
  _gpgme_key_cache_get, gpgme_get_key): Moved to ...
* key-cache.c: ... here. New file.
* key.h (_gpgme_key_cache_init): Remove prototypes.
  (_gpgme_key_cache_add, _gpgme_key_cache_get): Move to ...
* ops.h: ... here.
* version.c: Do not include "key.h".
  (do_subsystem_inits): Do not call _gpgme_key_cache_init.

* mkstatus: Strip trailing comma.
* gpgme.h (GpgmeStatus): Pretty print.

* gpgme.h (GpgmeError): Rename GPGME_No_Passphrase to
  GPGME_Bad_Passphrase.
* passphrase.c (_gpgme_passphrase_status_handler): Use GPGME_Bad_Passphrase instead GPGME_No_Passphrase.

* gpgme.h (GpgmeError): Rename GPGME_No_Recipients to GPGME_No_UserID and GPGME_Invalid_Recipient to GPGME_Invalid_UserID.
* encrypt.c (_gpgme_encrypt_status_handler): Use GPGME_No_UserID instead GPGME_No_Recipients and GPGME_Invalid_Recipient instead GPGME_Invalid_UserID.
(_gpgme_op_encrypt_start): Likewise.

* gpgme.h (GpgmeError): Remove GPGME_Busy and GPGME_No_Request.
* wait-user.c (_gpgme_wait_user_event_cb): Don't clear CTX->pending.
* wait-private.c (_gpgme_wait_private_event_cb): Likewise.
* wait-global.c (gpgme_wait): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.
(gpgme_get_sig_status): Don't check pending flag.
(gpgme_get_sig_string_attr): Likewise.
(gpgme_get_sig_ulong_attr): Likewise.
(gpgme_get_sig_key): Likewise.
* op-support.c (_gpgme_op_reset): Likewise.
* trustlist.c (gpgme_op_trustlist_start): Don't clear pending flag.
(gpgme_op_trustlist_next): Don't check or clear pending flag.
(gpgme_op_trustlist_end): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* context.h (struct gpgme_context_s): Remove member PENDING.
* decrypt.c (_gpgme_decrypt_start): Likewise.
* delete.c (_gpgme_op_delete_start): Likewise.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* key.c (gpgme_get_key): Likewise.
* keylist.c (gpgme_op_keylist_start): Likewise.
(gpgme_op_keylist_ext_start): Likewise.
(gpgme_op_keylist_next): Likewise.
(gpgme_op_keylist_end): Likewise.
* data-compat.c (gpgme_error_to_errno): Don't convert EBUSY.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GpgmePassphraseCb): Change type to return GpgmeError, and add argument for returning the result string.
(gpgme_cancel): Remove prototype.
* gpgme.c (gpgme_cancel): Remove function.
* context.h (struct gpgme_context_s): Remove member cancel.
* passphrase.c (gpgme_passphrase_command_handler): Call the passphrase callback in the new way.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* edit.c (gpgme_edit_status_handler): Call the progress status handler.

2003-02-05 Marcus Brinkmann <marcus@g10code.de>

* wait-user.c (gpgme_wait_user_remove_io_cb): Move check for no I/O handlers left to ...
  (gpgme_user_io_cb_handler): ... here.

2003-02-04 Marcus Brinkmann <marcus@g10code.de>

* trustlist.c (trustlist_colon_handler): Release ITEM if name could not be allocated.
  (gpgme_trust_item_release): Only release name if it is allocated.
  Reported by Marc Mutz <Marc.Mutz@uni-bielefeld.de>.

2003-02-04 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (read_status): If he status handler returns an error, return it.
  (status_handler): If read_status fails, just return the error.

2003-02-01 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (start): Handle all errors, not only most of them.
  (xtoi_1, xtoi_2): Remove macro.
  (status_handler): Replace use of xtoi_2 with gpgme_hextobyte.

2003-02-01 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (map_assuan_error): Replace
  ASSUAN_Bad_Certificate_Path with ASSUAN_Bad_Certificate_Chain.
  (gpgsm_new): Use assuan_pipe_connect instead assuan_pipe_connect2.

* util.h (DIMof): Remove macro.

* ops.h (gpgme_op_event_cb, gpgme_op_event_cb_user,
  gpgme_data_unread): Prototypes removed.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* types.h: File removed.
* Makefile.am (libgpgme_la_SOURCES): Remove types.h.
* io.h (struct spawn_fd_item_s): Do not include "types.h".
* key.h: Likewise.
* context.h: Likewise.
* engine-gpgsm.h: Likewise.
* engine.h: Include "gpgme.h" instead "types.h". Add prototypes for EngineStatusHandler, EngineColonLineHandler and EngineCommandHandler.
  (_gpgme_engine_set_status_handler): Change parameter type from GpgmeStatusHandler to EngineStatusHandler.
  (_gpgme_engine_set_command_handler): Change parameter type from GpgmeCommandHandler to EngineCommandHandler.
  (_gpgme_engine_set_colon_line_handler): Change parameter type from GpgmeColonLineHandler to EngineColonLineHandler.
* engine-backend.h: Include "engine.h" instead "types.h".
  (struct engine_ops): Change Gpgme*Handler parameters in members set_command_handler, set_colon_line_handler and set_status_handler to Engine*Handler.
* engine.c (_gpgme_engine_set_status_handler): Change parameter type from GpgmeStatusHandler to EngineStatusHandler.
  (_gpgme_engine_set_command_handler): Change parameter type from GpgmeCommandHandler to EngineCommandHandler.
  (_gpgme_engine_set_colon_line_handler): Change parameter type from GpgmeColonLineHandler to EngineColonLineHandler.
* rungpg.c (struct gpg_object_s): Change type of member status.fn from GpgmeStatusHandler to EngineStatusHandler. Change type of member cmd fn from GpgmeColonLineHandler to EngineColonLineHandler. Change type of member cmd fn from GpgmeCommandHandler to EngineCommandHandler.
* engine-gpgsm.c (struct gpgsm_object_s): Likewise.
* rungpg.c (gpg_set_status_handler): Change parameter type from GpgmeStatusHandler to EngineStatusHandler.
* engine-gpgsm.c (gpg_set_status_handler): Likewise.
  (assuan_simple_command): Likewise.
* rungpg.c (gpg_set_colon_line_handler): Change parameter type from GpgmeColonLineHandler to EngineColonLineHandler.
* engine-gpgsm.c (gpgsm_set_colon_line_handler): Likewise.
* rungpg.c (gpg_set_command_handler): Change parameter type from GpgmeCommandHandler to EngineCommandHandler.

* engine-gpgsm.c (status_handler): Do not close status fd at end of function.

* ops.h (_gpgme_op_data_lookup): Add prototype.
* op-support.c: Include <stdlib.h>.
  (_gpgme_op_data_lookup): New function.
* decrypt.c (_gpgme_release_decrypt_result): Function removed.
  (struct decrypt_result_s): Rename to ...
(struct decrypt_result): ... this.
(DecryptResult): New type.
(_gpgme_decrypt_status_handler): Don't use
test_and_allocate_result, but use _gpgme_op_data_lookup to
retrieve result data object.
* sign.c (_gpgme_release_sign_result): Function removed.
(release_sign_result): New function.
(struct sign_result_s): Rename to ...
(struct sign_result): ... this.
(SignResult): New type.
(_gpgme_sign_status_handler): Don't use
test_and_allocate_result, but use _gpgme_op_data_lookup to
retrieve result data object.
* encrypt.c (struct encrypt_result_s): Rename to ...
(struct encrypt_result): ... this.
(_gpgme_release_encrypt_result): Function removed.
(release_encrypt_result): New function.
(_gpgme_encrypt_status_handler): Don't use
test_and_allocate_result, but use _gpgme_op_data_lookup to
retrieve result data object.
* verify.c (struct verify_result_s): Rename to ...
(struct verify_result): ... this. Remove member next.
(VerifyResult): New type.
(_gpgme_release_verify_result): Function removed.
(release_verify_result): New function.
(finish_sig): Change first argument to type VerifyResult. Diddle
the type of the op_data structure.
(add_notation): Change first argument to type VerifyResult.
(_gpgme_verify_status_handler): Don't use
test_and_allocate_result, but use _gpgme_op_data_lookup to
retrieve result data object.
* passphrase.c (struct passphrase_result_s): Rename to ...
(struct passphrase_result): ... this. Remove member next.
(PassphraseResult): New type.
(_gpgme_release_passphrase_result): Function removed.
(release_passphrase_result): New function.
(_gpgme_passphrase_status_handler): Don't use
test_and_allocate_result, but use _gpgme_op_data_lookup to
retrieve result data object.
* keylist.c (struct keylist_result_s): Rename to ...
(struct keylist_result): ... this. Remove member next.
(KeylistResult): New type.
(_gpgme_release_keylist_result): Function removed.
(release_keylist_result): New function.
(keylist_status_handler): Don't use
test_and_allocate_result, but use _gpgme_op_data_lookup to
retrieve result data object.
* edit.c (struct edit_result_s): Rename to ...
(struct edit_result): ... this. Remove member next.
(EditText): New type.
(_gpgme_release_edit_result): Function removed.
(release_edit_result): New function.
(edit_status_handler): Don't use
test_and_allocate_result, but use _gpgme_op_data_lookup to
retrieve result data object.
(command_handler): Likewise.
* types.h (DecryptResult, SignResult, EncryptResult,
PassphraseResult, ImportResult, DeleteResult, GenKeyResult,
KeylistResult, EditText): Types removed.
* ops.h: Don't include "types.h", but "gpgme.h" and "context.h".
(test_and_allocate_result): Remove macro.
(_gpgme_release_decrypt_result): Remove prototype.
(_gpgme_decrypt_result): Remove prototype.
(_gpgme_release_sign_result): Remove prototype.
(_gpgme_release_encrypt_result): Remove prototype.
(_gpgme_release_passphrase_result): Remove prototype.
(_gpgme_release_import_result): Remove prototype.
(_gpgme_release_delete_result): Remove prototype.
(_gpgme_release_genkey_result): Remove prototype.
(_gpgme_release_keylist_result): Remove prototype.
(_gpgme_release_edit_result): Remove prototype.
(_gpgme_release_verify_result): Remove prototype.
* gpgme.c (_gpgme_release_result): Rewritten.
* context.h (enum ctx_op_data_type): New enum.
(struct ctx_op_data): New structure.
(struct gpgme_context_s): Replace the member result with a member
op_data.
(fail_on_pending_request): Remove macro.
* op-support.c (_gpgme_op_reset): Expand macro
fail_on_pending_request.
* util.h: Don't include "types.h" or "debug.h", but include "gpgme.h".

2003-01-19 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_engine_ops_gpg): Remove gpg_start.
(gpg_start): Rename to ...
(start): ... this function. Change arguments to GpgObject.
(gpg_decrypt): Call start.
(gpg_edit): Likewise.
(gpg_encrypt): Likewise.
(gpg_encrypt_sign): Likewise.
(gpg_export): Likewise.
(gpg_import): Likewise.
(gpg_keylist): Likewise.
(gpg_keylist_ext): Likewise.
(gpg_trustlist): Likewise.
(gpg_verify): Likewise.

* engine-gpgsm.c (_gpgme_engine_ops_encrypt): Remove gpgsm_start.
  (gpgsm_start): Rename to ...
(struct gpgsm_object_s): Remove member command.
(gpgsm_release): Don't free command.
(start): ... this function. Change arguments to GpgsmObject and
const char *.
(gpgsm_decrypt): Call start.
(gpgsm_delete): Likewise.
(gpgsm_encrypt): Likewise.
(gpgsm_export): Likewise.
(gpgsm_genkey): Likewise.
(gpgsm_import): Likewise.
(gpgsm_keylist): Likewise.
(gpgsm_keylist_ext): Likewise.
(gpgsm_verify): Likewise.

* decrypt.c (_gpgme_decrypt_start): Don't call
  gpgme_engine_start.
* delete.c (_gpgme_op_delete_start): Likewise.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start):
* encrypt-sign.c (_gpgme_op_encrypt_sign_start):
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* keylist.c (gpgme_op_keylist_ext_start): Likewise.
  (gpgme_op_keylist_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* trustlist.c (_gpgme_op_trustlist_start): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.

* engine-backend.h (struct engine_ops): Remove member start.

* engine.h (_gpgme_engine_start): Remove prototype.
* engine.c (_gpgme_engine_start): Remove function.

2003-01-19  Miguel Coca  <mcoca@gnu.org>

* w32-io.c (_gpgme_io_select): Add missing argument in calls to
  DEBUG_BEGIN.
* w32-util.c: Include "$sema.h$".
  (find_program_in_registry): Change DEBUG1 to DEBUG2, fixes compilation
  error.

2003-01-29  Marcus Brinkmann  <marcus@g10code.de>
* types.h: Remove byte and ulong types.
* util.h (_gpgme_hextobyte): Change prototype to unsigned char instead byte.
* conversion.c (_gpgme_hextobyte): Change argument to unsigned char instead byte.
(_gpgme_decode_c_string): Likewise, and beautify. Also support a few more escaped characters. Be more strict about buffer size.
(_gpgme_data_append_percentstring_for_xml): Change type of SRC, BUF and DST to unsigned char instead byte.
* progress.c (_gpgme_progress_status_handler): Use unsigned char instead byte.
* debug.c (trim_spaces): Likewise.

* util.h (mk_error): Remove macro.
* conversion.c, data.c, data-compat.c, decrypt.c, delete.c, edit.c, encrypt.c, encrypt-sign.c, engine.c, engine-gpgsm.c, export.c, genkey.c, gpgme.c, import.c, key.c, keylist.c, passphrase.c, progress.c, recipient.c, rungpg.c, sign.c, signers.c, trustlist.c, verify.c, wait.c, wait-global.c, wait-private (literally everywhere): Expand the mk_error macro.

* context.h (wait_on_request_or_fail): Remove macro.
* context.h (gpgme_context_s): Remove member ERROR.
* types.h (GpgmeStatusHandler): Change return type to GpgmeError. (GpgmeCommandHandler): Change return type to GpgmeError and add new argument RESULT.
* gpgme.h (GpgmeIOCb): Change return type to GpgmeError.
(GpgmeEventIO): New event GPGME_EVENT_START.
(GpgmeIdleFunc): Remove type.
(gpgme_register_idle): Remove prototype.
* data.c: Include <assert.h>.
(_gpgme_data_inbound_handler): Change return type to GpgmeError. Return any error instead ignoring it, don't close file descriptor on error.
(_gpgme_data_outbound_handler): Likewise.
* decrypt.c: Do not include <stdio.h>, <string.h> and <assert.h>.
(gpgme_op_decrypt): Don't work around the old kludge anymore.
* decrypt-verify.c (decrypt_verify_status_handler): Change return type to GpgmeError. Return possible errors.
* delete.c: Do not include <stdio.h>, <string.h>, <time.h> and <assert.h>.
(delete_status_handler): Change return type to GpgmeError. Return error instead setting ctx->error. Return success at end of
function.
* edit.c: Do not include <stdio.h> and <string.h>.
(_gpgme_edit_status_handler): Change type to GpgmeError,
make static and rename to ...
(edit_status_handler): ... this. Return error directly.
(command_handler): Change return type to GpgmeError, add result
argument. Return error directly.
* encrypt.c (status_handler_finish): Remove function.
(_gpgme_encrypt_status_handler): Change return type to GpgmeError.
Return error directly.
(_gpgme_encrypt_sym_status_handler): Likewise.
* encrypt-sign.c (encrypt_sign_status_handler): Likewise.
* engine-gpgsm.c (close_notify_handler): Do not signal done event
anymore.
(status_handler): Change return type to GpgmeError. Diddle things
around a bit to return errors directly.
(start): Send start event.
* export.c: Do not include <stdio.h>, <string.h> and <assert.h>.
(export_status_handler): Change return type to GpgmeError. Don't
check ctx->error.
* genkey.c: Do not include <stdio.h> and <assert.h>.
(genkey_status_handler): Change return type to GpgmeError. Don't
check ctx->error. Return errors directly.
* gpgme.c (_gpgme_release_result): Do not initialize ctx->error.
(_gpgme_op_event_cb): Function removed.
(_gpgme_op_event_cb_user): Likewise.
* import.c: Do not include <stdio.h>, <string.h> and <assert.h>.
(import_status_handler): Change return type to GpgmeError. Don't
check ctx->error.
* keylist.c (keylist_colon_handler, keylist_status_handler, finish_key):
Change return type to GpgmeError, return error directly.
* Makefile (libgpgme_la_SOURCES): Add wait-global.c,
wait-private.c and wait-user.c
* ops.h (test_and_allocate_result): Return error instead setting
ctx->error.
(_gpgme_data_inbound_handler, _gpgme_data_outbound_handler,
_gpgme_verify_status_handler, _gpgme_decrypt_status_handler,
_gpgme_sign_status_handler, _gpgme_encrypt_status_handler,
_gpgme_passphrase_status_handler, _gpgme_progress_status_handler):
Change return type to GpgmeError.
(_gpgme_passphrase_command_handler): Change return type to
GpgmeError and add new argument RESULT.
* op-support.c: Use new callback functions, and change private
data to ctx everywhere.
* passphrase.c (_gpgme_passphrase_status_handler): Change return
type to GpgmeError, return error directly.
(_gpgme_passphrase_command_handler): Change return type to
GpgmeError, add result argument. Return results accordingly.
* progress.c (_gpgme_progress_status_handler): Change return type to GpgmeError. Return errors directly.
* rungpg.c (status_handler): Change return type to GpgmeError. Return errors directly.
  (close_notify_handler): Don't send done event.
  (colon_line_handler): Change return type to GpgmeError. Return errors directly.
* rungpg.c (start): Send start event.
* sign.c (_gpgme_sign_status_handler): Change return type to GpgmeError. Return errors directly.
* trustlist.c (trustlist_status_handler): Change return type to GpgmeError. Return 0.
  (trustlist_colon_handler): Change return type GpgmeError. Return errors directly.
* verify.c (add_notation): Change return type to GpgmeError, return errors directly.
  (_gpgme_verify_status_handler): Likewise.
* wait.h (struct fd_table): Remove lock member.
  (struct wait_item_s): Moved here from wait.c.
  (struct tag): New structure.
  (_gpgme_wait_event_cb): Remove prototype.
  (_gpgme_wait_private_event_cb, _gpgme_wait_global_event_cb,
   _gpgme_wait_user_add_io_cb, _gpgme_wait_user_remove_io_cb,
   _gpgme_wait_user_event_io_cb): New prototypes.
* wait.c: Don't include <stdio.h>.
  (fdt_global, ctx_done_list, ctx_done_list_size,
   ctx_done_list_length, ctx_done_list_lock, idle_function): Remove global variable.
  (gpgme_register_idle, do_select, _gpgme_wait_event_cb): Remove function.
  (gpgme_wait): Move to file wait-global.c.
  (_gpgme_add_io_cb): Take ctx as private argument, initialize ctx member in wait item and tag.
  (_gpgme_remove_io_cb): Take ctx from tag. Don't use FDT lock.
  (_gpgme_wait_one, _gpgme_wait_on_condition): Move to wait-private.c.
  (gpgme_fd_table_init): Don't initialize FDT->lock.
  (gpgme_fd_table_deinit): Don't destroy FDT->lock.
  (_gpgme_fd_table_put): Make static and rename to ...
  (fd_table_put): ... this function. Don't use FDT->lock.
  (struct wait_item_s): Move to wait.h.
* wait-global.c: New file.
* wait-private.c: New file.
* wait-user.c: New file.

* key.c (gpgme_key_sig_get_string_attr): Use validity_to_string instead of trust_to_string to calculate validity.
* types.h (EngineObject): Move typedef to ...
* engine.h: ... here.
* types.h (GpgObject): Move typedef to ...
* rungpg.c: ... here.
* types.h (GpgsmObject): Move typedef to ...
* engine-gpgsm.c: ... here.

* util.h (return_if_fail, return_null_if_fail, return_val_if_fail): Remove macro.
* gpgme.c (gpgme_cancel): Don't use return_if_fail.
* key.c (gpgme_key_ref): Likewise.
* signers.c (gpgme_signers_enum): Likewise.
  (gpgme_signers_clear): Likewise.

* engine-backend.h (struct engine_ops): Rename get_path to get_file_name.
* gpgme.h (struct _gpgme_engine_info): Rename member path to file_name.
* version.c: Do not include <stdio.h>, <stdlib.h>, context.h and util.h. Other clean ups.
  (parse_version_number): Protect more seriously against overflow.
  (gpgme_get_engine_info): Move to ...
* engine.c (gpgme_get_engine_info): ... here.
  (_gpgme_engine_get_info): Function removed.
  (_gpgme_engine_get_path): Make static and rename to ...
  (engine_get_file_name): .. this.
  (_gpgme_engine_get_version): Make static and rename to ...
  (engine_get_version): ... this.
  (_gpgme_engine_get_req_version): Make static and rename to ...
  (engine_get_req_version): ... this.
* engine.h (_gpgme_engine_get_path, _gpgme_engine_get_version, _gpgme_engine_req_version, _gpgme_engine_get_info): Remove prototypes.

* gpgme.h (enum GpgmeProtocol): Remove GPGME_PROTOCOL_AUTO.
* gpgme.c (gpgme_set_protocol): Don't handle GPGME_PROTOCOL_AUTO.
  (gpgme_get_protocol_name): New function.

* engine-backend.h (struct engine_ops): New member
  get_req_version, remove member check_version.
* engine.h (_gpgme_engine_get_version): New prototype.
* rungpg.c (gpg_get_req_version): New function.
  (gpg_check_version): Function removed.
  (_gpgme_engine_ops_gpg): Add gpg_get_req_version, remove gpg_check_version.
* engine-gpgsm.c (gpgsm_get_req_version): New function.
(gpgsm_check_version): Function removed.
(_gpgme_engine_ops_gpgsm): Add gpgsm_get_req_version, remove
gpgsm_check_version.
* engine.c: Include ops.h.
(_gpgme_engine_get_req_version): New function.
(gpgme_engine_check_version): Rewritten.
* version.c (gpgme_get_engine_info): Rewritten.
* gpgme.h (gpgme_engine_info): New structure.
(GpgmeEngineInfo): New type.

2003-01-06 Werner Koch <wk@gnupg.org>

* keylist.c (set_mainkey_capability): Handle 'd' and 'D' used
since gpg 1.3 to denote disabled keys.

2003-01-06 Marcus Brinkmann <marcus@g10code.de>

* data-mem.c: Include <string.h>
* engine.c: Likewise.

2003-01-06 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_DEPENDENCIES): Correct bug in last change.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_op_verify, gpgme_op_decrypt_verify): Drop R_STAT
argument.
* decrypt-verify.c (gpgme_op_decrypt_verify): Drop R_STAT
argument.
* verify.c (gpgme_op_verify): Drop R_STAT argument.
(_gpgme_intersect_stati): Function removed.
* ops.h (_gpgme_intersect_stati): Remove prototype.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* libgpgme.vers: New file.
* Makefile.am (EXTRA_DIST): Add libgpgme.vers.
(libgpgme_version_script_cmd): New variable.
(libgpgme_la_LDFLAGS): Add libgpgme_version_script_cmd here.
(libgpgme_la_DEPENDENCIES): New variable.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* key.c (gpgme_key_get_string_attr): Don’t accept GPGME_ATTR_IS_SECRET.
(otrust_to_string): New function.
(gpgme_key_get_as_xml): Use it.
(validity_to_string): New function.
(gpgme_key_get_string_attr): Beautify using above functions.
(gpgme_key_get_ulong_attr): Likewise.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* data-mem.c (mem_release): Fix gcc warning.
* data-user.c (user_release): Likewise.

2002-12-06 Marcus Brinkmann <marcus@g10code.de>

* data.h (gpgme_data_releaseCb): Change return type to void.
(gpgme_data_readCb): Change return type to ssize_t.
* data.c (gpgme_data_read): Likewise.
* data-stream.c (stream_read): Likewise.
* data-fd.c (fd_read): Likewise.
* data-mem.c (mem_read): Likewise.
(mem_release): Change return type to void.
* data-user.c (user_read): Change return type to ssize_t.
(user_release): Change return type to void.
* data-compat.c (old_user_read): Change return type to ssize_t.
* gpgme.h (GpgmeDataReadCb): Likewise.
(gpgme_data_read): Likewise.
(GpgmeDataSeekCb): Change return type to off_t.

2002-12-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add prototype for gpgme_get_key.
* key.c (gpgme_get_key): New function.
* verify.c (gpgme_get_sig_key): Rewrite using gpgme_get_key.

* gpgme.h: Add prototypes for new interfaces
  gpgme_key_sig_get_string_attr and gpgme_key_get_ulong_attr.
  (enum GpgmeAttr): New attribute GPGME_ATTR_SIG_CLASS.
* gpgme.c (gpgme_set_keylist_mode): Allow GPGME_KEYLIST_MODE_SIGS.
* key.h (struct certsig_s): New members ALGO, NAME_PART,
  EMAIL_PART, COMMENT_PART, NAME, SIG_STAT and SIG_CLASS.

  * conversion.c (_gpgme_decode_c_string): Add new parameter LEN.
  Use that to determine if allocation is desired or not.
  * util.h: Adjust prototype of _gpgme_decode_c_string.
  * keylist.c (keylist_colon_handler): Adjust caller of
    _gpgme_decode_c_string.

  * key.h (struct gpgme_key_s): New member last_uid.
  * key.c (_gpgme_key_append_name): Rewritten using
    _gpgme_decode_c_string and the last_uid pointer.
  (my_isdigit): Macro removed.
* keylist.c (set_userid_flags): Use last_uid member of KEY.

* context.h (struct user_id_s): New member last_certsig.
* key.h: Add prototype for _gpgme_key_add_certsig.
* key.c (_gpgme_key_add_certsig): New function.

(set_user_id_part): Move function before _gpgme_key_add_certsig.
(parse_user_id): Change first argument to SRC, add new arguments NAME, EMAIL and COMMENT. Change code to use these arguments instead going through UID. Move function before _gpgme_add_certsig.

(parse_x509_user_id): Likewise.
(_gpgme_key_append_name): Adjust arguments to parse_x509_user_id and parse_user_id invocation.
(one_certsig_as_xml): New function.
(one_uid_as_xml): Print signatures.
* keylist.c (struct gpgme_context_s): New member TMP_UID.

* keylist.c (keylist_colon_handler): Rewritten, implement "sig" record entries.

* key.c (get_certsig): New function.
(gpgme_key_sig_get_string_attr): Likewise.
(gpgme_key_sig_get_ulong_attr): Likewise.

* keylist.c: Include <ctype.h>.
(my_isdigit): Macro removed.
(set_mainkey_trust_info): Use isdigit, not my_isdigit.
(set_userid_flags): Likewise.
(set_subkey_trust_info): Likewise.
(set_ownertrust): Likewise.
(finish_key): Move function up a bit and remove prototype.

* rungpg.c (gpg_keylist_ext): Correct precedence of signature listing mode.
(gpg_keylist_ext): Implement signature listing mode.

2002-11-25 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_spawn): Do not set parent fds to -1.
* posix-io.c (_gpgme_io_spawn): Call _gpgme_io_close instead close for parent fds.
* w32-io.c (_gpgme_io_spawn): Call _gpgme_io_close instead CloseHandle for parent fds.

2002-11-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h [_MSC_VER]: Define ssize_t as long.
2002-11-22 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_new): Save the result of a first
setlocale before doing another setlocale.

2002-11-21 Marcus Brinkmann <marcus@g10code.de>

* decrypt.c: Some beautification.

* verify.c (_gpgme_verify_status_handler): Treat
GPGME_STATUS_UNEXPECTED like GPGME_STATUS_NODATA.
Reported by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* genkey.c: Only include <config.h> if [HAVE_CONFIG_H].
(struct genkey_result_s): Add new member FPR.
(_gpgme_release_genkey_result): Free RESULT->fpr if set.
(genkey_status_handler): Extract the fingerprint from the status
line.
(_gpgme_op_genkey): Add new argument FPR and return the fingerprint
in it.
* gpgme.h: Adjust prototype of gpgme_op_genkey.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_keylist): Add --with-fingerprint to gpg invocation
twice, to get fingerprints on subkeys. Suggested by Timo Schulz
<twoaday@freakmail.de>.
(gpg_keylist_ext): Likewise.

2002-11-05 Marcus Brinkmann <marcus@g10code.de>

* import.c (append_xml_impinfo): Use
_gpgme_data_append_string_for_xml rather than
_gpgme_data_append_string for the field content.
Submitted by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-10-10 Marcus Brinkmann <marcus@g10code.de>

* rungpg.h, engine-gpgsm.h: File removed.
* Makefile.am (gpgsm_components): New variable, set depending on
automake conditional HAVE_GPGSM.
(libgpgme_la SOURCES): Add engine-backend.h, remove rungpg.h and
engine-gpgsm.h. Replace engine-gpgsm.c with $[gpgsm_components].
(status-table.h): Depend on gpgme.h, not rungpg.h.
* conversion.c: Include <stdlib.h>.
* engine-gpgsm.c: Do not set ENABLE_GPGSM here. Include "engine-backend.h" instead "engine-gpgsm.h". Reorder some functions and remove all function prototypes.
  (_gpgme_gpgsm_get_version): Make static and rename to ...
  (gpgsm_get_version): ... this.
  (_gpgme_gpgsm_check_version): Make static and rename to ...
  (gpgsm_check_version): ... this.
  (_gpgme_gpgsm_new): Make static. Change argument type from GpgsmObject * to void **. Call gpgsm_release instead
  _gpgme_gpgsm_release.
  (_gpgme_gpgsm_op_decrypt): Make static and rename to ...
  (gpgsm_check_decrypt): ... this.
  (_gpgme_gpgsm_op_delete): Make static and rename to ...
  (gpgsm_check_delete): ... this.
  (_gpgme_gpgsm_set_recipients): Make static and rename to ...
  (gpgsm_check_set_recipients): ... this.
  (_gpgme_gpgsm_op_encrypt): Make static and rename to ...
  (gpgsm_encrypt): ... this.
  (_gpgme_gpgsm_op_export): Make static and rename to ...
  (gpgsm_export): ... this.
  (_gpgme_gpgsm_op_genkey): Make static and rename to ...
  (gpgsm_genkey): ... this.
  (_gpgme_gpgsm_op_import): Make static and rename to ...
  (gpgsm_import): ... this.
  (_gpgme_gpgsm_op_keylist): Make static and rename to ...
  (gpgsm_keylist): ... this.
  (_gpgme_gpgsm_op_keylist_ext): Make static and rename to ...
  (gpgsm_keylist_ext): ... this.
  (_gpgme_gpgsm_op_sign): Make static and rename to ...
  (gpgsm_sign): ... this.
  (_gpgme_gpgsm_op_trustlist): Make static and rename to ...
  (gpgsm_trustlist): ... this.
  (_gpgme_gpgsm_op_verify): Make static and rename to ...
  (gpgsm_verify): ... this.
  (gpgsm_status_handler): Rename to ...
  (status_handler): ... this.
  (_gpgme_gpgsm_set_status_handler): Make static and rename to ...
  (gpgsm_set_status_handler): ... this.
  (_gpgme_gpgsm_set_colon_line_handler): Make static and rename to ...
  (gpgsm_set_colon_line_handler): ... this.
  (_gpgme_gpgsm_add_io_cb): Rename to ...
  (add_io_cb): ... this.
  (_gpgme_gpgsm_start): Make static and rename to ...
  (gpgsm_start): ... this.
  (_gpgme_gpgsm_set_io_cb): Make static and rename to ...
  (gpgsm_set_io_cb): ... this.
  (_gpgme_gpgsm_io_event): Make static and rename to ...
  (gpgsm_io_event): ... this.
(struct _gpgme_engine_ops_gpgsm): New variable.

[!ENABLE_GPGSM]: Removed.

* engine.c: Do not include <time.h>, <sys/types.h>, <string.h>,
 <assert.h>, "io.h", "rungpg.h" and "engine-gpgsm.h". Include
 <stdlib.h> and "engine-backend.h".

(struct engine_object_s): Rewritten.

(engine_ops): New variable.

* engine.c (_gpgme_engine_get_path, _gpgme_engine_get_version,
 _gpgme_engine_check_version, _gpgme_engine_new,
 _gpgme_engine_release, _gpgme_engine_set_verbosity,
 _gpgme_engine_set_status_handler,
 _gpgme_engine_set_command_handler,
 _gpgme_engine_set_colon_line_handler, _gpgme_engine_op_decrypt,
 _gpgme_engine_op_delete, _gpgme_engine_op_edit,
 _gpgme_engine_op_encrypt, _gpgme_engine_op_encrypt_sign,
 _gpgme_engine_op_export, _gpgme_engine_op_genkey,
 _gpgme_engine_op_import, _gpgme_engine_op_keylist,
 _gpgme_engine_op_keylist_ext, _gpgme_engine_op_sign,
 _gpgme_engine_op_trustlist, _gpgme_engine_op_verify,
 _gpgme_engine_start, _gpgme_engine_set_io_cbs,
 _gpgme_engine_io_event): Reimplement.

* engine.h: Fix a few comments and a variable name in a prototype.

* ops.h: Do not include "rungpg.h".

* passphrase.c: Include config.h only if [HAVE_CONFIG_H]. Do not
 include "rungpg.h".

* recipient.c: Likewise.

* signers.c: Likewise.

* version.c: Likewise.

* rungpg.c: Likewise. Include "engine-backend.h". Reorder
 functions and remove prototypes.

(_gpgme_gpg_get_version): Make static and rename to ...

(_gpg_get_version): ... this.

(_gpgme_gpg_check_version): Make static and rename to ...

(_gpg_check_version): ... this.

(_gpgme_gpg_new): Make static. Change argument type from
 GpgObject * to void **. Call gpg_release instead

(_gpgme_gpg_release). Make static and rename to ...

(_gpgme_gpg_op_decrypt): Make static and rename to ...

(_gpg_check_decrypt): ... this.

(_gpgme_gpg_op_delete): Make static and rename to ...

(_gpg_check_delete): ... this.

(_gpgme_gpg_set_recipients): Make static and rename to ...

(_gpg_check_set_recipients): ... this.

(_gpgme_gpg_op_encrypt): Make static and rename to ...

(_gpg_encrypt): ... this.

(_gpgme_gpg_op_export): Make static and rename to ...

(_gpg_export): ... this.

(_gpgme_gpg_op_genkey): Make static and rename to ...
(gpg_genkey): ... this.
(_gpgme_gpg_op_import): Make static and rename to ...
(gpg_import): ... this.
(_gpgme_gpg_op_keylist): Make static and rename to ...
(gpg_keylist): ... this.
(_gpgme_gpg_op_keylist_ext): Make static and rename to ...
(gpg_keylist_ext): ... this.
(_gpgme_gpg_op_sign): Make static and rename to ...
(gpg_sign): ... this.
(_gpgme_gpg_op_trustlist): Make static and rename to ...
(gpg_trustlist): ... this.
(_gpgme_gpg_op_verify): Make static and rename to ...
(gpg_verify): ... this.
(gpg_status_handler): Rename to ...
(status_handler): ... this.
(_gpgme_gpg_set_status_handler): Make static and rename to ...
(gpg_set_status_handler): ... this.
(_gpgme_gpg_set_colon_line_handler): Make static and rename to ...
(gpg_set_colon_line_handler): ... this.
(gpgme_gpg_add_io_cb): Rename to ...
(add_io_cb): ... this.
(_gpgme_gpg_start): Make static and rename to ...
(gpg_start): ... this.
(_gpgme_gpg_set_io_cb): Make static and rename to ...
(gpg_set_io_cb): ... this.
(_gpgme_gpg_io_event): Make static and rename to ...
(gpg_io_event): ... this.
(struct _gpgme_engine_ops_gpg): New variable.

2002-10-10 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_verify) [!ENABLE_GPGSM]: Add missing argument.

2002-10-09 Marcus Brinkmann <marcus@g10code.de>

* data.h, data-user.c, data-stream.c, data-mem.c, data-fd.c, data-compat.c: New file. Really check them in this time, completes 2002-10-08 change.

* rungpg.h (GpgStatusHandler): Rename type to GpgmeStatusHandler and move to ...
* types.h (GpgmeStatusHandler): ... here.
* rungpg.h (GpgColonLineHandler): Rename type to GpgmeColonLineHandler, and move to ...
* types.h (GpgmeColonLineHandler): ... here.
* rungpg.h (GpgCommandHandler): Rename type to GpgmeCommandHandler, and move to ...
* types.h (GpgmeCommandHandler): ... here.
* engine.h: Don't include "rungpg.h".

(_gpgme_engine_set_status_handler): Change type of argument from GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_engine_set_colon_line_handler): Change type of argument from GpgColonLineHandler to GpgmeColonLineHandler.
(_gpgme_engine_set_command_handler): Change type of argument from GpgCommandHandler to GpgmeCommandHandler.

* engine-gpgsm.h: Don't include "rungpg.h".

(_gpgme_gpgsm_set_status_handler): Change type of argument from GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_gpgsm_set_colon_line_handler): Change type of argument from GpgColonLineHandler to GpgmeColonLineHandler.

* engine-gpgsm.c: Do not include "rungpg.h".

(struct gpgsm_object_s): Change type of status.fnc to GpgmeStatusHandler. Change type of colon.fnc to GpgmeColonLineHandler.

(gpgsm_assuan_simple_command): Change type of argument from GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_gpgsm_set_status_handler): Likewise.
(_gpgme_gpgsm_set_colon_line_handler): Change type of argument from GpgColonLineHandler to GpgmeColonLineHandler.

* rungpg.h (_gpgme_gpg_set_status_handler): Change type of argument from GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_gpg_set_colon_line_handler): Change type of argument from GpgColonLineHandler to GpgmeColonLineHandler.
(_gpgme_gpg_set_command_handler): Change type of argument from GpgCommandHandler to GpgmeCommandHandler.

* rungpg.c (struct gpg_object_s): Change type of status.fnc to GpgmeStatusHandler. Change type of colon.fnc to GpgmeColonLineHandler. Change type of cmd.fnc to GpgmeCommandLineHandler.

(_gpgme_gpg_set_status_handler): Change type of argument FNC to GpgmeStatusHandler.
(_gpgme_gpg_set_colon_line_handler): Change type of argument FNC to GpgmeColonLineHandler.
(_gpgme_gpg_set_command_handler): Change type of argument FNC to GpgmeCommandHandler.

* engine.c (_gpgme_engine_set_status_handler): Change type of argument FNC to GpgmeStatusHandler.
(_gpgme_engine_set_colon_line_handler): Change type of argument FNC to GpgmeColonLineHandler.
(_gpgme_engine_set_command_handler): Change type of argument FNC to GpgmeCommandHandler.

* rungpg.h (_gpgme_gpg_enable_pipemode): Remove prototype.
* rungpg.c (struct gpg_object_s): Remove PM.

(pipemode_cb): Prototype removed.
(add_pm_data): Function removed.
(_gpgme_gpg_enable_pipemode): Likewise.
(pipemode_copy): Likewise.
(pipemode_cb): Likewise.
(add_arg): Don't check for pipemode.
(add_data): Likewise.
(_gpgme_gpg_set_status_handler): Likewise.
(_gpgme_gpg_set_colon_line_handler): Likewise.
(_gpgme_gpg_set_command_handler): Likewise.
(_gpgme_gpg_spawn): Likewise.
(_gpgme_gpg_spawn): Don't set PM.active.
(_gpgme_gpg_op_verify): Remove pipemode case.
* verify.c (_gpgme_op_verify_start): Remove pipemode case.

* rungpg.h (_gpgme_gpg_add_arg, _gpgme_gpg_add_data,
  _gpgme_gpg_add_pm_data, _gpgme_gpg_housecleaning,
  _gpgme_gpg_set_simple_line_handler): Prototype removed.
(_gpgme_gpg_set_verbosity): New prototype.
* rungpg.c (_gpgme_gpg_add_data): Make static and rename to ...
  (add_data): ... this.
(_gpgme_gpg_add_pm_data): Call add_data, not _gpgme_gpg_add_data.
(_gpgme_gpg_set_command_handler): Likewise.
(_gpgme_gpg_op_decrypt, _gpgme_gpg_op_edit, _gpgme_gpg_op_encrypt,
  _gpgme_gpg_op_encrypt_sign, _gpgme_gpg_op_export,
  _gpgme_gpg_op_genkey, _gpgme_gpg_op_import, _gpgme_gpg_op_sign,
  _gpgme_gpg_op_verify): Likewise.
(_gpgme_gpg_add_pm_data): Rename to ...
  (add_pm_data): ... this.
(_gpgme_gpg_op_verify): Call add_pm_data, not
  _gpgme_gpg_add_pm_data.
(_gpgme_gpg_add_arg): Make static and rename to ...
  (add_arg): ... this.
(_gpgme_gpg_set_command_handler, _gpgme_gpg_new,
  _gpgme_gpg_op_decrypt, _gpgme_gpg_op_delete,
  _gpgme_append_gpg_args_from_signers, _gpgme_gpg_op_edit,
  _gpgme_append_gpg_args_from_recipients, _gpgme_gpg_op_encrypt,
  _gpgme_gpg_op_encrypt_sign, _gpgme_gpg_op_export,
  _gpgme_gpg_op_genkey, _gpgme_gpg_op_import, _gpgme_gpg_op_keylist,
  _gpgme_gpg_op_keylist_ext, _gpgme_gpg_op_trustlist,
  _gpgme_gpg_op_sign, _gpgme_gpg_op_verify): Use add_arg, not
  _gpgme_gpg_add_arg.
(struct gpg_object_s): Remove member simple from colon.
(_gpgme_gpg_set_colon_line_handler): Don't initialize simple.
(_gpgme_gpg_set_simple_line_handler): Removed function.
(read_colon_line): Don't check the GPG->colon.simple.
* engine.c (_gpgme_engine_set_verbosity): Call
  _gpgme_gpg_set_verbosity instead _gpgme_gpg_add_arg.
* util.h (_gpgme_malloc, _gpgme_realloc, _gpgme_calloc, _gpgme_strdup, _gpgme_free): Remove prototypes.
(xtrymalloc, xtrycalloc, xtryrealloc, xtrystrdup, xfree): Remove macros.
* util.c: File removed.
* Makefile.am (libgpgme_la_SOURCES): Remove util.h.
* conversion.c (_gpgme_decode_c_string): Use malloc instead of xtrymalloc, realloc instead of xtryrealloc, calloc instead of xtrycalloc, free instead of xfree.
(_gpgme_data_append_percentstring_for_xml): Likewise.
* data.c (gpgme_data_new, gpgme_data_release): Likewise.
* data-compat.c (gpgme_data_new_from_filepart): Likewise.
* data-mem.c (mem_write, mem_release, gpgme_data_new_from_mem, gpgme_data_get_as_string): Likewise.
* debug.c (debug_init): Likewise.
* decrypt.c (_gpgme_release_decrypt_result): Likewise.
* delete.c (_gpgme_release_delete_result): Likewise.
* edit.c (_gpgme_release_edit_result, _gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_release_encrypt_result): Likewise.
* engine.c (gpgme_engine_get_info, gpgme_engine_new, gpgme_engine_release): Likewise.
* genkey.c (_gpgme_release_genkey_result): Likewise.
* gpgme.c (gpgme_new, gpgme_release): Likewise.
* import.c (_gpgme_release_import_result): Likewise.
* key.c (gpgme_key_cache_init, gpgme_key_cache_add, key_new, add_subkey, gpgme_key_release, gpgme_key_append_name): Likewise.
* keylist.c (_gpgme_release_keylist_result, keylist_colon_handler, gpgme_op_keylist_event_cb, gpgme_op_keylist_next): Likewise.
* ops.h (test_and_allocate_result): Likewise.
* passphrase.c (_gpgme_release_passphrase_result, gpgme_passphrase_status_handler, gpgme_passphrase_command_handler): Likewise.
* progress.c (_gpgme_progress_status_handler): Likewise.
* recipient.c (gpgme_recipients_new, gpgme_recipients_release, gpgme_recipients_add_name_with_validity): Likewise.
* rungpg.c (_gpgme_gpg_new, gpgme_gpg_release, gpgme_gpg_add_arg, gpgme_gpg_add_data,
_gpgme_gpg_set_colon_line_handler, free_argv, free_fd_data_map, 
built_argv, _gpgme_gpg_spawn, read_status, read_colon_line):
Likewise.
* sign.c (_gpgme_release_sign_result): Likewise.
* signers.c (_gpgme_signers_add): Likewise.
* trustlist.c (trust_item_new, trustlist_colon_handler, 
_gpgme_op_trustlist_event_cb, gpgme_op_trustlist_next, 
gpgme_trustitem_release): Likewise.
* verify.c (_gpgme_release_verify_result, finish_sig): Likewise.
* version.c (gpgme_get_engine_info, _gpgme_get_program_version):
Likewise.
* w32-io.c (create_reader, create_writer, destroy_reader, 
destroy_writer, build_commandline, _gpgme_io_spawn): Likewise.
* w32-sema.c (critsect_init, _gpgme_sema_cs_destroy): Likewise.
* w32-util.c (read_w32_registry_string): Likewise.
* wait.c (_gpgme_fd_table_deinit, _gpgme_fd_table_put, 
_gpgme_wait_event_cb, _gpgme_add_io_cb, _gpgme_remove_io_cb)
* data-compat.c: Include <stdlib.h>.

2002-10-08 Marcus Brinkmann <marcus@g10code.de>

New data object component:

* gpgme.h (GpgmeDataReadCb, GpgmeDataWriteCb, GpgmeDataSeekCb, 
GpgmeDataReleaseCb): New types.
(struct GpgmeDataCbs): New structure.
(gpgme_data_read): Changed prototype to match that of read() closely.
(gpgme_data_write): Similar for write().
(gpgme_data_seek, gpgme_data_new_from_cbs, gpgme_data_new_from_fd, 
(gpgme_data_get_type, gpgme_check_engine): Prototype removed.

* Makefile.am (libgpgme_la_SOURCES): Add data.h, data-fd.c, 
data-stream.c, data-mem.c, data-user.c and data-compat.c.
* data.c: Reimplemented from scratch.
* (data-compat.c, data-fd.c, data.h, data-mem.c, data-stream.c, 
* context.h (struct gpgme_data_s): Removed.
* conversion.c: Include <errno.h> and <sys/types.h>.
* data.c (_gpgme_data_append_string): Move to ...
* conversion.c (_gpgme_data_append_string): ... here.
* data.c (_gpgme_data_append_for_xml): Move to ...
* conversion.c (_gpgme_data_append_for_xml): ... here.
* data.c (_gpgme_data_append_string_for_xml): Move to ...
* conversion.c (_gpgme_data_append_string_for_xml): ... here.
* data.c (_gpgme_data_append_percentstring_for_xml): Move to ...
* conversion.c (_gpgme_data_append_percentstring_for_xml): ... here.
* ops.h (_gpgme_data_get_mode, _gpgme_data_set_mode): Prototype removed.
* types.h (GpgmeDataMode): Type removed.

* decrypt.c (_gpgme_decrypt_start): Don't check data type or mode.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.

* encrypt.c (gpgme_op_encrypt): Remove hack that returns invalid no recipient if no data was returned.
* encrypt-sign.c (gpgme_op_encrypt_sign): Remove hack that returns no recipient if no data was returned.
* encrypt-sign.c (gpgme_op_encrypt_sign): Remove hack that returns no recipient if no data was returned.

* engine.c (_gpgme_engine_op_verify): Add new argument to differentiate detached from normal signatures.
* engine.h (_gpgme_engine_op_verify): Likewise for prototype.
* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Likewise. Don't check mode of data argument.
* engine-gpgsm.h (_gpgme_gpgsm_op_verify): Likewise for prototype.
* gpgme.h (gpgme_op_verify_start): Likewise for prototype.
* rungpg.c (gpgme_op_verify): Likewise.
* rungpg.h (gpgme_op_verify): Likewise for prototype.
* verify.c (_gpgme_op_verify_start): Likewise.
* (gpgme_op_verify): Likewise.

* rungpg.c (struct arg_and_data_s): New member INBOUND to hold direction of data object.
* (gpgme_gpg_add_data): Add new argument INBOUND. Use it to determine direction of data object.
* (gpgme_gpg_add_pm_data, _gpgme_gpg_set_command_handler, _gpgme_gpg_op_decrypt, _gpgme_gpg_op_edit, _gpgme_gpg_op_encrypt, _gpgme_gpg_op_encrypt_sign, _gpgme_gpg_op_export, _gpgme_gpg_op_genkey, _gpgme_gpg_op_import, _gpgme_gpg_op_sign, _gpgme_gpg_op_verify): Add new argument to gpgme_gpg_add_data invocation.
* (build_argv): Use new member INBOUND to determine direction of
file descriptor. Don't check the data type.
* rungpg.h (gpgme_gpg_add_data): Add new argument to prototype.

* gpgme.c (gpgme_get_op_info): Don't call
  gpgme_data_get_as_string if CTX->op_info is NULL.

* version.c (gpgme_check_engine): Function removed.

2002-09-30 Werner Koch <wk@gnupg.org>

* keylist.c (keylist_colon_handler): Take care when printing a
  NULL with the DEBUG.

* engine-gpgsm.c (struct gpgsm_object_s): New member ANY.
  (gpgsm_status_handler): Run the colon function to indicate EOF.
  (_gpgme_gpgsm_set_colon_line_handler): Better reset ANY here.

2002-09-28 Marcus Brinkmann <marcus@g10code.de>

* conversion.c (_gpgme_hextobyte): Prevent superfluous
  multiplication with base. Reported by Stphane Corthsy.

* keylist.c (gpgme_op_keylist_ext_start): Use private asynchronous
  operation type in invocation of gpgme_op_reset.

2002-09-20 Werner Koch <wk@gnupg.org>

* ath.c: Include sys/time.h if sys/select.h is not available.

2002-09-13 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (keylist_status_handler): Do not call finish_key() here.
  (gpgme_op_keylist_ext_start): Set CTX->tmp_key to NULL.

2002-09-03 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (assuan_libobjs): Remove @LTLIBOBS@ as we link them
  into gpgme unconditionally.
  (libgpgme_la_LIBADD): Change @LIBOBS@ into @LTLIBOBS@.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (assuan_libobjs): Use @LTLIBOBS@ instead @LIBOBS@.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* debug.c (_gpgme_debug_add): Test *LINE, not LINE.
  (_gpgme_debug_end): Likewise.
Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* posix-io.c (_gpgme_io_select): Don't use a non-constant struct
  initializer.
* version.c (_gpgme_get_program_version): Likewise.
Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* conversion.c (_gpgme_decode_c_string): Set DESTP before
  modifying DEST.

* conversion.c (_gpgme_decode_c_string): Fix off by one error in
  last change.
* runpg.c (_gpgme_append_gpg_args_from_signers): Move before
  _gpgme_op_edit so its prototype is known early on.

* conversion.c: New file.
* util.h: Add prototypes for _gpgme_decode_c_string and
  _gpgme_hextobyte.
* keylist.c (keylist_colon_handler): Call _gpgme_decode_c_string
  on issuer name.
* Makefile.am (libgpgme_la_SOURCES): Add conversion.c
* key.c (_gpgme_key_append_name): Replace calls to hextobyte by
  calls to _gpgme_hextobyte.
  (hash_key): Likewise.

2002-09-01 Marcus Brinkmann <marcus@g10code.de>

* op-support.c (_gpgme_op_reset): Set CTX->pending after calling
  _gpgme_engine_release, as this will reset pending to zero in the
  event done callback on cancelled operations.

2002-08-30 Marcus Brinkmann <marcus@g10code.de>

* runpg.c (_gpgme_gpg_op_edit): Add args from signers.
  Suggested by Miguel Coca <e970095@zipi.fi.upm.es>.

* runpg.c (_gpgme_gpg_op_edit): Add bogus ctx argument.
* runpg.h: Also to prototype.
* engine.c (_gpgme_engine_op_edit): Likewise.
* engine.h: Likewise.
* edit.c (_gpgme_op_edit_start): Likewise.

2002-08-29 Werner Koch <wk@gnupg.org>
* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Implement signer selection.
* vasprintf.c (va_copy): Define macro if not yet defined.

2002-08-29 Marcus Brinkmann <marcus@g10code.de>

* passphrase.c (_gpgme_passphrase_status_handler): Reset CTX->result.passphrase->no_passphrase if passphrase is given (good or bad). Submitted by Jean DIRAISON <jean.diraison@free.fr>.

2002-08-28 Marcus Brinkmann <marcus@g10code.de>

* posix-io.c (_gpgme_io_spawn): Use a double-fork approach. Return 0 on success, -1 on error.
* version.c (_gpgme_get_program_version): Don't wait for the child.
* engine.c (_gpgme_engine_housecleaning): Function removed.
  (do_reaping): Likewise.
  (_gpgme_engine_add_child_to_reap_list): Likewise.
  (struct reap_s): Removed.
  (reap_list): Likewise.
  (reap_list_lock): Likewise.
* engine.h (_gpgme_engine_io_event): Remove prototypes for _gpgme_engine_housecleaning and _gpgme_engine_add_child_to_reap_list.
* rungpg.c (_gpgme_gpg_release): Don't add child to reap list.
  (struct gpg_object_s): Remove PID member.
  (_gpgme_gpg_new): Don't initialize GPG->pid.
  (_gpgme_gpg_spawn): Don't set GPG->pid.
* wait.c (run_idle): Removed.
  (gpgme_wait): Run idle_function directly.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* encrypt-sign.c (encrypt_sign_status_handler): Remove dead variables encrypt_info and encrypt_info_len.
* trustlist.c (gpgme_op_trustlist_start): Set colon line handler.
* posix-sema.c (sema_fatal): Remove function.
All these reported by Stephane Corthsy.

2002-08-23 Werner Koch <wk@gnupg.org>

* gpgme-config.in: Made --prefix work for --libs.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* ath.h: Update list of symbols that get a prefix: Rename the ath_mutex_*_available symbols to ath_*_available.
2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* stpcpy.c: New file from gnulib.
* Makefile.am (assuan_libobjs): Remove jnlib.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add prototype for gpgme_op_import_ext.
* import.c (struct import_result_s): New member `nr_considered'.
  Rename `any_imported' to `nr_imported'.
* (import_status_handler): Increment nr_imported. Set nr_considered
  if appropriate.
* (gpgme_op_import): Implement in terms of gpgme_op_import_ext.

2002-08-20 Werner Koch <wk@gnupg.org>

* gpgme.m4: Replaced with a new and faster version. This does not
  anymore try to build test programs. If we really need test
  programs, we should add an option to gpgme-config to do so.
* vasprintf.c (int_vasprintf): Hack to handle NULL passed for %s.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (_gpgme_set_op_info): Append data on subsequent calls.
* encrypt-sign.c (encrypt_sign_status_handler): Remove op_info
  handling.

2002-08-19 Werner Koch <wk@gnupg.org>

* decrypt.c (is_token,skip_token): Duplicated from verify.c
  (gpgme_op_decrypt): Hack to properly return Decryption_Failed..
  (_gpgme_decrypt_status_handler): Create an operation info.

2002-08-14 Werner Koch <wk@gnupg.org>

* key.h (struct certsig_s): New. Use it in gpgme_key_s.
* key.c (gpgme_key_release): Release it. We need to add more code
  of course.
  (_gpgme_key_append_name): Use memset to initialize the struct.
* gpgme.h (GPGME_KEYLIST_MODE_SIGS): New.
* rungpg.c (_gpgme_gpg_op_keylist): Include sigs in listing depending
  on the list mode.

* key.c (gpgme_key_get_string_attr): Use GPGME_ATTR_TYPE to return
  information about the key type (PGP or X.509).
  (gpgme_key_get_ulong_attr): Likewise.
* keylist.c (keylist_colon_handler): Include 1 in the check for valid algorithms so that RSA is usable. Store the issuer name and serial number also for "crs" records. Parse the expire date for subkeys.

(set_userid_flags): Put them onto the last appended key.

2002-07-29 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_op_edit): Use --with-colons.

2002-07-28 Marcus Brinkmann <marcus@g10code.de>

* data.c (gpgme_data_read): For GPGME_DATA_TYPE_NONE, return EOF instead an error.

The following changes make it possible to flush an inbound data pipe before invoking a command handler:

* posix-io.c (_gpgme_io_select): Accept new argument NONBLOCK to _gpgme_io_select. Set timeout of 0 if this is set.
* w32-io.c (_gpgme_io_select): Likewise.
* io.h: Add new argument NONBLOCK to _gpgme_io_select prototype.
* wait.c (do_select): Add new argument to _gpgme_io_select invocation.
* rungpg.h (_gpgme_gpg_set_command_handler): Add new argument linked_data to prototype.
* engine.h (_gpgme_engine_set_command_handler): Likewise.
* engine.c (_gpgme_engine_set_command_handler): Likewise.
* passphrase.c (_gpgme_passphrase_start): Pass NULL as linked_data argument to _gpgme_engine_set_command_handler.
* rungpg.c (struct gpg_object_s): New members linked_data and linked_idx in CMD.

(_gpgme_gpg_new): Initialize those new members.
(_gpgme_gpg_set_command_handler): Accept new argument linked_data.
(build_argv): Handle linked_data in the same hack as cb_data.
(read_status): If linked_data is in use, flush the pipe before activating the command handler.
* gpgme.h: Add prototypes for gpgme_op_edit_start and gpgme_op_edit.

The next changes export the status codes to the user:

* decrypt.c (_gpgme_decrypt_status_handler): Likewise, also prefix all STATUS_ with GPGME_.
* delete.c (delete_status_handler): Likewise.
* decrypt-verify.c (decrypt_verify_status_handler): Likewise.
* encrypt.c (_gpgme_encrypt_status_handler): Likewise.
(_gpgme_encrypt_sym_status_handler): Likewise.
* encrypt-sign.c (encrypt_sign_status_handler): Likewise.
* engine-gpgsm.c (parse_status): Likewise.
(gpgsm_status_handler): Likewise.
(gpgsm_set_recipients): Likewise.
* export.c (export_status_handler): Likewise.
* genkey.c (genkey_status_handler): Likewise.
* import.c (append_xml_impinfo): Likewise.
(import_status_handler): Likewise.
* keylist.c (keylist_status_handler): Likewise.
* passphrase.c (_gpgme_passphrase_status_handler): Likewise.
(command_handler): Likewise.
* progress.c (_gpgme_progress_status_handler): Likewise.
* sign.c (_gpgme_sign_status_handler): Likewise.
* trustlist.c (trustlist_status_handler): Likewise.
* verify.c (_gpgme_verify_status_handler): Likewise.
* gpgme.h (GpgmeEditCb): New type.
* rungpg.h (GpgStatusCode): Rename and move to ...
* gpgme.h (GpgmeStatusCode): ... this and here.
* Makefile.am (status-table.h): Run mkstatus on gpgme.h, not rungpg.h.
* mkstatus: Prefix STATUS with GPGME_.
* rungpg.h (GpgStatusHandler, GpgCommandHandler): Change type accordingly.
* ops.h (_gpgme_verify_status_handler,
_gpgme_decrypt_status_handler, _gpgme_sign_status_handler,
_gpgme_encrypt_status_handler, _gpgme_passphrase_status_handler,
_gpgme_progress_status_handler): Likewise.
* rungpg.c (struct gpg_object_s): Likewise for CMD.code.

These changes add an edit operation to GPGME:

* context.h (struct gpgme_context_s): New member RESULT.edit.  *
ops.h: Add prototype for _gpgme_release_edit_result and
_gpgme_passphrase_command_handler.
* passphrase.c (command_handler): Make non-static and rename to ...
(_gpgme_passphrase_command_handler): ... this.
(_gpgme_passphrase_start): Use new name for command handler.
* types.h: Add EditResult type.
* gpgme.c (_gpgme_release_result): Release EDIT result.
* edit.c: New file.
* Makefile.am (libgpgme_la_SOURCES): Add edit.c.
(libgpgme_la_LDADD): Rename to libgpgme_la_LIBADD, and include
assuan_libobjs.
(assuan_libobjs): New variable, set this instead
libgpgme_la_LIBADD.
* engine.h (_gpgme_engine_op_edit): New prototype.
* engine.c (_gpgme_engine_op_edit): New function.
* rungpg.h (_gpgme_gpg_op_edit): New prototype.
* rungpg.c (_gpgme_gpg_op_edit): New function.

2002-07-27 Marcus Brinkmann <marcus@g10code.de>

* delete.c (delete_problem): New case ambiguous specification.
  (delete_status_handler): Handle new case (poorly).

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_delete): Implement this.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_LDADD): Add @LIBOBJS@ for vasprintf and
  fopencookie.
* vasprintf.c: Update to more recent libiberty version.
* debug.h: Replace #elsif with #elif.

Submitted by Stphane Corthsy:
* util.h (vasprintf): Correct prototype.
* encrypt-sign.c: Include <stddef.h>.
  (encrypt_sign_status_handler): Change type of ENCRYPT_INFO_LEN to
  size_t.
* ath-pthread.c: Include <stdlib.h>, not <malloc.h>.
* ath-pth.c: Likewise.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* wait.c (fdt_global): Make static. Reported by Stphane
  Corthsy.

* rungpg.c (_gpgme_gpg_op_keylist_ext): Skip empty string
  patterns. Reported by Stphane Corthsy.

* key.c (gpgme_key_get_as_xml): Add OTRUST attribute. Requested
  by Stphane Corthsy.
  (gpgme_key_get_string_attr): Add GPGME_ATTR_SIG_SUMMARY case to
  silence gcc warning.

* rungpg.c (_gpgme_gpg_new): Always set utf8 as charset.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_io_cbs): Deal with CTX being NULL.

* gpgme.c (_gpgme_op_event_cb_user): New function.
* op-support.c (_gpgme_op_reset): Support a new mode of operation
  for private or user event loop. Use new user event callback
wrapper.
* trustlist.c (gpgme_op_trustlist_start): Use this new mode.
* keylist.c (gpgme_op_keylist_start): Likewise.

* rungpg.c (_gpgme_gpg_io_event): New function.
* rungpg.h (_gpgme_gpg_io_event): New prototype.
* engine-gpgsm.c (_gpgme_gpg_sm_io_event): New function.
* engine.c (_gpgme_engine_io_event): New function.
* engine.h (_gpgme_engine_io_event): New prototype.
* keylist.c (finish_key): Call _gpgme_engine_io_event, and move the real work for the default IO callback routines to ...
(_gpgme_op_keylist_event_cb): ... here. New function.
* trustlist.c (trustlist_colon_handler): Signal GPGME_EVENT_NEXT_TRUSTITEM. Move queue manipulation to ...
(_gpgme_op_trustlist_event_cb): ... here. New function.
* gpgme.c (_gpgme_op_keylist_event_cb) and _gpgme_op_trustlist_event_cb when appropriate.
* ops.h (_gpgme_op_keylist_event_cb): New prototype.
(_gpgme_op_trustlist_event_cb): Likewise.
* op-support.c (_gpgme_op_reset): Add comment why we don't use the user provided event handler directly.
* gpgme.h (GpgmeRegisterIOCb): Return GpgmeError value, and TAG in a pointer argument.
* wait.c (_gpgme_add_iocb): Likewise.
* wait.h (_gpgme_add_iocb): Likewise for prototype.
* rungpg.c (_gpgme_gpg_add_iocb): Call IO_CBS->add with new argument. Fix up error handling.
* engine-gpgsm.c (_gpgme_gpgsm_add_iocb): Call IO_CBS->add with new argument, fix up error handling.

2002-07-03 Werner Koch <wk@gnupg.org>

* encrypt.c (status_handler_finish): New.
(_gpgme_encrypt_status_handler): Moved some code out to the new function and call this function also in case we get into the status handler with an error which might happen due to a kludge in engine-gpgsm.c

2002-06-28 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_op_keylist_ext_start): Always use our own FD table (eg use synchronous mode).

2002-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Fix documentation of key attribute retrieval functions.
2002-06-28 Marcus Brinkmann <marcus@g10code.de>

* ops.h (_gpgme_wait_on_condition): Remove HANG argument from prototype and change return type to GpgmeError.
(_gpgme_wait_one): New prototype.
* wait.c (gpgme_wait): Replace with the meat from _gpgme_wait_on_condition here, and remove the support for conditions.
(_gpgme_wait_on_condition): Remove HANG argument from prototype and change return type to GpgmeError. Replace with meat from _gpgme_wait_one and add support for conditions.
(_gpgme_wait_one): Just call _gpgme_wait_on_condition without condition.
* keylist.c (gpgme_op_keylist_ext_start): Always use our own FD table (eg use synchronous mode).
(gpgme_op_keylist_next): Remove HANG argument from _gpgme_wait_on_condition. Check its return value.
* trustlist.c (gpgme_op_trustlist_start): Always use our own FD table (eg use synchronous mode).
(gpgme_op_trustlist_next): Remove HANG argument from _gpgme_wait_on_condition. Check its return value.

2002-06-26 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (map_assuan_error): Map No_Data_Available to EOF.

* import.c (append_xml_impinfo): Kludge to print fingerprint instead of keyid for use with gpgsm.
(import_status_handler): Set a flag to know whether any import occurred.
(gpgme_op_import): Return -1 if no certificate ewas imported.

2002-06-25 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_set_io_cbs) [ENABLE_GPGSM]: Fixed function arguments.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_export): Only export the keys listed in RECP.
* export.c (gpgme_op_export): If no data was returned, return GPGME_No_Recipients.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_export): Implement.
2002-06-21 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_assuan_simple_command): Return ERR.
  (parse_status): New function.
  (gpgsm_status_handler): Use parse_status.
  (gpgsm_assuan_simple_command): Accept new arguments STATUS_FNC and
  STATUS_FNC_VALUE and process status messages.
  (gpgsm_set_recipients): Pass new arguments to gpgsm_assuan_simple_command.
  (gpgsm_set_fd): Likewise.
  (_gpgme_gpgsm_op_keylist): Likewise.
  (_gpgme_gpgsm_op_keylist_ext): Likewise.
  (_gpgme_gpgsm_op_sign): Likewise.

2002-06-21 Marcus Brinkmann <marcus@g10code.de>

* wait.c (_gpgme_remove_io_cb): Unlock FDT->lock.

2002-06-20 Werner Koch <wk@gnupg.org>

* rungpg.c (build_argv): Ignore GPG_AGENT_INFO if set but empty.

* verify.c (calc_sig_summary): Set bad policy for wrong key usage.
  (skip_token): New.
  (_gpgme_verify_status_handler): Watch out for wrong key usage.
  (gpgme_get_sig_string_attr): Hack to return info on the key
  usage. Does now make use of the former RESERVED argument which
  has been renamed to WHATIDX.
  (gpgme_get_sig_ulong_attr): Renamed RESERVED to WHATIDX.

2002-06-14 Marcus Brinkmann <marcus@g10code.de>

* wait.c (do_select): Return -1 on error, and 0 if nothing to run.
  (_gpgme_wait_one): Only set HANG to zero if do_select returned an
  error, or there are no more file descriptors to wait on.
  (_gpgme_wait_on_condition): Ignore return value from do_select for
  now.

2002-06-13 Werner Koch <wk@gnupg.org>

* verify.c (gpgme_op_verify): Make sure that we never access an
  uninitialized result structure.

2002-06-12 Werner Koch <wk@gnupg.org>

* keylist.c (struct keylist_result_s): New.
  (_gpgme_release_keylist_result): Release it here
  (keylist_status_handler): Handle truncated.
  (append_xml_keylistinfo): New.
* gpgme.c (_gpgme_release_result): and use it here.
* types.h: Declare the new type here.
* context.h (struct gpgme_context_s): Use it here.

2002-06-11 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_release): Close status_cb.fd.
(_gpgme_gpgsm_new): Duplicate status file descriptor, so we can
use our own close notification mechanism without interfering with
assuan.

2002-06-11 Werner Koch <wk@gnupg.org>

* gpgme.h: Add GPGME_ATTR_SIG_SUMMARY and the GPGME_SIGSUM_
constants.
* verify.c (calc_sig_summary): New.
(gpgme_get_sig_ulong_attr): And use it here.

2002-06-10 Werner Koch <wk@gnupg.org>

* rungpg.h: Add new status codes TRUNCATED and ERROR.
* verify.c (is_token, copy_token): New.
(_gpgme_verify_status_handler): Use copy_token, handle the new
ERROR status and store the errorcode used withgpgsm and trust
status codes.
* gpgme.h: New attribute ERRTOK.
* key.c (gpgme_key_get_string_attr): Add dummy case for it.
(gpgme_get_sig_string_attr): Use it here to return the last error.

2002-06-10 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_start): Move the code that sets the
close notification for the status fd to ...
(_gpgme_gpgsm_new): ... here.
* wait.h: Include "sema.h". Remove prototypes of
_gpgme_remove_proc_from_wait_queue and
_gpgme_register_pipe_handler. Add prototypes of
_gpgme_fd_table_init, _gpgme_fd_table_deinit, _gpgme_fd_table_put,
_gpgme_add_io_cb, _gpgme_remove_io_cb, _gpgme_wait_event_cb and
_gpgme_wait_one..
* wait.c: Remove global variables PROC_QUEUE, PROC_QUEUE_LOCK,
FD_TABLE_SIZE, FD_TABLE, FD_TABLE_LOCK. New global variables
FDT_GLOBAL, CTX_DONE_LIST, CTX_DONE_LIST_SIZE,
CTX_DONE_LIST_LENGTH and CTX_DONE_LIST_LOCK. Remove struct
proc_s. Replace struct wait_item_s.
(_gpgme_fd_table_init): New function.
(_gpgme_fd_table_deinit): Likewise.
(_gpgme_fd_table_put): Likewise.
(set_process_done): Remove function.
(do_select): Take argument FDT. Use that to decide which Fds to select on.
(_gpgme_remove_proc_from_wait_queue): Remove function.
(_gpgme_wait_event_cb): New function.
(_gpgme_wait_one): Likewise.
(_gpgme_register_pipe_handler): Remove function.
(_gpgme_remove_io_cb): Likewise.
(_gpgme_freeze_fd): Remove function.
(_gpgme_thaw_fd): Remove function.
* rungpg.c (struct fd_data_map_s): Add new member TAG.
(struct gpg_object_s): Likewise for STATUS and COLON. Add member IDX to CMD. Add new member IO_CBS.
(close_notify_handler): New variables POSSIBLY_DONE and NOT_DONE. For each I/O callback, check if it should be unregistered. If all callbacks have been unregistered, trigger GPGME_EVENT_DONE. Remove member RUNNING.
(_gpgme_gpg_new): Initialize new members.
(_gpgme_gpg_release): Check PID not RUNNING. Don't call _gpgme_remove_proc_from_wait_queue. Close GPG->CMD.FD if set.
(build_argv): Store away the index instead the file descriptor for CMD.
(_gpgme_gpg_spawn): Use _gpgme_gpg_add_io_cb to register I/O callbacks.
(gpg_status_handler): Change return type to void, remove PID argument, close filedescriptor if EOF or error occurs.
(read_status): Use _gpgme_gpg_add_io_cb instead _gpgme_thaw_fd. Use IO_CBS->remove instead _gpgme_freeze_fd.
(gpg_colon_line_handler): Change return type to void, remove PID argument, close filedescriptor if EOF or error occurs.
(command_cb): Use IO_CBS->remove instead _gpgme_freeze_fd.
* gpgme.h (GpgmeIOCbs): New type.
(GpgmeRegisterIOCbs): Likewise.
(GpgmeRemoveIOCbs): Likewise.
(GpgmeEventIO): Likewise.
(GpgmeEventIOCbs): Likewise.
(struct GpgmeIOCbs): New structure to hold I/O callbacks.
(gpgme_set_op_io_cbs): New prototype.
(gpgme_get_op_io_cbs): Likewise.
* ops.h: New prototype for _gpgme_op_event_cb. Remove prototypes for _gpgme_freeze_fd and _gpgme_thaw_fd. Remove PID argument from _gpgme_data_inbound_handler and _gpgme_data_outbound_handler prototype. Add prototype for _gpgme_op_reset.
Add synchronous argument to _gpgme_decrypt_start prototype.
* io.h: Beautification.
* gpgme.c: Include "wait.h".
   (gpgme_new): Initialize FDT.
   (gpgme_get_io_cbs): Likewise.
   (_gpgme_op_event_cb): Likewise.
* data.c (_gpgme_data_inbound_handler): Change return type to void. Drop PID argument. Close FD on error and EOF.
   (write_mem_data): Don't close FD here ...
   (write_cb_data): ... or here ...
   (_gpgme_data_outbound_handler): ... but here. Change return type to void. Drop PID argument.
* context.h: Include "wait.h".
   (struct gpgme_context_s): New members FDT and IO_CBS.
* op-support.c: New file.
* Makefile.am (libgpgme_la_SOURCES): Add op-support.c.
* ops.h: Add prototype for _gpgme_op_reset().
* decrypt.c (_gpgme_decrypt_start): New argument SYNCHRONOUS. Use _gpgme_op_reset.
   (gpgme_op_decrypt_start): Add synchronous argument.
   (gpgme_op_decrypt): Likewise. Use _gpgme_wait_one instead gpgme_wait.
* delete.c (gpgme_op_delete_start): Rename to ...
   (_gpgme_op_delete_start): ... this. New argument SYNCHRONOUS. Use _gpgme_op_reset. Make function static.
   (gpgme_op_delete_start): Just a wrapper around _gpgme_op_delete_start now.
   (gpgme_op_delete): Add synchronous argument. Use _gpgme_wait_one instead gpgme_wait.
* encrypt.c: Include "wait.h".
   (gpgme_op_encrypt_start): Rename to ...
   (_gpgme_op_encrypt_start): ... this. New argument SYNCHRONOUS. Use _gpgme_op_reset. Make function static.
   (gpgme_op_encrypt_start): Just a wrapper around _gpgme_op_encrypt_start now.
   (gpgme_op_encrypt): Add synchronous argument. Use _gpgme_wait_one instead gpgme_wait.
* encrypt_sign.c (gpgme_op_encrypt_sign_start): Rename to ...
   (_gpgme_op_encrypt_sign_start): ... this. New argument SYNCHRONOUS. Use _gpgme_op_reset. Make function static.
   (gpgme_op_encrypt_sign_start): Just a wrapper around _gpgme_op_encrypt_sign_start now.
   (gpgme_op_encrypt_sign): Add synchronous argument. Use _gpgme_wait_one instead gpgme_wait.
* export.c (gpgme_op_export_start): Rename to ...
   (_gpgme_op_export_start): ... this. New argument SYNCHRONOUS. Use _gpgme_op_reset. Make function static.
(gpgme_op_export_start): Just a wrapper around _gpgme_op_export_start now.

(gpgme_op_export): Add synchronous argument. Use _gpgme_wait_one instead gpgme_wait.

* genkey.c (gpgme_op_genkey_start): Rename to ...
   (_gpgme_op_genkey_start): ... this. New argument SYNCHRONOUS. Use _gpgme_op_reset. Make function static.

(gpgme_op_genkey): Just a wrapper around _gpgme_op_genkey_start now.

(gpgme_op_genkey): Add synchronous argument. Use _gpgme_wait_one instead gpgme_wait.

* import.c (gpgme_op_import_start): Rename to ...
   (_gpgme_op_import_start): ... this. New argument SYNCHRONOUS. Use _gpgme_op_reset. Make function static.

(gpgme_op_import_start): Just a wrapper around _gpgme_op_import_start now.

(gpgme_op_import): Add synchronous argument. Use _gpgme_wait_one instead gpgme_wait.

* keylist.c (gpgme_op_keylist_start): Use _gpgme_op_reset.

(gpgme_op_keylist_ext_start): Likewise.

* sign.c (gpgme_op_sign_start): Rename to ...
   (_gpgme_op_sign_start): ... this. New argument SYNCHRONOUS. Use _gpgme_op_reset. Make function static.

(gpgme_op_sign_start): Just a wrapper around _gpgme_op_sign_start now.

(gpgme_op_sign): Add synchronous argument. Use _gpgme_wait_one instead gpgme_wait.

* trustlist.c (gpgme_op_trustlist_start): Use _gpgme_op_reset.

* verify.c (gpgme_op_verify_start): Rename to ...
   (_gpgme_op_verify_start): ... this. New argument SYNCHRONOUS. Use _gpgme_op_reset. Make function static.

(gpgme_op_verify_start): Just a wrapper around _gpgme_op_verify_start now.

(gpgme_op_verify): Add synchronous argument. Use _gpgme_wait_one instead gpgme_wait.

* engine-gpgsm.c (iocb_data_t): New type.
   (_gpgme_gpgsm_new): Initialize all new members (and drop the old ones).

(close_notify_handler): New variable POSSIBLY_DONE. For each I/O callback, check if it should be unregistered. If all callbacks have been unregistered, trigger GPGME_EVENT_DONE.

(_gpgme_gpgsm_release): Remove variable PID. Use new variable names to close the file descriptors.

(_gpgme_gpgsm_op_decrypt): Use new variable names,
(_gpgme_gpgsm_op_encrypt): Likewise.
(_gpgme_gpgsm_op_genkey): Likewise.
(_gpgme_gpgsm_op_import): Likewise.
(_gpgme_gpgsm_op_keylist): Likewise.
(_gpgme_gpgsm_op_keylist_ext): Likewise.
(_gpgme_gpgsm_op_sign): Likewise.
(_gpgme_gpgsm_op_verify): Likewise.
(gpgsm_status_handler): Drop argument PID. Change return type to void. Close status pipe before returning because of EOF or error.
(_gpgme_gpgsm_start): Use _gpgme_gpgsm_add_io_cb to register callback function.
* engine-gpgsm.h: New prototype for _gpgme_gpgsm_set_io_cbs.
* engine.c (_gpgme_engine_set_io_cbs): New function.
* engine.h: New prototype for _gpgme_engine_set_io_cbs.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_SOURCES): Remove mutex.h.

2002-06-03 Marcus Brinkmann <marcus@g10code.de>

* key.c: Include <ctype.h>.
(_gpgme_key_append_name): Skip one more char when processing escaped char. Submitted by Marc Mutz <mutz@kde.org>. Handle hexadecimal encodings. Also reported by Marc. Thanks!

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* ath.h: Enable the _gpgme_prefix. Fix all those prefix macros.
* posix-sema.c: Use that prefix here.
* posix-io.c: Include "ath.h".
(_gpgme_io_read): Use _gpgme_ath_read instead read.
(_gpgme_io_write): Use _gpgme_ath_write instead write.
(_gpgme_io_waitpid): Use _gpgme_ath_waitpid instead waitpid.
(_gpgme_io_select): Use _gpgme_ath_select instead select.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (ath_components): New variable.
(ath_components_pthread): Likewise.
(ath_components_pth): Likewise.
(system_components): Add ath_components.

* ath.h: New file.
* ath.c: Likewise.
* ath-pthread.c: Likewise.
* ath-pth.c: Likewise.
* posix-sema.c (_gpgme_sema_cs_enter): Rework to use the ATH interface.
* mutex.h: Remove file.

2002-05-30 Werner Koch <wk@gnupg.org>

* key.c (gpgme_key_get_string_attr): Return NULL when asking for an issuer with IDX > 0. We don't support altIssuerNames for now.

2002-05-22 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist_ext): Aehmm, added missing variable definition. Oohh - Marcus was faster.

2002-05-22 Marcus Brinkmann <marcus@gnu.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist_ext): Fix last change.

2002-05-21 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist) (_gpgme_gpgsm_op_keylist_ext): Pass the keylist mode to gpgsm.

2002-05-10 Werner Koch <wk@gnupg.org>

* key.h (gpgme_key_s): Add OTRUST.
* keylist.c (set_ownertrust): New.
(keylist_colon_handler): Get the ownertrust value
* key.c (gpgme_key_get_string_attr,gpgme_key_get_ulong_attr): Return that value.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

* w32-util.c: New static variable GET_PATH_LOCK.
(_gpgme_get_gpg_path): Remove superfluous NULL initializer.
Take lock while determining path.
(_gpgme_get_gpgsm_path): Likewise.
* version.c (do_subsystem_inits): Set DONE to 1 after initialization.
(gpgme_get_engine_info): New variable ENGINE_INFO_LOCK. Take lock while determining engine info.
* rungpg.c (_gpgme_gpg_get_version): New variable GPG_VERSION_LOCK. Take the lock while determining the program version.
* posix-io.c: Include "sema.h".
(_gpgme_io_spawn): New variable FIXED_SIGNALS_LOCK. Take the lock while fixing the signals.
(_gpgme_io_select): Make READFDS and WRITEFDS non-static.
* key.c: Include "sema.h". New globals KEY_CACHE_LOCK and KEY_REF_LOCK.
(capabilities_to_string): Make STRINGS very const.
(_gpgme_key_cache_add): Lock the key cache.
(_gpgme_key_cache_get): Likewise.
(_gpgme_key_ref, gpgme_key_release): Lock the key_ref_lock.
* import.c (append_xml_impinfo): Make IMPORTED_FIELDS and IMPORT_RES_FIELDS very const. Make FIELD and FIELD_NAME a little const.
* engine.c (_gpgme_engine_get_info): New variable ENGINE_INFO_LOCK. Take lock while determining engine info.
* engine-gpgsm.c: Include "sema.h".
(_gpgme_gpgsm_get_version): New variable GPGSM_VERSION_LOCK. Take lock while getting program version.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

* debug.h: New file.
* Makefile.am (libgpgme_la_SOURCES): Add debug.h.
* util.h: Removed all prototypes and declarations related to debugging. Include "debug.h".

* debug.c (debug_level): Comment variable and remove superfluous zero initializer.
(errfp): Likewise.
(_gpgme_debug_enabled): Function removed.
(struct debug_control_s): Definition removed.
(_gpgme_debug_level): Function removed.
(_gpgme_debug_begin): Rewritten to use vasprintf. Accept a printf-style format specification and a variable number of arguments.
(_gpgme_debug_add): Rewritten using vasprintf. Expect that format starts out with "%s" for simplicity.
(_gpgme_debug_end): Rewritten using vasprintf. Do not accept a TEXT argument anymore.

* posix-io.c (_gpgme_io_select): Use new level argument for DEBUG_BEGIN instead explicit if construct.

* debug.c (debug_init): Remove superfluous zero initializer, remove volatile flag of INITIALIZED. Do not use the double-checked locking algorithm, it is fundamentally flawed and will empty your fridge (on a more serious note, despite the volatile flag it doesn't give you the guarantee you would expect, for example on a DEC Alpha or an SMP machine. The volatile only serializes accesses to the volatile variable, but not to the other variables).
2002-05-03 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_new): Redirect any gpgsm error output to /dev/null.

* verify.c (gpgme_get_sig_key): Set the protocol of the listctx.
  * gpgme.c (gpgme_get_protocol): New.

* data.c (gpgme_data_write): Changed type of BUFFER to void*.
  (gpgme_data_read): Ditto.

* verify.c (_gpgme_verify_status_handler): Handle TRUST_* status lines so that a claim can be made without looking up the key.
  (gpgme_get_sig_string_attr): New.
  (gpgme_get_sig_ulong_attr): New.

* gpgme.h (GpgmeAttr): Added GPGME_ATTR_SIG_STATUS.

* rungpg.h: Add new status codes from gpg 1.0.7 and formatted the list to align with the status.h file from gnupg.

* gpgme.h (GpgmeSigStat): Add _GOOD_EXP and _GOOD_EXPKEY.
  * verify.c (_gpgme_verify_status_handler, finish_sig): Handle these new status codes. Store the expiration time

2002-04-27 Werner Koch <wk@gnupg.org>

* gpgme.h (GpgmeData_Encoding): New.
  * data.c (gpgme_data_get_encoding,gpgme_data_set_encoding): New.
  * engine-gpgsm.c (map_input_enc): New. Use it in all local functions where the INPUT command gets send.

2002-04-27 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Close the output descriptor only when we don't need it anymore. Close the message descriptor if we don't need it.

2002-04-26 Werner Koch <wk@gnupg.org>

* Makefile.am (libgpgme_la_LIBADD): Use libtool libraries.

2002-04-25 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_release): Call gpgme_data_release on GPG->cmd_cb_data, not xfree.
2002-04-25 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_new): Set the display, ttyname, ttytype, lc_ctype and lc_messages options in the server.

2002-04-24 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (map_assuan_error): Add new error codes.

2002-04-23 Werner Koch <wk@gnupg.org>

* key.c (gpgme_key_get_ulong_attr): Swapped use of can_encrypt and can_certify to return the requested values.

2002-04-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_get_progress_cb): Allow either return parameter to be NULL.
  (gpgme_get_passphrase_cb): Likewise.

2002-04-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_get_passphrase_cb): New function.
  (gpgme_get_progress_cb): New function.
* gpgme.h: Add new prototypes for gpgme_get_passphrase_cb and gpgme_get_progress_cb.

2002-03-28 Werner Koch <wk@gnupg.org>

* gpgme.h (GpgmeAttr): Add values for issuer and chaining.
* key.h (gpgme_key_s): Add issuer and chaining elements for X509.
* keylist.c (keylist_colon_handler): Store them.
* key.c(gpgme_key_release): Free them.
  (gpgme_key_get_as_xml,gpgme_key_get_string_attr): Print them.

2002-03-26 Werner Koch <wk@gnupg.org>

* Makefile.am (libgpgme_la_SOURCES): Add mutex.h

2002-03-21 Werner Koch <wk@gnupg.org>

* util.h (!HAVE_FOPENCOOKIE]: Make sure off_t and ssize_t are defined.

2002-03-18 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (system_components): New variable, set depending on HAVE_DOSISH_SYSTEM.
(libgpgme_la_SOURCES): Use system_components. Remove `syshdr.h'.
* syshdr.h: File removed.

* posix-io.c: Remove !HAVE_DOSISH_SYSTEM safeguard. Clean up source.
* posix-sema.c: Likewise.
* posix-util.c: Likewise.

* w32-io.c: Remove HAVE_DOSISH_SYSTEM safeguard.
* w32-sema.c: Likewise.
* w32-util.c: Likewise.

* posix-io.c: Include `unistd.h', do not include `syshdr.h'.
* posix-sema.c: Likewise.
* w32-io.c: Include `io.h', do not include `syshdr.h'
* w32-sema.c: Likewise.
* w32-util.c: Likewise.
* data.c: Do not include `syshdr.h'.
* wait.c: Likewise.
* wait.h: Code cleanup.

* mutex.h: New file.
* posix-sema.c: Implement.

2002-03-08 Werner Koch  <wk@gnupg.org>

* util.h !HAVE_FOPENCOOKIE: Fixed type. Thanks to Frank Heckenbach.

2002-03-07 Werner Koch  <wk@gnupg.org>

* gpgme.h (gpgme_op_keylist_ext_start): Add prototype.

2002-03-06 Marcus Brinkmann  <marcus@g10code.de>

* encrypt.c (_gpgme_encrypt_sym_status_handler): New function.
(gpgme_op_encrypt_start): New variable SYMMETRIC, set it if RECP
is null, and if it is set, use _gpgme_encrypt_sym_status_handler
as status handler and run _gpgme_passphrase_start.
* rungpg.c (_gpgme_gpg_op_encrypt): If RECP is zero, do symmetric
encryption.
* engine-gpgsm.c (_gpgme_gpgsm_op_encrypt): If RECP is zero,
return error value.

* rungpg.c (_gpgme_gpg_op_verify): Add "--" argument.

2002-03-03 Marcus Brinkmann  <marcus@g10code.de>

* passphrase.c (_gpgme_passphrase_status_handler): Also set the
error No_Passphrase if only a bad passphrase was provided.
* rungpg.c (_gpgme_gpg_op_verify): If TEXT is of mode
  GPGME_DATA_MODE_IN, construct a command line that stores the
  plaintext in TEXT.
* verify.c (gpgme_op_verify_start): Accept TEXT being
  uninitialized, and in this case interpret SIG as a normal or
  cleartext signature and TEXT as a return data object.
* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Likewise.

2002-02-28 Werner Koch <wk@gnupg.org>

* key.h (subkey_s): New member expires_at.
* keylist.c (keylist_colon_handler): Set it here
* key.c (gpgme_key_get_as_xml,gpgme_key_get_ulong_attr): Return it.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* rungpg.h (_gpgme_gpg_op_keylist_ext): New prototype.
* rungpg.c (_gpgme_gpg_op_keylist_ext): New function.
* engine.h (_gpgme_engine_op_keylist_ext): New prototype.
* engine.c (_gpgme_engine_op_keylist_ext): New function.
* keylist.c (gpgme_op_keylist_ext_start): New function.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add new error code GPGME_Invalid_Recipient.
* encrypt.c (struct encrypt_result_s): New member invalid_recipients,
  rename no_recipients to no_valid_recipients.
  (_gpgme_encrypt_status_handler): Include error for invalid
  recipients.
* engine-gpgsm.c (gpgsm_set_recipients): Change type of first
  argument to GpgsmObject. Use that to report back the status about
  the recipients.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* verify.c (_gpgme_verify_status_handler): Fix the last change.
* verify.c (_gpgme_verify_status_handler): Parse the args line to see if the problem is due to a missing key, and report that back to the user.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* engine.c (_gpgme_engine_op_encrypt_sign): New function.
* engine.h (_gpgme_engine_op_encrypt_sign): New prototype.
* rungpg.c (_gpgme_append_gpg_args_from_signers): New function.
  (_gpgme_gpg_op_sign): Use that new function.
  (_gpgme_gpg_op_encrypt_sign): New function.
* rungpg.h (_gpgme_gpg_op_encrypt_sign): New prototype.
* gpgme.h (gpgme_op_encrypt_sign_start): New prototype.
  (gpgme_op_encrypt_sign): Likewise.
* Makefile.am (libgpgme_la_SOURCES): Add encrypt-sign.c.
* ops.h (_gpgme_encrypt_status_handler): Add prototype.
  (_gpgme_gpg_op_encrypt_sign): Likewise.
* sign.c (sign_status_handler): Rename to ...
  (_gpgme_gpg_op_encrypt_sign): ... this and make non-static.
* encrypt.c (encrypt_status_handler): Rename to ...
  (_gpgme_encrypt_status_handler): ... this and make non-static.
* encrypt.c (gpgme_op_encrypt_start): Use new status handler name.
* sign.c (gpgme_op_encrypt_start): Likewise.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* context.h (struct gpgme_context_s): New member include_certs.
* gpgme.h (gpgme_set_include_certs): Add prototype.
  (gpgme_get_include_certs): Likewise.
* gpgme.c (gpgme_set_include_certs): New function.
  (gpgme_get_include_certs): Likewise.
  (gpgme_new): Set include_certs to 1 (the default).
* engine.c (_gpgme_engine_op_sign): Accept new argument include_certs, and pass it to _gpgme_gpgsm_op_sign.
* engine.h (_gpgme_engine_op_sign): Likewise for prototype.
* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Accept new argument include_certs and handle it.
* engine-gpgsm.h (_gpgme_gpgsm_start): Add new argument include_certs.
* sign.c (gpgme_op_sign_start): Add new argument to _gpgme_engine_op_sign call.

2002-02-14 Werner Koch <wk@gnupg.org>

* keylist.c (gpgme_op_keylist_start): Do not use a verbose listing.

2002-02-13 Werner Koch <wk@gnupg.org>
* vasprintf.c, fopencookie.c: Add replacement functions.
* util.h: Add prototypes for them.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_assuan_simple_command): Return 0 if we reach the end of the function.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* genkey.c (gpgme_op_genkey_start): Fix logic in validity check.
(gpgme_op_genkey_start): Skip newlines after opening tag.

* engine-gpgsm.c (_gpgme_gpgsm_start): Remove cruft.

2002-02-08 Marcus Brinkmann <marcus@g10code.de>

* genkey.c (gpgme_op_genkey_start): Allow PUBKEY and SECKEY to be set, and pass them down to the crypto engine.
* engine-gpgsm.h (_gpgme_gpgsm_start): New arguments PUBKEY and SECKEY.
* engine.h: Likewise.
* rungpg.h (_gpgme_gpg_spawn): Likewise.
* engine.c (_gpgme_engine_op_genkey): Likewise. Use those arguments.
* rungpg.c (_gpgme_gpg_op_genkey): Likewise. Complain if those arguments are set.

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist): Beautify comment.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_op_keylist): Remove handling of keylist mode (for now).

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* wait.c (gpgme_wait): Add new argument STATUS, in which the status of the returned context is returned.
(_gpgme_wait_on_condition): Rework the function a bit, to make it aware of cancelled processes, and to allow to use gpgme_wait with CTX being NULL (as documented in the source).
(struct proc_s): New member REPORTED.
* gpgme.h: Fix prototype.
* verify.c (gpgme_op_verify): Fix use of gpgme_wait.
* sign.c (gpgme_op_sign): Likewise.
* import.c (gpgme_op_import): Likewise.
* genkey.c (gpgme_op_genkey): Likewise.
* export.c (gpgme_op_export): Likewise.
* encrypt.c (gpgme_op_encrypt): Likewise.
* delete.c (gpgme_op_delete): Likewise.
* decrypt-verify.c (gpgme_op_decrypt_verify): Likewise.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_keylist_mode): Possibly return an error value.
  (gpgme_get_keylist_mode): New function.
  (gpgme_new): Set the default for keylist_mode member of CTX.

* gpgme.h (gpgme_set_keylist_mode): Fix prototype.
  (gpgme_get_keylist_mode): New prototype.
  (GPGME_KEYLIST_MODE_LOCAL): New macro.
  (GPGME_KEYLIST_MODE_EXTERN): Likewise..

2002-02-02 Marcus Brinkmann <marcus@g10code.de>

This patch has gotten a bit large... mmh. The main thing that happens here is that error values are now not determined in the operation function after gpgme_wait completed, but in the status handler when EOF is received. It should always be the case that either an error is flagged or EOF is received, so that after a gpgme_wait you should never have the situation that no error is flagged and EOF is not received. One problem is that the engine status handlers don't have access to the context, a horrible kludge works around this for now. All errors that happen during a pending operation should be caught and reported in ctx->error, including out-of-core and cancellation. This rounds up neatly a couple of loose ends, and makes it possible to pass up any errors in the communication with the backend as well. As a bonus, there will be a function to access gpgme->wait, so that the operations can truly be implemented with their _start function.

* engine-gpgsm.c (gpgsm_status_handler): Horrible kludge to report error back to the context.
* rungpg.c (gpg_status_handler): Same horrible kludge applied here.

* engine-gpgsm.c (gpgsm_assuan_simple_command): Add error checking.

* wait.c (_gpgme_wait_on_condition): If canceled, set CTX->error to a value indication that.

* verify.c (add_notation): Set error, not out_of_core.
  (finish_sig): Likewise.
  (gpgme_op_verify_start): Don't clear out_of_core.
(_gpgme_verify_status_handler): At EOF, clean up the notation data.
(gpgme_op_verify): And don’t do it here.

* trustlist.c (trustlist_status_handler): Check error, not out_of_core.
(gpgme_op_trustlist_start): Don’t clear out_of_core.
(gpgme_op_trustlist_next): Check error, not out_of_core.
(gpgme_op_trustlist_end): Likewise.

* ops.h (test_and_allocate_result): New macro.
(_gpgme_passphrase_result): Remove prototype.
* delete.c (gpgme_op_delete): Return error from context.
(delete_status_handler): Use macro test_and_allocate_result.
Perform error checking at EOF.
(gpgme_op_delete_start): Release result.
* passphrase.c (_gpgme_passphrase_status_handler): Use macro
test_and_allocate_result, and perform error checking here.
(_gpgme_passphrase_result): Function removed.
* sign.c (gpgme_op_sign_start): Do not set out_of_core to zero.
(gpgme_op_sign): Just return the error value from the context.
(sign_status_handler): Only progress if no error is set yet. If
we process an EOF, set the resulting error value (if any).
* decrypt.c (_gpgme_decrypt_result): Function removed.
(create_result_struct): Function removed.
(_gpgme_decrypt_status_handler): Use macro test_and_allocate_result,
calculate error on EOF, do not progress with errors.
(gpgme_op_decrypt_start): Do not set out_of_core to zero.
(gpgme_op_decrypt): Just return the error value from the context.
* encrypt.c (encrypt_status_handler): Perform the error checking
here.
(gpgme_op_encrypt_start): Do not clear out_of_core.
* export.c (export_status_handler): Return if error is set in context.
(gpgme_op_export_start): Release result.
(gpgme_op_export): Return error from context.
* decrypt-verify.c (gpgme_op_decrypt_verify): Return the error in
the context.
* genkey.c (genkey_status_handler): Use macro
test_and_allocate_result. Perform error checking at EOF.
(gpgme_op_genkey): Just return the error from context.
* import.c (gpgme_op_import): Return the error from context.
(import_status_handler): Use macro test_and_allocate_result.
* keylist.c (gpgme_op_keylist_start): Do not clear out_of_core.
(gpgme_op_keylist_next): Return error of context.
(keylist_colon_handler): Set error instead out_of_code.
(finish_key): Likewise.

* context.h: Remove member out_of_core, add member error.
* gpgme.c (_gpgme_release_result): Clear error flag.
* engine.h (_gpgme_engine_get_error): New prototype.
* engine.c (_gpgme_engine_get_error): New function.
* engine-gpgsm.c (_gpgme_gpgsm_get_error): New function.

* engine-gpgsm.c (map_assuan_error): New function.
  (gpgsm_assuan_simple_command): Change return type to GpgmeError,
  use the new function to map error values.
  (gpgsm_set_fd): Change return type tp GpgmeError.
  (_gpgme_gpgsm_op_decrypt): Change type of ERR to GpgmeError.
  (gpgsm_set_recipients): Likewise. Change type of return value
  equivalently. Adjust error values.
  (_gpgme_gpgsm_op_import): Likewise.
  (_gpgme_gpgsm_op_sign): Likewise.
  (struct gpgsm_object_s): New member error.
  (gpgsm_status_handler): Set error if error occurs. Determine
  error number from ERR line received. If assuan_read_line fails,
  terminate the connection.

2002-02-01 Marcus Brinkmann  <marcus@g10code.de>

* Makefile.am (MOSTLYCLEANFILES): New variable.

2002-02-01 Marcus Brinkmann  <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_status_handler): At error, terminate the
  connection to the server.

2002-01-31 Marcus Brinkmann  <marcus@g10code.de>

* rungpg.h: Add STATUS_KEY_CREATED.

* progress.c: New file.
* Makefile.am (libgpgme_la_SOURCES): Add progress.c.

* genkey.c (genkey_status_handler): Use
  _gpgme_progress_status_handler. Add check for status.
  (struct genkey_result_s): New structure.
  (_gpgme_release_genkey_result): New function.
  (gpgme_op_genkey): Check for error.
  * gpgme.c (_gpgme_release_result): Call
    _gpgme_release_genkey_result.
  * ops.h (_gpgme_release_genkey_result): Add prototype.
  * types.h (GenKeyResult): New type.
  * context.h (gpgme_context_s): Add GenKeyResult to member result.

2002-01-30 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.c (_gpgme_release_result): Call
_gpgme_release_delete_result.
* ops.h (_gpgme_release_delete_result): Add prototype.
* types.h (DeleteResult): New type.
* context.h (gpgme_context_s): Add DeleteResult to member result.

* delete.c (enum delete_problem): New type.
 (struct delete_result_s): New structure.
 (_gpgme_release_delete_result): New function.
 (delete_status_handler): Implement more status codes.
 (gpgme_op_delete): Return error on failure.

* import.c (MAX_IMPORTED_FIELDS): Bump up to 14.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* import.c (struct import_result_s): New structure.
 (_gpgme_release_import_result): New function.
 (append_xml_impinfo): Likewise.
 (import_status_handler): Implement.
* gpgme.c (_gpgme_release_result): Add call to
 _gpgme_release_import_result.
* ops.h (_gpgme_release_import_result): Add prototype.
* types.h (ImportResult): New type.
* context.h (gpgme_context_s): Add ImportResult to member result.

* encrypt.c (gpgme_op_encrypt): Code clean up.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add lots of comment and fix the formatting. Add
gpgme_trustlist_end prototype.

2002-01-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add new type GpgmeIdleFunc. Change type of
gpgme_register_idle to return and accept this type.
* wait.c (gpgme_register_idle): Fix type.
Save and return old value of idle_function.

2002-01-29 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist): Implement secret only mode.

* keylist.c (keylist_colon_handler): Add support for the new "crs"
record type.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>
* engine-gpgsm.c (_gpgme_gpgsm_release): Call assuan_disconnect, not assuan_pipe_disconnect.

* Makefile.am (libgpgme_la_LIBADD): Change to link assuan and jnlib (needed by assuan) statically into libgpgme. Linking a static library into a shared library this way is not portable.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GpgmePassphraseCb): Change type of R_HD from void* to void**.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* data.c (gpgme_data_new_from_filepart): Change type of LENGTH from off_t to size_t.
* gpgme.h: Likewise.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* wait.c (_gpgme_wait_on_condition): If the process finished, reset the pending flag. Also if the operation was cancelled.

(struct proc_s): Rename READY to DONE.
(wait_item_s): Likewise.
(set_process_ready): Rename to ...
(set_process_done): ... this.
(_gpgme_remove_proc_from_wait_queue): Call set_process_done instead set_process_ready.
(_gpgme_wait_on_condition): Likewise.
(do_select): Rename READY to DONE.

* verify.c (gpgme_op_verify): Do not set pending to zero here.
* sign.c (gpgme_op_sign): Likewise.
* import.c (gpgme_op_import): Likewise.
* genkey.c (gpgme_op_genkey): Likewise.
* export.c (gpgme_op_export): Likewise.
* encrypt.c (gpgme_op_encrypt): Likewise.
* delete.c (gpgme_op_delete): Likewise.
* decrypt-verify.c (gpgme_op_decrypt_verify): Likewise.
* decrypt.c (gpgme_op_decrypt): Likewise.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* export.c: Cleanup.

2002-01-15 Marcus Brinkmann <marcus@g10code.de>
* trustlist.c: Various source clean ups.
  (my_isdigit): Removed.
  (gpgme_op_trustlist_end): New function.

2002-01-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c: Various source clean ups, like renaming C to CTX where
  appropriate.
  (gpgme_new): Clear R_CTX before starting the work.
  (my_isdigit): Removed.
  (my_isxdigit): Likewise.

* data.c: Various source clean ups.
  (gpgme_data_new_from_mem): Check BUFFER after clearing R_DH.
  (gpgme_data_new_with_read_cb): Similar for READ_CB.
  (gpgme_data_new_from_file): Loop over fread while EINTR.
  (gpgme_data_new_from_filepart): Rediddled a bit. Allow LENGTH to
  be zero. Loop over fread while EINTR.

  (my_isdigit): Removed.
  (my_isxdigit): Likewise.

2001-12-21 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_new): Replace General_Error with
  Pipe_Error where appropriate.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* engine.c: Include `string.h'. Reported by Stphane Corthsy.

* version.c (get_engine_info): Remove prototype.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_new): New variable CHILD_FDS.
  Fill it with the servers fds, and pass it to assuan_pipe_connect.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_op_keylist_end): New function.
* gpgme.h (gpgme_op_keylist_end): New prototype.

* engine.h (gpgme_engine_check_version): Move prototype to ...
* gpgme.h (gpgme_engine_check_version): ... here.

* genkey.c (gpgme_op_genkey_start): Remove unused variable.
2001-12-18  Marcus Brinkmann  <marcus@g10code.de>

* version.c (gpgme_get_engine_info): Reimplemented.
  (gpgme_check_engine): Reimplemented.
  (_gpgme_compare_versions): Return NULL if MY_VERSION is NULL.

* engine.c: Include `io.h'.
  (gpgme_engine_get_info): New function.
* engine.h (gpgme_engine_check_version, _gpgme_engine_get_info):
  Add prototype.

2001-12-18  Marcus Brinkmann  <marcus@g10code.de>

* rungpg.c (struct reap_s, reap_list, reap_list_lock): Moved to ...
* engine.c (struct reap_s, reap_list, reap_list_lock): ... here.
  Include `time.h', `sys/types.h', `assert.h', and `sema.h'.

* rungpg.c (_gpgme_engine_add_child_to_reap_list): New function.
  (do_reaping, _gpgme_gpg_housecleaning): Moved to ...
* engine.c (do_reaping, _gpgme_engine_housecleaning): ... here.
* rungpg.c (_gpgme_gpg_release): Replace code that is now in its
  own function by call to _gpgme_engine_add_child_to_reap_list().

* wait.c: Include `engine.h'.
  (run_idle): Call _gpgme_engine_housecleaning(), not
  _gpgme_gpg_housecleaning().

2001-12-18  Marcus Brinkmann  <marcus@g10code.de>

* key.c (_gpgme_key_append_name): Append, not prepend, the uid.
  Initialize the next field of the uid structure.
  (gpgme_key_get_as_xml): Do not list last uid first.

2001-12-17  Marcus Brinkmann  <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_set_colon_line_handler): New
  function [!ENABLE_GPGSM].

2001-12-14  Marcus Brinkmann  <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Put TEXT into
  message_data, not SIG.
  (_gpgme_gpgsm_op_sign): Use `--detached', not `--detach'.

* sign.c (sign_status_handler): Call
  _gpgme_passphrase_status_handler early.
* engine-gpgsm.c: Revert last change.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_status_handler): Freeze the output file handler when ending this operation, otherwise the wait function will sit on it.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (struct gpgsm_object_s): New member colon.attic.
  (_gpgme_gpgsm_new): Initialize some more members.
  (_gpgme_gpgsm_release): Free the colon line handler's attic line.
  (gpgsm_status_handler): Rework the inline-data processing.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_spawn): Do not add the fds to the child list that are not dup'ed, for those the close-on-exec flag is set now.
* version.c (_gpgme_get_program_version): Remove first entry in CFD, as the close-on-exec flag is now set for this fd.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_encrypt): Do not add `armor' option to `ENCRYPT'.
* engine-gpgsm.c (gpgsm_set_recipients): Free LINE when returning successfully.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (close_notify_handler): New function.
  (_gpgme_gpgsm_new): Manage the file descriptors a bit differently. Do not set close-on-exec flags.
  (_gpgme_gpgsm_op_decrypt): Do not set message_fd to -1, this is done by the close handler.
  (_gpgme_gpgsm_op_encrypt): Likewise.
  (_gpgme_gpgsm_op_import): Likewise (also for output_fd).
  (_gpgme_gpgsm_op_keylist): Likewise (also for input_fd and output_fd).
  (_gpgme_gpgsm_op_sign): Likewise.
  (_gpgme_gpgsm_op_verify): Likewise, but for output_fd.

* posix-io.c (_gpgme_io_pipe): Set the close-on-exec flag for the non-inherited file descriptor index of the pipe.

2001-12-13 Werner Koch <wk@gnupg.org>
* engine-gpgsm.c (_gpgme_gpgsm_set_colon_line_handler): New. (gpgsm_status_handler): Pass datalines to a colon handler
* engine.c (_gpgme_engine_set_colon_line_handler): Set the colon handler for gpgsm.


* keylist.c (keylist_colon_handler): Handle "crt" records
* key.h (gpgme_key_s): Add an x509 flag.
* key.c (parse_x509_user_id): New. (_gpgme_key_append_name): Handle x.509 names.

2001-12-05 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_status_handler): Make it work with current version of assuan.

2001-12-05 Marcus Brinkmann <marcus@g10code.de>


2001-12-05 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_op_keylist_next): Set pending to 0 if EOF occurs.

2001-11-26 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Fix stupid typo.

2001-11-24 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_status_handler): Don't break if bsearch fails. Deal with assuan read line returning more than one line (for now).
2001-11-23 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Implement it according to the current protocol definition.

2001-11-23 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_new): Set CLOEXEC flag for parent ends of the pipe.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Include stdlib.h and string.h. Also include, for now, rungpg.h and status-table.h.
(gpgsm_status_handler): Implement more of the status handler.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* engine.c (_gpgme_engine_op_decrypt): Implement CMS case.
(_gpgme_engine_op_delete): Likewise.
(_gpgme_engine_op_encrypt): Likewise.
(_gpgme_engine_op_export): Likewise.
(_gpgme_engine_op_genkey): Likewise.
(_gpgme_engine_op_keylist): Likewise.
(_gpgme_engine_op_sign): Likewise.
(_gpgme_engine_op_trustlist): Likewise.

* engine-gpgsm.c (_gpgme_gpgsm_op_encrypt): New function.
(gpgsm_assuan_simple_command): Likewise.
(gpgsm_set_recipients): Likewise.
(gpgsm_set_fd): Reimplement using gpgsm_assuan_simple_command.
(_gpgme_gpgsm_op_delete): New function.
(_gpgme_gpgsm_op_export): Likewise.
(_gpgme_gpgsm_op_genkey): Likewise.
(_gpgme_gpgsm_op_sign): Likewise.
(_gpgme_gpgsm_op_keylist): Likewise.
(_gpgme_gpgsm_op_trustlist): Likewise.
(_gpgme_gpgsm_release): Release command.
(_gpgme_gpgsm_release): Allocate command.
(_gpgme_gpgsm_op_import): Likewise.
(gpgsm_status_handler): Also treat 'ERR' strings as EOF.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_set_protocol): New prototype.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>
* engine-gpgsm.c (_gpgme_gpgsm_op_decrypt): New function.
(_gpgme_gpgsm_op_import): Likewise.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Shuffle around header inclusion a bit, to still keep them separate.
(_gpgme_set_status_handler) ![ENABLE_GPGSM]: New function.

2001-11-22 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c: Include more headers so that NULL and mk_error is defined even with an undefined GPGSM_PATH.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_inbound_handler, write_mem_data, write_cb_data, gpg_outbound_handler): Moved to ...
* data.c (_gpgme_data_inbound_handler, write_mem_data, write_cb_data, _gpgme_data_outbound_handler): ... here. Make the _gpgme_* ones non-static.
* data.c: Include io.h.

* ops.h (_gpgme_data_inbound_handler): New prototype.
(_gpgme_data_outbound_handler): Likewise.
(_gpgme_gpg_spawn): Use these new functions.


* engine-gpgsm.c (struct gpgsm_object_s): New members input_fd, input_data, output_fd, output_data, message_fd, message_data, command and status.
(_gpgme_gpgsm_new): Open input, output and message pipes before connecting to the client. Close server’s ends afterwards.
(_gpgme_gpgsm_release): Close open file descriptors. Remove server process from wait queue.

* engine.c (_gpgme_engine_start): Implement for GPGME_PROTOCOL_CMS.
(_gpgme_engine_set_status_handler): Likewise.
(_gpgme_engine_op_verify): Likewise.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

* context.h: Do not include rungpg.h, but engine.h.
(struct gpgme_context_s): Replace member gpg with engine.
* gpgme.c (gpgme_release): Release engine, not gpg.

* recipient.c (_gpgme_append_gpg_args_from_recipients): Function moved ...
* rungpg.c (_gpgme_append_gpg_args_from_recipients): ... here. Make static, change order of arguments, and return an error value.
* ops.h (_gpgme_append_gpg_args_from_recipients): Removed prototype.

* rungpg.h (_gpgme_gpg_op_verify): Add prototype.
(_gpgme_gpg_op_encrypt): Likewise.
(_gpgme_gpg_op_decrypt): Likewise.
(_gpgme_gpg_op_delete): Likewise.
(_gpgme_gpg_op_export): Likewise.
(_gpgme_gpg_op_genkey): Likewise.
(_gpgme_gpg_op_import): Likewise.
(_gpgme_gpg_op_keylist): Likewise.
(_gpgme_gpg_op_sign): Likewise.
(_gpgme_gpg_op_trustlist): Likewise.
* rungpg.c (_gpgme_gpg_op_verify): New function.
(_gpgme_gpg_op_encrypt): Likewise.
(_gpgme_gpg_op_decrypt): Likewise.
(_gpgme_gpg_op_delete): Likewise.
(_gpgme_gpg_op_export): Likewise.
(_gpgme_gpg_op_genkey): Likewise.
(_gpgme_gpg_op_import): Likewise.
(_gpgme_gpg_op_keylist): Likewise.
(_gpgme_gpg_op_sign): Likewise.
(_gpgme_gpg_op_trustlist): Likewise.

* engine.h (_gpgme_engine_set_status_handler): Add prototype.
(_gpgme_engine_set_command_handler): Likewise.
(_gpgme_engine_set_colon_line_handler): Likewise.
(_gpgme_engine_op_decrypt): Likewise.
(_gpgme_engine_op_delete): Likewise.
(_gpgme_engine_op_encrypt): Likewise.
(_gpgme_engine_op_export): Likewise.
(_gpgme_engine_op_genkey): Likewise.
(_gpgme_engine_op_import): Likewise.
(_gpgme_engine_op_keylist): Likewise.
(_gpgme_engine_op_sign): Likewise.
(_gpgme_engine_op_trustlist): Likewise.
(_gpgme_engine_start): Likewise.
* engine.c (_gpgme_engine_set_status_handler): New function.
(_gpgme_engine_set_command_handler): Likewise.
(_gpgme_engine_set_colon_line_handler): Likewise.
(_gpgme_engine_op_decrypt): Likewise.
(_gpgme_engine_op_delete): Likewise.
(_gpgme_engine_op_encrypt): Likewise.
(_gpgme_engine_op_export): Likewise.
(_gpgme_engine_op_genkey): Likewise.
(_gpgme_engine_op_import): Likewise.
(_gpgme_engine_op_keylist): Likewise.
(_gpgme_engine_op_sign): Likewise.
(_gpgme_engine_op_trustlist): Likewise.
(_gpgme_engine_op_verify): Likewise.
(_gpgme_engine_start): Likewise.

* verify.c (gpgme_op_verify_start): Reimplement in terms of above functions.
* encrypt.c (gpgme_op_encrypt_start): Likewise.
* decrypt.c (_gpgme_decrypt_start): Likewise.
* passphrase.c (_gpgme_passphrase_start): Likewise.
* keylist.c (gpgme_op_keylist_start): Likewise.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* types.h: Add types EngineObject and GpgsmObject.

* Makefile.am (libgpgme_la_SOURCES): Add engine-gpgsm.h, engine-gpgsm.c, engine.h and engine.c.
  * engine.h: New file.
  * engine.c: Likewise.
  * engine-gpgsm.h: Likewise.
  * engine-gpgsm.c: Likewise.

* rungpg.c (_gpgme_gpg_get_version): New function.
(_gpgme_gpg_check_version): Likewise.
* rungpg.h: Add prototypes for _gpgme_gpg_get_version and _gpgme_gpg_check_version.

* version.c (compare_versions): Rename to ...
(_gpgme_compare_versions): ... this. Make non-static.
(gpgme_check_version): Use _gpgme_compare_versions rather than compare_versions.
(gpgme_check_engine): Likewise.
* ops.h (_gpgme_get_program_version): Add prototype.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>
* Makefile.am (libgpgme_la_INCLUDES): Remove obsolete directive.
(AM_CPPFLAGS): New directive [BUILD_ASSUAN].
(libgpgme_la_LIBADD): Likewise.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* version.c: Remove global variables lineno and tmp_engine_version.
   (version_handler): Removed.
   (_gpgme_get_program_version): New function.
   (get_engine_info): Don't use context and version_handler, but _gpgme_get_program_version.
* ops.h (_gpgme_get_program_version): Add prototype for _gpgme_get_program_version (we expect to use it elsewhere soon).

2001-11-18 Marcus Brinkmann <marcus@g10code.de>

* version.c (get_engine_info): If GnuPG is not available, return an error message.
* posix-util.c (_gpgme_get_gpg_path): Allow GPG_PATH to be undefined.
   (_gpgme_get_gpgsm_path): New function.
* w32-util.c (find_program_in_registry): New static function.
   (_gpgme_get_gpg_path): Allow GPG_PATH to be undefined. Rework to use find_program_in_registry.
   (_gpgme_get_gpgsm_path): New function.
   (util.h): Prototype _gpgme_get_gpgsm_path).
* rungpg.c (_gpgme_gpg_spawn): Verify that _gpgme_get_gpg_path() returns non-null.

2001-11-16 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_SOURCES): Add decrypt-verify.c.
* types.h: Add decrypt-verify types.
* ops.h: Likewise.
* context.h: Add result type for decrypt-verify.
* gpgme.h: Add decrypt-verify prototypes.

* decrypt.c (decrypt_status_handler): Renamed to ...
   (_gpgme_decrypt_status_handler): ... this. Make non-static.
   (_gpgme_decrypt_start): New function, derived from gpgme_op_decrypt_start.
   (gpgme_op_decrypt_start): Reimplement in terms of _gpgme_decrypt_start.
   (_gpgme_decrypt_result): New function to retrieve error value.
   (gpgme_op_decrypt): Use _gpgme_decrypt_result.
* ops.h: Add prototypes for new functions.
* verify.c (verify_status_handler): Renamed to ...
   (_gpgme_verify_status_handler): ... this. Make non-static.
   (gpgme_op_verify_start): Use new function name.
   (intersect_stati): Renamed to ...
   (_gpgme_intersect_stati): ... this. Make non-static.
   (gpgme_op_verify): Use new name.
* ops.h: Add prototypes for new functions.

2001-11-16 Marcus Brinkmann <marcus@g10code.de>

* passphrase.c: New file.
* Makefile.am (libgpgme_la_SOURCES): Add passphrase.c.
* ops.h (_gpgme_passphrase_result): Add prototypes from passphrase.c.
* types.h: Likewise.
* context.h: Add member passphrase to result.
* gpgme.c (_gpgme_release_result): Release passphrase member.

* decrypt.c: Some formatting and variable name changes (like CTX instead C).
   (struct decrypt_result_s): Remove members now found in passphrase result.
   (_gpgme_release_decrypt_result): Don't release removed members.
   (decrypt_status_handler): Call _gpgme_passphrase_status_handler,
   and don't handle the cases caught there.
   (command_handler): Removed.
   (gpgme_op_decrypt_start): Don't set command handler, but invoke
   _gpgme_passphrase_start which does it.
   (gpgme_op_decrypt): Invoke _gpgme_passphrase_result and drop the
   cases covered by it.

* sign.c Some formatting and variable name changes (like CTX instead C).
   (struct sign_result_s): Remove members now found in passphrase result.
   (_gpgme_release_sign_result): Don't release removed members.
   (sign_status_handler): Call _gpgme_passphrase_status_handler,
   and don't handle the cases caught there.
   (command_handler): Removed.
   (gpgme_op_sign_start): Don't set command handler, but invoke
   _gpgme_passphrase_start which does it.
   (gpgme_op_sign): Invoke _gpgme_passphrase_result and drop the
   cases covered by it.

2001-11-15 Marcus Brinkmann <marcus@g10code.de>

* decrypt.c (command_handler): Fix last change.
2001-11-15 Marcus Brinkmann <marcus@g10code.de>

* verify.c (_gpgme_release_verify_result): Rename RES to RESULT. 
  Rename R2 to NEXT_RESULT. 
  (intersect_stat): Rename RES to RESULT. 
  (gpgme_get_sig_status): Likewise. Do not check return_type, but 
  the member verify of result.  
  (gpgme_get_sig_key): Likewise. 

* sign.c (_gpgme_release_sign_result): Rename RES to RESULT. If 
  RESULT is zero, return.  
  (sign_status_handler, command_handler): Do not check return_type, 
  but the member sign of result.  
  (gpgme_op_sign): Likewise. Drop assertion. 

* encrypt.c (_gpgme_release_encrypt_result): Rename RES to RESULT. 
  If RESULT is zero, return.  
  (encrypt_status_handler): Do not check return_type, but the member 
  encrypt of result.  
  (gpgme_op_encrypt): Likewise. Drop assertion. 

* decrypt.c (_gpgme_release_decrypt_result): Rename RES to RESULT. 
  (create_result_struct): Do not set result_type.  
  (command_handler, decrypt_status_handler): Do not check 
  return_type, but the member decrypt of result. 
  (gpgme_op_decrypt): Likewise. Drop assertion. 

* context.h (enum ResultType): Removed. 
  (struct gpgme_context_s): Remove member result_type. 
  (struct result): Replaces union result. 
* gpgme.c: Include string.h. 
  (_gpgme_release_result): Release all members of c->result, which 
  is now a struct. Zero out all members of the struct afterwards. 

2001-11-11 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_release): Release GPG->cmd.cb_data. 
  Release all members of the list GPG->arglist. 
  Reported by Michael Schmidt <mschmidt@cs.uni-sb.de>. 

2001-11-02 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (pimode_copy): Change type of NBYTES to size_t. 

* key.c: Include string.h. 
* data.c: Likewise. 
* recipient.c: Likewise.
2001-10-29 Marcus Brinkmann <marcus@g10code.de>

* context.h: New member signers_len.
* signers.c (gpgme_signers_clear): Require that signers are non-NULL with assertion. Use signers_len to determine how much keys to release. Add documentation.
* signers.c (gpgme_signers_add): Use signers_len to determine if the buffer is large enough. Use xtryrealloc rather than xtrymalloc and copying. Add documentation.
* signers.c (gpgme_signers_enum): Use signers_len to determine if key is available. Add documentation.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* data.c (_gpgme_data_append): Check if LENGTH is smaller than ALLOC_CHUNK, not DH->length.

2001-10-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_protocol): Fix last change.

2001-10-15 Werner Koch <wk@gnupg.org>

* gpgme.h (GpgmeProtocol): New.
  * gpgme.c (gpgme_set_protocol): New.

2001-09-26 Werner Koch <wk@gnupg.org>

* gpgme.c (gpgme_set_passphrase_cb): Ignore a NULL context.

2001-09-17 Werner Koch <wk@gnupg.org>

* keylist.c (finish_key): Shortcut for no tmp_key. Changed all callers to use this function without a check for tmp_key.

* keylist.c (gpgme_op_keylist_next): Reset the key_cond after emptying the queue. Bug reported by Stphane Corthsy.

2001-09-12 Werner Koch <wk@gnupg.org>

* data.c (gpgme_data_rewind): Allow rewind for callbacks.

2001-09-07 Werner Koch <wk@gnupg.org>

* runpgp.h: Add NO_RECP.
* encrypt.c (encrypt_status_handler): Take on No_RECP.
(gpgme_op_encrypt): Better error return.

* verify.c (verify_status_handler): Take on NODATA.

2001-09-03 Werner Koch <wk@gnupg.org>

* rungpg.h: Added STATUS_INV_RECP.
* gpgme.c (_gpgme_release_result): Add support for new EncryptResult object.
* encrypt.c (append_xml_encinfo): New.
(encrypt_status_handler): Add some status parsing.
(_gpgme_release_encrypt_result): New.

2001-08-29 Werner Koch <wk@gnupg.org>

* recipient.c (gpgme_recipients_release): Free the list. By Timo.

* keylist.c (keylist_colon_handler): Do a finish key if we receive an EOF here. This is probably the reason for a lot of bugs related to keylisting. It is so obvious. Kudos to Enno Cramer for pointing that out.

2001-08-28 Werner Koch <wk@gnupg.org>

* gpgme.c, gpgme.h (gpgme_get_op_info): New.
(_gpgme_set_op_info): New.
(_gpgme_release_result): Reset the op_info here.
* sign.c (append_xml_siginfo): New.
(sign_status_handler): Store the sig create information.

2001-07-31 Werner Koch <wk@gnupg.org>

* encrypt.c (gpgme_op_encrypt): Hack to detect no valid recipients.

2001-07-30 Werner Koch <wk@gnupg.org>

* gpgme.c (gpgme_get_armor,gpgme_get_textmode): New.

* rungpg.c (build_argv): Disable armor comments
* w32-io.c (build_commandline): Need to add quotes here

2001-07-24 Werner Koch <wk@gnupg.org>

* data.c (gpgme_data_read): Add a a way to return the available bytes.

2001-07-23 Werner Koch <wk@gnupg.org>

* util.c: Removed stpcpy() because we use the version from jnlib.
2001-07-19  Werner Koch  <wk@gnupg.org>

* mkstatus: Define the collating sequence for sort.

2001-06-26  Werner Koch  <wk@gnupg.org>

* rungpg.h: Add STATUS_UNEXPECTED as suggested by Timo.

2001-06-15  Werner Koch  <wk@gnupg.org>

* keylist.c (set_userid_flags): Fixed the assigned values. Kudos
to Timo for pointing this out.

2001-06-01  Werner Koch  <wk@gnupg.org>

* debug.c (_gpgme_debug_begin): Fixed a /tmp race. Noted by
Johannes Poehlmann.

2001-05-28  Werner Koch  <wk@gnupg.org>

* version.c (gpgme_check_engine): Stop version number parsing at
the opening angle and not the closing one. By Tommy Reynolds.

2001-05-01  Jos Carlos Garca Sogo <jose@jaimedelamo.eu.org>

* encrypt.c (gpgme_op_encrypt_start): Deleted the assert ( !c->gpg )
line, because it gave an error if another operation had been made
before using the same context.

* decrypt.c (gpgme_op_decrypt_start): The same as above. Also added
one line to release the gpg object in the context (if any).

2001-04-26  Werner Koch  <wk@gnupg.org>

* key.c, key.h (_gpgme_key_cache_init): New.
(_gpgme_key_cache_add): New.
(_gpgme_key_cache_get): New.
* version.c (do_subsystem_inits): Init the cache.
* keylist.c (finish_key): Put key into the cache
* verify.c (gpgme_get_sig_key): First look into the cache.

2001-04-19  Werner Koch  <wk@gnupg.org>

* keylist.c (parse_timestamp): Adjusted for the changed
--fixed-list-mode of gpg 1.0.4h.

2001-04-05  Werner Koch  <wk@gnupg.org>
* verify.c (gpgme_op_verify_start): Enabled pipemode for detached sigs.

2001-04-04 Werner Koch <wk@gnupg.org>

* w32-io.c (_gpgme_io_select): Don't select on the writer if there are still bytes pending. Timo found this not easy to track down race condition.

2001-04-02 Werner Koch <wk@gnupg.org>

* gpgme.h: Add GPGME_ATTR_KEY_{EXPIRED,DISABLED}.
* key.c (gpgme_key_get_ulong_attr): And return those attribs.

* verify.c (gpgme_get_sig_key): Set keylisting mode depending on the mode set in the current context. Suggested by Timo.

* key.c (gpgme_key_get_ulong_attr): Return can_certify and not can_encrypt. By Timo.

2001-03-30 Werner Koch <wk@gnupg.org>


2001-03-15 Werner Koch <wk@gnupg.org>

* rungpg.c: Included time.h.

* key.h: New keyflags for capabilities.
* gpgme.h: New attribute values for capabilities.
* key.c (gpgme_key_get_string_attr): Return them. (capabilities_to_string): New.
* gpgme.h: New attribute values for capabilities.

2001-03-14 Werner Koch <wk@gnupg.org>

* w32-io.c (destroy_reader, destroy_writer): Fixed syntax error. Thanks to Jan Oliver Wagner.

2001-03-13 Werner Koch <wk@gnupg.org>

* context.h: Add invalid and revoke flags to user_id structure.
* keylist.c (gpgme_op_keylist_start): Use --fixed-list-mode.
  (keylist_colon_handler): Adjust for that.
  (set_userid_flags): New.
  (set_mainkey_trust_info): Handle new key invalid flag
  (set_subkey_trust_info): Ditto.
* gpgme.h: Add new attributes for key and user ID flags.
* key.c (_gpgme_key_append_name): Init these flags
  (gpgme_key_get_as_xml): Print them.
  (one_uid_as_xml): New helper for above.
  (gpgme_key_get_string_attr, gpgme_key_get_ulong_attr):
  Return the new attributes. Enhanced, so that subkey information
  can be returned now.

2001-02-28 Werner Koch <wk@gnupg.org>

* w32-io.c (destroy_reader): Set stop_me flag.
  (writer,create_writer,destroy_writer,find_writer,kill_writer): New.
  (_gpgme_io_write): Use a writer thread to avoid blocking.
  (_gpgme_io_close): Cleanup a writer thread
  (_gpgme_io_select): Replace the faked wait on writing by a real
  waiting which is now possible due to the use of a writer thread.

2001-02-20 Werner Koch <wk@gnupg.org>

  (create_reader, reader): Add a new event to stop the thread.
  (_gpgme_io_close): Kill the reader thread.

* posix-io.c (_gpgme_io_select): Handle frozen fds here.

* wait.c: Reworked the whole thing.
* runpg.c (_gpgme_gpg_new): Init pid to -1.
  (_gpgme_gpg_release): Remove the process from the wait queue.

2001-02-19 Werner Koch <wk@gnupg.org>

* w32-io.c (_gpgme_io_set_close_notify): New.
  (_gpgme_io_close): Do the notification.

* posix-io.c (_gpgme_io_select): Use a 1 sec timeout and not 200
  microseconds.

* wait.c (remove_process): Don't close the fd here.
  (do_select): Set the fd to -1 and remove the is_closed flag everywhere.
  (_gpgme_wait_on_condition): Remove the assert on the queue and
  break out if we could not find the queue. The whole thing should
  be reworked.
* posix-io.c (_gpgme_io_set_close_notify): New.
  (_gpgme_io_close): Do the notification.

* rungpg.c (close_notify_handler): New.
  (_gpgme_gpg_new): Register a callback for the fd.
  (_gpgme_gpg_set_colon_line_handler): Ditto.
  (build_argv): Ditto

2001-02-13 Werner Koch <wk@gnupg.org>

* rungpg.c (struct reap_s): Replaced pid_t by int.

* types.h: Add ulong typedef.

* rungpg.c (do_reaping,_gpgme_gpg_housecleaning): New.
* w32-io.c (_gpgme_io_kill): New (dummy).

* keylist.c (gpgme_op_keylist_start): Cancel a pending request.

* posix-io.c (_gpgme_io_read): Add some debug output.
  (_gpgme_io_write): Ditto.
  (_gpgme_io_select): Increased the timeout.

2001-02-12 Werner Koch <wk@gnupg.org>

Enhanced the signature verification, so that it can now handle
more than one signature and is able to return more information on
the signatures.
* verify.c (gpgme_get_sig_key): New.
  (gpgme_get_sig_status): New.

* gpgme.h: Add stdio.h.
  (GpgmeSigStat): New status DIFF.

2001-02-01 Werner Koch <wk@gnupg.org>

* w32-io.c (set_synchronize): Add EVENT_MODIFY_STATE. Add Debug
code to all Set/ResetEvent().

* rungpg.c (read_status): Check for end of stream only if we have
  an r. By Timo.

2001-01-31 Werner Koch <wk@gnupg.org>

* wait.c (_gpgme_wait_on_condition): Removed all exit code processing.
(propagate_term_results, clear_active_fds): Removed.
(count_active_fds): Renamed to ..
(count_active_and_thawed_fds): .. this and count only thawed fds.

* rungpg.c (gpg_colon_line_handler): Return colon.eof and not
status.eof ;-)

2001-01-30 Werner Koch <wk@gnupg.org>

* w32-io.c (_gpgme_io_spawn): Use the supplied path arg.

* version.c (get_engine_info): Return better error information.

* posix-util.c, w32-util.c: New.
(_gpgme_get_gpg_path): New, suggested by Jan-Oliver.
* rungpg.c (_gpgme_gpg_spawn): Use new function to get GPG's path.

* signers.c (gpgme_signers_add): Ooops, one should test code and
not just write it; the newarr was not assigned. Thanks to Jos
for pointing this out. Hmmm, still not tested, why should a coder
test his fix :-)

* w32-io.c: Does now use reader threads, so that we can use
WaitForMultipleObjects.
* sema.h, posix-sema.c, w32-sema.c: Support for Critical sections.
Does currently only work for W32.

* debug.c, util.h: New. Changed all fprintfs to use this new
set of debugging functions.

2001-01-23 Werner Koch <wk@gnupg.org>

* data.c (_gpgme_data_release_and_return_string): Fixed string
termination.

2001-01-22 Werner Koch <wk@gnupg.org>

* delete.c: New.

* signers.c: New.
* key.c (gpgme_key_ref, gpgme_key_unref): New.
* sign.c (gpgme_op_sign_start): Allow the use of other keys.

* version.c (gpgme_get_engine_info,gpgme_check_engine): New.
* rungpg.c (_gpgme_gpg_set_simple_line_handler): New.

2001-01-05 Werner Koch <wk@gnupg.org>
* data.c (gpgme_data_rewind): Allow to rewind data_type_none.


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Ty Coon, President of Vice

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commit 2145348ec54c6027f2ca20f695de0277e2871405
Merge: 348ba88 2036f1a
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 03:04:19 2015 +1000

Merge pull request #4 from Hasimir/master

commit 2036f1a0a670a0561993e195c458059220b36114
Merge: dbabf0c 348ba88
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:57:44 2015 +1000

Merge branch 'master' of github:adversary-org/pyme3

commit dbabf0cf1f2985755c2293b619011832e34fa9c
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:52:23 2015 +1000

Added a short history

* A (very) brief summary of the project's history since 2002.
* Deals with why the commit log in the GPGME repo does not include the history of PyME.
* Mentions that intact git repos will be maintained, but not where they are (one will be on github, another will be in a user directory on playfair.gnupg.org).
Version release preparation

commit 7c37a27a6845c58222d4d947c2efbe38e955b612
Merge: f692c6ff 127d0a5
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:17:14 2015 +1000

Merge branch 'master' of github:adversary-org/pyme3

commit f692c6ff50a89c2c61acdbd3d7dd60f5ce3cd15af
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:09:44 2015 +1000

TODO update

* Removed reference to GitHub, replaced with impending new home at gnupg.org.

docs/TODO.rst | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit bd5ccf9e3bfe69fa681613757577e87b72ca08ec
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:00:44 2015 +1000

Version bump

* Bumped version number to 0.9.1 to keep it somewhat in line with the existing PyME project, even though there will be some divergence at some point (or even re-merging, depending on how many of the Python 3 modifications can be back-ported to the Python 2 version).
* Updated the author and copyright information to reflect the two current authors (Martin and I).
* Replaced Igor's contact details with mine.
* Replaced project home page with the GnuPG one.

pyme/version.py | 16 +++++++++---
1 file changed, 9 insertions(+), 7 deletions(-)
README preparation.

* Changes in preparation for impending move of code to the GnuPG git server as a part of GPGME.

TODO moved to docs

* As it says.

Started another TODO file.

Minor editing.

Merge pull request #2 from Hasimir/master

Minor editing.
* Fixed another URL.
* Changed Py3 version's version number to v0.9.1-beta0.

README.rst | 4 +++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit db72deaae19c3513391df040bcaf66a88d9213af
Merge: db3428648eb185
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 14:26:11 2015 +1000

Merge pull request #1 from Hasimir/master

Links

commit 48eb1856cb0739ce9f0b9084da9d965e1fc7fd3d
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 14:22:30 2015 +1000

Links

* Fixed URLs for authors.
* Updated my entry to point to github location.
** I strongly suspect the result of this work will be concurrent projects, so preparing for that eventuality with this repo.

README.rst | 8 ++++----
1 file changed, 4 insertions(+), 4 deletions(-)

commit db3428659783f30b9a76204403dacedf9fc4cf7cf
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 11:29:00 2015 +1000

Explicit over Implicit ...

... isn't just for code.

* Removed the 2to3 working directory and its contents.
* Made the README.rst file a little more clear that this branch is for Python 3 (set Python 3.2 as a fairly arbitrary requirement for the moment, but will probably raise this to 3.3).

2to3/2to3-output-remaining.log | 60 ---
2to3/2to3-output-setup.log     | 35 --
2to3/2to3-output.log           | 950 -----------------------------
README.rst                    | 10 +-
4 files changed, 7 insertions(+), 1048 deletions(-)
commit 3edf07a4ba8a86af3a33246234d6e133074862af
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 11:19:41 2015 +1000

Added authors.

* In alphabetical order.
* Mine will need updating once Martin and I have decided what to do regarding the two main branches.

README.rst | 12 ++++++++++++  
1 file changed, 12 insertions(+)

commit 811eb14b53e8856312d99f46b77215f7f9bd672c
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 10:23:00 2015 +1000

Docs and other things.

* Now able to import pyme.core without error, indicates port process is successful.
* Code is *not* compatible with the Python 2 version.
* Will need to consider making this a parallel project with the master branch.
* Got rid of the .org TODO file.
* Changed the README to use the reST file extension since it's full of reST anyway.

2to3/TODO.org |  5 ----  
README.rst    | 32 +++++++++++++++++++++++++++++++  
README.txt    | 32 --------------------------------  
3 files changed, 32 insertions(+), 37 deletions(-)

commit 79e784bdce1de6f7856921b5431044c62c6f015
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 10:18:40 2015 +1000

Fixed another implicit import by making it explicit. Hopefully this is the last one.

pyme/util.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 2b52b46ccda3e7abcc50eed0745062259d698661
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 10:16:01 2015 +1000

Fixed another implicit import by making it explicit.
Bytes vs. Unicode

* Trying PyBytes instead of PyUnicode.

String to Unicode

* Replaced all instances of PyString with PyUnicode (and hoping there's no byte data in there).

PyInt_AsLong

* Replaced all instances of PyInt with PyLong, as per C API docs.

Import correction

* Once pygpgme.py is generated and moved, it will be in the right
directory for the explicit "from . import pygpgme" to be correct.

pyme/core.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 23a49e7070812ff1ce138d8d4cc46d0b80328897
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 05:38:29 2015 +1000

The -py3 flag.

Makefile | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit b1549587d6db5e33081b9ec20f75d1348a1d25938
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 05:01:42 2015 +1000

Fixed indentation - 4.

pyme/core.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit a685142ce46761ee6f5176e90717176e38e0d24f
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 05:00:16 2015 +1000

Fixed indentation - 3.

pyme/core.py | 5 +++--
1 file changed, 2 insertions(+), 3 deletions(-)

commit 488a70b490cc64eb1c47d2483cb2f4079c6767f7
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:53:21 2015 +1000

Pet Peeve

    def pet_peeve(self):
        peeve = print("people who don't press return after a colon!")

    FFS!

pyme/core.py | 5 +++--
1 file changed, 3 insertions(+), 2 deletions(-)

commit a5d38eb47d64bb17bb609fe594dae2aca480bac9
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 04:47:54 2015 +1000

Fixed indentation - 2.

pyme/core.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 476a207f732b8559abb1ea3c23147c0e34804730  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 04:46:01 2015 +1000

Fixed indentation.

pyme/core.py | 4 +++--  
1 file changed, 2 insertions(+), 2 deletions(-)

commit 0572900eba9bcd9b0283c7d8e022e8972f06f9f8  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 04:43:49 2015 +1000

Replaced all tabs with 4 spaces.

pyme/core.py | 18 +++++++++---------  
1 file changed, 9 insertions(+), 9 deletions(-)

commit 78c0b7677e94ce1e11b8cde833a9064527187330  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 04:39:07 2015 +1000

SWIG flags in the wrong place.

Makefile | 4 ++--  
1 file changed, 2 insertions(+), 2 deletions(-)

commit dfa7f2589963494a8f89277560d8c1116604a3c8  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 04:35:09 2015 +1000

Fixed subprocess call for swig (again).

setup.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 249bfd8c714dcd53127b99b6cc8a6c7c4a99f20  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 04:32:40 2015 +1000

Fixed subprocess call for swig.
setup.py  |  2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6fd7c719cf4e975f466ceb39835db7007df36fb2  
Author: Ben McGinnes <ben@adversary.org>  
Date:   Sun May 3 03:51:48 2015 +1000

Linking swig to py3

* Changed the swig invocations to run with the -python -py3 flags explicitly.

setup.py  |  2 +-  
2 files changed, 3 insertions(+), 3 deletions(-)

commit 7a6b584f50ed6d08617a642185eea1f24ff791a  
Author: Ben McGinnes <ben@adversary.org>  
Date:   Sat May 2 11:12:00 2015 +1000

String fun

* streamlined confdata details, including decoding strom binary to string.

setup.py  |  4 ----  
1 file changed, 1 insertion(+), 3 deletions(-)

commit f7fd3f270592021a95a8f779bfe85ac18f4e390b  
Author: Ben McGinnes <ben@adversary.org>  
Date:   Sat May 2 10:46:59 2015 +1000

Open File

* Removed deprecated file() and replaced with open().

examples/PyGtkGpgKeys.py  |  2 +-  
examples/pygpa.py       |  6 +++++-  
gpgme-h-clean.py       |  2 +-  
3 files changed, 5 insertions(+), 5 deletions(-)

commit 4227d486f9558015e7e548d71085e58e1b50ec08  
Author: Ben McGinnes <ben@adversary.org>  
Date:   Sat May 2 10:36:15 2015 +1000

print() fix

* Makefile includes a python print, changed from statement to function.
Updated Makefile

* set make to use python3 instead.
* This will mean a successful port may need to be maintained separately from the original python2 code instead of merged, but ought to be able to share most things. So maybe merge with separated make files or a pre-make script to set python2 or python3 prior to building ... decide later, after it works.

Env and a little license issue

* Updated all the /usr/bin/env paths to point to python3.
* Also fixed the hard coded /usr/bin/python paths.
* Updated part of setup.py which gave the impression this package was only licensed under the GPL (it's actually licensed under the LGPL as well, essentially the same dual licensing as the GPGME library).
Removed extraneous files.

* The two .bak files.

```
pyme/errors.py.bak | 46 ---------------------
setup.py.bak       | 116 -----------------------------------------------------
2 files changed, 162 deletions(-)
```

commit 208879d4f2a6d0514c3f8ee2fc0da8bba42350de
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 08:19:37 2015 +1000

Added TODO.org

* TODO list in Emacs org-mode.
* Will eventually be removed along with this entire directory when the
  porting process is complete.

```
2to3/TODO.org | 5 ++++++
1 file changed, 5 insertions(+)
```

commit 1548bf201059638675c5387c6f124d4b703363a9
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 07:58:40 2015 +1000

2to3 conversion of remaining files

* Ran the extended version against all the unmodified python files.
* Only pyme/errors.py required additional work.

```
2to3/2to3-output-remaining.log | 60 ++++++++++++++++++++++++++++++++++++++++++++++++++++  
pyme/errors.py                     | 2 +-
pyme/errors.py.bak                | 46 +++++++++++++++++++++++++++++++++++++++
3 files changed, 107 insertions(+), 1 deletion(-)
```

commit 1230650bc6bbe4c14d1284f7877aa932f3e86eb4
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 07:50:39 2015 +1000

2to3 conversion of setup.py

* Ran extended 2to3 command to produce python 3 code for setup.py.
* Effectively testing for what to run against the other originally
  unmodified py2 files.
2to3/2to3-output-setup.log | 35 ++++++++++++++
setup.py | 7 ++-
setup.py.bak | 116 +++++++++++++++++++++++++++++++++++++++++++++
3 files changed, 154 insertions(+), 4 deletions(-)

commit edad4495f59aa879e95a369591717fb19ee6b7
Author: Ben McGinnes <ben@adversary.org>
Date: Fri May 1 21:50:07 2015 +1000

Removing 2to3 generated .bak files.

* Not really needed with a real VCS, but couldn't hurt to have them for a couple of revisions. ;)

examples/PyGtkGpgKeys.py.bak | 663 ----------
examples/encrypt-to-all.py.bak | 65 --
examples/exportimport.py.bak | 75 --
examples/genkey.py.bak | 45 -
examples/inter-edit.py.bak | 57 --
examples/pygpa.py.bak | 1457 -----------------------
examples/sign.py.bak | 31 -
examples/signverify.py.bak | 78 --
examples/simple.py.bak | 52 --
examples/t-edit.py.bak | 59 --
examples/testCMSgetkey.py.bak | 45 -
examples/verifydetails.py.bak | 100 ---
gpgme-h-clean.py.bak | 42 -
pyme/callbacks.py.bak | 47 --
pyme/constants/data/__init__.py.bak | 4 -
pyme/constants/keylist/__init__.py.bak | 4 -
pyme/constants/sig/__init__.py.bak | 4 -
pyme/core.py.bak | 463 --------
pyme/util.py.bak | 72 --
pyme/version.py.bak | 41 -
20 files changed, 3404 deletions(-)

commit 1cfc3c969f885ed191610bffb60ac23fdd349e
Author: Ben McGinnes <ben@adversary.org>
Date: Fri May 1 21:45:50 2015 +1000

2to3 conversion log

* The output of the command to convert the code from Python 2 to 3.
* Note: this contains the list of files which were not modified and which will or may need to be modified.

2to3/2to3-output.log | 950 +++++++++++++++++++++++++++++++++++++++++++++++++++
1 file changed, 950 insertions(+)

commit 078f6cf878aa62d12704fab424198a613a24cc8c
Author: Ben McGinnes <ben@adversary.org>
Date:   Fri May 1 21:36:58 2015 +1000

2to3 conversion of pyme master

* Branch from commit 459f3eca659b4949e394c4a032d9ce2053e6c721
* Ran this: or x in `find . | egrep .py$` ; do 2to3 -w $x; done :
* Multiple files not modified, will record elsewhere (see next commit).

examples/PyGtkGpgKeys.py               |   10 +-
examples/PyGtkGpgKeys.py.bak           |  663 +++++++++++++
examples/encrypt-to-all.py             |   12 +-
examples/encrypt-to-all.py.bak         |   65 ++
examples/exportimport.py              |  20 +/-
examples/exportimport.py.bak          |   75 ++
examples/genkey.py                    |   2 +- exapmles/genkey.py.bak            |   45 +
examples/inter-edit.py               |   8 +-
examples/inter-edit.py.bak           |   57 ++
examples/pygpa.py                    |   40 +-
examples/pygpa.py.bak               | 1457 ++++++++++++++++++++++++++++ examplessign.py            |   2 +
examples/sign.py.bak                 |   31 +
examples/signverify.py              |  18 +-
examples/signverify.py.bak          |   78 ++
examples/simple.py                 |   8 +-
examples/simple.py.bak             |   52 ++
examples/t-edit.py                 |   12 +-
examples/t-edit.py.bak            |   59 ++
examples/testCMSgetkey.py        |   8 +-
examples/testCMSgetkey.py.bak     |   45 +
examples/verifydetails.py         |  34 +-
examples/verifydetails.py.bak     | 100 +++
gpgme-h-clean.py                      |   2 +-
gpgme-h-clean.py.bak                  |   42 +
pyme/callbacks.py                     |   6 +-
pyme/callbacks.py.bak                |   47 ++
pyme/constants/data/__init__.py       |   2 +-
pyme/constants/data/__init__.py.bak   |   4 +
pyme/constants/keylist/__init__.py    |   2 +-
pyme/constants/keylist/__init__.py.bak|   4 +
pyme/constants/sig/__init__.py       |   2 +-
pyme/constants/sig/__init__.py.bak    |   4 +
pyme/core.py                         |  26 +-
pyme/core.py.bak                     |  463 ++++++++
Commit 459f3eca659b494e394c4a032d9ce2053e6c721
Merge: c5966ab dae7f14
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Wed Jul 9 10:48:33 2014 +0100

Merged in jerrykan/pyme/fix_setup_26 (pull request #1)

Provide support for using setup.py with Python v2.6

Commit dae7f14a546e6c2bde0ad4da7308cc7fc0d0c0469
Author: John Kristensen <john.kristensen@dpipwe.tas.gov.au>
Date:   Wed Jul 9 15:54:39 2014 +1000

Provide support for using setup.py with Python v2.6

The setup.py script uses subprocess.check_output() which was introduced in Python v2.7. The equivalent functionality can be achieved without adding much extra code and provide support for Python v2.6.

Setup.py | 4 +++-
1 file changed, 3 insertions(+), 1 deletion(-)

Commit c5966abec9d772b3922d32650da288fd50a217be
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Thu May 15 19:43:00 2014 +0100

README.txt in ReST, including headlines

README.txt | 8 ++++++++-
1 file changed, 6 insertions(+), 2 deletions(-)

Commit 43ee8c6f34fa9b6d3975aa6ea60b3d4a741fa721
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Thu May 15 19:37:15 2014 +0100

README.txt in ReST

README.txt | 25 +++++++++++++++++++++++++-
1 file changed, 13 insertions(+), 12 deletions(-)

Commit f71a369484ca8801df23ccc5842335fa496c0df
Author: Martin Albrecht <martinralbrecht@googlemail.com>
added MANIFEST.in and README.txt (instead of .md)

MANIFEST.in |  6 ++++++
README.md | 27 1--------------------------
README.txt  | 27 ++++++++++++++++++++++++++++++++++++
3 files changed, 33 insertions(+), 27 deletions(-)

commit d0d6755229f920b0bed043e9c2731de2d57c096c
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Tue May 13 09:52:44 2014 +0100

added mailing list to README

README.md | 19 ++++++++++++++++---
1 file changed, 16 insertions(+), 3 deletions(-)

commit 30ca60ddf92df684de261cb24c83c68089be0adc
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sun May 11 13:34:28 2014 +0100

we don't need a separate out of date ChangeLog file

ChangeLog | 802 --------------------------------------------------------------
1 file changed, 802 deletions(-)

commit 8263f1a6d38fadb7f5f3dd5c7e28f83ca7528a08
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sun May 11 13:32:31 2014 +0100

adding README.md

README.md | 14 ++++++++++++++
1 file changed, 14 insertions(+)

commit 3fc71b47e9e14b0b984801c28d722723baa4b406
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 10 15:43:06 2014 +0100

ValueError -> RuntimeError

setup.py | 4 +++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit eec432abea56296b9fa36aaac0d10926a2335b739
Merge: eea6537 d2738b3
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:41:02 2014 +0100

Merge branch 'master' of bitbucket.org:malb/pyme

Conflicts:
   setup.py

commit eea6537921061b4dcfc54e00a99d3fa110e71433
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:39:51 2014 +0100

   check for swig

setup.py | 8 ++++++++++
1 file changed, 8 insertions(+)

commit 53867bf9715ee1b4ea873bf5e2fbb7d9740a2b4a
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:35:04 2014 +0100

   more friendly error message if gpgme is missing

setup.py | 8 ++++++++-
1 file changed, 7 insertions(+), 1 deletion(-)

commit d2738b35d63b1492d69641c5466103685f2d3a30
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:35:04 2014 +0100

   more friendly error message if gpgme is missing

setup.py | 8 ++++++++-
1 file changed, 7 insertions(+), 1 deletion(-)

commit c0b01240b8ecf8ba6cf1d41f64b2cb4c056f5163
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Fri May 9 15:20:24 2014 +0100

   version number should have three digits

pyme/version.py | 2 +-   
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6672bb60b9bec60d38e854016c48658b57774578
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Wed May 7 15:11:08 2014 +0100

   bump version number for upcoming release
bump version number to indicate changes

pyme instead of pygpgme

dirty hack to make `python setup.py install` work

moved everything down to the toplevel directory

COPYING | 340 ++
COPYING.LESSER | 510 +++
ChangeLog | 802 ++++
INSTALL | 15 ++++
Makefile | 104 +
debian/README.Debian | 6 +
debian/changelog | 93 +
debian/control | 34 +
debian/copyright | 25 +
debian/docs | 2 +
debian/examples | 2 +

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 2222
<table>
<thead>
<tr>
<th>File</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>debian/rules</td>
<td>99 +</td>
</tr>
<tr>
<td>examples/PyGtkGpgKeys.glade</td>
<td>1394 +++++++</td>
</tr>
<tr>
<td>examples/PyGtkGpgKeys.glade</td>
<td>8 +</td>
</tr>
<tr>
<td>examples/PyGtkGpgKeys.py</td>
<td>663 +++++</td>
</tr>
<tr>
<td>examples/delkey.py</td>
<td>34 +</td>
</tr>
<tr>
<td>examples/encrypt-to-all.py</td>
<td>65 +</td>
</tr>
<tr>
<td>examples/exportimport.py</td>
<td>75 +</td>
</tr>
<tr>
<td>examples/genkey.py</td>
<td>45 +</td>
</tr>
<tr>
<td>examples/inter-edit.py</td>
<td>57 +</td>
</tr>
<tr>
<td>examples/pygpa.glade</td>
<td>5546 +++++++++++++++++++++++++++++++++++</td>
</tr>
<tr>
<td>examples/pygpa.py</td>
<td>1457 +++++</td>
</tr>
<tr>
<td>examples/sign.py</td>
<td>31 +</td>
</tr>
<tr>
<td>examples/signverify.py</td>
<td>78 +</td>
</tr>
<tr>
<td>examples/simple.py</td>
<td>52 +</td>
</tr>
<tr>
<td>examples/t-edit.py</td>
<td>59 +</td>
</tr>
<tr>
<td>examples/testCMSgetkey.py</td>
<td>45 +</td>
</tr>
<tr>
<td>examples/verifydetails.py</td>
<td>100 +</td>
</tr>
<tr>
<td>gpgme-h-clean.py</td>
<td>42 +</td>
</tr>
<tr>
<td>gpgme.i</td>
<td>267 ++</td>
</tr>
<tr>
<td>helpers.c</td>
<td>154 +</td>
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<tr>
<td>helpers.h</td>
<td>36 +</td>
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<tr>
<td>pyme/COPYING</td>
<td>340 --</td>
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<tr>
<td>pyme/COPYING.LESSER</td>
<td>510 ---</td>
</tr>
<tr>
<td>pyme/ChangeLog</td>
<td>802 -----</td>
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<tr>
<td>pyme/INSTALL</td>
<td>15 -</td>
</tr>
<tr>
<td>pyme/Makfile</td>
<td>104 -</td>
</tr>
<tr>
<td>pyme/<strong>init</strong>.py</td>
<td>137 +</td>
</tr>
<tr>
<td>pyme/callbacks.py</td>
<td>47 +</td>
</tr>
<tr>
<td>pyme/constants/<strong>init</strong>.py</td>
<td>7 +</td>
</tr>
<tr>
<td>pyme/constants/data/<strong>init</strong>.py</td>
<td>4 +</td>
</tr>
<tr>
<td>pyme/constants/data/encoding.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/event.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/import.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/keylist/<strong>init</strong>.py</td>
<td>4 +</td>
</tr>
<tr>
<td>pyme/constants/keylist/mode.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/md.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/pk.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/protocol.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/sig/<strong>init</strong>.py</td>
<td>4 +</td>
</tr>
<tr>
<td>pyme/constants/sig/mode.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/sigsum.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/status.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/validity.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/core.py</td>
<td>463 +++</td>
</tr>
<tr>
<td>pyme/debian/README.Debian</td>
<td>6 -</td>
</tr>
<tr>
<td>pyme/debian/changelog</td>
<td>93 -</td>
</tr>
<tr>
<td>pyme/debian/control</td>
<td>34 -</td>
</tr>
<tr>
<td>pyme/debian/copyright</td>
<td>25 -</td>
</tr>
</tbody>
</table>
108 files changed, 13384 insertions(+), 13384 deletions(-)

commit 8148cdd42d43a8f33c4e833ce4276c7ee8c98abc6e41c
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 3 18:58:52 2014 +0100

removing pyme-web

pyme-web/Makefile | 15 -
pyme-web/default.css | 37 --
pyme-web/doc/gpgme/ASCII-Armor.html | 57 ---
pyme-web/doc/gpgme/Advanced-Key-Editing.html | 98 ----
pyme-web/doc/gpgme/Algorithms.html | 47 --
pyme-web/doc/gpgme/Building-the-Source.html | 82 ----
.../doc/gpgme/Callback-Based-Data-Buffers.html | 148 ------
pyme-web/doc/gpgme/Cancellation.html | 67 ---
pyme-web/doc/gpgme/Concept-Index.html | 186 -------
pyme-web/doc/gpgme/Context-Attributes.html | 52 --
pyme-web/doc/gpgme/Contexts.html | 61 ---
pyme-web/doc/gpgme/Creating-Contexts.html | 49 --
pyme-web/doc/gpgme/Creating-Data-Buffers.html | 47 --
pyme-web/doc/gpgme/Creating-a-Signature.html | 143 ------
pyme-web/doc/gpgme/Crypto-Engine.html | 79 ---
pyme-web/doc/gpgme/Crypto-Operations.html | 67 ---
.../doc/gpgme/Cryptographic-Message-Syntax.html | 42 --
.../doc/gpgme/Data-Buffer-I_002fO-Operations.html | 104 ----
pyme-web/doc/gpgme/Data-Buffer-Meta_002dData.html | 100 ----
pyme-web/doc/gpgme/Decrypt-and-Verify.html | 79 ---
pyme-web/doc/gpgme/Decrypt.html | 123 ----- 
pyme-web/doc/gpgme/Deleting-Keys.html | 67 ---
pyme-web/doc/gpgme/Destroying-Contexts.html | 46 ---
pyme-web/doc/gpgme/Destroying-Data-Buffers.html | 70 ---
pyme-web/doc/gpgme/Encrypt.html | 45 --
pyme-web/doc/gpgme/Encrypting-a-Plaintext.html | 147 ------
pyme-web/doc/gpgme/Engine-Configuration.html | 65 ---
pyme-web/doc/gpgme/Engine-Information.html | 119 ------
pyme-web/doc/gpgme/Engine-Version-Check.html | 48 --
pyme-web/doc/gpgme/Error-Codes.html | 133 ----- 
pyme-web/doc/gpgme/Error-Handling.html | 72 ---
pyme-web/doc/gpgme/Error-Sources.html | 89 ----
pyme-web/doc/gpgme/Error-Strings.html | 80 ---
pyme-web/doc/gpgme/Error-Values.html | 159 ------
pyme-web/doc/gpgme/Exchanging-Data.html | 58 ---
pyme-web/doc/gpgme/Exporting-Keys.html | 101 ----
pyme-web/doc/gpgme/Features.html | 59 ---
pyme-web/doc/gpgme/File-Based-Data-Buffers.html | 74 ---
pyme-web/doc/gpgme/Function-and-Data-Index.html | 229 --------
<table>
<thead>
<tr>
<th>File Path</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>pyme-web/doc/gpgme/Generating-Keys.html</td>
<td>144</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Getting-Started.html</td>
<td>55</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Hash-Algorithms.html</td>
<td>59</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Header.html</td>
<td>53</td>
</tr>
<tr>
<td>./doc/gpgme/I_002FO-Callback-Example-GDK.html</td>
<td>85</td>
</tr>
<tr>
<td>./gpgme/I_002FO-Callback-Example-GTK_002h.html</td>
<td>86</td>
</tr>
<tr>
<td>./doc/gpgme/I_002FO-Callback-Example-Qt.html</td>
<td>99</td>
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<td>pyme-web/doc/gpgme/I_002FO-Callback-Example.html</td>
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<td>pyme-web/doc/gpgme/I_002FO-Callback-Interface.html</td>
<td>142</td>
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<td>pyme-web/doc/gpgme/Importing-Keys.html</td>
<td>171</td>
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<tr>
<td>pyme-web/doc/gpgme/Included-Certificates.html</td>
<td>70</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Information-About-Keys.html</td>
<td>207</td>
</tr>
<tr>
<td>./doc/gpgme/Information-About-Trust-Items.html</td>
<td>75</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Introduction.html</td>
<td>53</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Key-Listing-Mode.html</td>
<td>99</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Key-Management.html</td>
<td>260</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Key-Signatures.html</td>
<td>130</td>
</tr>
<tr>
<td>./doc/gpgme/Largefile-Support-_0028LFS_0029.html</td>
<td>110</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Library-Copying.html</td>
<td>542</td>
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<tr>
<td>pyme-web/doc/gpgme/Library-Version-Check.html</td>
<td>97</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Listing-Keys.html</td>
<td>204</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Listing-Trust-Items.html</td>
<td>88</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Locale.html</td>
<td>69</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Manipulating-Data-Buffers.html</td>
<td>45</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Manipulating-Keys.html</td>
<td>63</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Manipulating-Trust-Items.html</td>
<td>62</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Memory-Based-Data-Buffers.html</td>
<td>107</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Multi-Threading.html</td>
<td>93</td>
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<tr>
<td>pyme-web/doc/gpgme/OpenPGP.html</td>
<td>44</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Overview.html</td>
<td>57</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Passphrase-Callback.html</td>
<td>101</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Preparation.html</td>
<td>54</td>
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<tr>
<td>pyme-web/doc/gpgme/Progress-Meter-Callback.html</td>
<td>80</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Protocol-Selection.html</td>
<td>60</td>
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<tr>
<td>pyme-web/doc/gpgme/Protocols-and-Engines.html</td>
<td>82</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Public-Key-Algorithms.html</td>
<td>74</td>
</tr>
<tr>
<td>./doc/gpgme/Registering-I_002FO-Callsbacks.html</td>
<td>81</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Run-Control.html</td>
<td>53</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Selecting-Signers.html</td>
<td>64</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Sign.html</td>
<td>50</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Signal-Handling.html</td>
<td>61</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Signature-Notation-Data.html</td>
<td>85</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Text-Mode.html</td>
<td>63</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Trust-Item-Management.html</td>
<td>68</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Using-Automake.html</td>
<td>74</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Using-External-Event-Loops.html</td>
<td>74</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Using-Libtool.html</td>
<td>44</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Verify.html</td>
<td>492</td>
</tr>
</tbody>
</table>
fixing op_export_keys()

the conversion of gpgme_key_t [] was restricted to gpgme_key_t [] with the name recv, i.e. only the use-cases of encryption were covered.


commit 684d95feb7e10e538a56fb1b27f1456111bacb60
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Mon Jan 6 17:44:20 2014 +0100

fixing op_export_keys()

the conversion of gpgme_key_t [] was restricted to gpgme_key_t [] with the name recv, i.e. only the use-cases of encryption were covered.


commit 658d23b95110d21eeb50abf4e74701a667521a88
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Mon Jan 6 17:41:33 2014 +0100

deleting CVSROOT
update tags

commit 2dcf0c5b702eb5a18e66ff1e42a72eaa7427af1d
Author: belyi <devnull@localhost>
Date: Wed Nov 26 02:38:33 2008 +0000

    Move Windows specific fix from helpers.c to helpers.h so that it works
    for edit callback as well as for the passphrase one.

    pyme/helpers.c | 5 ----
    pyme/helpers.h | 5 +++++
    2 files changed, 5 insertions(+), 5 deletions(-)

commit 42a035f2ef62470feaf7c68ee33a1297fa90a603
Author: belyi <devnull@localhost>
Date: Mon Nov 24 21:44:30 2008 +0000

    Update the way build directives are constructed on MinGW to have a bit
    more robust. Update PyMe build version to 0.8.1 in version.py

    pyme/pyme/version.py | 2 +- 
    pyme/setup.py | 10 ++++++++--
    2 files changed, 9 insertions(+), 3 deletions(-)

commit 3aaa20fbcb17066c9fffd580f5209946022793a2
Author: belyi <devnull@localhost>
Date: Mon Nov 24 06:57:11 2008 +0000

    Update changelog

    pyme/debian/changelog | 5 ++++-
Fix hang problem on Windows when password is written to a filehandle.
Fix the way path is constructed on MinGW platform.

```diff
pyme/helpers.c | 5 ++++
pyme/setup.py  | 4 ++-
2 files changed, 7 insertions(+), 2 deletions(-)
```

commit 852a60d541d66cb56f40378182b976fd87a02c46
Author: belyi <devnull@localhost>
Date:   Sun Nov 23 04:31:31 2008 +0000

Add Bernard's example testCMSgetkey.py and his updates for verifydetails.py

```diff
pyme/examples/testCMSgetkey.py | 45 ++++++++++++++++++++++++++++++++++++++
pyme/examples/verifydetails.py | 43 +++++++++++++++++++++++++++++-----------
2 files changed, 77 insertions(+), 11 deletions(-)
```

commit f080527d9184f3360a8ef6136b9a188d8e7d2a
Author: belyi <devnull@localhost>
Date:   Thu May 29 18:29:37 2008 +0000

Remove debian packaging for python2.3 since it is removed from both testing and unstable dists.
Update docs build target to have correct PYTHONPATH set.

```diff
pyme/Makefile         | 2 +-  
pyme/debian/changelog | 4 +++-
pyme/debian/control   | 4 +++-
pyme/debian/rules     | 2 --
4 files changed, 6 insertions(+), 6 deletions(-)
```

commit c25d133fcbadf3c7f6e655586b4a05d6e3cf6f0b
Author: belyi <devnull@localhost>
Date:   Thu Apr 3 13:37:12 2008 +0000

Forgot to adjust mainText margin. Doing it now.

```diff
pyme-web/default.css | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)
```

commit 897286a54a32336d060cd03305cdecb7905f34f1
Fix an error in default.css and make index.html "Standards Compliant".

pyme-web/default.css | 2 +-  
pyme-web/index.html  | 7 ++++-
2 files changed, 5 insertions(+), 4 deletions(-)

commit 4e049212bd214449cc0ba1ce06e00782783f328a  
Author: belyi <devnull@localhost>  
Date:   Thu Apr 3 12:38:42 2008 +0000

Adjust spacing between links.

pyme-web/default.css | 9 +++++--
1 file changed, 6 insertions(+), 3 deletions(-)

commit cb2bddfbd77483b1deb14f2eb0715a03dd33fcd  
Author: belyi <devnull@localhost>  
Date:   Wed Apr 2 22:50:21 2008 +0000

Make style a big more IE friendly.

pyme-web/default.css | 15 +++++++++--
1 file changed, 11 insertions(+), 4 deletions(-)

commit ad66f0a1bb01b46baac328e9fee439b35a60c232  
Author: belyi <devnull@localhost>  
Date:   Wed Apr 2 11:58:32 2008 +0000

Make GPGME documentation a bit more web friendly on the index.html page.

pyme-web/doc/gpgme/Algorithms.html | 2 +-  
pyme-web/doc/gpgme/Concept-Index.html | 2 +-  
pyme-web/doc/gpgme/Contexts.html | 2 +-  
pyme-web/doc/gpgme/Error-Handling.html | 2 +-  
pyme-web/doc/gpgme/Exchanging-Data.html | 2 +-  
pyme-web/doc/gpgme/Function-and-Data-Index.html | 2 +-  
pyme-web/doc/gpgme/Introduction.html | 4 +-  
pyme-web/doc/gpgme/Library-Copying.html | 2 +-  
pyme-web/doc/gpgme/Preparation.html | 2 +-  
pyme-web/doc/gpgme/Protocols-and-Engines.html | 2 +-  
pyme-web/doc/gpgme/index.html | 229 +-----------------------  
11 files changed, 12 insertions(+), 239 deletions(-)

commit 4f57c0cccb049d4442e7732e2d1d05dabfffd2a21d  
Author: belyi <devnull@localhost>
Date: Wed Apr 2 06:12:57 2008 +0000

Add missing core.set_locale() to set default locale for contexts.

pyme/debian/changelog | 2 +-  
pyme/pyme/core.py     | 4 ++++  
2 files changed, 5 insertions(+), 1 deletion(-)

commit acf7ead3dea8590cf9fe86b67bb125837ad6ed4f  
Author: belyi <devnull@localhost>  
Date: Wed Apr 2 05:50:24 2008 +0000

Avoid leaks caused by keys.
Add set/get methods for engine info.

pyme/debian/changelog | 10 ++++++++  
pyme/pyme/core.py     | 24 ++++++++++++++++++++  
2 files changed, 34 insertions(+)

commit df4a2fb518adbb6420d95ce74af212c87abff7e7  
Author: belyi <devnull@localhost>  
Date: Wed Apr 2 04:04:41 2008 +0000

Update index.html to reflect new versions on the web.

pyme-web/Makefile             | 3 ++-  
pyme-web/doc/gpgme/index.html | 4 +++-  
pyme-web/index.html           | 4 +++-  
3 files changed, 5 insertions(+), 6 deletions(-)

commit bd3ffcc9bd9df6aafde6b689c6c8215fa468612d  
Author: belyi <devnull@localhost>  
Date: Wed Apr 2 04:01:04 2008 +0000

Update PyMe documentation to match 0.8.0 version of the package.

pyme-web/doc/pyme/index.html                       | 14 +++-----  
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 1 +  
pyme-web/doc/pyme/pyme.constants.protocol.html    | 4 ++-  
pyme-web/doc/pyme/pyme.constants.status.html      | 9 +++++++  
pyme-web/doc/pyme/pyme.core.html                  | 36 ++++++++++++++++++++++  
pyme-web/doc/pyme/pyme.errors.html                | 8 +++++  
pyme-web/doc/pyme/pyme.html                       | 14 +++++++  
pyme-web/doc/pyme/pyme.util.html                  | 17 +++++++  
pyme-web/doc/pyme/pyme.version.html               | 14 +++++++  
9 files changed, 82 insertions(+), 35 deletions(-)

commit 6973a69a317608a0d0661590d701f4e3f3a21b32
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 02:35:24 2008 +0000

Have a fix for Contents being put onto 'Function and Data Index' page.

pyme-web/doc/gpgme/Concept-Index.html | 2 +-  
pyme-web/doc/gpgme/Function-and-Data-Index.html | 153 +-----------  
pyme-web/doc/gpgme/index.html | 154 +++++++++++++++++++++++-  
3 files changed, 155 insertions(+), 154 deletions(-)

commit 086315964cbe2abad1187f306dcb9c72ac3257f3  
Author: belyi <devnull@localhost>  
Date:   Wed Apr 2 01:00:29 2008 +0000

Update GPGME documentation. It's for v1.1.6 now.

pyme-web/doc/gpgme/ASCII-Armor.html | 57 ++  
pyme-web/doc/gpgme/Advanced-Key-Editing.html | 98 +++  
pyme-web/doc/gpgme/Algorithms.html | 47 ++  
pyme-web/doc/gpgme/Building-the-Source.html | 82 +++  
.../doc/gpgme/Callback-Based-Data-Buffers.html | 148 ++++  
pyme-web/doc/gpgme/Cancellation.html | 67 ++  
pyme-web/doc/gpgme/Concept-Index.html | 186 +++++  
pyme-web/doc/gpgme/Context-Attributes.html | 52 ++  
pyme-web/doc/gpgme/Contexts.html | 61 ++  
pyme-web/doc/gpgme/Creating-Contexts.html | 49 ++  
pyme-web/doc/gpgme/Creating-Data-Buffers.html | 47 ++  
pyme-web/doc/gpgme/Creating-a-Signature.html | 143 ++++  
pyme-web/doc/gpgme/Crypto-Engine.html | 79 +++  
pyme-web/doc/gpgme/Crypto-Operations.html | 67 ++  
.../doc/gpgme/Cryptographic-Message-Syntax.html | 42 ++  
.../doc/gpgme/Data-Buffer-I_002fO-Operations.html | 104 ++++  
pyme-web/doc/gpgme/Data-Buffer-Meta_002dData.html | 100 +++  
pyme-web/doc/gpgme/Decrypt-and-Verify.html | 79 +++  
pyme-web/doc/gpgme/Decrypt.html | 123 ++++  
pyme-web/doc/gpgme/Deleting-Keys.html | 67 ++  
pyme-web/doc/gpgme/Destructing-Contexts.html | 46 ++  
pyme-web/doc/gpgme/Destructing-Data-Buffers.html | 70 +++  
pyme-web/doc/gpgme/Encrypt.html | 45 ++  
pyme-web/doc/gpgme/Encrypting-a-Plaintext.html | 147 ++++++  
pyme-web/doc/gpgme/Engine-Configuration.html | 65 ++  
pyme-web/doc/gpgme/Engine-Information.html | 119 ++++  
pyme-web/doc/gpgme/Engine-Version-Check.html | 48 ++  
pyme-web/doc/gpgme/Error-Codes.html | 133 ++++  
pyme-web/doc/gpgme/Error-Handling.html | 72 +++  
pyme-web/doc/gpgme/Error-Sources.html | 89 +++  
pyme-web/doc/gpgme/Error-Strings.html | 80 +++  
pyme-web/doc/gpgme/Error-Values.html | 159 ++++
<table>
<thead>
<tr>
<th>File Path</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>pyme-web/doc/gpgme/Exchanging-Data.html</td>
<td>58 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Exporting-Keys.html</td>
<td>101 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Features.html</td>
<td>59 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/File-Based-Data-Buffers.html</td>
<td>74 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Function-and-Data-Index.html</td>
<td>380 +++++++++++++++++++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Generating-Keys.html</td>
<td>144 +++++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Getting-Started.html</td>
<td>55 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Hash-Algorithms.html</td>
<td>59 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Header.html</td>
<td>53 ++</td>
</tr>
<tr>
<td>.../doc/gpgme/I/O-Callback-Example-GDK.html</td>
<td>85 +++</td>
</tr>
<tr>
<td>.../gpgme/I/O-Callback-Example-GTK_b.html</td>
<td>86 +++</td>
</tr>
<tr>
<td>.../gpgme/I/O-Callback-Example-Qt.html</td>
<td>99 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/I/O-Callback-Example.html</td>
<td>259 ++++++++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/I/O-Callback-Interface.html</td>
<td>142 +++++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Importing-Keys.html</td>
<td>171 +++++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Included-Certificates.html</td>
<td>70 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Information-About-Keys.html</td>
<td>207 +++++++</td>
</tr>
<tr>
<td>.../doc/gpgme/Information-About-Trust-Items.html</td>
<td>75 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Introduction.html</td>
<td>53 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Key-Listing-Mode.html</td>
<td>99 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Key-Management.html</td>
<td>260 +++++++++++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Key-Signatures.html</td>
<td>130 +++++</td>
</tr>
<tr>
<td>.../doc/gpgme/Largefile-Support_0028LFS_0029.html</td>
<td>110 +++++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Library-Copying.html</td>
<td>542 ++++++++++++++++++++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Library-Version-Check.html</td>
<td>97 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Listing-Keys.html</td>
<td>204 +++++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Listing-Trust-Items.html</td>
<td>88 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Locale.html</td>
<td>69 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Manipulating-Data-Buffers.html</td>
<td>45 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Manipulating-Keys.html</td>
<td>63 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Manipulating-Trust-Items.html</td>
<td>62 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Memory-Based-Data-Buffers.html</td>
<td>107 +++++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Multi-Threading.html</td>
<td>93 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/OpenPGP.html</td>
<td>44 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Overview.html</td>
<td>57 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Passphrase-Callback.html</td>
<td>101 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Preparation.html</td>
<td>54 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Progress-Meter-Callback.html</td>
<td>80 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Protocol-Selection.html</td>
<td>60 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Protocols-and-Engines.html</td>
<td>82 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Public-Key-Algorithms.html</td>
<td>74 +++</td>
</tr>
<tr>
<td>.../doc/gpgme/Registering-I/O-Callbacks.html</td>
<td>81 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Run-Control.html</td>
<td>53 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Selecting-Signers.html</td>
<td>64 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Sign.html</td>
<td>50 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Signal-Handling.html</td>
<td>61 ++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Signature-Notation-Data.html</td>
<td>85 +++</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/Text-Mode.html</td>
<td>63 ++</td>
</tr>
</tbody>
</table>
Update Home page to be a bit more visitor friendly.

Add a rule to build binary distribution for Windows.

Switch to using central location for python files (pycentral)
Update docs rule to fix location of the python source files.
Author: belyi <devnull@localhost>
Date:   Sun Mar 23 02:01:12 2008 +0000

Turn SWIG's autodoc feature on. Ignore 'next' in the types which are lists now.
Use new style for class declarations. Specify None as a default value for
core.check_version() method. Update version.py for 0.8.0 version.

pyme/examples/pygpa.py | 2 +-  
pyme/gpgme.i          | 5 ++++++  
pyme/pyme/core.py     | 2 +-  
pyme/pyme/util.py     | 5 ++++-  
pyme/pyme/version.py  | 6 +++--  
5 files changed, 13 insertions(+), 7 deletions(-)

commit df5e25d7ee4dc0aa0d429f9d009322dd8ac33bb8
Author: belyi <devnull@localhost>
Date:   Thu Mar 20 19:07:00 2008 +0000

Improve matching for DEPRECATED typedefs

pyme/gpgme-h-clean.py | 4 ++--  
1 file changed, 2 insertions(+), 2 deletions(-)

commit 78d8fc732848ac267ec65e9069265cd500587cdf
Author: belyi <devnull@localhost>
Date:   Wed Mar 19 19:28:40 2008 +0000

Update API to use list when types containing 'next' field are return.
Update examples accordingly
Add verifydetails.py example
Start adding bullets for 0.8.0 version.

pyme/Makefile        | 2 +-  
pyme/debian/changelog | 14 ++++++++  
pyme/examples/PyGtkGpgKeys.py | 53 ++++++++++++++++++++++++++++++++  
pyme/examples/delkey.py    | 7 ++-  
pyme/examples/encrypt-to-all.py | 7 +++-  
pyme/examples/exportimport.py | 7 ++-  
pyme/examples/pygpa.py     | 70 ++++++++++++++++++++++++++++++++  
pyme/examples/signverify.py | 11 ++++-  
pyme/examples/verifydetails.py | 79 +++++++++++++++++++++++++++++++++++++++  
pyme/gpgme.i             | 19 ++++++++++  
10 files changed, 180 insertions(+), 89 deletions(-)

commit 342d85b07475e7360bcd62804bf5facda039494f
Author: belyi <devnull@localhost>
Date:   Mon Mar 10 01:14:16 2008 +0000
Change references to source files so that they point to the WebCVS browse location.

```plaintext
pyme-web/doc/pyme/index.html | 2 +-  
pyme-web/doc/pyme/pyme.callbacks.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.data.encoding.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.data.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.event.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.import.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.keylist.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.md.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.pk.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.protocol.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.sig.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.sig.mode.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.sigsum.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.status.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.validity.html | 2 +-  
pyme-web/doc/pyme/pyme.core.html | 2 +-  
pyme-web/doc/pyme/pyme.errors.html | 2 +-  
pyme-web/doc/pyme/pyme.html | 2 +-  
pyme-web/doc/pyme/pyme.util.html | 2 +-  
pyme-web/doc/pyme/pyme.version.html | 2 +-  
22 files changed, 22 insertions(+), 22 deletions(-)
```

commit 4139dd1d066c1a6c892d84fe45dc3e6c4aa1b803
Author: belyi <devnull@localhost>
Date: Sat Mar 8 18:21:08 2008 +0000

Add core.check_version(None) to all examples since this function is used by Gpgme to do internal initialization. Update debian/rules to use dh_pysupport instead of deprecated dh_python.

```plaintext
pyme/debian/rules               | 8 +++-----  
pyme/examples/PyGtkGpgKeys.py   | 7 +++++---  
pyme/examples/delkey.py         | 2 ++       
pyme/examples/encrypt-to-all.py | 3 +++       
pyme/examples/exportimport.py   | 2 ++       
pyme/examples/genkey.py         | 1 +        
pyme/examples/inter-edit.py     | 3 +++       
pyme/examples/pygpa.py          | 5 +++++     
pyme/examples/sign.py           | 2 ++       
pyme/examples/signverify.py     | 2 ++       
pyme/examples/simple.py         | 2 ++       
pyme/examples/t-edit.py         | 3 +++       
12 files changed, 34 insertions(+), 6 deletions(-)
```
Change name of internal package name from 'gpgme' to 'pygpgme' to avoid conflict with gpgme.dll on Windows.
Fix build with SWIG 1.3.28.
Change version to 0.7.1 in a preparation for new release.

pyme/Makefile | 3 +-
pyme/debian/changelog | 12 ++++
pyme/gpgme.i | 19 +++---
pyme/pyme/callbacks.py | 1 -
pyme/pyme/core.py | 153 ++++++++++++++++++++++++++++++++++++-
pyme/pyme/errors.py | 12 +++
pyme/pyme/util.py | 10 ++--
pyme/pyme/version.py | 2 -
pyme/setup.py | 4 +-
9 files changed, 116 insertions(+), 100 deletions(-)

Put all constants into pyme.constants package to avoid stepping on python reserved words.
Add build rules for Mingw32 and Cygwin on Windows. Rules for Mingw under Debian are still to come.
Fixed a small bug in pygpa.py example.

pyme/Makefile | 11 +++++++++----
pyme/examples/pygpa.py | 3 +
pyme/pyme/__init__.py | 2 +
pyme/pyme/constants/__init__.py | 3 ++
pyme/setup.py | 42 ++++++++++++++++++++++++++++++++++++-
5 files changed, 51 insertions(+), 10 deletions(-)

Imported changes provided by Joost van Baal:
Use dh_python in debian/rules and change the Section pyme belongs to from 'libs' to 'python'.

pyme/debian/control | 6 +++-
pyme/debian/rules | 2 ++
Update 'docs' rule in Makefile to build packages first to ensure that documentation is build for the current version of pyme and not for the installed one.

Added 'callbacks' into the list of visible pyme modules (__all__ var.)

Slightly updated INSTALL file.

3 files changed, 11 insertions(+), 6 deletions(-)

Update pyme documentation to remove dead links to pyme.gpgme.html and pyme._gpgme.html.

Added reference to the installed GPGME and PyMe documentation to the head web page.

Updated Makefile to install all *.html files and to clean *~ files in all subdirectories.

8 files changed, 19 insertions(+), 41 deletions(-)

Added pyme and gpgme documentation.

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 2240
pyme-web/doc/gpgme/gpgme_10.html | 61 ++
pyme-web/doc/gpgme/gpgme_11.html | 130 ++++
pyme-web/doc/gpgme/gpgme_12.html | 82 +++
pyme-web/doc/gpgme/gpgme_13.html | 130 ++++
pyme-web/doc/gpgme/gpgme_14.html | 108 ++++
pyme-web/doc/gpgme/gpgme_15.html | 69 +++
pyme-web/doc/gpgme/gpgme_16.html | 169+++++
pyme-web/doc/gpgme/gpgme_17.html | 63 ++
pyme-web/doc/gpgme/gpgme_18.html | 63 ++
pyme-web/doc/gpgme/gpgme_19.html | 66 ++
pyme-web/doc/gpgme/gpgme_2.html | 79 +++
pyme-web/doc/gpgme/gpgme_20.html | 120 ++++
pyme-web/doc/gpgme/gpgme_21.html | 102 +++
pyme-web/doc/gpgme/gpgme_22.html | 108 ++++
pyme-web/doc/gpgme/gpgme_23.html | 237++++++
pyme-web/doc/gpgme/gpgme_24.html | 154+++++
pyme-web/doc/gpgme/gpgme_25.html | 248++++++++
pyme-web/doc/gpgme/gpgme_26.html | 107 ++++
pyme-web/doc/gpgme/gpgme_27.html | 80 ++
pyme-web/doc/gpgme/gpgme_28.html | 67 ++
pyme-web/doc/gpgme/gpgme_29.html | 164+++++
pyme-web/doc/gpgme/gpgme_3.html | 86 ++
pyme-web/doc/gpgme/gpgme_30.html | 106++++
pyme-web/doc/gpgme/gpgme_31.html | 232++++++
pyme-web/doc/gpgme/gpgme_32.html | 85++
pyme-web/doc/gpgme/gpgme_33.html | 223++++++
pyme-web/doc/gpgme/gpgme_34.html | 83+++ 
pyme-web/doc/gpgme/gpgme_35.html | 70+++ 
pyme-web/doc/gpgme/gpgme_36.html | 63++
pyme-web/doc/gpgme/gpgme_37.html | 66++
pyme-web/doc/gpgme/gpgme_38.html | 86+++ 
pyme-web/doc/gpgme/gpgme_39.html | 79+++ 
pyme-web/doc/gpgme/gpgme_4.html | 83+++ 
pyme-web/doc/gpgme/gpgme_40.html | 89+++ 
pyme-web/doc/gpgme/gpgme_41.html | 99+++ 
pyme-web/doc/gpgme/gpgme_42.html | 144++++++ 
pyme-web/doc/gpgme/gpgme_43.html | 152++++++ 
pyme-web/doc/gpgme/gpgme_44.html | 112++++++ 
pyme-web/doc/gpgme/gpgme_45.html | 101+++ 
pyme-web/doc/gpgme/gpgme_46.html | 459+++++++++++++
pyme-web/doc/gpgme/gpgme_47.html | 292+++++++ 
pyme-web/doc/gpgme/gpgme_48.html | 363+++++++++++ 
pyme-web/doc/gpgme/gpgme_49.html | 209+++++++ 
pyme-web/doc/gpgme/gpgme_5.html | 74+++ 
pyme-web/doc/gpgme/gpgme_50.html | 88+++ 
pyme-web/doc/gpgme/gpgme_51.html | 208+++++++ 
pyme-web/doc/gpgme/gpgme_52.html | 154++++++ 
pyme-web/doc/gpgme/gpgme_53.html | 291+++++++
Added INSTALL file.

commit 2d6fe54479f042644f7b0f3d2fe35877d2056144
 Author: belyi <devnull@localhost>
 Date:   Thu May 19 02:06:09 2005 +0000

 1 file changed, 10 insertions(+)

commit d6892fff0c3cedf41dba4c25ab8608e7f2bc039c
 Author: belyi <devnull@localhost>
 Date:   Tue May 17 16:49:28 2005 +0000

 Update copyright note on simple.py

commit c2cd9cdf5995843aad7b200b929db2969effc9d2
 Author: belyi <devnull@localhost>
 Date:   Tue May 17 15:03:58 2005 +0000

 Update simple.py to catch errors.

commit eaedae7c6a0ea993caab067efe781a59b6769c44
 Author: belyi <devnull@localhost>
 Date:   Tue May 17 01:18:23 2005 +0000
Added 'PYTHON = python' into Makefile for bug #1199122

pyme/Makefile | 1 +
pyme/examples/signverify.py | 1 +
2 files changed, 2 insertions(+)

commit 56fd244bb2636a4d58629899ea3cde1d96428198
Author: belyi <devnull@localhost>
Date: Wed Apr 27 21:37:06 2005 +0000

Added pygpa example.

pyme/debian/changelog | 3 +-  
pyme/examples/pygpa.glade | 5546 +++++++++++++++++++++++++++++++++++++++++++++
pyme/examples/pygpa.py | 1459 ++++++++  
3 files changed, 7007 insertions(+), 1 deletion(-)

commit 2d9a2a91a59ae3fee5410c953b7e0859e9e7cd35
Author: belyi <devnull@localhost>
Date: Thu Apr 21 15:17:51 2005 +0000

Change version to 0.7.0 due to the change in license.

pyme/debian/changelog | 2 +-  
pyme/pyme/version.py | 2 +-  
2 files changed, 2 insertions(+), 2 deletions(-)

commit 94e34e38d742f145385bd235825b66a1e30d8339
Author: belyi <devnull@localhost>
Date: Thu Apr 21 03:53:12 2005 +0000

Changed license on PyMe from GPL to LGPL.
PyMe examples keep GPL license.

pyme/COPYING.LESSER | 510 ++++++++++++++++++++++++++++++++++++++++++++  
pyme/Makefile | 20 +-
pyme/debian/changelog | 4 +-  
pyme/debian/copyright | 22 +-  
pyme/gpgme-h-clean.py | 16 ++  
pyme/gpgme.i | 20 +-  
pyme/helpers.c | 20 +-  
pyme/helpers.h | 20 +-  
pyme/pyme/__init__.py | 20 +-  
pyme/pyme/callbacks.py | 20 +-  
pyme/pyme/constants/data/encoding.py | 20 +-  
pyme/pyme/constants/event.py | 20 +-  
pyme/pyme/constants/import.py | 20 +-  
pyme/pyme/constants/keylist/mode.py | 20 +-
Added __hash__ and __eq__ methods to GpgmeWrapper to allow both Context() and Data() to be used as a dictionary key.
Changed core.wait() function to always return a tuple. On timeout now it returns (0, None) instead of just None. Plus, return context is now a Context() object instead of a wrapper return by underlying gpgme.
commit 8f0ab8138c7aa190936376ccbbf33bb09c64d6f1
Author: belyi <devnull@localhost>
Date: Thu Mar 31 23:50:59 2005 +0000

Added exception handling in passphrase_cb and edit_cb. If GPGMEEr-
ner exception is thrown in those callbacks it will be converted into its
core representation and return as an error code to the caller.
On all other exceptions error code will be GPG_ERR_GENERAL.

commit 9903d1f11231e7e3d920e58d1ecb674c5988b07
Author: belyi <devnull@localhost>
Date: Thu Mar 31 05:12:15 2005 +0000

Remove workaround from Context.wait() method since the bug report and
patch fixing gpgme_wait's behavior is sent to GPMGE developers already.
Added errorcheck into op_edit() so that it can report an error.

commit 45e8a5f4e13d3ca797ec3b0037242874a6be5562
Author: belyi <devnull@localhost>
Date: Sat Mar 26 19:44:18 2005 +0000

Updated version number to 0.6.2 in version.py
Added examples/*.glade files into documentation package.

commit 270b87bb40e180cb6e8f1de9a0e8161525ffa4ab
Author: belyi <devnull@localhost>
Date: Sat Mar 26 19:31:14 2005 +0000
Updated debian/changelog regarding PyGtkGpgKeys example and a fix in errors.

pyme/debian/changelog | 5 ++++-
1 file changed, 4 insertions(+), 1 deletion(-)

commit ea4682009a506db91e5174f0d038fe7e4406b591
Author: belyi <devnull@localhost>
Date: Sat Mar 26 19:25:36 2005 +0000

Added handling of right mouse button click.
Changed reporting a string instead of a number on key generation failure.

pyme/examples/PyGtkGpgKeys.glade | 2 ++
pyme/examples/PyGtkGpgKeys.py | 30 +++++++++++++++++++++++++++++++++--
2 files changed, 29 insertions(+), 3 deletions(-)

commit f65ad1a703d0098a3204f8527a54d253e5847e7
Author: belyi <devnull@localhost>
Date: Sat Mar 26 18:11:11 2005 +0000

Added another column indicating if a key has a secret part.
Automated generation of the View menu from the view field of the KeyColumn class.

pyme/examples/PyGtkGpgKeys.glade | 93 +--------------------------------------
pyme/examples/PyGtkGpgKeys.py | 74 +++++++++++++++++---------------
2 files changed, 44 insertions(+), 123 deletions(-)

commit b54e83a7a7a5785502f3c7e8b95f15e23b40e65a
Author: belyi <devnull@localhost>
Date: Sat Mar 26 16:45:13 2005 +0000

Small change to the way gtk.TreeModel object is used.

pyme/examples/PyGtkGpgKeys.py | 21 +++++++++++++++++-------
1 file changed, 10 insertions(+), 11 deletions(-)

commit 7078db75cef4c1fd70cf03e37172bdf4f933fd1b
Author: belyi <devnull@localhost>
Date: Fri Mar 25 23:33:06 2005 +0000

Use more comprehensible error reporting since gpgme_strerror_r returns None all the time.

pyme/pyme/errors.py | 6 ++++
1 file changed, 3 insertions(+), 3 deletions(-)

commit 151213f4344d9984975721440af07de09e3df61c
Improved PyGtkGpgKeys example to manage owner_trust on keys.
Added another example inter-edit.py which is just a helper to write
scripts for Context.op_edit() command.

commit fc7235af217bcee5231ce7fb7f234712d5ad3b0
Author: belyi <devnull@localhost>
Date:   Fri Mar 25 00:30:39 2005 +0000

Updated PyGtkGpgKeys example to include import, export and reload
functionality. Also added ability to remove number of keys simultaneously.
Rearanged how KeyColumn is used to avoid unnecessary sorts and duplication
of information in different parts of the code.

commit 9f65749ccb1b7cab562e19c03f4371d5f7d94912
Author: belyi <devnull@localhost>
Date:   Thu Mar 24 05:51:03 2005 +0000

Added example of PyGTK+ and PyMe integration.
For now it does only simple things - listing, deleting, and generating keys.

commit 59e23f32c3b46413c9ec09e23e1a385a110fb103
Author: belyi <devnull@localhost>
Date:   Thu Mar 24 05:44:58 2005 +0000

Added wait method Context class which handles asynchronous calls a little
bit better than the one generated by SWIG.

commit 9f65749ccb1b7cab562e19c03f4371d5f7d94912
Author: belyi <devnull@localhost>
Date:   Thu Mar 24 05:51:03 2005 +0000

...
3 files changed, 48 insertions(+)

commit 4c1b5259e4985df2c60ae4fc09f12cd94603a75
Author: belyi <devnull@localhost>
Date:   Tue Mar 22 18:29:31 2005 +0000

Added correct handling of Context.op_edit() method.
Added example/t-edit.py showing usage for this method.
Output of this example should match output of the tests/gpg/t-edit
from the GPGME test suite.
Remove unused static function from helpers.c

pyme/examples/t-edit.py | 38 ++++++++++++++++++++++++++++++++++++++
pyme/gpgme.i            | 36 ++++++++++++++++++++++++++++++++++++
pyme/helpers.c          | 36 ------------------------------------
pyme/pyme/core.py       | 5 ++++
4 files changed, 78 insertions(+), 37 deletions(-)

commit dc587e215283bfe5dd594f86a7b2945f74f5155
Author: belyi <devnull@localhost>
Date:   Sat Mar 19 01:43:59 2005 +0000

Update changelog to include note about deprecated function in 0.6.1 release

pyme/debian/changelog           | 3 ++-
pyme/examples/encrypt-to-all.py | 3 +--
2 files changed, 3 insertions(+), 3 deletions(-)

commit 86de4b3ad77c7f980c77ba3462c85b8e1787d1fd
Author: belyi <devnull@localhost>
Date:   Sat Mar 19 01:40:07 2005 +0000

Remove deprecated functions from helpers.[ch]
Use gpgme-h-clean.py to remove deprecated functions and typedefs from
the GPGME header file. This will reduce the number of unused methods.

pyme/Makefile         | 4 ++--
pyme/gpgme-h-clean.py | 26 +++++++++++++++++++++++++++
pyme/helpers.c        | 8 --------
pyme/helpers.h        | 2 --
4 files changed, 28 insertions(+), 12 deletions(-)

commit 2483efcbdd073c628c4d7717928a766c3b58f0aa
Author: belyi <devnull@localhost>
Date:   Fri Mar 18 22:15:52 2005 +0000

Update copyright and author values in pyme/version.py
Create rules to build distribution files - one full and one without
debian bits.

pyme/Makefile       |  6 +++---
pyme/debian/changelog   |  7 ++++++
pyme/debian/control    | 30 +++++++++++++++++++++++++++++++---
pyme/debian/copyright   | 10 ++++++++------
pyme/debian/rules      |  4 ++++
pyme/debian/setup.cfg-2.4 |  8 +++++++
pyme/examples/genkey.py |  4 +++--
pyme/gpgme.i           |  4 +--
pyme/helpers.c         |  4 +--
pyme/helpers.h         |  4 +--
pyme/pyme/__init__.py   |  4 +--
pyme/pyme/callbacks.py |  4 +--
pyme/pyme/constants/data/encoding.py |  4 +--
pyme/pyme/constants/event.py |  4 +--
pyme/pyme/constants/import.py |  4 +--
pyme/pyme/constants/keylist/mode.py |  4 +--
pyme/pyme/constants/md.py  |  4 +--
pyme/pyme/constants/pk.py   |  4 +--
pyme/pyme/constants/protocol.py |  4 +--
pyme/pyme/constants/sig/mode.py |  4 +--
pyme/pyme/constants/sigsum.py |  4 +--
pyme/pyme/constants/status.py |  4 +--
pyme/pyme/constants/validity.py |  4 +--
pyme/pyme/core.py      |  4 +--
pyme/pyme/errors.py     |  4 +--
pyme/pyme/util.py       |  4 +--
pyme/pyme/version.py    |  2 +
pyme/setup.py           |  3 +--
28 files changed, 96 insertions(+), 54 deletions(-)

commit 168593285380f5a7805f3dd08657d429a72d3621
Author: belyi <devnull@localhost>
Date: Fri Mar 18 19:09:33 2005 +0000

Added package building for python2.4

Updated copyright notes to include myself and avoid confusion who's the maintainer. In John's own words: "I'd prefer to just step out of the picture". Jonh's copyright notice left intact.

commit 6dbbb252771133724b2879ed6d767cd708196dae
Author: belyi <devnull@localhost>
Date: Fri Mar 18 18:04:35 2005 +0000

Remove the note about gpgme.i to be generated - it's been the primary source for some time.

pyme/gpgme.i | 6 ------
1 file changed, 6 deletions(-)

commit 9d449fa4889c6bda6d14583c0625b8d5c4ffe759
Author: belyi <devnull@localhost>
Date: Fri May 7 18:31:22 2004 +0000

Added my copyright in genkey.py since there's enough changes made.
Updated signverify to use only keys generated by genkey.py, to check that keys added to singers are able to sign and to check that the list of signers is not empty. The last check is necessary to prevent signing with the key of the user running signverify.py script.
Added delkey.py script to delete keys generated by genkey.py
Added exportimport.py example for key export/import.

pyme/examples/delkey.py | 29 +++++++++++++++++
pyme/examples/exportimport.py | 76 ++++++++++++++++++++++++++++++++++++++
pyme/examples/genkey.py | 6 ++--
pyme/examples/signverify.py | 18 +++++----
4 files changed, 119 insertions(+), 10 deletions(-)

commit df98c8d28245ad2c14b0ab50fc8f8932853bec8b
Author: belyi <devnull@localhost>
Date: Tue May 4 17:34:15 2004 +0000

Added examples/signverify.py for unattended sign/verify.
Updated examples/genkey.py to work correctly.
Updated gpgme.i to allow None as a value for gpgme_data_t

pyme/examples/genkey.py | 14 ++-------
pyme/examples/signverify.py | 72 ++++++++++++++++++++++++++++++++++++++
pyme/gpgme.i | 21 +++++++++--
3 files changed, 87 insertions(+), 20 deletions(-)

commit ba45931abf530ab89ead46d7233ff1b62b629a18
Author: belyi <devnull@localhost>
Date: Thu Apr 8 16:15:09 2004 +0000

Ensure that we support only python2.2 and up. :-) Use generators in core.Context class which makes pyme.aux obsolete
Remove importing future nested_scopes since they are standard starting with python2.2
Small change to index.html
   Added clean: rule to the Makefile

  pyme/Makefile | 5 ++++
 1 file changed, 4 insertions(+), 1 deletion(-)

commit e3478015d763a036c1d806ae01433f8e9712004
Author: belyi <devnull@localhost>
Date:  Sun Mar 21 02:29:55 2004 +0000

   Added RCS Id: tags
Added Makefile to simplify publishing web files.

pyme-web/Makefile | 7 +++++++
1 file changed, 7 insertions(+)

commit af7129baa8260697d85c2ddbb3462ee8a80b62d8
Author: belyi <devnull@localhost>
Date: Sat Mar 20 20:15:53 2004 +0000

Added minimum of formatting and SF icon.

pyme-web/index.html | 18 ++++++-------
1 file changed, 11 insertions(+), 7 deletions(-)

commit 2e64dcbf99ceee796b516d67b04d8961e390edde87
Author: belyi <devnull@localhost>
Date: Sat Mar 20 18:30:09 2004 +0000

Initial revision

pyme-web/index.html | 33 +++++++++++++++++++++++++++++++++
1 file changed, 33 insertions(+)

commit 1c51644b30d0b6611422d971758e35f303d2ad5df
Author: belyi <devnull@localhost>
Date: Sat Mar 20 05:10:46 2004 +0000

Update examples and package information on the initial pyme doc page.

pyme/pyme/__init__.py | 27 +++++++---------------
1 file changed, 12 insertions(+), 15 deletions(-)

commit b2d31b0bfbbfdff5247d6db4e3c95140cc1b1f19
Author: belyi <devnull@localhost>
Date: Sat Mar 20 04:47:42 2004 +0000

Deleted unnecessary files.
Updated debian/control to remove dependency on python-xml package since there's none now.
Move example files from 'doc' into separate control file.
Update debian/rules to build documentation from *.py files and to exclude CVS directories from the installation.

pyme/Makefile                  | 26 +-----
pyme/debian/control           |  8 ++--
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 2255

pyme/debian/docs | 1 -
pyme/debian/ex.package.doc-base | 22 ------
pyme/debian/examples | 1 +
pyme/debian/manpage.1.ex | 60 ----------------
pyme/debian/manpage.sgml.ex | 152 ----------------------------------------
pyme/debian/rules | 12 ++--
8 files changed, 15 insertions(+), 267 deletions(-)

commit 1b517dd9b82a433499b4696b06d94d756cd36e53
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 02:59:15 2004 +0000

Remove doc/gpgme directory containing GPGME documentation since this belongs
to a different project. Need to add reference in our documentation.

pyme/doc/gpgme/fdl.texi | 402 ------
pyme/doc/gpgme/gpgme.texi | 3372 -------------------------------------------
pyme/doc/gpgme/gpl.texi | 397 ----
pyme/doc/gpgme/version.texi | 4 -
4 files changed, 4175 deletions(-)

commit 95d7d171da115a0fedfe2a4a7e5acc8aa408f673
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 02:45:03 2004 +0000

Change debian/rules to generate files by swig during build and to cleanup
those files on 'clean' rule.
Plus, leave generated gpgme_wrap.c in the root directory instead of moving
it into subdirectory 'generated'.

pyme/Makefile | 8 +++-----
pyme/debian/rules | 3 ++-
pyme/setup.py | 2 +-
3 files changed, 6 insertions(+), 7 deletions(-)

commit 545b3d90d445c5c78e8d72b2c1780863e02e789a
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 02:18:01 2004 +0000

Initial revision

pyme/COPYING | 340 ++++
pyme/ChangeLog | 802 +++++++
pyme/Makefile | 79 +
pyme/debian/README.Debian | 6 +
pyme/debian/changelog | 19 +
pyme/debian/control | 68 +
pyme/debian/copyright | 27 +
53 files changed, 7642 insertions(+)

- pyme/debian/dirs | 2 +
- pyme/debian/docs | 2 +
- pyme/debian/ex.package.doc-base | 22 +
- pyme/debian/manpage.1.ex | 60 +
- pyme/debian/manpage.sgml.ex | 152 ++
- pyme/debian/postinst.ex | 48 +
- pyme/debian/postrm.ex | 38 +
- pyme/debian/preinst.ex | 44 +
- pyme/debian/prerm.ex | 39 +
- pyme/debian/rules | 130 ++
- pyme/debian/setup.cfg-2.2 | 8 +
- pyme/debian/setup.cfg-2.3 | 8 +
- pyme/doc/gpgme/fdl.texi | 402 ++++
- pyme/doc/gpgme/gpgme.texi | 3372 ++++++++++++++++++++++++++++++++++++
- pyme/doc/gpgme/gpl.texi | 397 ++++
- pyme/doc/gpgme/version.texi | 4 +
- pyme/examples/encrypt-to-all.py | 63 +
- pyme/examples/genkey.py | 55 +
- pyme/examples/sign.py | 28 +
- pyme/examples/simple.py | 44 +
- pyme/gpgme.i | 191 ++
- pyme/helpers.c | 139 ++
- pyme/helpers.h | 29 +
- pyme/pyme/__init__.py | 134 ++
- pyme/pyme/aux.py | 55 +
- pyme/pyme/callbacks.py | 45 +
- pyme/pyme/constants/__init__.py | 2 +
- pyme/pyme/constants/data/__init__.py | 2 +
- pyme/pyme/constants/data/encoding.py | 19 +
- pyme/pyme/constants/event.py | 19 +
- pyme/pyme/constants/import.py | 19 +
- pyme/pyme/constants/keylist/__init__.py | 2 +
- pyme/pyme/constants/keylist/mode.py | 19 +
- pyme/pyme/constants/md.py | 19 +
- pyme/pyme/constants/pk.py | 19 +
- pyme/pyme/constants/protocol.py | 19 +
- pyme/pyme/constants/sig/__init__.py | 2 +
- pyme/pyme/constants/sig/mode.py | 19 +
- pyme/pyme/constants/sigsum.py | 19 +
- pyme/pyme/constants/status.py | 19 +
- pyme/pyme/constants/validity.py | 19 +
- pyme/pyme/core.py | 367 ++++
- pyme/pyme/errors.py | 46 +
- pyme/pyme/util.py | 61 +
- pyme/pyme/version.py | 39 +
- pyme/setup.py | 60 +
* In the beginning::
* Keeping the flame alive::
* Passing the torch::
* Coming full circle::

Relics of the past

* The Annoyances of Git::
* The Perils of PyPI::

The Perils of PyPI

* GPG 180 - Python bindings for GPGME GnuPG cryptography library::
* PyME 090 - Python support for GPGME GnuPG cryptography library::

@end detailmenu
@end menu

@node Overview
@chapter Overview

@multitable {aaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:
@tab 0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@gnupg.org>
@item Author GPG Key:
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D
@item Language:
@tab Australian English, British English
@item xml:lang:
@tab en-AU, en-GB, en
@end multitable

The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.

@menu
* In the beginning::
* Keeping the flame alive::
* Passing the torch::
* Coming full circle::
@end menu

@node In the beginning
In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG. Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he became the new maintainer for PyME, releasing version 0.9.0 in May of that year. He remains the maintainer of the original PyME release in Python 2.6 and 2.7 (available via PyPI).

In 2015 Ben McGinnes approached Martin about a Python 3 version, while investigating how complex a task this would be the task ended up being completed. A subsequent discussion with Werner Koch led to the decision to fold the Python 3 port back into the original GPGME release in the languages subdirectory for non-C bindings under the module name of `pyme3`.

In 2016 this PyME module was integrated back into the GPGME project by Justus Winter. During the course of this work Justus adjusted the port to restore limited support for Python 2, but not as many minor point releases as the original PyME package supports. During the course of this integration the package was renamed to more accurately reflect its status as a component of GPGME. The `pyme3` module was renamed to `gpg` and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this Ben returned to maintain of gpgme Python bindings and continue
building them from that point.

@node Relics of the past
@chapter Relics of the past

There are a few things, in addition to code specific factors, such as SWIG itself, which are worth noting here.

@menu
* The Annoyances of Git::
* The Perils of PyPI::
@end menu

@node The Annoyances of Git
@section The Annoyances of Git

As anyone who has ever worked with git knows, submodules are horrible way to deal with pretty much anything. In the interests of avoiding migraines, that was skipped with addition of the PyME code to GPGME.

Instead the files were added to a subdirectory of the @samp{lang/} directory, along with a copy of the entire git log up to that point as a separate file within the @samp{lang/python/docs/} directory.\footnote{The entire PyME git log and other preceding VCS logs are located in the @samp{gpgme/lang/python/docs/old-commits.log} file.} As the log for PyME is nearly 100KB and the log for GPGME is approximately 1MB, this would cause considerable bloat, as well as some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the files. A regular repository version has been maintained should it be possible to implement this better in the future.

@node The Perils of PyPI
@section The Perils of PyPI

The early port of the Python 2 @samp{pyme} module as @samp{pyme3} was never added to PyPI while the focus remained on development and testing during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from @samp{pyme3} to @samp{gpg}, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME libraries in order to function, it was determined that there was little benefit in also providing a copy through PyPI since anyone obtaining the GPGME source code would obtain the Python bindings
source code at the same time. Whereas there was the potential to sew confusion amongst Python users installing the module from PyPI, only to discover that without the relevant C files, header files or SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI which might turn up in a search for this module or a sample of its content:

@enumerate
@item
gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library
@item
pyme (0.9.0) - Python support for GPGME GnuPG cryptography library
@end enumerate

@menu
* GPG 180 - Python bindings for GPGME GnuPG cryptography library::
* PyME 090 - Python support for GPGME GnuPG cryptography library::
@end menu

@node GPG 180 - Python bindings for GPGME GnuPG cryptography library
@subsection GPG 180 - Python bindings for GPGME GnuPG cryptography library

This is the most recent version to reach PyPI and is the version of the official Python bindings which shipped with GPGME 1.8.0. If you have GPGME 1.8.0 installed and @emph{only} 1.8.0 installed, then it is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME 1.8.0, the GnuPG Project recommends not using this version of the module and instead installing the current version of GPGME along with the Python bindings included with that package.

@node PyME 090 - Python support for GPGME GnuPG cryptography library
@subsection PyME 090 - Python support for GPGME GnuPG cryptography library

This is the last release of the PyME bindings maintained by Martin Albrecht and is only compatible with Python 2, it will not work with Python 3. This is the version of the software from which the port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous points of similarity, but also significant differences. It is likely that the more recent official bindings will feel "more pythonic."

For those using Python 2, there is essentially no harm in using this module, but it may lack a number of more recent features
added to GPGME.

@bye
# -*- mode: org -*-
#+TITLE: GNU Privacy Guard (GnuPG) Made Easy Python Bindings
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: \[12pt\]
#+LATEX_HEADER: \usepackage{xlttra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* GPGME Python Bindings

:PROPERTIES:
:CUSTOM_ID: top
:END:

** Contents

:PROPERTIES:
:CUSTOM_ID: contents
:END:

- [[file:short-history][A short history of the project]]
- [[file:what-is-new][What's New]]
- [[file:maintenance-mode][Maintenance Mode]] (from January, 2019)
- [[file:what-was-new][What Was New]]
- [[file:gpgme-python-howto][GPGME Python Bindings HOWTO]]

-----BEGIN PGP PUBLIC KEY BLOCK-----

mQENBFrsKEkBACDkW4Wt8j6M/88qdO6flSCxH1cpwhH8iK0uPaFFYsJkXo7kWf
PTAtrV+R6qf/o80dvYcdLrRsV21pvncZz/HXLu1yQi1mC3XObrKokbdgrTTKA5XE
BZKnqsyaMMJu8T18H4YKs8h6/tDd01cu/zWv/LfF7Xynv6+uA74ovXCJf0l502c
PShtr98QRzPMf2owgVkJ7JnDnP4gGVDGHxSZoUwXgYAZYnA8SFsc+c+3ZrQfY870
+O4j3Mz4p7yD13AwP4buQLBsb/fcxekeQCqpRJhLH9f7MdEcGXa1x36RcEkHdu+M
yJ392eMgD+dKNfRCtyTPhjZTxvbNELIBYICfABEBAAG0EHRlrcmAZXhhhXBSZ5v
cmeJAVqEwElAD4WIQTUFzW5Ej8uIIEjFojAWNe7/DBLQUCWwosQIhAwUJA8Jn
AAULCQgHAgYVCgkICwIEFgIDAQleAQIXgAAKCRAtgAWNe7/DBLQ9k/b/wQO/S60HGw
Fq07W9N01HWUL+yhHKoMncHLofZ64oDqLxolPSazs7WAMW1jN4qtWJ0mFzwO83V6
kaBe+wf6Kqir6udFSB29w9rPcFG6/VTXPltT0afuaclHqf6DYQ5iMW4YWQWv9Y9OR2rN
GkYo1JCBfROxJRXYS3yB4TWv/eXnZ37/WjmTOILZ35rs+nuU/S5PdAfAp2/k7
0DevQeFs+u/1yJXwpN7TzmpvDnd99uSmC6UY4hzyP84ORYMYn9n1qAR0goxDN6U
unOf9Rlp1oMzdXmool/d1MICxg2h3jheuv7lgUF4KpHOuEPXQ7U0417E0TY0cDZ
1J8Nsv875SeEuQENBFrsKEkBACDjoEBhG/QPqZHGvYvoD1xYRAWgyDJX/GrSs6

-----END PGP PUBLIC KEY BLOCK-----
At first, make sure that the environment you want to use gpgme.js in has access and permissions for nativeMessaging, and gpgme-json installed. For details, see the README.

The library itself is started via the [@link init] method. This will test the nativeMessaging connection, and then resolve into an Object offering the top level API:

* [encrypt] [@link GpgME#encrypt]

* [decrypt] [@link GpgME#decrypt]

* [sign] [@link GpgME#sign]

* [verify] [@link GpgME#verify]

* [Keyring] [@link GPGME_Keyring]

```javascript
gpgmejs.init()
.then(function(GPGME) {
  // using GPGME
  function(error){
    // error handling;
  }
});
```

All methods that require communication with nativeMessaging are asynchronous, using Promises. Rejections will be instances of [@link GPGME_Error].

An exception are Keys, which can be initialized in a 'sync' mode, allowing them to be cached and used synchronously until manually refreshed.

Keyring and Keys

-----------
The gnupg keys can be accessed via the [Keyring][@link GPGME_Keyring].
The Keyring offers the methods for accessing information on all Keys known to gnupg.

**Due to security constraints, the javascript-binding currently only offers limited support for secret-Key interaction.**

The existence of secret Keys is not secret, and those secret Keys can be used for signing, but Operations that may expose, modify or delete secret Keys are not supported.

* [getKeysArmored]{@link GPGME_Keyring#getKeysArmored}
* [getKeys]{@link GPGME_Keyring#getKeys}
* [getDefaultKey]{@link GPGME_Keyring#getDefaultKey}
* [generateKey]{@link GPGME_Keyring#generateKey}
* [deleteKey]{@link GPGME_Keyring#deleteKey}

\input texinfo
@c -*- texinfo -*-
@c %**start of header
@setfilename what-is-new.info
@settitle What's New in the GPGME Python Bindings and Documentation
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title What's New in the GPGME Python Bindings and Documentation
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top What's New in the GPGME Python Bindings and Documentation
@end ifnottex

@menu
* What's New::

@detailmenu
--- The Detailed Node Listing ---

What's New

* New in GPGME 1130::

@end detailmenu
@end menu

@node What's New
@chapter What's New

@multitable{aa\cdots}
| Version: | 0.0.1 |
| GPGME Version: | 1.13.0 |
| Author: | Ben McGinnes <ben@@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language: | Australian English, British English |
| xml:lang: | en-AU, en-GB, en |
@end multitable

Last time the most obviously new thing was adding the @emph{What's New} section to the HOWTO. Now it's moving it out of the HOWTO.

@menu
* New in GPGME 1130::
@end menu

@node New in GPGME 1130
@section New in GPGME 1130

Additions since GPGME 1.12.0 include:

@itemize
@item
Moving the @emph{What's New} section out of the basic @uref{gpgme-python-howto.org, HOWTO} document and into its own file so as to more readily include other documents beyond that HOWTO.
@item
Moving the preceding, archival, segments into @uref{what-was-new.org, another file}.
@item
Added @samp{gpg.version.versionintlist} to make it easier for Python developers to check for a specific version number, even with beta versions (it will drop the "-betaN" part).
@item
Added expanded detail on issues pertaining to installing for Windows users.
@end itemize
Bindings enter @uref{maintenance-mode, maintenance mode} from January, 2019.

@item

Added documentation on maintenance mode and what changes can be made to the code when in that status. Essentially that boils down to bug fixes only and no feature requests.

@item

The import-keys-hkp.py example script, which uses the @samp{hkp4py} module to search the SKS servers for a key, has been tightened up to search for both hexadecimal key IDs and user ID strings with reduced chance of unnecessary repetition. There may still be some repetition if a key includes a user ID matching the hexadecimal value of a key ID.

@end itemize

@end

(21:protected-private-key(3:elg(1:p129:W#})])]:m>
:4YV5Qg
LoLy=*Tru*+ID8"-9::17^g*((#7)(1:g1):(1:y128:2o62,Tj/
rRi3sSSiCAYNYbVtAHKi7(UPp)?Od[R^f)(9:protected25:openpgp-s2k3-sha1-aes-
cbc((4:sha18:fw`E7:5242880)16:aqR)192:5f1a-`{^EV699WoB:,Rs1*W6LuiZ
:=ZqURM47:pA3#DL
so8O)Th^P@IP0&:DR;"rkN7)(12:protected-at15:20101008T070216)))
For a list of the authors of the source code of GPGME, please see the file AUTHORS. The following people supported GPGME development in various ways (for example by finding bugs or giving advice), and we want to thank them for their help. If we forgot you, please let us know.

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implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

;;; gpgme-grovel.lisp

;;; This file is part of GPGME-CL.
;;;
;;; GPGME-CL is free software; you can redistribute it and/or modify it
;;; under the terms of the GNU General Public License as published by
;;; the Free Software Foundation; either version 2 of the License, or
;;; (at your option) any later version.
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

(in-package :gpgme)

(include "errno.h" "sys/types.h")

(constant (+ebadf+ "EBADF"))

(ctype off-t "off_t")
(ctype size-t "size_t")
(ctype ssize-t "ssize_t")

(cvar ("errno" *errno*) :int)
# This is a template. The dist target uses it to create the real file.
Summary: GPGME - GnuPG Made Easy
Name: gpgme
Version: 1.13.1
Release: 1
URL: https://gnupg.org/gpgme.html
Source: https://www.gnupg.org/ftp/gcrypt/gpgme/%{name}-%{version}.tar.gz
Group: Development/Libraries
Copyright: GPL
BuildRoot: %{_tmppath}/%{name}-%{version}
BuildRequires: make
Prereq: /sbin/ldconfig /sbin/install-info
Requires: gnupg

%description
GnuPG Made Easy (GPGME) is a library designed to make access to GnuPG easier for applications. It provides a High-Level Crypto API for encryption, decryption, signing, signature verification and key management.

%prep
%setup -q

%build
CFLAGS="$RPM_OPT_FLAGS"; export CFLAGS
./configure --prefix=/usr
make

%install
rm -fr $RPM_BUILD_ROOT
mkdir -p $RPM_BUILD_ROOT
make install prefix=$RPM_BUILD_ROOT/usr infodir=$RPM_BUILD_ROOT%{_infodir}
rm -f $RPM_BUILD_ROOT%{_infodir}/dir

%clean
rm -fr $RPM_BUILD_ROOT
make distclean

%post
/sbin/ldconfig
/sbin/install-info %{_infodir}/gpgme.info.gz %{_infodir}/dir
/sbin/install-info %{_infodir}/gpgme-python-howto.info.gz %{_infodir}/dir

%preun
if [ "$1" = 0 ]; then
/sbin/install-info --delete %{_infodir}/gpgme.info.gz %{_infodir}/dir
/sbin/install-info --delete %{_infodir}/gpgme-python-howto.info.gz %{_infodir}/dir
fi

%postun
/sbin/ldconfig

%files
%defattr(-,root,root)
%doc COPYING COPYING.LESSER AUTHORS README INSTALL NEWS ChangeLog TODO THANKS
%attr(0755,root,root) %{_bindir}/gpgme-config
%attr(0755,root,root) %{_libdir}/*gpgme.so*
This document provides basic instruction in how to use the GPGME Python bindings to programmatically leverage the GPGME library.

** Python 2 versus Python 3

Though the GPGME Python bindings themselves provide support for both
Python 2 and 3, the focus is unequivocally on Python 3 and specifically from Python 3.4 and above. As a consequence all the examples and instructions in this guide use Python 3 code.

Much of it will work with Python 2, but much of it also deals with Python 3 byte literals, particularly when reading and writing data. Developers concentrating on Python 2.7, and possibly even 2.6, will need to make the appropriate modifications to support the older string and unicode types as opposed to bytes.

There are multiple reasons for concentrating on Python 3; some of which relate to the immediate integration of these bindings, some of which relate to longer term plans for both GPGME and the python bindings and some of which relate to the impending EOL period for Python 2.7. Essentially, though, there is little value in tying the bindings to a version of the language which is a dead end and the advantages offered by Python 3 over Python 2 make handling the data types with which GPGME deals considerably easier.

** Examples

All of the examples found in this document can be found as Python 3 scripts in the =lang/python/examples/howto= directory.

** Unofficial Drafts

In addition to shipping with each release of GPGME, there is a section on locations to read or download [[#draft-editions][draft editions]] of this document from at the end of it. These are unofficial versions produced in between major releases.

** What's New

Full details of what is new are now available in the [[file:what-is-new.org][What's New]] file and archives of the preceding /What's New/ sections are available in the [[file:what-was-new][What Was New]] file.
*** New in GPGME 1130
:PROPERTIES:
:CUSTOM_ID: new-stuff-1-13-0
:END:

See the [[file:what-is-new#new-stuff-1-13-0][What's New]] document for what is new in version 1.13.0.

*** New in GPGME 1120
:PROPERTIES:
:CUSTOM_ID: new-stuff-1-12-0
:END:

See the [[file:what-was-new#new-stuff-1-12-0][What Was New]] document for what was new in version 1.12.0.

* GPGME Concepts
:PROPERTIES:
:CUSTOM_ID: gpgme-concepts
:END:

** A C API
:PROPERTIES:
:CUSTOM_ID: gpgme-c-api
:END:

Unlike many modern APIs with which programmers will be more familiar with these days, the GPGME API is a C API. The API is intended for use by C coders who would be able to access its features by including the =gpgme.h= header file with their own C source code and then access its functions just as they would any other C headers.

This is a very effective method of gaining complete access to the API and in the most efficient manner possible. It does, however, have the drawback that it cannot be directly used by other languages without some means of providing an interface to those languages. This is where the need for bindings in various languages stems.

** Python bindings
:PROPERTIES:
:CUSTOM_ID: gpgme-python-bindings
:END:

The Python bindings for GPGME provide a higher level means of
accessing the complete feature set of GPGME itself. It also provides a more pythonic means of calling these API functions.

The bindings are generated dynamically with SWIG and the copy of =gpgme.h= generated when GPGME is compiled.

This means that a version of the Python bindings is fundamentally tied to the exact same version of GPGME used to generate that copy of =gpgme.h=.

** Difference between the Python bindings and other GnuPG Python packages

** PROPERTIES:

** CUSTOM_ID: gpgme-python-bindings-diffs

** END:

There have been numerous attempts to add GnuPG support to Python over the years. Some of the most well known are listed here, along with what differentiates them.

*** The python-gnupg package maintained by Vinay Sajip

** PROPERTIES:

** CUSTOM_ID: diffs-python-gnupg

** END:

This is arguably the most popular means of integrating GPG with Python. The package utilises the =subprocess= module to implement wrappers for the =gpg= and =gpg2= executables normally invoked on the command line (=gpg.exe= and =gpg2.exe= on Windows).

The popularity of this package stemmed from its ease of use and capability in providing the most commonly required features.

Unfortunately it has been beset by a number of security issues in the past; most of which stemmed from using unsafe methods of accessing the command line via the =subprocess= calls. While some effort has been made over the last two to three years (as of 2018) to mitigate this, particularly by no longer providing shell access through those subprocess calls, the wrapper is still somewhat limited in the scope of its GnuPG features coverage.

The python-gnupg package is available under the MIT license.

*** The gnupg package created and maintained by Isis Lovecruft

** PROPERTIES:

** CUSTOM_ID: diffs-isis-gnupg
In 2015 Isis Lovecruft from the Tor Project forked and then re-implemented the python-gnupg package as just gnupg. This new package also relied on subprocess to call the =gpg= or =gpg2= binaries, but did so somewhat more securely.

The naming and version numbering selected for this package, however, resulted in conflicts with the original python-gnupg and since its functions were called in a different manner to python-gnupg, the release of this package also resulted in a great deal of consternation when people installed what they thought was an upgrade that subsequently broke the code relying on it.

The gnupg package is available under the GNU General Public License version 3.0 (or any later version).

*** The PyME package maintained by Martin Albrecht

This package is the origin of these bindings, though they are somewhat different now. For details of when and how the PyME package was folded back into GPGME itself see the [[file:short-history.org][Short History]] document.[fn:1]

The PyME package was first released in 2002 and was also the first attempt to implement a low level binding to GPGME. In doing so it provided access to considerably more functionality than either the =python-gnupg= or =gnupg= packages.

The PyME package is only available for Python 2.6 and 2.7.

Porting the PyME package to Python 3.4 in 2015 is what resulted in it being folded into the GPGME project and the current bindings are the end result of that effort.

The PyME package is available under the same dual licensing as GPGME itself: the GNU General Public License version 2.0 (or any later version) and the GNU Lesser General Public License version 2.1 (or any later version).

* GPGME Python bindings installation

---

Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 2273
Most third-party Python packages and modules are available and distributed through the Python Package Installer, known as PyPI.

Due to the nature of what these bindings are and how they work, it is infeasible to install the GPGME Python bindings in the same way.

This is because the bindings use SWIG to dynamically generate C bindings against `gpgme.h` and `gpgme.h` is generated from `gpgme.h.in` at compile time when GPGME is built from source. Thus to include a package in PyPI which actually built correctly would require either statically built libraries for every architecture bundled with it or a full implementation of C for each architecture.

See the additional notes regarding [[#snafu-cffi][CFFI and SWIG]] at the end of this section for further details.

** Requirements

The GPGME Python bindings only have three requirements:

1. A suitable version of Python 2 or Python 3. With Python 2 that means CPython 2.7 and with Python 3 that means CPython 3.4 or higher.
2. [[https://www.swig.org][SWIG]].
3. GPGME itself. Which also means that all of GPGME's dependencies must be installed too.

*** Recommended Additions

Though none of the following are absolute requirements, they are all recommended for use with the Python bindings. In some cases these recommendations refer to which version(s) of CPython to use the bindings with, while others refer to third party modules which provide
a significant advantage in some way.

1. If possible, use Python 3 instead of 2.
2. Favour a more recent version of Python since even 3.4 is due to reach EOL soon. In production systems and services, Python 3.6 should be robust enough to be relied on.
3. If possible add the following Python modules which are not part of the standard library: [[http://docs.python-requests.org/en/latest/index.html][Requests]], [[https://cython.org/][Cython]], [[https://pendulum.eustace.io/][Pendulum]] and [[https://github.com/Selfnet/hkp4py][hkp4py]].

Chances are quite high that at least the first one and maybe two of those will already be installed.

Note that, as with Cython, some of advanced use case scenarios will bring with them additional requirements. Most of these will be fairly well known and commonly installed ones, however, which are in many cases likely to have already been installed on many systems or be familiar to Python programmers.

**Installation**

Installing the Python bindings is effectively achieved by compiling and installing GPGME itself.

Once SWIG is installed with Python and all the dependencies for GPGME are installed you only need to confirm that the version(s) of Python you want the bindings installed for are in your $PATH$.

By default GPGME will attempt to install the bindings for the most recent or highest version number of Python 2 and Python 3 it detects in $PATH$. It specifically checks for the =python= and =python3= executables first and then checks for specific version numbers.

For Python 2 it checks for these executables in this order: =python=, =python2= and =python2.7=.

For Python 3 it checks for these executables in this order: =python3=, =python3.7=, =python3.6=, =python3.5= and =python3.4=.[fn:2]

On systems where =python= is actually =python3= and not =python2= it may be possible that =python2= may be overlooked, but there have been no reports of that actually occurring as yet.
In the three months or so since the release of Python 3.7.0 there has been extensive testing and work with these bindings with no issues specifically relating to the new version of Python or any of the new features of either the language or the bindings. This has also been the case with Python 3.7.1rc1. With that in mind and given the release of Python 3.7.1 is scheduled for around the same time as GPGME 1.12.0, the order of preferred Python versions has been changed to move Python 3.7 ahead of Python 3.6.

*** Installing GPGME

See the GPGME =README= file for details of how to install GPGME from source.

** Known Issues

There are a few known issues with the current build process and the Python bindings. For the most part these are easily addressed should they be encountered.

*** Breaking Builds

Occasionally when installing GPGME with the Python bindings included it may be observed that the =make= portion of that process induces a large very number of warnings and, eventually errors which end that part of the build process. Yet following that with =make check= and =make install= appears to work seamlessly.

The cause of this is related to the way SWIG needs to be called to dynamically generate the C bindings for GPGME in the first place. So the entire process will always produce =lang/python/python2-gpg/= and =lang/python/python3-gpg/= directories. These should contain the build output generated during compilation, including the complete bindings and module installed into =site-packages=.

Occasionally the errors in the early part or some other conflict
(e.g. not installing as */root/* or */su/*) may result in nothing being installed to the relevant =site-packages= directory and the build directory missing a lot of expected files. Even when this occurs, the solution is actually quite simple and will always work.

That solution is simply to run the following commands as either the *root* user or prepended with =sudo -H= in the =lang/python/= directory:

```sh
#BEGIN_SRC shell
/path/to/pythonX.Y setup.py build
/path/to/pythonX.Y setup.py build
/path/to/pythonX.Y setup.py install
#END_SRC
```

Yes, the build command does need to be run twice. Yes, you still need to run the potentially failing or incomplete steps during the =configure=, =make= and =make install= steps with installing GPGME. This is because those steps generate a lot of essential files needed, both by and in order to create, the bindings (including both the =setup.py= and =gpgme.h= files).

**** IMPORTANT Note

If specifying a selected number of languages to create bindings for, try to leave Python last. Currently the majority of the other language bindings are also preceding Python of either version when listed alphabetically (not counting the Qt bindings).

If Python is set to precede one of the other languages then it is possible that the errors described here may interrupt the build process before generating bindings for those other languages. In these cases it may be preferable to configure all preferred language bindings separately with alternative =configure= steps for GPGME using the =--enable-languages=$LANGUAGE= option.

Alternatively =make= (or =gmake=, depending on your platform) may be run with the the =-k= option, which tells make to keep going even if errors are encountered. In that case the failure of one language's set of bindings to build should not hamper another language's bindings to build.

*** Reinstalling Responsibly
Regardless of whether you're installing for one version of Python or several, there will come a point where reinstallation is required. With most Python module installations, the installed files go into the relevant site-packages directory and are then forgotten about. Then the module is upgraded, the new files are copied over the old and that's the end of the matter.

While the same is true of these bindings, there have been intermittent issues observed on some platforms which have benefited significantly from removing all the previous installations of the bindings before installing the updated versions.

Removing the previous version(s) is simply a matter of changing to the relevant =site-packages= directory for the version of Python in question and removing the =gpg/= directory and any accompanying egg-info files for that module.

In most cases this will require root or administration privileges on the system, but the same is true of installing the module in the first place.

*** Multiple installations

For a variety of reasons it may be either necessary or just preferable to install the bindings to alternative installed Python versions which meet the requirements of these bindings.

On POSIX systems this will generally be most simply achieved by running the manual installation commands (build, build, install) as described in the previous section for each Python installation the bindings need to be installed to.

As per the SWIG documentation: the compilers, libraries and runtime used to build GPGME and the Python Bindings *must* match those used to compile Python itself, including the version number(s) (at least going by major version numbers and probably minor numbers too).

On most POSIX systems, including OS X, this will very likely be the case in most, if not all, cases.
Note that from GPGME [[https://dev.gnupg.org/rMff6ff616aea6f59b7f2ce1176492850ecdf3851e][1.12.1]] the default installation installs to each version of Python it can find first. That is that it will currently install for the first copies of Python versions 2.7, 3.4, 3.5, 3.6, 3.7 and 3.8 (dev branch) that it finds. Usually this will be in the same prefix as GPGME itself, but is dictated by the =$PATH= when the installation is performed. The above instructions can still be performed on other python installations which the installer does not find, including alternative prefixes.

*** Won't Work With Windows

There are semi-regular reports of Windows users having considerable difficulty in installing and using the Python bindings at all. Very often, possibly even always, these reports come from Cygwin users and/or MinGW users and/or Msys2 users. Though not all of them have been confirmed, it appears that these reports have also come from people who installed Python using the Windows installer files from the [[https://python.org][Python website]] (i.e. mostly MSI installers, sometimes self-extracting =.exe= files).

The Windows versions of Python are not built using Cygwin, MinGW or Msys2; they're built using Microsoft Visual Studio. Furthermore the version used is /considerably/ more advanced than the version which MinGW obtained a small number of files from many years ago in order to be able to compile anything at all. Not only that, but there are changes to the version of Visual Studio between some micro releases, though that is is particularly the case with Python 2.7, since it has been kept around far longer than it should have been.

There are two theoretical solutions to this issue:

1. Compile and install the GnuPG stack, including GPGME and the Python bindings using the same version of Microsoft Visual Studio used by the Python Foundation to compile the version of Python installed.

   If there are multiple versions of Python then this will need to be done with each different version of Visual Studio used for those versions of Python.

2. Compile and install Python using the same tools used by choice, such as MinGW or Msys2.
Do *not* use the official Windows installer for Python unless following the first method.

In this type of situation it may even be for the best to accept that there are less limitations on permissive software than free software and simply opt to use a recent version of the Community Edition of Microsoft Visual Studio to compile and build all of it, no matter what.

Investigations into the extent or the limitations of this issue are ongoing.

The following table lists the version of Microsoft Visual Studio which needs to be used when compiling GPGME and the Python bindings with each version of the CPython binary released [[https://www.python.org/downloads/windows/][for Windows]]:

<table>
<thead>
<tr>
<th>CPython</th>
<th>Microsoft product name</th>
<th>runtime filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7.6</td>
<td>Visual Studio 2008</td>
<td>MSVCR90.DLL</td>
</tr>
<tr>
<td>3.4.0</td>
<td>Visual Studio 2010</td>
<td>MSVCR100.DLL</td>
</tr>
<tr>
<td>3.5.0</td>
<td>Visual Studio 2015</td>
<td><em>see below</em></td>
</tr>
<tr>
<td>3.6.0</td>
<td>Visual Studio 2015</td>
<td><em>see below</em></td>
</tr>
<tr>
<td>3.7.0</td>
<td>Visual Studio 2017</td>
<td><em>see below</em></td>
</tr>
</tbody>
</table>

It is important to note that MingW and Msys2 ship with the Visual C runtime from Microsoft Visual Studio 2005 and are thus *incompatible* with all the versions of CPython which can be used with the GPGME Python bindings.

It is also important to note that from CPython 3.5 onwards, the Python Foundation has adopted the reworking of the Visual C runtime which was performed for Visual Studio 2015 and aimed at resolving many of these kinds of issues. Much greater detail on these issues and the correct file(s) to link to are available from Matthew Brett's invaluable page, [[https://matthew-brett.github.io/pydagogue/python_msvc.html][Using Microsoft Visual C with Python]]. It is also worth reading the Microsoft Developer Network blog post on [[http://blogs.msdn.com/b/vcblog/archive/2015/03/03/introducing-the-universal-crt.aspx][the universal CRT]] and Steve Dower's blog posts on Python extensions ([http://stevedower.id.au/blog/building-for-python-3-5][part 1] and [[http://stevedower.id.au/blog/building-for-python-3-5-part-two][part 2]]).

The second of those two posts by Steve Dower contains the details of specific configuration options required for compiling anything to be used with official CPython releases. In addition to those configuration and compiler settings to use, the versions of Visual Studio prior to Visual Studio 2015 did not support 64-bit systems by default. So compiling a 64-bit version of these bindings for a 64-bit version of CPython 2.7 or 3.4 requires additional work.
In addition to the blog posts, the [[https://wiki.python.org/moin/WindowsCompilers]][Windows compilers] wiki page on the CPython wiki is another essential reference on the relevant versions of Visual Studio to use and the degree of compatibility with CPython releases.

Eventually someone will ask why there isn't an installable binary for Windows, which the GPGME of the licenses do not preclude as long as the source code is available in conjunction with such a release.

The sheer number of versions of Visual Studio in conjunction with differing configuration options depending on the target Windows version and whether the architecture is 64-bit or 32-bit makes it difficult to provide a correct binary installer for Windows users. At the bare minimum doing so would require the GnuPG project compile ten different versions of the bindings with each release; both 32-bit and 64-bit versions for CPython 2.7 and 3.4, with 64-bit versions for both x86-64 (i.e. Intel and AMD) and ARM architectures for CPython 3.5, 3.6, 3.7 and later releases. That's the bare *minimum*, it'd probably be higher.

Additionally, with only a binary installation used in conjunction with the CPython installer from =python.org= the advanced options available which utilise [[#cython][Cython]] will not be able to be used at all. Cython depends on being able to compile the C code it generates and that too would need to utilise a matching runtime to both the installed version of CPython and these bindings in order to work with the bindings.

Considering all of that, what do we recommend?

1. Use a recent version of CPython; at least 3.5, but ideally 3.6 or later.

2. Use Visual Studio 2015 or the standalone build tools for Visual Studio 2017 (or later).

3. Compile both CPython and GPGME with these bindings using the tools selected in step 2.

4. Ignore MingW, Msys2 and the official CPython binary installers.

5. Be thankful the answer to this question wasn't simply to say something like, install Linux or install FreeBSD (or even Apple's OS X).

*** CFFI is the Best and GPGME should use it instead of SWIG
There are many reasons for favouring [https://cffi.readthedocs.io/en/latest/overview.html][CFFI] and proponents of it are quite happy to repeat these things as if all it would take to switch from SWIG to CFFI is repeating that list as if it were a new concept.

The fact is that there are things which Python's CFFI implementation cannot handle in the GPGME C code. Beyond that there are features of SWIG which are simply not available with CFFI at all. SWIG generates the bindings to Python using the =gpgme.h= file, but that file is not a single version shipped with each release, it too is generated when GPGME is compiled.

CFFI is currently unable to adapt to such a potentially mutable codebase. If there were some means of applying SWIG's dynamic code generation to produce the Python/CFFI API modes of accessing the GPGME libraries (or the source source code directly), but such a thing does not exist yet either and it currently appears that work is needed in at least one of CFFI's dependencies before any of this can be addressed.

So if you're a massive fan of CFFI; that's great, but if you want this project to switch to CFFI then rather than just insisting that it should, I'd suggest you volunteer to bring CFFI up to the level this project needs.

If you're actually seriously considering doing so, then I'd suggest taking the =gpgme-tool.c= file in the GPGME =src/= directory and getting that to work with any of the CFFI API methods (not the ABI methods, they'll work with pretty much anything). When you start running into trouble with "ifdefs" then you'll know what sort of things are lacking. That doesn't even take into account the amount of work saved via SWIG's code generation techniques either.

*** Virtualised Environments

It is fairly common practice amongst Python developers to, as much as possible, use packages like virtualenv to keep various things that are to be installed from interfering with each other. Given how much of the GPGME bindings is often at odds with the usual pythonic way of doing things, it stands to reason that this would be called into
question too.

As it happens the answer as to whether or not the bindings can be used with virtualenv, the answer is both yes and no.

In general we recommend installing to the relevant path and matching prefix of GPGME itself. Which means that when GPGME, and ideally the rest of the GnuPG stack, is installed to a prefix like =/usr/local= or =/opt/local= then the bindings would need to be installed to the main Python installation and not a virtualised abstraction. Attempts to separate the two in the past have been known to cause weird and intermittent errors ranging from minor annoyances to complete failures in the build process.

As a consequence we only recommend building with and installing to the main Python installations within the same prefix as GPGME is installed to or which are found by GPGME’s configuration stage immediately prior to running the make commands. Which is exactly what the compiling and installing process of GPGME does by default.

Once that is done, however, it appears that a copy of the compiled module may be installed into a virtualenv of the same major and minor version matching the build. Alternatively it is possible to utilise a =sites.pth= file in the =site-packages/= directory of a virtualenv installation, which links back to the system installations corresponding directory in order to import anything installed system wide. This may or may not be appropriate on a case by case basis.

Though extensive testing of either of these options is not yet complete, preliminary testing of them indicates that both are viable as long as the main installation is complete. Which means that certain other options normally restricted to virtual environments are also available, including integration with pythonic test suites (e.g. [https://docs.pytest.org/en/latest/index.html][pytest]) and other large projects.

That said, it is worth reiterating the warning regarding non-standard installations. If one were to attempt to install the bindings only to a virtual environment without somehow also including the full GnuPG stack (or enough of it as to include GPGME) then it is highly likely that errors would be encountered at some point and more than a little likely that the build process itself would break.

If a degree of separation from the main operating system is still required in spite of these warnings, then consider other forms of virtualisation. Either a virtual machine (e.g. [https://www.virtualbox.org/][VirtualBox]), a hardware emulation layer (e.g. [https://www.qemu.org/][QEMU]) or an application container (e.g. [https://www.docker.com/why-docker/][Docker]).
Finally it should be noted that the limited tests conducted thus far have been using the `virtualenv` command in a new directory to create the virtual python environment. As opposed to the standard `python3 -m venv` and it is possible that this will make a difference depending on the system and version of Python in use. Another option is to run the command `python3 -m virtualenv /path/to/install/virtual/thingy=` instead.

*** Post installation

Post installation it is recommended to move the `post_installer.py` script from the `lang/python/examples/howto/` directory to the `lang/python/` directory and run it. This will fix or restore files needed by Sphinx which may be removed during a distribution build for release. It will also generate reST files from Org mode files with Pandoc and generate Texinfo files from Org mode files with GNU Emacs and Org mode (in batch mode). Additionally it will fix the UTF-8 declaration line in the Texinfo files (Emacs expects "UTF-8" to be "utf-8").

* Fundamentals

Before we can get to the fun stuff, there are a few matters regarding GPGME's design which hold true whether you're dealing with the C code directly or these Python bindings.

** No REST

The first part of which is or will be fairly blatantly obvious upon viewing the first example, but it's worth reiterating anyway. That being that this API is /*not*/ a REST API. Nor indeed could it ever be one.

Most, if not all, Python programmers (and not just Python programmers) know how easy it is to work with a RESTful API. In fact they've become so popular that many other APIs attempt to emulate REST-like
behaviour as much as they are able. Right down to the use of JSON formatted output to facilitate the use of their API without having to retrain developers.

This API does not do that. It would not be able to do that and also provide access to the entire C API on which it's built. It does, however, provide a very pythonic interface on top of the direct bindings and it's this pythonic layer that this HOWTO deals with.

** Context

One of the reasons which prevents this API from being RESTful is that most operations require more than one instruction to the API to perform the task. Sure, there are certain functions which can be performed simultaneously, particularly if the result known or strongly anticipated (e.g. selecting and encrypting to a key known to be in the public keybox).

There are many more, however, which cannot be manipulated so readily: they must be performed in a specific sequence and the result of one operation has a direct bearing on the outcome of subsequent operations. Not merely by generating an error either.

When dealing with this type of persistent state on the web, full of both the RESTful and REST-like, it's most commonly referred to as a session. In GPGME, however, it is called a context and every operation type has one.

* Working with keys

Selecting keys to encrypt to or to sign with will be a common occurrence when working with GPGMe and the means available for doing so are quite simple.
They do depend on utilising a Context; however once the data is recorded in another variable, that Context does not need to be the same one which subsequent operations are performed.

The easiest way to select a specific key is by searching for that key's key ID or fingerprint, preferably the full fingerprint without any spaces in it. A long key ID will probably be okay, but is not advised and short key IDs are already a problem with some being generated to match specific patterns. It does not matter whether the pattern is upper or lower case.

So this is the best method:

```python
#BEGIN_SRC python -i
import gpg

k = gpg.Context().keylist(pattern="258E88DCBD3CD44D8E7AB43F6ECB6AF0DEADBEEF")
keys = list(k)
#END_SRC
```

This is passable and very likely to be common:

```python
#BEGIN_SRC python -i
import gpg

k = gpg.Context().keylist(pattern="0x6ECB6AF0DEADBEEF")
keys = list(k)
#END_SRC
```

And this is a really bad idea:

```python
#BEGIN_SRC python -i
import gpg

k = gpg.Context().keylist(pattern="0xDEADBEEF")
keys = list(k)
#END_SRC
```

Alternatively it may be that the intention is to create a list of keys which all match a particular search string. For instance all the addresses at a particular domain, like this:

```python
#BEGIN_SRC python -i
import gpg

ncsc = gpg.Context().keylist(pattern="ncsc.mil")
nsa = list(ncsc)
#END_SRC
```
Counting the number of keys in your public keybox (pubring.kbx=), the format which has superseded the old keyring format (pubring.gpg= and secring.gpg=), or the number of secret keys is a very simple task.

```python
import gpg
c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)
seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

print("Number of secret keys: " + str(secnum))
print("Number of public keys: " + str(pubnum))
```

** Get key

An alternative method of getting a single key via its fingerprint is available directly within a Context with `Context().get_key=`. This is the preferred method of selecting a key in order to modify it, sign or certify it and for obtaining relevant data about a single key as a part of other functions; when verifying a signature made by that key,
for instance.

By default this method will select public keys, but it can select secret keys as well.

This first example demonstrates selecting the current key of Werner Koch, which is due to expire at the end of 2018:

```python
import gpg

fingerprint = "80615870F5BAD690333686D0F2AD85AC1E42B367"
key = gpg.Context().get_key(fingerprint)
```

Whereas this example demonstrates selecting the author's current key with the =secret= key word argument set to =True=:

```python
import gpg

fingerprint = "DB4724E6FA4286C92B4E55C4321E4E23E42B367"
key = gpg.Context().get_key(fingerprint, secret=True)
```

It is, of course, quite possible to select expired, disabled and revoked keys with this function, but only to effectively display information about those keys.

It is also possible to use both unicode or string literals and byte literals with the fingerprint when getting a key in this way.

** Importing keys

Importing keys is possible with the =key_import(= method and takes one argument which is a bytes literal object containing either the binary or ASCII armoured key data for one or more keys.

The following example retrieves one or more keys from the SKS keyservers via the web using the requests module. Since requests returns the content as a bytes literal object, we can then use that directly to import the resulting data into our keybox.

```python
import gpg

fingerprint = ""
import gpg
import os.path
import requests

c = gpg.Context()
url = "https://sks-keyservers.net/pks/lookup"
pattern = input("Enter the pattern to search for key or user IDs: ")
payload = {"op": "get", "search": pattern}

r = requests.get(url, verify=True, params=payload)
result = c.key_import(r.content)

if result is not None and hasattr(result, "considered") is False:
    print(result)
elif result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_subs = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged
    print(""
    The total number of keys considered for import was:  {0}

    Number of keys revoked:  {1}
    Number of new signatures:  {2}
    Number of new subkeys:  {3}
    Number of new user IDs:  {4}
    Number of new secret keys:  {5}
    Number of unchanged keys:  {6}

    The key IDs for all considered keys were:
    """.format(num_keys, new_revs, new_sigs, new_subs, new_uids, new_scrt,
    nochange))
    for i in range(num_keys):
        print("{0}\n".format(result.imports[i].fpr))
else:
    pass

NOTE: When searching for a key ID of any length or a fingerprint
(without spaces), the SKS servers require the the leading =0x=
indicative of hexadecimal be included. Also note that the old short
key IDs (e.g. =0xDEADBEEF=) should no longer be used due to the
relative ease by which such key IDs can be reproduced, as demonstrated
by the Evil32 Project in 2014 (which was subsequently exploited in
2016).
Testing for whether a string in any given search is or may be a hexadecimal value which may be missing the leading =0x= is a simple matter of using a try/except statement which attempts to convert the string as hex to an integer and then back to hex; then using that to search with. Raising a ValueError simply results in treating the string as a string. This is the method and logic utilised in the =import-keys-hkp.py= script (see below).

*** Working with ProtonMail

Here is a variation on the example above which checks the constrained ProtonMail key server for ProtonMail public keys.

```python
import gpg
import requests
import sys

print('This script searches the ProtonMail key server for the specified key and imports it.

```)

c = gpg.Context(armor=True)
url = "https://api.protonmail.ch/pks/lookup"
ksearch = []

if len(sys.argv) >= 2:
    keyterm = sys.argv[1]
else:
    keyterm = input("Enter the key ID, UID or search string: ")

if keyterm.count("@") >= 2 and keyterm.startswith("@") is True:
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:])
elif keyterm.count("@") == 1 and keyterm.startswith("@") is True:
    ksearch.append("[0]@protonmail.com".format(keyterm[1:]))
    ksearch.append("[0]@protonmail.ch".format(keyterm[1:]))
    ksearch.append("[0]@pm.me".format(keyterm[1:]))
elif keyterm.count("@") == 0:
    ksearch.append("[0]@protonmail.com".format(keyterm))
    ksearch.append("[0]@protonmail.ch".format(keyterm))
```
ksearch.append("{0}@pm.me".format(keyterm))

elif keyterm.count("@") == 2 and keyterm.startswith("@") is False:
    uidlist = keyterm.split("@")
    for uid in uidlist:
        ksearch.append("{0}@protonmail.com".format(uid))
        ksearch.append("{0}@protonmail.ch".format(uid))
        ksearch.append("{0}@pm.me".format(uid))

elif keyterm.count("@") > 2:
    uidlist = keyterm.split("@")
    for uid in uidlist:
        ksearch.append("{0}@protonmail.com".format(uid))
        ksearch.append("{0}@protonmail.ch".format(uid))
        ksearch.append("{0}@pm.me".format(uid))

else:
    ksearch.append(keyterm)

for k in ksearch:
    payload = {"op": "get", "search": k}
    try:
        r = requests.get(url, verify=True, params=payload)
        if r.ok is True:
            result = c.key_import(r.content)
        elif r.ok is False:
            result = r.content
    except Exception as e:
        result = None

    if result is not None and hasattr(result, "considered") is False:
        print("{0}".format(result.decode()), k))
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""
        The total number of keys considered for import was: {0}
        
With UIDs wholly or partially matching the following string:

          {1}

    Number of keys revoked: {2}
    Number of new signatures: {3}
    Number of new subkeys: {4}
    Number of new user IDs: {5}
Number of new secret keys:  6
Number of unchanged keys:  7

The key IDs for all considered keys were:

```python
for i in range(num_keys):
    print(result.imports[i].fpr)
    print('')
elif result is None:
    print(e)
```

Both the above example, [[../examples/howto/pmkey-import.py][pmkey-import.py]], and a version which prompts for an alternative GnuPG home directory, [[../examples/howto/pmkey-import-alt.py][pmkey-import-alt.py]], are available with the other examples and are executable scripts.

Note that while the ProtonMail servers are based on the SKS servers, their server is related more to their API and is not feature complete by comparison to the servers in the SKS pool. One notable difference being that the ProtonMail server does not permit non ProtonMail users to update their own keys, which could be a vector for attacking ProtonMail users who may not receive a key's revocation if it had been compromised.

*** Importing with HKP for Python

```python
import gpg
import hkp4py
import sys
c = gpg.Context()
server = hkp4py.KeyServer("hkps://hkps.pool.sks-keyservers.net")
results = []
keys = []
```

Performing the same tasks with the [[https://github.com/Selfnet/hkp4py][hkp4py module]] (available via PyPI) is not too much different, but does provide a number of options of benefit to end users. Not least of which being the ability to perform some checks on a key before importing it or not. For instance it may be the policy of a site or project to only import keys which have not been revoked. The hkp4py module permits such checks prior to the importing of the keys found.
if len(sys.argv) > 2:
    pattern = " ".join(sys.argv[1:])
elif len(sys.argv) == 2:
    pattern = sys.argv[1]
else:
    pattern = input("Enter the pattern to search for keys or user IDs: ")

if pattern is not None:
    try:
        key = server.search(hex(int(pattern, 16)))
        keyed = True
    except ValueError as ve:
        key = server.search(pattern)
        keyed = False

if key is not None:
    keys.append(key[0])
    if keyed is True:
        try:
            fob = server.search(pattern)
        except:
            fob = None
        if fob is not None:
            keys.append(fob[0])
        else:
            pass
    else:
        pass

for logrus in pattern.split():
    try:
        key = server.search(hex(int(logrus, 16)))
        hexed = True
    except ValueError as ve:
        key = server.search(logrus)
        hexed = False

if key is not None:
    keys.append(key[0])
    if hexed is True:
        try:
            fob = server.search(logrus)
        except:
            fob = None
        if fob is not None:
            keys.append(fob[0])
        else:
            pass
if len(keys) > 0:
    for key in keys:
        import_result = c.key_import(key.key_blob)
        results.append(import_result)

for result in results:
    if result is not None and hasattr(result, "considered") is False:
        print(result)
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""
        The total number of keys considered for import was:  {0}
        Number of keys revoked:  {1}
        Number of new signatures:  {2}
        Number of new subkeys:  {3}
        Number of new user IDs:  {4}
        Number of new secret keys:  {5}
        Number of unchanged keys:  {6}
        The key IDs for all considered keys were:
        ""
        for i in range(num_keys):
            print(result.imports[i].fpr)
        else:
            pass
    """#+END_SRC

Since the hkp4py module handles multiple keys just as effectively as one (=keys= is a list of responses per matching key), the example above is able to do a little bit more with the returned data before anything is actually imported.
Though this can provide certain benefits even when working with ProtonMail, the scope is somewhat constrained there due to the limitations of the ProtonMail keyserver.

For instance, searching the SKS keyserver pool for the term "gnupg" produces hundreds of results from any time the word appears in any part of a user ID. Performing the same search on the ProtonMail keyserver returns zero results, even though there are at least two test accounts which include it as part of the username.

The cause of this discrepancy is the deliberate configuration of that server by ProtonMail to require an exact match of the full email address of the ProtonMail user whose key is being requested. Presumably this is intended to reduce breaches of privacy of their users as an email address must already be known before a key for that address can be obtained.

The following script is available with the rest of the examples under the somewhat less than original name, =pmkey-import-hkp.py=.

```python
import gpg
import hkp4py
import os.path
import sys

print("This script searches the ProtonMail key server for the specified key and imports it.
Usage: pmkey-import-hkp.py [search strings]

---")

c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://api.protonmail.ch")
keyterms = []
kssearch = []
```
allkeys = []
results = []
paradox = []
homeless = None

if len(sys.argv) > 2:
    keyterms = sys.argv[1:]
elif len(sys.argv) == 2:
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
else:
    key_term = input("Enter the key ID, UID or search string: ")
    keyterms = key_term.split()

for keyterm in keyterms:
    if keyterm.count("@") == 2 and keyterm.startswith("@") is True:
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
elif keyterm.count("@") == 1 and keyterm.startswith("@") is True:
    ksearch.append("{0}@protonmail.com".format(keyterm[1:]))
    ksearch.append("{0}@protonmail.ch".format(keyterm[1:]))
    ksearch.append("{0}@pm.me".format(keyterm[1:]))
elif keyterm.count("@") == 0:
    ksearch.append("{0}@protonmail.com".format(keyterm))
    ksearch.append("{0}@protonmail.ch".format(keyterm))
    ksearch.append("{0}@pm.me".format(keyterm))
elif keyterm.count("@") == 2 and keyterm.startswith("@") is False:
    uidlist = keyterm.split("@")
    for uid in uidlist:
        ksearch.append("{0}@protonmail.com".format(uid))
        ksearch.append("{0}@protonmail.ch".format(uid))
        ksearch.append("{0}@pm.me".format(uid))
elif keyterm.count("@") > 2:
    uidlist = keyterm.split("@")
    for uid in uidlist:
        ksearch.append("{0}@protonmail.com".format(uid))
        ksearch.append("{0}@protonmail.ch".format(uid))
        ksearch.append("{0}@pm.me".format(uid))
else:
    ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: {0}".format(k))
    try:
        keys = server.search(k)
        if isinstance(keys, list) is True:
            for key in keys:
allkeys.append(key)
try:
    import_result = c.key_import(key.key_blob)
except Exception as e:
    import_result = c.key_import(key.key)
else:
    paradox.append(keys)
    import_result = None
except Exception as e:
    import_result = None
results.append(import_result)

for result in results:
    if result is not None and hasattr(result, "considered") is False:
        print("{} for {}".format(result.decode(), k))
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""
        print("The total number of keys considered for import was: {}"
        print("With UIDs wholly or partially matching the following string:
        print(""
        print(""
        print("[")
        print(""
        Number of keys revoked: {}
        Number of new signatures: {}
        Number of new subkeys: {}
        Number of new user IDs: {}
        Number of new secret keys: {}
        Number of unchanged keys: {}
        print(""
        print("The key IDs for all considered keys were:
        print(""
        for i in range(num_keys):
            print(result.imports[i].fpr)
            print(""
        else:
            pass
"
Like its counterpart above, this script can also be found with the rest of the examples, by the name pmkey-import-hkp-alt.py.

With this script a modicum of effort has been made to treat anything passed as a =homedir= which either does not exist or which is not a directory, as also being a possible user ID to check for. It's not guaranteed to pick up on all such cases, but it should cover most of them.

```python
import gpg
import hkp4py
import os.path
import sys
print(""
This script searches the ProtonMail key server for the specified key and imports it. Optionally enables specifying a different GnuPG home directory.
Usage:  pmkey-import-hkp.py [homedir] [search string]
or:  pmkey-import-hkp.py [search string]
"")
c = gpg.Context(armor=True)
sServer = hkp4py.KeyServer("hkps://api.protonmail.ch")
keyterms = []
keysearch = []
allkeys = []
results = []
paradox = []
homeless = None
if len(sys.argv) > 3:
    homedir = sys.argv[1]
    keyterms = sys.argv[2:]
elif len(sys.argv) == 3:
    homedir = sys.argv[1]
    keyterm = sys.argv[2]
    keyterms.append(keyterm)
elif len(sys.argv) == 2:
    homedir = ""
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
```

...
else:
    keyterm = input("Enter the key ID, UID or search string: ")
homedir = input("Enter the GPG configuration directory path (optional): ")
keyterms.append(keyterm)

if len(homedir) == 0:
    homedir = None
    homeless = False

if homedir is not None:
    if homedir.startswith("~"): 
        if os.path.exists(os.path.expanduser(homedir)) is True:
            if os.path.isdir(os.path.expanduser(homedir)) is True:
                c.home_dir = os.path.realpath(os.path.expanduser(homedir))
            else:
                homeless = True
        else:
            homeless = True
    elif os.path.exists(os.path.realpath(homedir)) is True:
        if os.path.isdir(os.path.realpath(homedir)) is True:
            c.home_dir = os.path.realpath(homedir)
        else:
            homeless = True
    else:
        homeless = True

# First check to see if the homedir really is a homedir and if not, treat it as
# a search string.
if homeless is True:
    keyterms.append(homedir)
c.home_dir = None
else:
    pass

for keyterm in keyterms:
    if keyterm.count("@") == 2 and keyterm.startswith("@") is True:
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
    elif keyterm.count("@") == 1 and keyterm.startswith("@") is True:
        ksearch.append("{0}@protonmail.com".format(keyterm[1:]))
        ksearch.append("{0}@protonmail.ch".format(keyterm[1:]))
        ksearch.append("{0}@pm.me".format(keyterm[1:]))
    elif keyterm.count("@") == 0:
        ksearch.append("{0}@protonmail.com".format(keyterm))
        ksearch.append("{0}@protonmail.ch".format(keyterm))
        ksearch.append("{0}@pm.me".format(keyterm))
    elif keyterm.count("@") == 2 and keyterm.startswith("@") is False:
uidlist = keyterm.split("@")
for uid in uidlist:
    ksearch.append("{0}@protonmail.com".format(uid))
    ksearch.append("{0}@protonmail.ch".format(uid))
    ksearch.append("{0}@pm.me".format(uid))
elif keyterm.count("@") > 2:
    uidlist = keyterm.split("@")
    for uid in uidlist:
        ksearch.append("{0}@protonmail.com".format(uid))
        ksearch.append("{0}@protonmail.ch".format(uid))
        ksearch.append("{0}@pm.me".format(uid))
else:
    ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: {0}".format(k))
    try:
        keys = server.search(k)
        if isinstance(keys, list) is True:
            for key in keys:
                allkeys.append(key)
                try:
                    import_result = c.key_import(key.key_blob)
                except Exception as e:
                    import_result = c.key_import(key.key)
                else:
                    paradox.append(keys)
                    import_result = None
        except Exception as e:
            import_result = None
        results.append(import_result)
    for result in results:
        if result is not None and hasattr(result, "considered") is False:
            print("{0} for {1}".format(result.decode(), k))
        elif result is not None and hasattr(result, "considered") is True:
            num_keys = len(result.imports)
            new_revs = result.new_revocations
            new_sigs = result.new_signatures
            new_subs = result.new_sub_keys
            new_uids = result.new_user_ids
            new_scrt = result.secret_imported
            nochange = result.unchanged
            print(""
            The total number of keys considered for import was: {0}
            With UIDs wholly or partially matching the following string:
Number of keys revoked: {2}
Number of new signatures: {3}
Number of new subkeys: {4}
Number of new user IDs: {5}
Number of new secret keys: {6}
Number of unchanged keys: {7}

The key IDs for all considered keys were:
```python
for i in range(num_keys):
    print(result.imports[i].fpr)
    print("")
```

** Exporting keys

Exporting keys remains a reasonably simple task, but has been separated into three different functions for the OpenPGP cryptographic engine. Two of those functions are for exporting public keys and the third is for exporting secret keys.

*** Exporting public keys

There are two methods of exporting public keys, both of which are very similar to the other. The default method, `key_export()`, will export a public key or keys matching a specified pattern as normal. The alternative, the `key_export_minimal()` method, will do the same thing except producing a minimised output with extra signatures and third party signatures or certifications removed.

```python
import gpg
import os.path
import sys
```
This script exports one or more public keys.

```python
print(""
This script exports one or more public keys.
"")

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("~"):
    if os.path.exists(os.path.expanduser(homedir)) is True:
        c.home_dir = os.path.expanduser(homedir)
    else:
        pass
elif os.path.exists(homedir) is True:
    c.home_dir = homedir
else:
    pass

try:
    result = c.key_export(pattern=logrus)
except:
    result = c.key_export(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
else:
    pass

#+END_SRC

It should be noted that the result will only return None when a search pattern has been entered, but has not matched any keys. When the search pattern itself is set to None this triggers the exporting
of the entire public keybox.

```python
import gpg
import os.path
import sys

print(''''
This script exports one or more public keys in minimised form.
''')

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("~"):  
    if os.path.exists(os.path.expanduser(homedir)) is True:
        c.home_dir = os.path.expanduser(homedir)
    else:
        pass
elif os.path.exists(homedir) is True:
    c.home_dir = homedir
else:
    pass

try:
    result = c.key_export_minimal(pattern=logrus)
except:
    result = c.key_export_minimal(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
```

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else:
    pass
#+END_SRC

*** Exporting secret keys

:PROPERTIES:
:CUSTOM_ID: howto-export-secret-key
:END:

Exporting secret keys is, functionally, very similar to exporting public keys; save for the invocation of `pinentry-` via `gpg-agent-` in order to securely enter the key’s passphrase and authorise the export.

The following example exports the secret key to a file which is then set with the same permissions as the output files created by the command line secret key export options.

#+BEGIN_SRC python -i
import gpg
import os
import os.path
import sys

print("This script exports one or more secret keys.

The gpg-agent and pinentry are invoked to authorise the export.
")

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
if len(homedir) == 0:
    homedir = None
elif homedir.startswith("~"):
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = os.path.realpath(homedir)

if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass

if homedir is not None:
    c.home_dir = homedir
else:
    pass

try:
    result = c.key_export_secret(pattern=logrus)
except:
    result = c.key_export_secret(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
    os.chmod(keyfile, 0o600)
else:
    pass

Alternatively the approach of the following script can be used. This longer example saves the exported secret key(s) in files in the GnuPG home directory, in addition to setting the file permissions as only readable and writable by the user. It also exports the secret key(s) twice in order to output both GPG binary (=.gpg=) and ASCII armoured (=.asc=) files.

```python
import gpg
import os
```
import os.path
import subprocess
import sys

print(""
This script exports one or more secret keys as both ASCII armored and binary file formats, saved in files within the user's GPG home directory.

The gpg-agent and pinentry are invoked to authorise the export.
"")

if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-dirs homedir"
else:
    gpgconfcmd = "gpgconf --list-dirs homedir"

a = gpg.Context(armor=True)
b = gpg.Context()
c = gpg.Context()

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the filename to save the secret key to: ")
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if len(homedir) == 0:
    homedir = None
elif homedir.startswith(~)
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = os.path.realpath(homedir)
if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass

if homedir is not None:
    c.home_dir = homedir
else:
    pass

if c.home_dir is not None:
    if c.home_dir.endswith("/"):
        gpgfile = "{0}{1}.gpg".format(c.home_dir, keyfile)
        ascfile = "{0}{1}.asc".format(c.home_dir, keyfile)
    else:
        gpgfile = "{0}/{1}.gpg".format(c.home_dir, keyfile)
        ascfile = "{0}/{1}.asc".format(c.home_dir, keyfile)
    else:
        if os.path.exists(os.environ["GNUPGHOME"]) is True:
            hd = os.environ["GNUPGHOME"]
        else:
            try:
                hd = subprocess.getoutput(gpgconfcmd)
            except:
                process = subprocess.Popen(gpgconfcmd.split(),
                                            stdout=subprocess.PIPE)
                procom = process.communicate()
                if sys.version_info[0] == 2:
                    hd = procom[0].strip()
                else:
                    hd = procom[0].decode().strip()
        gpgfile = "{0}/{1}.gpg".format(hd, keyfile)
        ascfile = "{0}/{1}.asc".format(hd, keyfile)

try:
    a_result = a.key_export_secret(pattern=logrus)
    b_result = b.key_export_secret(pattern=logrus)
except:
    a_result = a.key_export_secret(pattern=None)
    b_result = b.key_export_secret(pattern=None)

if a_result is not None:
    with open(ascfile, "wb") as f:
        f.write(a_result)
        os.chmod(ascfile, 0o600)
else:
    pass

if b_result is not None:
    with open(gpgfile, "wb") as f:
        f.write(b_result)
    os.chmod(gpgfile, 0o600)
else:
    pass

*** Sending public keys to the SKS Keyservers

As with the previous section on importing keys, the =hkp4py= module adds another option with exporting keys in order to send them to the public keyservers.

The following example demonstrates how this may be done.

```python
import gpg
import hkp4py
import os.path
import sys

print("This script sends one or more public keys to the SKS keyservers and is essentially a slight variation on the export-key.py script."

if len(sys.argv) > 2:
    logrus = " ".join(sys.argv[1:])
elif len(sys.argv) == 2:
    logrus = sys.argv[1]
else:
    logrus = input("Enter the UID matching the key(s) to send: ")

if len(logrus) > 0:
    try:
        export_result = c.key_export(pattern=logrus)
    except Exception as e:
An expanded version of this script with additional functions for specifying an alternative homedir location is in the examples directory as `send-key-to-keyserver.py`.

The `hkp4py` module appears to handle both string and byte literal text data equally well, but the GPGME bindings deal primarily with byte literal data only and so this script sends in that format first, then tries the string literal form.

* Basic Functions

The most frequently called features of any cryptographic library will be the most fundamental tasks for encryption software. In this section we will look at how to programmatically encrypt data, decrypt it, sign it and verify signatures.

** Encryption

Encrypting is very straightforward. In the first example below the
message, =text=, is encrypted to a single recipient's key. In the second example the message will be encrypted to multiple recipients.

*** Encrypting to one key

Once the the Context is set the main issues with encrypting data is essentially reduced to key selection and the keyword arguments specified in the =gpg.Context().encrypt()= method.

Those keyword arguments are: =recipients=, a list of keys encrypted to (covered in greater detail in the following section); =sign=, whether or not to sign the plaintext data, see subsequent sections on signing and verifying signatures below (defaults to =True=); =sink=, to write results or partial results to a secure sink instead of returning it (defaults to =None=); =passphrase=, only used when utilising symmetric encryption (defaults to =None=); =always_trust=, used to override the trust model settings for recipient keys (defaults to =False=); =add_encrypt_to=, utilises any preconfigured =encrypt-to= or =default-key= settings in the user's =gpg.conf= file (defaults to =False=); =prepare=, prepare for encryption (defaults to =False=); =expect_sign=, prepare for signing (defaults to =False=); =compress=, compresses the plaintext prior to encryption (defaults to =True=).

```python
import gpg
da_key = "0x12345678DEADBEEF"
text = b"Some text to test with. Since the text in this case must be bytes, it is most likely that the input form will be a separate file which is opened with "rb" as this is the simplest method of obtaining the correct data format."
c = gpg.Context(armor=True)
rkey = list(c.keylist(pattern=da_key, secret=False))
ciphertext, result, sign_result = c.encrypt(text, recipients=rkey, sign=False)
with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
```

Though this is even more likely to be used like this; with the plaintext input read from a file, the recipient keys used for
encryption regardless of key trust status and the encrypted output also encrypted to any preconfigured keys set in the \texttt{=gpg.conf=} file:

```python
#+BEGIN_SRC python -i
import gpg

a_key = "0x12345678DEADBEEF"

with open("secret_plans.txt", "rb") as afile:
    text = afile.read()

c = gpg.Context(armor=True)
rkey = list(c.keylist(pattern=a_key, secret=False))
ciphertext, result, sign_result = c.encrypt(text, recipients=rkey, sign=True,
                                          always_trust=True,
                                          add_encrypt_to=True)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
# END_SRC
```

If the \texttt{=recipients=} parameter is empty then the plaintext is encrypted symmetrically. If no \texttt{=passphrase=} is supplied as a parameter or via a callback registered with the \texttt{=Context=} then an out-of-band prompt for the passphrase via pinentry will be invoked.

*** Encrypting to multiple keys

Encrypting to multiple keys essentially just expands upon the key selection process and the recipients from the previous examples.

The following example encrypts a message (=text=) to everyone with an email address on the =gnupg.org= domain,[fn:4] but does /not/ encrypt to a default key or other key which is configured to normally encrypt to.

```python
#+BEGIN_SRC python -i
import gpg

text = b"""Oh look, another test message.

The same rules apply as with the previous example and more likely than not, the message will actually be drawn from reading the contents of a file or, maybe, from entering data at an input()
Since the text in this case must be bytes, it is most likely that
the input form will be a separate file which is opened with "rb"
as this is the simplest method of obtaining the correct data
format.

```python
import gpg
with open("secret_plans.txt.asc", "rb") as afile:
    text = afile.read()
```

The only keyword arguments requiring modification are those for which
the default values are changing. The default value of =sign= is
=True=, the default of =always_trust= is =False=, the default of
=add_encrypt_to= is =False=.

If =always_trust= is not set to =True= and any of the recipient keys
are not trusted (e.g. not signed or locally signed) then the
encryption will raise an error. It is possible to mitigate this
somewhat with something more like this:

```python
import gpg
with open("secret_plans.txt.asc", "rb") as afile:
    text = afile.read()
```
```python

c = gpg.Context(armor=True)
rpattern = list(c.keylist(pattern="@gnupg.org", secret=False))
logrus = []

for i in range(len(rpattern)):
    if rpattern[i].can_encrypt == 1:
        logrus.append(rpattern[i])

try:
    ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
                                              add_encrypt_to=True)
except gpg.errors.InvalidRecipients as e:
    for i in range(len(e.recipients)):
        for n in range(len(logrus)):
            if logrus[n].fpr == e.recipients[i].fpr:
                logrus.remove(logrus[n])
        else:
            pass

try:
    ciphertext, result, sign_result = c.encrypt(text,
                                              recipients=logrus,
                                              add_encrypt_to=True)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
except:
    pass

#+END_SRC
```

This will attempt to encrypt to all the keys searched for, then remove invalid recipients if it fails and try again.

** Decryption

Decrypting something encrypted to a key in one's secret keyring is fairly straight forward.

In this example code, however, preconfiguring either `=gpg.Context()=` or `=gpg.core.Context()= as `c`` is unnecessary because there is no need to modify the Context prior to conducting the decryption and since the Context is only used once, setting it to `c`` simply adds lines for no gain.

#+BEGIN_SRC python -i
import gpg

ciphertext = input("Enter path and filename of encrypted file: ")
newfile = input("Enter path and filename of file to save decrypted data to: ")

with open(ciphertext, "rb") as cfile:
    try:
        plaintext, result, verify_result = gpg.Context().decrypt(cfile)
    except gpg.errors.GPGMEError as e:
        plaintext = None
        print(e)

if plaintext is not None:
    with open(newfile, "wb") as nfile:
        nfile.write(plaintext)
    else:
        pass

The data available in =plaintext= in this example is the decrypted content as a byte object, the recipient key IDs and algorithms in =result= and the results of verifying any signatures of the data in =verify_result=.

If =gpg.Context().decrypt(cfile, verify=False)= is called instead, then =verify_result= will be returned as =None= and the rest remains as described here.

** Signing text and files

The following sections demonstrate how to specify keys to sign with.

*** Signing key selection

By default GPGME and the Python bindings will use the default key configured for the user invoking the GPGME API. If there is no default key specified and there is more than one secret key available it may be necessary to specify the key or keys with which to sign messages and files.
The signing examples in the following sections include the explicitly
designated `signers` parameter in two of the five examples; once where
the resulting signature would be ASCII armoured and once where it
would not be armoured.

While it would be possible to enter a key ID or fingerprint here to
match a specific key, it is not possible to enter two fingerprints and
match two keys since the pattern expects a string, bytes or None and
not a list. A string with two fingerprints won't match any single
key.

*** Normal or default signing messages or files

The normal or default signing process is essentially the same as is
most often invoked when also encrypting a message or file. So when
the encryption component is not utilised, the result is to produce an
encoded and signed output which may or may not be ASCII armoured and
which may or may not also be compressed.

By default compression will be used unless GnuPG detects that the
plaintext is already compressed. ASCII armouring will be determined
according to the value of `gpg.Context().armor`.

The compression algorithm is selected in much the same way as the
symmetric encryption algorithm or the hash digest algorithm is when
multiple keys are involved; from the preferences saved into the key
itself or by comparison with the preferences with all other keys
involved.

#BEGIN_SRC python -i
import gpg

text0 = """""""Declaration of ... something.

"""

text = text0.encode()
c = gpg.Context(armor=True, signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
#+END_SRC

Though everything in this example is accurate, it is more likely that reading the input data from another file and writing the result to a new file will be performed more like the way it is done in the next example. Even if the output format is ASCII armoured.

#+BEGIN_SRC python -i
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.sig", "wb") as afile:
    afile.write(signed_data)
#+END_SRC

*** Detached signing messages and files
 :PROPERTIES:
 :CUSTOM_ID: howto-basic-signing-detached
 :END:

Detached signatures will often be needed in programmatic uses of GPGME, either for signing files (e.g. tarballs of code releases) or as a component of message signing (e.g. PGP/MIME encoded email).

#+BEGIN_SRC python -i
import gpg

text0 = """"Declaration of ... something.

"""

text = text0.encode()

c = gpg.Context(armor=True)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.asc", "w") as afile:
As with normal signatures, detached signatures are best handled as byte literals, even when the output is ASCII armoured.

```python
import gpg
with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context(signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.sig", "wb") as afile:
    afile.write(signed_data)
```

*** Clearsigning messages or text

```python
import gpg

text0 = """"Declaration of ... something.

```...

text = text0.encode()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.CLEAR)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
```

In spite of the appearance of a clear-signed message, the data handled by GPGME in signing it must still be byte literals.

```python
import gpg
```
**Signature verification**

:PROPERTIES:
:CUSTOM_ID: howto-basic-verification
:END:

Essentially there are two principal methods of verification of a signature. The first of these is for use with the normal or default signing method and for clear-signed messages. The second is for use with files and data with detached signatures.

The following example is intended for use with the default signing method where the file was not ASCII armoured:

```python
import gpg
import time

filename = "statement.txt"
gpg_file = "statement.txt.gpg"

c = gpg.Context()

try:
data, result = c.verify(open(gpg_file))
verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from: [0] with key [1]".format(sign.fingerprint, sign.keyid))
```

```python
#BEGIN_SRC python -i
import gpg
import time

filename = "statement.txt"
gpg_file = "statement.txt.gpg"

c = gpg.Context()

try:
data, result = c.verify(open(gpg_file))
verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from: [0] with key [1]".format(sign.fingerprint, sign.keyid))
```

Whereas this next example, which is almost identical would work with normal ASCII armoured files and with clear-signed files:

```python
# BEGIN_SRC python -i
import gpg
import time

filename = "statement.txt"
asc_file = "statement.txt.asc"

c = gpg.Context()
	ry:
    data, result = c.verify(open(asc_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from: "
              "with key {0}"
              "made at {2}".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
              time.ctime(sign.timestamp))))
else:
    pass
# END_SRC
```

In both of the previous examples it is also possible to compare the original data that was signed against the signed data in `data` to see if it matches with something like this:

```python
# BEGIN_SRC python -i
with open(filename, "rb") as afile:
    text = afile.read()

if text == data:
# END_SRC
```
print("Good signature.")
else:
    pass

# END_SRC

The following two examples, however, deal with detached signatures.
With his method of verification the data that was signed does not get
returned since it is already being explicitly referenced in the first
argument of \texttt{=c.verify=}. So \texttt{=data=} is \texttt{=None=} and only the information
in \texttt{=result=} is available.

# BEGIN_SRC python -i
import gpg
import time

filename = "statement.txt"
sig_file = "statement.txt.sig"

c = gpg.Context()

try:
    data, result = c.verify(open(filename), open(sig_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
{0}
with key {1}
made at {2}
".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
            time.ctime(sign.timestamp)))
else:
    pass
# END_SRC

# BEGIN_SRC python -i
import gpg
import time

filename = "statement.txt"
asc_file = "statement.txt.asc"

c = gpg.Context()
try:
    data, result = c.verify(open(filename), open(asc_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("""Good signature from:
          \{0\}
        with key \{1\}
        made at \{2\}
        """.format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
                 time.ctime(sign.timestamp)))
else:
    pass

* Creating keys and subkeys
  :PROPERTIES:
  :CUSTOM_ID: key-generation
  :END:

The one thing, aside from GnuPG itself, that GPGME depends on, of course, is the keys themselves. So it is necessary to be able to generate them and modify them by adding subkeys, revoking or disabling them, sometimes deleting them and doing the same for user IDs.

In the following examples a key will be created for the world's greatest secret agent, Danger Mouse. Since Danger Mouse is a secret agent he needs to be able to protect information to =SECRET= level clearance, so his keys will be 3072-bit keys.

The pre-configured =gpg.conf= file which sets cipher, digest and other preferences contains the following configuration parameters:

#+BEGIN_SRC conf
expert
allow-freeform-uid
allow-secret-key-import
trust-model tofu+pgp
tofu-default-policy unknown
enable-large-rsa
enable-dsa2

---

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** Primary key

:PROPERTIES:
:CUSTOM_ID: keygen-primary
:END:

Generating a primary key uses the =create_key= method in a Context. It contains multiple arguments and keyword arguments, including:

=userid=, =algorithm=, =expires_in=, =expires=, =sign=, =encrypt=, =certify=, =authenticate=, =passphrase= and =force=. The defaults for all of those except =userid=, =algorithm=, =expires_in=, =expires= and =passphrase= is =False=. The defaults for =algorithm= and =passphrase= is =None=. The default for =expires_in= is =0=. The default for =expires= is =True=. There is no default for =userid=.

If =passphrase= is left as =None= then the key will not be generated with a passphrase, if =passphrase= is set to a string then that will be the passphrase and if =passphrase= is set to =True= then gpg-agent will launch pinentry to prompt for a passphrase. For the sake of convenience, these examples will keep =passphrase= set to =None=.

#+BEGIN_SRC python -i
import gpg

c = gpg.Context()

c.home_dir = "~/gnupg-dm"
userid = "Danger Mouse <dm@secret.example.net>"

dmkey = c.create_key(userid, algorithm="rsa3072", expires_in=31536000, sign=True, certify=True)

# END_SRC

One thing to note here is the use of setting the =c.home_dir= parameter. This enables generating the key or keys in a different location. In this case to keep the new key data created for this example in a separate location rather than adding it to existing and active key store data. As with the default directory, =~/gnupg=, any
temporary or separate directory needs the permissions set to only
permit access by the directory owner. On posix systems this means
setting the directory permissions to 700.

The =temp-homedir-config.py= script in the HOWTO examples directory
will create an alternative homedir with these configuration options
already set and the correct directory and file permissions.

The successful generation of the key can be confirmed via the returned
=GenkeyResult= object, which includes the following data:

#+BEGIN_SRC python -i
print("
Fingerprint: {0}
Primary Key: {1}
Public Key: {2}
Secret Key: {3}
Sub Key: {4}
User IDs: {5}
".format(dmkey.fpr, dmkey.primary, dmkey.pubkey, dmkey.seckey, dmkey.sub,
        dmkey.uid))
#+END_SRC

Alternatively the information can be confirmed using the command line
program:

#+BEGIN_SRC shell
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
~/.gnupg-dm/pubring.kbx
----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid     [ultimate] Danger Mouse <dm@secret.example.net>

bash-4.4$
#+END_SRC

As with generating keys manually, to preconfigure expanded preferences
for the cipher, digest and compression algorithms, the =gpg.conf= file
must contain those details in the home directory in which the new key
is being generated. I used a cut down version of my own =gpg.conf=
file in order to be able to generate this:

#+BEGIN_SRC shell
bash-4.4$ gpg --homedir ~/.gnupg-dm --edit-key 177B7C25DB99745EE2EE13ED026D2F19E99E63AA showpref
quit
Secret key is available.
Adding subkeys to a primary key is fairly similar to creating the primary key with the `create_subkey` method. Most of the arguments are the same, but not quite all. Instead of the `userid` argument there is now a `key` argument for selecting which primary key to add the subkey to.

In the following example an encryption subkey will be added to the primary key. Since Danger Mouse is a security conscious secret agent, this subkey will only be valid for about six months, half the length of the primary key.

```python
import gpg
c = gpg.Context()
c.home_dir = "~/.gnupg-dm"

key = c.get_key(dmkey.fpr, secret=True)
dmsub = c.create_subkey(key, algorithm="rsa3072", expires_in=15768000, encrypt=True)
```

As with the primary key, the results here can be checked with:

```python
print(""
Fingerprint: {0}
```
Primary Key: {1}
Public Key: {2}
Secret Key: {3}
Sub Key: {4}
User IDs: {5}

As well as on the command line with:

```bash
# BEGIN_SRC shell
bash-4.4$ gpg --homedir ~/.gnupg-dm -K ~/.gnupg-dm/pubring.kbx
sec rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid [ultimate] Danger Mouse <dm@secret.example.net>
ssb rsa3072 2018-03-15 [E] [expires: 2018-09-13]
bash-4.4$
# END_SRC
```

** User IDs

** Adding User IDs

By comparison to creating primary keys and subkeys, adding a new user ID to an existing key is much simpler. The method used to do this is `key_add_uid` and the only arguments it takes are for the `key` and the new `uid`.

```python
# BEGIN_SRC python -i
import gpg
c = gpg.Context()
c.home_dir = "~/.gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
```
uid = "Danger Mouse <danger.mouse@secret.example.net>"

c.key_add_uid(key, uid)

Unsurprisingly the result of this is:

#+BEGIN_SRC shell
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
 ~/.gnupg-dm/pubring.kbx
----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid           [ultimate] Danger Mouse <danger.mouse@secret.example.net>
uuid [ultimate] Danger Mouse <dm@secret.example.net>
ssb  rsa3072 2018-03-15 [E] [expires: 2018-09-13]

bash-4.4$

*** Revoking User IDs

Revoking a user ID is a fairly similar process, except that it uses
the =key_revoke_uid= method.

#+BEGIN_SRC python -i
import gpg
c = gpg.Context()
c.home_dir = "~/gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
uid = "Danger Mouse <danger.mouse@secret.example.net>"

c.key_revoke_uid(key, uid)

** Key certification

---
Since key certification is more frequently referred to as key signing, the method used to perform this function is `key_sign`.

The `key_sign` method takes four arguments: `key`, `uids`, `expires_in` and `local`. The default value of `uids` is `None` and which results in all user IDs being selected. The default value of both `expires_in` and `local` is `False`; which results in the signature never expiring and being able to be exported.

The `key` is the key being signed rather than the key doing the signing. To change the key doing the signing refer to the signing key selection above for signing messages and files.

If the `uids` value is not `None` then it must either be a string to match a single user ID or a list of strings to match multiple user IDs. In this case the matching of those strings must be precise and it is case sensitive.

To sign Danger Mouse's key for just the initial user ID with a signature which will last a little over a month, do this:

```python
import gpg
c = gpg.Context()
uid = "Danger Mouse <dm@secret.example.net>"
dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)
```

### Verifying key certifications

```python
import gpg
import time
c = gpg.Context()
dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
keys = list(c.keylist(pattern=dmuid, mode=gpg.constants.keylist.mode.SIGS))
key = keys[0]
for user in key.uids:
```
for sig in user.signatures:
    print("0x{0}".format(sig.keyid), ",", time.ctime(sig.timestamp), ",", sig.uid)
#END_SRC

Which for Danger Mouse displays the following:

#+BEGIN_EXAMPLE
0x92E3F6115435C65A  Thu Mar 15 13:17:44 2018  Danger Mouse <dm@secret.example.net>
0x321E4E2373590E5D  Mon Nov 26 12:46:05 2018  Ben McGinnes <ben@adversary.org>
#END_EXAMPLE

The two key signatures listed are for the self-certification of Danger Mouse's key made when the key was created in March, 2018; and the second is a signature made by the author and set to expire at the end of the year. Note that the second signature was made with the following code (including the preceding code to display the output of the certifications or key signatures):

#+BEGIN_SRC python -i
import gpg
import math
import pendulum
import time

hd = "/home/dm/.gnupg"
c = gpg.Context()
d = gpg.Context(home_dir=hd)
dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
dmuid = "Danger Mouse <dm@secret.example.net>"
dkeys = list(c.keylist(pattern=dmuid))
dmkey = dkeys[0]
c.key_import(d.key_export(pattern=None))

tp = pendulum.period(pendulum.now(tz="local"), pendulum.datetime(2019, 1, 1))
ts = tp.total_seconds()
total_secs = math.ceil(ts)
c.key_sign(dmkey, uids=dmuid, expires_in=total_secs)

d.key_import(c.key_export(pattern=dmuid))
keys = list(c.keylist(pattern=dmuid, mode=gpg.constants.keylist.mode.SIGS))
key = keys[0]

for user in key.uids:
    for sig in user.signatures:
        print("0x{0}".format(sig.keyid), ",", time.ctime(sig.timestamp), ",", sig.uid)
#END_SRC
Note that this final code block includes the use of a module which is
/not/ part of Python's standard library, the [[https://pendulum.eustace.io][pendulum module]]. Unlike
the standard datetime module, pendulum makes working with dates and
times significantly easier in Python; just as the requests module
makes working with HTTP and HTTPS easier than the builtin modules do.

Though neither requests nor pendulum are required modules for using
the GPGME Python bindings, they are both highly recommended more
generally.

* Advanced or Experimental Use Cases
  :PROPERTIES:
  :CUSTOM_ID: advanced-use
  :END:

** C plus Python plus SWIG plus Cython
  :PROPERTIES:
  :CUSTOM_ID: cython
  :END:

In spite of the apparent incongruence of using Python bindings to a C
interface only to generate more C from the Python; it is in fact quite
possible to use the GPGME bindings with [[http://docs.cython.org/en/latest/index.html][Cython]]. Though in many
cases
the benefits may not be obvious since the most computationally
intensive work never leaves the level of the C code with which GPGME
itself is interacting with.

Nevertheless, there are some situations where the benefits are
demonstrable. One of the better and easier examples being the one of
the early examples in this HOWTO, the [[#howto-keys-counting][key counting]] code. Running that
code as an executable Python script, keycount.py (available in
the example/howto/ directory), will take a noticeable amount of time
to run on most systems where the public keybox or keyring contains a
few thousand public keys.

Earlier in the evening, prior to starting this section, I ran that
script on my laptop; as I tend to do periodically and timed it using
=time= utility, with the following results:

#+BEGIN_SRC shell
bash-4.4$ time keycount.py

Number of secret keys:  23
Sometime after that I imported another key and followed it with a little test of Cython. This test was kept fairly basic, essentially lifting the material from the [[http://docs.cython.org/en/latest/src/tutorial/cython_tutorial.html][Cython Basic Tutorial]] to demonstrate compiling Python code to C. The first step was to take the example key counting code quoted previously, essentially from the importing of the =gpg= module to the end of the script:

```python
# BEGIN_SRC python -i
import gpg

c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)

seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

print("Number of secret keys:  {}\nNumber of public keys:  {}\n").format(secnum, pubnum))
# END_SRC
```

Save that into a file called =keycount.pyx= and then create a =setup.py= file which contains this:

```python
# BEGIN_SRC python -i
from distutils.core import setup
from Cython.Build import cythonize

setup(  
ext_modules = cythonize("keycount.pyx")
)
# END_SRC
```
Compile it:

```Shell
bash-4.4$ python setup.py build_ext --inplace
bash-4.4$
```

Then run it in a similar manner to `keycount.py`:

```Shell
bash-4.4$ time python3.7 -c "import keycount"
```

Number of secret keys: 23
Number of public keys: 12113

```Shell
real 6m47.905s
user 0m0.785s
sys 0m0.331s
bash-4.4$
```

Cython turned `keycount.pyx` into an 81KB `keycount.o` file in the `build/` directory, a 24KB `keycount.cpython-37m-darwin.so` file to be imported into Python 3.7 and a 113KB `keycount.c` generated C source code file of nearly three thousand lines. Quite a bit bigger than the 314 bytes of the `keycount.pyx` file or the full 1,452 bytes of the full executable `keycount.py` example script.

On the other hand it ran in nearly half the time; taking 6 minutes and 47.905 seconds to run. As opposed to the 11 minutes and 52.945 seconds which the CPython script alone took.

The `keycount.pyx` and `setup.py` files used to generate this example have been added to the `examples/howto/advanced/cython/` directory. The example versions include some additional options to annotate the existing code and to detect Cython’s use. The latter comes from the [Magic Attributes](https://docs.cython.org/en/latest/src/tutorial/pure.html#magic-attributes-within-the-pxd) section of the Cython documentation.

* Miscellaneous extras and work-arounds

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Most of the things in the following sections are here simply because there was no better place to put them, even though some are only peripherally related to the GPGME Python bindings. Some are also workarounds for functions not integrated with GPGME as yet. This is especially true of the first of these, dealing with [[#group-lines][group lines]].

** Group lines
:PROPERTIES:
:CUSTOM_ID: group-lines
:END:

There is not yet an easy way to access groups configured in the gpg.conf file from within GPGME. As a consequence these central groupings of keys cannot be shared amongst multiple programs, such as MUAs readily.

The following code, however, provides a work-around for obtaining this information in Python.

```python
import subprocess
import sys

if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-options gpg"
else:
    gpgconfcmd = "gpgconf --list-options gpg"

process = subprocess.Popen(gpgconfcmd.split(), stdout=subprocess.PIPE)
procom = process.communicate()

if sys.version_info[0] == 2:
    lines = procom[0].splitlines()
else:
    lines = procom[0].decode().splitlines()

for line in lines:
    if line.startswith("group") is True:
        break

groups = line.split(":")[1].replace("", ").split("")

group_lines = []
group_lists = []

for group in groups:
```
for glist in group_lists:
    glist[1] = glist[1].split()

The result of that code is that =group_lines= is a list of lists where
=group_lines[i][0]= is the name of the group and =group_lines[i][1]=
is the key IDs of the group as a string.

The =group_lists= result is very similar in that it is a list of
lists. The first part, =group_lists[i][0]= matches
=group_lines[i][0]= as the name of the group, but =group_lists[i][1]=
is the key IDs of the group as a list.

A demonstration of using the =groups.py= module is also available in
the form of the executable =mutt-groups.py= script. This second
script reads all the group entries in a user's =gpg.conf= file and
converts them into crypt-hooks suitable for use with the Mutt and
Neomutt mail clients.

** Keyserver access for Python

The [[https://github.com/Selfnet/hkp4py][hkp4py]] module by Marcel Fest was originally a port of the old
[[https://github.com/dgladkov/python-hkp][python-hkp]] module from Python 2 to Python 3 and updated to use the
[[http://docs.python-requests.org/en/latest/index.html][requests]] module instead. It has since been modified to
provide support for Python 2.7 as well and is available via PyPI.

Since it rewrites the =hkp= protocol prefix as =http= and =hkps= as
=https=, the module is able to be used even with servers which do not
support the full scope of keyserver functions.[fn:5] It also works quite
readily when incorporated into a [[#cython][Cython]] generated and compiled version
of any code.

*** Key import format

The hkp4py module returns key data via requests as string literals
(=r.text=) instead of byte literals (=r.content=). This means that
the returned key data must be encoded to UTF-8 when importing that key material using a `gpg.Context().key_import()` method.

For this reason an alternative method has been added to the `search` function of `hkp4py.KeyServer()` which returns the key in the correct format as expected by `key_import`. When importing using this module, it is now possible to import with this:

```python
#BEGIN_SRC python -i
for key in keys:
    if key.revoked is False:
        gpg.Context().key_import(key.key_blob)
    else:
        pass
#END_SRC
```

Without that recent addition it would have been necessary to encode the contents of each `hkp4py.KeyServer().search()[i].key` in `hkp4py.KeyServer().search()` before trying to import it.

An example of this is included in the `[[#howto-import-key][Importing Keys]]` section of this HOWTO and the corresponding executable version of that example is available in the `lang/python/examples/howto` directory as normal; the executable version is the `import-keys-hkp.py` file.

** GPGME version checking

For various reasons it may be necessary to check which version of GPGME the bindings have been built against; including whether a minimum required version of GPGME is in use.

For the most part the `gpg.version.versionstr` and `gpg.version.versionlist` methods have been quite sufficient. The former returns the same string as `gpgme-config --version`, while the latter returns the major, minor and patch values in a list.

To check if the installed bindings have actually been built against the current installed libgpgme version, this check can be performed:

```python
#BEGIN_SRC python -i
import gpg
import subprocess
import sys
```
For many developers, however, the preferred checking means checking for a minimum version or point release. This is now readily available via the `gpg.version.versionintlist` method (added in version 1.12.1-beta79). It is also now possible to easily check whether the installed GPGME Python bindings were built from a development or beta branch of the GPGME source code.

The following code demonstrates how both of those methods may be used:

```python -i
import gpg
try:
    if gpg.version.is_beta is True:
        print("The installed GPGME Python bindings were built from beta code.")
    else:
        print("The installed GPGME Python bindings are a released version.")
except Exception as e:
    print(e)
```
else:
    pass
elif gpg.version.versionintlist[1] > 12:
    print("The versionintlist method is available.")
else:
    pass
elif gpg.version.versionintlist[0] > 1:
    print("The versionintlist method is available.")
else:
    pass
except Exception as e:
    print(e)

The points where =pass= is used in the above example will most likely also produce an =Exception= error since those results should only occur in versions which do not have the =gpgme.version.is_beta= and =gpgme.version.versionintlist= methods available.

* Copyright and Licensing

** Copyright

Copyright  The GnuPG Project, 2018.

** Draft Editions of this HOWTO

Draft editions of this HOWTO may be periodically available directly from the author at any of the following URLs:

- [[https://files.au.adversary.org/crypto/gpgme-python-howto.html][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 SSL)]]
- [[http://files.au.adversary.org/crypto/gpgme-python-howto.html][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 no SSL)]]
- [[https://files.au.adversary.org/crypto/gpgme-python-howto-split/index.html][GPGME Python Bindings HOWTO draft (HTML multiple files, AWS S3 SSL)]]
These draft versions have been generated from this document via GNU Emacs [[https://orgmode.org]][Org mode] to =.texi= and [[https://www.gnu.org/software/texinfo/]][GNU Texinfo] to HTML. Though it is likely that the specific [[https://files.au.adversary.org/crypto/gpgme-python-howto][file]] [[http://files.au.adversary.org/crypto/gpgme-python-howto.org][version]] used will be on the same server with the generated output formats. Occasionally I may include the Org mode generated XHTML versions:

- [[https://files.au.adversary.org/crypto/gpgme-python-howto.xhtml]][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 SSL)]
- [[http://files.au.adversary.org/crypto/gpgme-python-howto.xhtml]][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 no SSL)]

That XHTML version, however, is exported in a way which inherits a colour scheme from [[https://github.com/holomorph/emacs-zenburn][the author's Emacs theme]] (which is a higher contrast version of [[http://kippura.org/zenburnpage][Zenburn]] ported by [[https://github.com/holomorph][Holomorph]]). So it's fine for people who prefer dark themed web pages, but not so great for everyone else.

The GNU Texinfo and reStructured Text versions ship with the software, while the GNU Emacs Info version is generated from the Texinfo version using GNU Texinfo or GNU Makeinfo. The Texinfo format is generated from the original Org mode source file in Org mode itself either within GNU Emacs or via the command line by invoking Emacs in batch mode:

```shell
#+BEGIN_SRC shell
  emacs gpgme-python-howto.org --batch -f org-texinfo-export-to-texinfo --kill
  emacs gpgme-python-howto --batch -f org-texinfo-export-to-texinfo --kill
#+END_SRC
```

The reStructuredText format is also generated from the Org mode source file, except it is generated using [[https://pandoc.org]][Pandoc] with either of the following commands (depending on the filename):

```shell
#+BEGIN_SRC shell
  pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto.org
  pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto
#+END_SRC
```

Note that the Org mode source files are identified as such via a mode line at the top of each file and have had their =.org= file extensions dropped in order to make scripted generation of output formats easier and not require renaming files post-conversion.
Due to a bug in Org mode's texinfo conversion method, the recommended steps for generating the Texinfo files for all the files in the =lang/python/doc/src/= directory are as follows:

```bash
#+BEGIN_SRC shell
for x in * ; do
  emacs $x --batch --org-texinfo-export-to-texinfo --kill
  cat $x.texi | sed -e 's/@documentencoding UTF-8/@documentencoding utf-8/g' > ../texinfo/$x.texi
  pandoc -f org -t rst+smart -o ../rst/$x.rst $x
done ;
rm -f *\* .texi
cd ../texinfo
mkdir info
mkdir html
for x in *.texi ; do
  makeinfo -v $x
  makeinfo --html --no-split $x
done ;
mv *.info info/
mv *.html html/
#+END_SRC
```

This code snippet includes the generation of the reStructuredText files and would be expected to be run from the =doc/src/= directory containing the Org mode source files. It also assumes that the commands are being run on POSIX compliant systems with basic tools like sed, the Bourne shell and GNU Emacs available. The code snippet also includes the steps for generating the Emacs Info files and HTML files from the Texinfo files. Using reStructuredText files with Sphinx is best left for the documentation of that project.

In addition to these there is a significantly less frequently updated version as a HTML ([https://files.au.adversary.org/crypto/gpgme-python/dita/webhelp/index.html][WebHelp site]) (AWS S3 SSL); generated from DITA XML source files, which can be found in [[https://dev.gnupg.org/source/gpgme/browse/ben%252Fhowto-dita/][an alternative branch]] of the GPGME git repository.

Various generated output formats may occasionally be found in subdirectories of the [[https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python][gpgme-python]] directory. In particular within the [[https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/dita]/[DITA]], [[https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/rst]/[reStructuredText]] and [[https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/texinfo][Texinfo]] subdirectories. The =rst= directory contains output files generated with Sphinx and may include a considerable number of its possible output formats, but there are no
These draft editions are not official documents and the version of documentation in the master branch or which ships with released versions is the only official documentation. Nevertheless, these draft editions may occasionally be of use by providing more accessible web versions which are updated between releases. They are provided on the understanding that they may contain errors or may contain content subject to change prior to an official release.

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* Footnotes

[fn:1] =short-history= and/or =short-history.html=.

[fn:2] With no issues reported specific to Python 3.7, the release of Python 3.7.1 at around the same time as GPGME 1.12.0 and the testing with Python 3.7.1rc1, there is no reason to delay moving 3.7 ahead of 3.6 now. Production environments with more conservative requirements will always enforce their own policies anyway and installation to each supported minor release is quite possible too.

[fn:3] Yes, even if you use virtualenv with everything you do in Python. If you want to install this module as just your user account then you will need to manually configure, compile and install the /entire/ GnuPG stack as that user as well. This includes libraries which are not often installed that way. It can be done and there are circumstances under which it is worthwhile, but generally only on POSIX systems which utilise single user mode (some even require it).

[fn:4] You probably don't really want to do this. Searching the keyservers for "gnupg.org" produces over 400 results, the majority of which aren't actually at the gnupg.org domain, but just included a
comment regarding the project in their key somewhere.

[fn:5] Such as with ProtonMail servers. This also means that
restricted servers which only advertise either HTTP or HTTPS end
points and not HKP or HKPS end points must still be identified as as
HKP or HKPS within the Python Code. The =hkp4py= module will rewrite
these appropriately when the connection is made to the server.

[fn:6] Okay, Emacs might not necessarily qualify as a basic tool, but
it is common enough that having it installed on a system isn’t too
great an expectation, nor is it difficult to add to most POSIX
systems, even if the users of those systems do not personally use it.
;;; *.- Mode: lisp -*.

;;; Copyright (C) 2006 g10 Code GmbH

;;; This file is part of GPGME.

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;;; modify it under the terms of the GNU Lesser General Public License
;;; as published by the Free Software Foundation; either version 2.1 of
;;; the License, or (at your option) any later version.

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;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.

;;; You should have received a copy of the GNU Lesser General Public
;;; License along with GPGME; if not, write to the Free
;;; Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA
;;; 02111-1307, USA.

(defun #gpgme-system
  (:use #:common-lisp #:asdf))

(in-package #:gpgme-system)

(defsystem gpgme
  :description "GnuPG Made Easy."
  :author "g10 Code GmbH"
  :version "1.13.1"
  :licence "GPL"
  :defsystem-depends-on ("cffi-grovel")
  :depends-on ("cffi" "gpg-error" "trivial-garbage")
  :components ((:file "gpgme-package")
               (:cffi-grovel-file "gpgme-grovel"
                :depends-on ("gpgme-package")))
The contents of this directory are the examples included in the /GNU Privacy Guard (GnuPG) Made Easy Python Bindings HOWTO/ file. Each script is explicitly for Python 3 and specifically for Python 3.4 or later.

Some of these scripts may work with Python 2.7, but there are no guarantees. They will include the relevant imports from the __future__ module to facilitate that if possible.

Unless otherwise stated, all the examples in this directory are released under the same terms as GPGME itself; that is they are dual licensed under the terms of both the GNU General Public License version 2.0 (or any later version) *and* the GNU Lesser General Public License version 2.1 (or any later version).

** Copyright (C) The GnuPG Project, 2018
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GPGME Python Bindings

--- The Detailed Node Listing ---

GPGME Python Bindings
* Contents:
@end detailmenu
@end menu

@node GPGME Python Bindings
@chapter GPGME Python Bindings

@menu
* Contents:
@end menu

@node Contents
@section Contents

@itemize
@item
@uref{short-history, A short history of the project}
@item
@uref{what-is-new, What's New}
@itemize
@item
@uref{maintenance-mode, Maintenance Mode} (from January, 2019)
@end itemize
@item
@uref{what-was-new, What Was New}
@item
@uref{gpgme-python-howto, GPGME Python Bindings HOWTO}
@end itemize

@bye
;;; gpgme-package.lisp

;;; Copyright (C) 2006 g10 Code GmbH
;;;
;;; This file is part of GPGME-CL.
;;;
;;; GPGME-CL is free software; you can redistribute it and/or modify
;;; it under the terms of the GNU General Public License as published
;;; by the Free Software Foundation; either version 2 of the License,
;;; or (at your option) any later version.
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 2343
(defpackage #:gpgme
 (:use #:common-lisp #:cffi #:gpg-error)
 (:import-from #:trivial-garbage   
    #:finalize)
 (:export #:check-version
    #:*version*
    #:context
    #:protocol
    #:armor-p
    #:text-modep
    #:+include-certs-default+
    #:include-certs
    #:keylist-mode
    #:signers
    #:sig-notations
    #:with-context
    #:key-data
    #:get-key
    #:op-encrypt
    #:op-decrypt
    #:op-sign
    #:op-verify
    #:op-import
    #:op-export))

2011-12-02 Werner Koch  <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2011-05-12 Marcus Brinkmann  <marcus@g10code.com>

* gpgme.texi (I/O Callback Example): Fix example code.

* gpgme.texi (Generating Keys): Fix OpenPGP parameters and reference
GPG and GPGSM manual.

2010-01-05 Werner Koch  <wk@g10code.com>
* gpgme.texi (Changing Passphrases): New.

2009-07-21 Werner Koch <wk@g10code.com>

* uiserver.texi (UI Server Encrypt): Add --expect-sign option to PREP_ENCRYPT.

2009-06-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Result Management): New section.

2009-06-16 Werner Koch <wk@g10code.com>

* gpgme.texi (Exporting Keys): Document gpgme_op_export_keys.
  (Data Buffer Meta-Data): Document URL encodings.

2009-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Document selftest error.
  (Creating Contexts): Likewise.

2009-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document
  GPGME_ENCRYPT_NO_ENCRYPT_TO.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Information): Replace path by file_name.

2008-11-28 Werner Koch <wk@g10code.com>

* gpgme.texi (Listing Keys): Change description of the return
  value to match the code. Spotted by Colin Leroy.

2008-10-15 Werner Koch <wk@g10code.com>

* uiserver.texi (Miscellaneous UI Server Commands): Add option
  --protocol to the SENDER command.

2008-07-17 Werner Koch <wk@g10code.com>

* module-overview.sk: New.

2008-07-04 Werner Koch <wk@g10code.com>
* gpgme.texi (Algorithms): Add a hint on symmetric only encryption.

2008-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Cancellation): Document gpgme_cancel_async.

2008-06-25 Werner Koch <wk@g10code.com>

* gpgme.texi (Listing Keys): Updated example to the current API. Noted by Nico Schottelius.

2008-06-05 Werner Koch <wk@g10code.com>

* uiserver.texi (Miscellaneous UI Server Commands): Describe START_CONFDIALOG.

2008-06-04 Werner Koch <wk@g10code.com>

* gpgme.texi: Use @copying command. Change license to GPLv3. Include protocol specs from GpgOL and GPGEx. Minor cleanups.

2008-03-11 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (File Based Data Buffers): Document the need for blocking operations. (Callback Based Data Buffers): Likewise.

2008-03-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Rename snippet function to init_gpgme. (I/O Callback Example): Call it here.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Document that data encoding affects some output data objects now.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Protocols and Engines): Document GPGME_PROTOCOL_UNKNOWN.

2007-09-11 Werner Koch <wk@g10code.com>

* gpgme.texi (I/O Callback Example): Typo fix.

2007-08-07 Werner Koch <wk@g10code.com>
* gpgme.texi (Verify): Describe chain_model.

2007-07-12 Werner Koch <wk@g10code.com>

* gpgme.texi (Library Version Check): Add remark that the socket layer will get initialized.

2007-06-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Advanced Key Editing): New section.

2007-05-21 Werner Koch <wk@g10code.com>

* Makefile.am (online): New target.

2007-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Fix documentation of gpgme_strerror_r.

2006-11-01 Moritz Schulte <moritz@g10code.com>

* gpgme.texi (Data Buffer I/O Operations): Fixed entry for gpgme_data_seek: OFFSET is not a pointer; some s/whence/offset/.

2006-09-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Destroying Data Buffers): Clarify that gpgme_data_release_and_get_mem destroys DH unconditionally.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Make example code compatible to W32 systems.

2006-06-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix inverted condition in description.

2005-12-20 Werner Koch <wk@g10code.com>

* gpgme.texi (Verify): Document pka_trust.

2005-12-06 Werner Koch <wk@g10code.com>

* gpgme.texi (Key Management): Updated to match the fixes for
subkey fingerprints and the secret flag.

2005-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Destroying Data Buffers): Document gpgme_free.

2005-10-02 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Add the new member notations of
gpgme_sig_key_t.
(Key Listing Mode): Document GPGME_KEYLIST_MODE_SIG_NOTATIONS.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Enclose all return parameters of deftypefuns in
curly brackets.

* gpgme.texi (Signature Notation Data): New section.
(Verify): Added more about the notation data structure.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Data Buffer I/O Operations, Data Buffer Meta-Data):
New subsections.

* gpgme.texi: Replace plaintext_filename with file_name.

* gpgme.texi (Key Management): Document is_qualified.

2005-07-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Decrypt): Add plaintext_filename to
gpgme_decrypt_result_t.
(Verify): Likewise for gpgme_verify_result_t.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Add information about new fields in
gpgme_signature_t.

* gpgme.texi (Decrypt): Add gpgme_recipient_t.

2005-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Fix return type of
gpgme_set_keylist_mode.
Reported by "Sergio" <ml_sergico@virgilio.it>.
2005-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Included Certificates): Document
  GPGME_INCLUDE_CERTS_DEFAULT.

2005-01-12 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Configuration): New section.
  (Crypto Engine): New subsection.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* lesser.texi (Library Copying): Change from @appendixsec to @appendix.
  * gpgme.texi (Features): Change reference to GPL to one to LGPL.

* Makefile.am: Change license to LGPL.
  (gpgme_TEXINFOS): Replace gpl.texi with lesser.texi.

* gpgme.texi: Change license to LGPL (also for documentation of
  GPGME's license).
  * gpl.texi: File removed.

* gpgme.texi (Creating Contexts): Fix cut&paste error. Reported
  by Noel Torres <envite@rolamasao.org>.

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgme_TEXINFOS): Remove fdl.texi.
  * gpgme.texi: Do not include fdl.texi. Change license to GPL.
  * fdl.texi: File removed.

2004-09-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Change type of keylist_mode in
  gpgme_key_t to gpgme_keylist_mode_t.

2004-09-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix last change.

2004-09-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Document
  GPG_ERR_NOT_IMPLEMENTED.

* gpgme.texi: Update copyright year for tex version.
2004-07-29 Moritz Schulte <moritz@g10code.com>

* gpgme.texi (Verify): Fix gpgme_get_key example (ancient force_update argument was still there).

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Elaborate on the length restrictions on search patterns.

* gpgme.texi (Decrypt and Verify): Document the NO_DATA error code.
(Verify): Document the relationship between gpgme_op_verify_result and the decrypt and verify operations.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.text (Verify): Document GPG_ERR_CERT_REVOKED status.

* gpgme.texi (Decrypt): Add note about new field wrong_key_usage of gpgme_decrypt_result_t.

* gpgme.texi (Key Management): Add note about new field keylist_mode of gpgme_key_t.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Correct type of member wrong_key_usage.

2004-03-29 Moritz Schulte <moritz@duesseldorf.ccc.de>

* gpgme.texi (Verify): Fix type of gpgme_op_verify_result.
* gpgme.texi (Key Listing Mode): Typo fix.

2004-03-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Fix the instruction when to set the locale.

2004-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (I/O Callback Example Qt): New section by Marc Mutz.

2004-02-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (cancellation): New section.
2004-02-17 Werner Koch <wk@gnupg.org>

* gpgme.texi (Key Listing Mode): Doc KEYLIST_MODE_VALIDATE.

2004-02-06 Moritz Schulte <mo@g10code.com>

* gpgme.texi: A couple of small fixes regarding the Largfile Support section.

2004-02-01 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Largefile Support): New section.

2004-01-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Fix exportable field.

2003-12-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Rename member class in gpgme_key_sig_t to sig_class.
  (Creating a Signature): Likewise for gpgme_signature_t.

2003-12-23 Moritz Schulte <mo@g10code.com>

* gpgme.texi (Listing Keys): Minor clarification for gpgme_get_key.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Signal Handling): New section.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Correct documentation on memory synchronization requirement.

* gpgme.texi (Locale): New section.
  (Multi Threading): Set locale in example.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Add gpgme_strerror_r.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Update documentation.
2003-09-03  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Header): We don't use the assuan namespace anymore. Document new thread options.

2003-08-14  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Change type of member class to unsigned int.

2003-08-04  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Verify): Get error code from SIG->status in the code for gpgme_get_sig_status.

2003-07-31  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Key Management): Add can_authenticate flag.

* gpgme.texi (Listing Keys): Document GPG_ERR_AMBIGUOUS_NAME for gpgme_get_key.

2003-07-29  Marcus Brinkmann  <marcus@g10code.de>

* Makefile.am (EXTRA_DIST): Remove variable.

* gpgme.texi (Encrypting a Plaintext): Bad passphrase is only possible with symmetric encryption, change the wording to reflect that.

* gpgme.texi (Creating a Signature): Document GPG_ERR_UNUSABLE_SECKEY.

* gpgme.texi (Encrypting a Plaintext): Mention encrypt and sign operations in result function.

* gpgme.texi (Creating a Signature): Likewise.

2003-07-23  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Remove word duplication.

* gpgme.texi (Encrypting a Plaintext): Don't mention r_stat. Fix some typos.

* gpgme.texi (Decrypt and Verify): Correct info how to get the result. Don't mention r_stat.

* gpgme.texi (Manipulating Data Buffers): Fix documentation of return value.

* gpgme.texi (Listing Keys): Update examples.

* gpgme.texi (Decrypt): Result might also be available when operation failed.

* gpgme.texi (Verify): Result might also be available when operation failed.
All spotted by Stphane Corthy.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Sources): Fix cut and paste error.

2003-07-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Clarify difference between can_sign and can_certify.
(Information About Keys): Likewise for GPGME_ATTR_CAN_SIGN and GPGME_ATTR_CAN_CERTIFY.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Progress Meter Callback): Change return type of gpgme_progress_cb_t to void.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Add 2003 to copyright notice.

* gpgme.texi (Header): Fix name space documentation on libgpg-error.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Remove reference to gpgme_recipients_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Crypto Operations): Rename gpgme_invalid_user_id_t to gpgme_invalid_key_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Change error codes to GPG_ERR_* variants.
(Error Handling): Rewritten.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Exporting Keys): Change and document prototypes.
Add new gpgme_op_export_ext and gpgme_op_export_ext_start variants.
(Selecting Recipients): Section removed.
(Encrypting a Plaintext): Change prototypes and document the changes.
2003-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Exporting Keys): Change argument type from
gpgme_recipient_t to gpgme_user_id_t.
(Encrypting a Plaintext): Likewise.
(Selecting Recipients): Rewritten.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Protocol Selection): Do not use @acronym in @node
because that breaks texi2dvi.

* gpgme.texi (Passphrase Callback): Document new prototype.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Header): Remove Gpgme as namespace prefix. Add
_GPGME to namespace prefix.
* gpgme.texi (Multi Threading): Add note about link order.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Document what happens if key is not
found.

* gpgme.texi (Importing Keys): Fix cut and paste error.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Remove reference to
gpgme_get_op_info.
(Detailed Results): Subsection removed.

* gpgme.texi (Key Listing Mode): Add GPGME_KEYLIST_MODE_SIGS.
(Manipulating Keys): Add obsoleteness note.
(Key Signatures): Likewise.
(Information About Keys): Likewise.
(Key Management): Add new data types GpgmeSubkey, GpgmeKeySig,
GpgmeUserID, and all the information about GpgmeKey.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Remove force_update argument from
gpgme_get_key.

* gpgme.texi (Trust Item Management): Add data members of
GpgmeTrustItem type.
(Information About Trust Items): Add note about obsoleteness.
(Manipulating Trust Items): Add gpgme_trust_item_ref and gpgme_trust_item_unref.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Rewritten to take into account new and deprecated functions and data types.

* gpgme.texi (Decrypt): Descript gpgme_op_decrypt_result and GpgmeDecryptResult.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Add info about GpgmeEncryptResult and gpgme_op_encrypt_result.

* gpgme.texi (Creating a Signature): Add info about GpgmeNewSignature, GpgmeSignResult and gpgme_op_sign_result.
(Crypto Operations): Add GpgmeInvalidUserID.

* gpgme.texi (Deleting Keys): Document GPGME_Ambiguous_Specification.
(Error Values): Remove GPGME_Invalid_Type and GPGME_Invalid_Mode.
Add GPGME_Unknown_Reason, GPGME_Not_Found, GPGME_Ambiguous_Specification, GPGME_Wrong_Key_Usage,
GPGME_Key_Revoked, GPGME_Key_Expired, GPGME_No_CRL_Known, GPGME_CRL_Too_Old, GPGME_Policy_Mismatch, GPGME_No_Secret_Key,
GPGME_Key_Not_Trusted, GPGME_Issuer_Missing, GPGME_Chain_Too_Long, GPGME_Unsupported_Algorithm, GPGME_Sig_Expired,
GPGME_Bad_Signature, GPGME_No_Public_Key.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Change GPGME_IMPORT_PRIVATE to GPGME_IMPORT_SECRET.

* gpgme.texi (Importing Keys): Remove note about gpgme_get_op_info.
(Detailed Results): Remove note about import.

* gpgme.texi (Importing Keys): Add documentation for GpgmeImportStatus, GpgmeImportResult and gpgme_op_import_result.

* gpgme.texi (Generating Keys): Fix documentation of public and secret arguments.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

* **gpgme.texi** (Error Values): Rename `GPGME_No_Passphrase` to `GPGME_Bad_Passphrase`.
* **gpgme.texi** (Decrypt): Likewise.
  (Decrypt and Verify): Likewise.
  (Creating a Signature): Likewise.
  (Encrypting a Plaintext): Likewise.

* **gpgme.texi** (Error Values): Rename `GPGME_No_Recipients` to `GPGME_No_UserID` and `GPGME_Invalid_Recipient` to `GPGME_Invalid_UserID`.
  (Encrypting a Plaintext): Likewise.

* **gpgme.texi** (Error Values): Remove `GPGME_Busy` and `GPGME_No_Request`.
  (Listing Keys): Likewise.
  (Listing Trust Items): Likewise.

2003-02-06 Marcus Brinkmann  <marcus@g10code.de>

* **gpgme.texi** (Cancelling an Operation): Removed.

2003-01-30 Marcus Brinkmann  <marcus@g10code.de>

* **gpgme.texi** (Engine Information): Rename member part to `file_name`.


* **gpgme.texi** (Engine Information): Rewritten.

2003-01-29 Marcus Brinkmann  <marcus@g10code.de>

  (Waiting For Completion): Document new possible return values.

2003-01-29 Marcus Brinkmann  <marcus@g10code.de>

* **gpgme.texi** (Hooking Up Into Idle Time): Section removed.

2002-12-24 Marcus Brinkmann  <marcus@g10code.de>
* gpgme.texi (Verify): Drop R_STAT argument in gpgme_op_verify.
* gpgme.texi (Decrypt and Verify): Likewise for gpgme_op_decrypt_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Document that GPGME_ATTR_IS_SECRET is not representable as a string anymore.

2002-12-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Signatures): New section.
(Listing Keys): Add gpgme_get_key.

2002-12-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Memory Based Data Buffers): New subsection.
(File Based Data Buffers): Likewise.
(Callback Based Data Buffers): Likewise.
(Manipulating Data Buffers): Update interfaces. Add gpgme_data_seek.
* gpgme.texi (Engine Version Check): Remove gpgme_check_engine.

2002-11-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Document the new interface.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document new argument to gpgme_op_genkey.

2002-11-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Fix prototype of gpgme_get_sig_key.
Reported by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-08-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Selecting Signers): Fix reference count.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Header): Document name space.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>
* gpgme.texi (Importing Keys): Document gpgme_op_import_ext.

* gpgme.texi (Importing Keys): Undocument EOF.

2002-08-14 Werner Koch <wk@gnupg.org>

* gpgme.texi (Information About Keys): Changed GPGME_ATTR_TYPE.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Deleting Keys): Say that secret keys might not be deleted.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Document (badly) the new key attributes.

* gpgme.texi (Manipulating Data Buffers): Mention that backend tries to detect encoding automatically.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Run Control): Update this section. (Waiting For Completion): Likewise for this subsection. (Cancelling an Operation): Likewise for this subsection. (Using External Event Loops): New subsection with several subsubsections.

2002-06-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Remove item about the need to synchronize anything against gpgme_wait (except gpgme_wait itself).

2002-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Fix documentation for IDX. (Information About Trust Items): Likewise.

2002-06-26 Werner Koch <wk@gnupg.org>

* gpgme.texi (Importing Keys): Document the return value -1 of gpgme_op_import.

2002-06-20 Werner Koch <wk@gnupg.org>

* gpgme.texi (Verify): Explain the new whatidx variable.
2002-06-10 Werner Koch <wk@gnupg.org>

* gpgme.texi (Verify): Document attribute GPGME_ATTR_ERRTOK.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Document new autodetection.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (DISTCLEANFILES): New variable.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Some typographical corrections throughout.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Using Automake): New section.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Escape { and }.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Overview): Replace note about thread-safeness.

(Multi Threading): New section.

2002-05-03 Werner Koch <wk@gnupg.org>

* gpgme.texi (Manipulating Data Buffers): Changed some data types to void*.

(Protocol Selection): Added gpgme_get_protocol.

(Verify): Updated to include the new attribute functions and status codes.

2002-04-27 Werner Koch <wk@gnupg.org>

* gpgme.texi (Manipulating Data Buffers): New type GpgmeDataEncoding.

2002-04-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Document that either return argument can be NULL.

(Progress Meter Callback): Likewise.
2002-04-22 Marcus Brinkmann <marcus@g10code.de>

(Progress Meter Callback): Document the new function gpgme_get_progress_cb.

2002-04-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Fix function name. Reported by Wichert Ackerman <wichert@debian.org>.

2002-03-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (direntry): End index entry with a full stop.
Patch submitted by Jose Carlos Garcia Sogo <jsogo@debian.org>.

2002-03-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Detailed Results): Fix syntax error in last change.

2002-03-08 Werner Koch <wk@gnupg.org>

* gpgme.texi (Detailed Results): Import does also return info.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document symmetric encryption.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Add example.
* gpgme.texi (Listing Keys): Likewise.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Document GPGME_ATTR_EXPIRE.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Document verification of normal and cleartext signatures.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Document gpgme_op_keylist_ext_start.
2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document
  GPGME_Invalid_Recipients.
  (Error Values): Likewise.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document
  gpgme_op_encrypt_sign and gpgme_op_encrypt_sign_start.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Add a note about certificates to include.
  (Included Certificates): New section.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Detailed Results): Remove literal tags.
  (Generating Keys): Update documentation.

* gpgme.texi (Generating Keys): Fix syntax error.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Waiting For Completion): Adjust doc to changes in the code.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Update documentation.

2002-01-31 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document error at creation failure.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Deleting Keys): Document new error values.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Add reference to gpgme_get_op_info.
* gpgme.texi: Some spell checking.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Add all the gpgme_op_*_start functions.
  Fill the concept index with many, many entries.

2002-01-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Run Control): New section.
  (Verify): Document gpgme_get_notation.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase callback): Change GpgmePassphraseCb's
  R_HD type from void* to void**.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating data buffers): Change
  gpgme_data_new_from_filepart's LENGTH type from off_t to size_t.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating keys): New subsection.
  (Exporting keys): Likewise.
  (Importing keys): Likewise.
  (Deleting keys): Likewise.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: g10Code -> g10 Code

* gpgme.texi (Top): Complete detailmenu.

* gpgme.texi: Convert embarrassing cruft to the real thing.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Likewise.
* gpl.texi: Likewise.
* fdl.texi: Likewise.
* Makefile.am (info_TEXINFOS): New variable.
  (gpgme_TEXINFOS): Likewise.

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@c Macros used by the description of the UI server protocol

macro clnt{string}
  @sc{c:} \string\n@end macro

macro srvr{string}
  @sc{s:} \string\n@end macro
This file documents the @acronym{GPGME} library.

This is Edition @value{EDITION}, last updated @value{UPDATED}, of @cite{The `GnuPG Made Easy' Reference Manual}, for Version @value{VERSION}.

@c NOTE: Don't forget to update the year for the TeX version, too.

Published by The GnuPG Project c/o g10 Code GmbH Httenstr. 61 40699 Erkrath, Germany
This is Edition \@value{EDITION}, last updated \@value{UPDATED}, of \@cite{The `GnuPG Made Easy' Reference Manual}, for Version \@value{VERSION} of the \@acronym{GPGME} library.

\@end ifnottex

\@menu
* Introduction:: How to use this manual.
* Preparation:: What you should do before using the library.
* Protocols and Engines:: Supported crypto protocols.
* Algorithms:: Supported algorithms.
* Error Handling:: Error numbers and their meanings.
* Exchanging Data:: Passing data to and from \@acronym{GPGME}.
* Contexts:: Handling \@acronym{GPGME} contexts.

Appendices

* Debugging:: How to solve problems.
* Deprecated Functions:: Documentation of deprecated functions.

* Library Copying:: The GNU Lesser General Public License says how you can copy and share `GnuPG Made Easy'.
* Copying:: The GNU General Public License says how you can copy and share this manual.

Indices

* Concept Index:: Index of concepts and programs.
* Function and Data Index:: Index of functions, variables and data types.

\@detailmenu
--- The Detailed Node Listing ---

Introduction

* Getting Started:: Purpose of the manual, and how to use it.
* Features:: Reasons to install and use \@acronym{GPGME}.
* Overview:: Basic architecture of the \@acronym{GPGME} library.

Preparation

* Header:: What header file you need to include.
* Building the Source:: Compiler options to be used.
* Largefile Support (LFS):: How to use \@acronym{GPGME} with LFS.
* Using Automake:: Compiler options to be used the easy way.
* Using Libtool:: Avoiding compiler options entirely.
* Library Version Check:: Getting and verifying the library version.
* Signal Handling:: How @acronym{GPGME} affects signal handling.
* Multi-Threading:: How @acronym{GPGME} can be used in an MT environment.

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* Engine Version Check:: Verifying the engine version.
* Engine Information:: Obtaining more information about the engines.
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* OpenPGP:: Support for the OpenPGP protocol.
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* Error Values:: The error value and what it means.
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* Destroying Data Buffers:: Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.

Creating Data Buffers

* Memory Based Data Buffers:: Creating memory based data buffers.
* File Based Data Buffers:: Creating file based data buffers.
* Callback Based Data Buffers:: Creating callback based data buffers.

Manipulating Data Buffers

* Data Buffer I/O Operations:: I/O operations on data buffers.
* Data Buffer Meta-Data:: Meta-data manipulation of data buffers.
* Data Buffer Convenience:: Convenience function for data buffers.

Contexts

* Creating Contexts:: Creating new @acronym{GPGME} contexts.
* Destroying Contexts:: Releasing @acronym{GPGME} contexts.
* Result Management:: Managing the result of crypto operations.
* Context Attributes:: Setting properties of a context.
* Key Management:: Managing keys with @acronym{GPGME}.
* Trust Item Management:: Managing trust items with @acronym{GPGME}.
* Crypto Operations:: Using a context for cryptography.
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* Run Control:: Controlling how operations are run.

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* Setting the Sender:: How to tell the engine the sender.
* ASCII Armor:: Requesting @acronym{ASCII} armored output.
* Text Mode:: Choosing canonical text mode.
* Offline Mode:: Choosing offline mode.
* Included Certificates:: Including a number of certificates.
* Key Listing Mode:: Selecting key listing mode.
* Passphrase Callback:: Getting the passphrase from the user.
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Key Management

* Key objects:: Description of the key structures.
* Listing Keys:: Browsing the list of available keys.
* Information About Keys:: Requesting detailed information about keys.
* Manipulating Keys:: Operations on keys.
* Generating Keys:: Creating new key pairs.
* Signing Keys:: Adding key signatures to public keys.
* Exporting Keys:: Retrieving key data from the key ring.
* Importing Keys:: Adding keys to the key ring.
* Deleting Keys:: Removing keys from the key ring.
* Changing Passphrases:: Change the passphrase of a key.
* Changing TOFU Data:: Changing data pertaining to TOFU.
* Advanced Key Editing:: Advanced key edit operation.

Trust Item Management

* Listing Trust Items:: Browsing the list of available trust items.
* Manipulating Trust Items:: Operations on trust items.

Crypto Operations

* Decrypt:: Decrypting a ciphertext.
* Verify:: Verifying a signature.
* Decrypt and Verify:: Decrypting a signed ciphertext.
* Sign:: Creating a signature.
* Encrypt:: Encrypting a plaintext.
`GnuPG Made Easy` (@acronym{GPGME}) is a C language library that allows to add support for cryptography to a program. It is designed to make access to public key crypto engines like GnuPG or GpgSM easier for applications. @acronym{GPGME} provides a high-level crypto API for encryption, decryption, signing, signature verification and key management.

@acronym{GPGME} uses GnuPG and GpgSM as its backends to support OpenPGP and the Cryptographic Message Syntax (CMS).
This manual documents the @acronym{GPGME} library programming interface. All functions and data types provided by the library are explained.

The reader is assumed to possess basic knowledge about cryptography in general, and public key cryptography in particular. The underlying cryptographic engines that are used by the library are not explained, but where necessary, special features or requirements by an engine are mentioned as far as they are relevant to @acronym{GPGME} or its users.

This manual can be used in several ways. If read from the beginning to the end, it gives a good introduction into the library and how it can be used in an application. Forward references are included where necessary. Later on, the manual can be used as a reference manual to get just the information needed about any particular interface of the library. Experienced programmers might want to start looking at the examples at the end of the manual, and then only read up those parts of the interface which are unclear.

The documentation for the language bindings is currently not included in this manual. Those languages bindings follow the general programming model of @acronym{GPGME} but may provide some extra high level abstraction on top of the @acronym{GPGME} style API. For now please see the README files in the @file{lang/} directory of the source distribution.
@item it's flexible
@acronym{GPGME} provides transparent support for several cryptographic protocols by different engines. Currently, @acronym{GPGME} supports the OpenPGP protocol using GnuPG as the backend, and the Cryptographic Message Syntax using GpgSM as the backend.

@item it's easy
@acronym{GPGME} hides the differences between the protocols and engines from the programmer behind an easy-to-use interface. This way the programmer can focus on the other parts of the program, and still integrate strong cryptography in his application. Once support for @acronym{GPGME} has been added to a program, it is easy to add support for other crypto protocols once @acronym{GPGME} backends provide them.

@item it's language friendly
@acronym{GPGME} comes with languages bindings for several common programming languages: Common Lisp, C++, Python 2, and Python 3.
@end table

@node Overview
@section Overview

@acronym{GPGME} provides a data abstraction that is used to pass data to the crypto engine, and receive returned data from it. Data can be read from memory or from files, but it can also be provided by a callback function.

The actual cryptographic operations are always set within a context. A context provides configuration parameters that define the behaviour of all operations performed within it. Only one operation per context is allowed at any time, but when one operation is finished, you can run the next operation in the same context. There can be more than one context, and all can run different operations at the same time.

Furthermore, @acronym{GPGME} has rich key management facilities including listing keys, querying their attributes, generating, importing, exporting and deleting keys, and acquiring information about the trust path.

With some precautions, @acronym{GPGME} can be used in a multi-threaded environment, although it is not completely thread safe and thus needs the support of the application.

@node Preparation
@chapter Preparation
To use @acronym{GPGME}, you have to perform some changes to your sources and the build system. The necessary changes are small and explained in the following sections. At the end of this chapter, it is described how the library is initialized, and how the requirements of the library are verified.

- Header:: What header file you need to include.
- Building the Source:: Compiler options to be used.
- Largefile Support (LFS):: How to use @acronym{GPGME} with LFS.
- Using Automake:: Compiler options to be used the easy way.
- Using Libtool:: Avoiding compiler options entirely.
- Library Version Check:: Getting and verifying the library version.
- Signal Handling:: How @acronym{GPGME} affects signal handling.
- Multi-Threading:: How @acronym{GPGME} can be used in an MT environment.

All interfaces (data types and functions) of the library are defined in the header file `gpgme.h'. You must include this in all programs using the library, either directly or through some other header file, like this:

```c
#include <gpgme.h>
```

The name space of @acronym{GPGME} is @code{gpgme_*} for function names and data types and @code{GPGME_*} for other symbols. Symbols internal to @acronym{GPGME} take the form @code{_gpgme_*} and @code{_GPGME_*}.

Because @acronym{GPGME} makes use of the GPG Error library, using @acronym{GPGME} will also use the @code{GPG_ERR_*} name space directly, and the @code{gpg_err*}, @code{gpg_str*}, and @code{gpgrt_*} name space indirectly.

If you want to compile a source file including the `gpgme.h' header
file, you must make sure that the compiler can find it in the directory hierarchy. This is accomplished by adding the path to the directory in which the header file is located to the compilers include file search path (via the @option{-I} option).

However, the path to the include file is determined at the time the source is configured. To solve this problem, gpgme ships with a small helper program @command{gpgme-config} that knows about the path to the include file and other configuration options. The options that need to be added to the compiler invocation at compile time are output by the @option{--cflags} option to @command{gpgme-config}. The following example shows how it can be used at the command line:

@example
gcc -c foo.c `gpgme-config --cflags`
@end example

Adding the output of @samp{gpgme-config --cflags} to the compiler command line will ensure that the compiler can find the @acronym{GPGME} header file.

A similar problem occurs when linking the program with the library. Again, the compiler has to find the library files. For this to work, the path to the library files has to be added to the library search path (via the @option{-L} option). For this, the option @option{--libs} to @command{gpgme-config} can be used. For convenience, this option also outputs all other options that are required to link the program with @acronym{GPGME} (in particular, the @samp{-lgpgme} option). The example shows how to link @file{foo.o} with the @acronym{GPGME} library to a program @command{foo}.

@example
gcc -o foo foo.o `gpgme-config --libs`
@end example

Of course you can also combine both examples to a single command by specifying both options to @command{gpgme-config}:

@example
gcc -o foo foo.c `gpgme-config --cflags --libs`
@end example

If you need to detect the installed language bindings you can use list them using:

@example
gpgme-config --print-lang
@end example
or test for the availability using

@example
gpgme-config --have-lang=python && echo 'Bindings for Pythons available'
@end example

@node Largefile Support (LFS)
@section Largefile Support (LFS)
@cindex largefile support
@cindex LFS

@acronym{GPGME} is compiled with largefile support by default, if it is available on the system. This means that GPGME supports files larger than two gigabyte in size, if the underlying operating system can. On some systems, largefile support is already the default. On such systems, nothing special is required. However, some systems provide only support for files up to two gigabyte in size by default. Support for larger file sizes has to be specifically enabled.

To make a difficult situation even more complex, such systems provide two different types of largefile support. You can either get all relevant functions replaced with alternatives that are largefile capable, or you can get new functions and data types for largefile support added. Those new functions have the same name as their smallfile counterparts, but with a suffix of 64.

An example: The data type @code{off_t} is 32 bit wide on GNU/Linux PC systems. To address offsets in large files, you can either enable largefile support add-on. Then a new data type @code{off64_t} is provided, which is 64 bit wide. Or you can replace the existing @code{off_t} data type with its 64 bit wide counterpart. All occurrences of @code{off_t} are then automagically replaced.

As if matters were not complex enough, there are also two different types of file descriptors in such systems. This is important because if file descriptors are exchanged between programs that use a different maximum file size, certain errors must be produced on some file descriptors to prevent subtle overflow bugs from occurring.

As you can see, supporting two different maximum file sizes at the same time is not at all an easy task. However, the maximum file size does matter for @acronym{GPGME}, because some data types it uses in its interfaces are affected by that. For example, the @code{off_t} data type is used in the @code{gpgme_data_seek} function, to match its @acronym{POSIX} counterpart. This affects the call-frame of the function, and thus the ABI of the library. Furthermore, file
Descriptors can be exchanged between GPGME and the application.

For you as the user of the library, this means that your program must be compiled in the same file size mode as the library. Luckily, there is absolutely no valid reason for new programs to not enable largefile support by default and just use that. The compatibility modes (small file sizes or dual mode) can be considered an historic artefact, only useful to allow for a transitional period.

On POSIX platforms @acronym{GPGME} is compiled using largefile support by default. This means that your application must do the same, at least as far as it is relevant for using the @file{gpgme.h} header file. All types in this header files refer to their largefile counterparts, if they are different from any default types on the system.

On 32 and 64 bit Windows platforms @code{off_t} is declared as 32 bit signed integer. There is no specific support for LFS in the C library. The recommendation from Microsoft is to use the native interface (@code{CreateFile} et al.) for large files. Released binary versions of @acronym{GPGME} (libgpgme-11.dll) have always been build with a 32 bit @code{off_t}. To avoid an ABI break we stick to this convention for 32 bit Windows by using @code{long} there.

@acronym{GPGME} versions for 64 bit Windows have never been released and thus we are able to use @code{int64_t} instead of @code{off_t} there. For easier migration the typedef @code{gpgme_off_t} has been defined. The reason we cannot use @code{off_t} directly is that some toolchains (e.g. mingw64) introduce a POSIX compatible hack for @code{off_t}. Some widely used toolkits make use of this hack and in turn @acronym{GPGME} would need to use it also. However, this would introduce an ABI break and existing software making use of libgpgme might suffer from a severe break. Thus with version 1.4.2 we redefined all functions using @code{off_t} to use @code{gpgme_off_t} which is defined as explained above. This way we keep the ABI well defined and independent of any toolchain hacks. The bottom line is that LFS support in @acronym{GPGME} is only available on 64 bit versions of Windows.

On POSIX platforms you can enable largefile support, if it is different from the default on the system the application is compiled on, by using the Autoconf macro @code{AC_SYS_LARGEFILE}. If you do this, then you don't need to worry about anything else: It will just work. In this case you might also want to use @code{AC_FUNC_FSEEKO} to take advantage of some new interfaces, and @code{AC_TYPE_OFF_T} (just in case).

If you do not use Autoconf, you can define the preprocessor symbol @code{-_FILE_OFFSET_BITS} to 64 @emph{before} including any header
files, for example by specifying the option
@code{-D_FILE_OFFSET_BITS=64} on the compiler command line. You will
also want to define the preprocessor symbol @code{LARGEFILE_SOURCE} to
1 in this case, to take advantage of some new interfaces.

If you do not want to do either of the above, you probably know enough
about the issue to invent your own solution. Just keep in mind that
the @acronym{GPGME} header file expects that largefile support is
enabled, if it is available. In particular, we do not support dual
mode (@code{_LARGEFILE64_SOURCE}).

@node Using Automake
@section Using Automake
@cindex automake
@cindex autoconf
It is much easier if you use GNU Automake instead of writing your own
Makefiles. If you do that you do not have to worry about finding and
invoking the @command{gpgme-config} script at all. @acronym{GPGME}
provides an extension to Automake that does all the work for you.

@c A simple macro for optional variables.
@macro ovar{varname}
@r{[@varname]@r{]}
@end macro
@defmac AM_PATH_GPGME (@ovar{minimum-version}, @ovar{action-if-found}, @ovar{action-if-not-found})
@defmac AM_PATH_GPGME_PTH (@ovar{minimum-version}, @ovar{action-if-found}, @ovar{action-if-not-
found})
@defmac AM_PATH_GPGME_PTHREAD (@ovar{minimum-version}, @ovar{action-if-found}, @ovar{action-
if-not-found})
Check whether @acronym{GPGME} (at least version @var{minimum-version},
if given) exists on the host system. If it is found, execute
@var{action-if-found}, otherwise do @var{action-if-not-found}, if
given.

Additionally, the function defines @code{GPGME_CFLAGS} to the flags
needed for compilation of the program to find the @file{gpgme.h}
header file, and @code{GPGME_LIBS} to the linker flags needed to link
the program to the @acronym{GPGME} library. If the used helper script
does not match the target type you are building for a warning is
printed and the string @code{libgcrypt} is appended to the variable
@code{gpg_config_script_warn}.

@code{AM_PATH_GPGME_PTH} checks for the version of @acronym{GPGME}
that can be used with GNU Pth, and defines @code{GPGME_PTH_CFLAGS} and
@code{GPGME_PTH_LIBS}.
@code{AM_PATH_GPGME_PTHREAD} checks for the version of @acronym{GPGME} that can be used with the native pthread implementation, and defines @code{GPGME_PTHREAD_CFLAGS} and @code{GPGME_PTHREAD_LIBS}. Since version 1.8.0 this is no longer required to GPGME_PTHREAD as @acronym{GPGME} itself is thread safe.

This macro searches for @command{gpgme-config} along the PATH. If you are cross-compiling, it is useful to set the environment variable @code{SYSROOT} to the top directory of your target. The macro will then first look for the helper program in the @file{bin} directory below that top directory. An absolute directory name must be used for @code{SYSROOT}. Finally, if the configure command line option @code{--with-gpgme-prefix} is used, only its value is used for the top directory below which the helper script is expected.

@end defmac

You can use the defined Autoconf variables like this in your @file{Makefile.am}:

@example
AM_CPPFLAGS = $(GPGME_CFLAGS)
LDADD = $(GPGME_LIBS)
@end example

@node Using Libtool
@section Using Libtool
@cindex libtool

The easiest way is to just use GNU Libtool. If you use libtool, and link to @code{libgpgme.la}, @code{libgpgme-pth.la} or @code{libgpgme-pthread.la} respectively, everything will be done automatically by Libtool.

@node Library Version Check
@section Library Version Check
@cindex version check, of the library

@deftypefun {const char *} gpgme_check_version (@w{const char *@var{required_version}})

The function @code{gpgme_check_version} has four purposes. It can be used to retrieve the version number of the library. In addition it can verify that the version number is higher than a certain required version number. In either case, the function initializes some sub-systems, and for this reason alone it must be invoked early in your program, before you make use of the other functions in @acronym{GPGME}. The last purpose is to run selftests.
As a side effect for W32 based systems, the socket layer will get initialized.

If @var{required_version} is @code{NULL}, the function returns a pointer to a statically allocated string containing the version number of the library.

If @var{required_version} is not @code{NULL}, it should point to a string containing a version number, and the function checks that the version of the library is at least as high as the version number provided. In this case, the function returns a pointer to a statically allocated string containing the version number of the library. If @var{REQUIRED_VERSION} is not a valid version number, or if the version requirement is not met, the function returns @code{NULL}.

If you use a version of a library that is backwards compatible with older releases, but contains additional interfaces which your program uses, this function provides a run-time check if the necessary features are provided by the installed version of the library.

If a selftest fails, the function may still succeed. Selftest errors are returned later when invoking @code{gpgme_new} or @code{gpgme-data_new}, so that a detailed error code can be returned (historically, @code{gpgme_check_version} does not return a detailed error code).

@end deftypefun

@deftypefun {int} gpgme_set_global_flag  
  (@w{const char *@var{name}}, @
   @w{const char *@var{value}})
  
  @since{1.4.0}

On some systems it is not easy to set environment variables and thus hard to use @acronym{GPGME}'s internal trace facility for debugging. This function has been introduced as an alternative way to enable debugging and for a couple of other rarely used tweaks. It is important to assure that only one thread accesses @acronym{GPGME} functions between a call to this function and after the return from the call to @code{gpgme_check_version}.

All currently supported features require that this function is called as early as possible --- even before @code{gpgme_check_version}. The features are identified by the following values for @var{name}:
To enable debugging use the string `debug` for \texttt{name} and \texttt{value} identical to the value used with the environment variable \texttt{GPGME\_DEBUG}.

Using this feature with any \texttt{value} disables the detection of the gpgconf program and thus forces GPGME to fallback into the simple OpenPGP only mode. It may be used to force the use of GnuPG-I on systems which have both GPG versions installed. Note that in general the use of \texttt{gpgme\_set\_engine\_info} is a better way to select a specific engine version.

Set the name of the gpgconf respective gpg binary. The defaults are \texttt{GNU/GnuPG/gpgconf} and \texttt{GNU/GnuPG/gpg}. Under Unix the leading directory part is ignored. Under Windows the leading directory part is used as the default installation directory; the \texttt{.exe} suffix is added by GPGME. Use forward slashed even under Windows.

Set the minimum version of the required GnuPG engine. If that version is not met, GPGME fails early instead of trying to use the existent version. The given version must be a string with major, minor, and micro number. Example: "2.1.0".

On Windows GPGME needs to know its installation directory to find its spawn helper. This is in general no problem because a DLL has this information. Some applications however link statically to GPGME and thus GPGME can only figure out the installation directory of this application which may be wrong in certain cases. By supplying an installation directory as value to this flag, GPGME will assume that that directory is the installation directory. This flag has no effect on non-Windows platforms.

This function returns \texttt{0} on success. In contrast to other functions the non-zero return value on failure does not convey any error code. For setting `debug` the only possible error cause is an out of memory condition; which would exhibit itself later anyway. Thus the return value may be ignored.
After initializing @acronym{GPGME}, you should set the locale information to the locale required for your output terminal. This locale information is needed for example for the curses and Gtk pinentry. Here is an example of a complete initialization:

@example
#include <locale.h>
#include <gpgme.h>

void
init_gpgme (void)
{@
 /* Initialize the locale environment. */
 setlocale (LC_ALL, "");
 gpgme_check_version (NULL);
 gpgme_set_locale (NULL, LC_CTYPE, setlocale (LC_CTYPE, NULL));
#ifdef LC_MESSAGES
 gpgme_set_locale (NULL, LC_MESSAGES, setlocale (LC_MESSAGES, NULL));
#endif
@ }
@end example

Note that you are highly recommended to initialize the locale settings like this. @acronym{GPGME} can not do this for you because it would not be thread safe. The conditional on LC_MESSAGES is only necessary for portability to W32 systems.

@section Signal Handling
@cindex signals
@cindex signal handling

The @acronym{GPGME} library communicates with child processes (the crypto engines). If a child process dies unexpectedly, for example due to a bug, or system problem, a @code{SIGPIPE} signal will be delivered to the application. The default action is to abort the program. To protect against this, @code{gpgme_check_version} sets the @code{SIGPIPE} signal action to @code{SIG_IGN}, which means that the signal will be ignored.

@acronym{GPGME} will only do that if the signal action for @code{SIGPIPE} is @code{SIG_DEF} at the time @code{gpgme_check_version} is called. If it is something different, @code{GPGME} will take no action.
This means that if your application does not install any signal
handler for `SIGPIPE`, you don't need to take any precautions.
If you do install a signal handler for `SIGPIPE`, you must be
prepared to handle any `SIGPIPE` events that occur due to
`GPGME` writing to a defunct pipe. Furthermore, if your
application is multi-threaded, and you install a signal action for
`SIGPIPE`, you must make sure you do this either before
`gpgme_check_version` is called or afterwards.

@node Multi-Threading
@section Multi-Threading
@cindex thread-safeness
@cindex multi-threading

The `GPGME` library is mostly thread-safe, and can be used
in a multi-threaded environment but there are some requirements
for multi-threaded use:

@itemize @bullet
@item The function `gpgme_check_version` must be called before any
other function in the library, because it initializes the thread
support subsystem in `GPGME`. To achieve this in
multi-threaded programs, you must synchronize the memory with respect
to other threads that also want to use `GPGME`. For this, it
is sufficient to call `gpgme_check_version` before creating the
other threads using `GPGME`@footnote{At least this is true for
POSIX threads, as `pthread_create` is a function that
synchronizes memory with respects to other threads. There are many
functions which have this property, a complete list can be found in
POSIX, IEEE Std 1003.1-2003, Base Definitions, Issue 6, in the
definition of the term "Memory Synchronization". For other thread
packages other, more relaxed or more strict rules may apply.}.
@item Any `gpgme_data_t` and `gpgme_ctx_t` object must only be
accessed by one thread at a time. If multiple threads want to deal
with the same object, the caller has to make sure that operations on
that object are fully synchronized.
@item Only one thread at any time is allowed to call `gpgme_wait`. If
multiple threads call this function, the caller must make sure that
all invocations are fully synchronized. It is safe to start
asynchronous operations while a thread is running in gpgme_wait.
The function @code{gpgme_strerror} is not thread safe. You have to use @code{gpgme_strerror_r} instead.
@end itemize

@node Protocols and Engines
@chapter Protocols and Engines
@cindex protocol
@cindex engine
@cindex crypto engine
@cindex backend
@cindex crypto backend

@acronym{GPGME} supports several cryptographic protocols, however, it does not implement them. Rather it uses backends (also called engines) which implement the protocol. @acronym{GPGME} uses inter-process communication to pass data back and forth between the application and the backend, but the details of the communication protocol and invocation of the backend is completely hidden by the interface. All complexity is handled by @acronym{GPGME}. Where an exchange of information between the application and the backend is necessary, @acronym{GPGME} provides the necessary callback function hooks and further interfaces.

@deftp {Data type} {enum gpgme_protocol_t}
@tindex gpgme_protocol_t
The @code{gpgme_protocol_t} type specifies the set of possible protocol values that are supported by @acronym{GPGME}. The following protocols are supported:

@item GPGME_PROTOCOL_OpenPGP
@itemx GPGME_PROTOCOL_OPENPGP
This specifies the OpenPGP protocol.

@item GPGME_PROTOCOL_CMS
This specifies the Cryptographic Message Syntax.

@item GPGME_PROTOCOL_GPGCONF
Under development. Please ask on @email{gnupg-devel@@gnupg.org} for help.

@item GPGME_PROTOCOL_ASSUAN
@since{1.2.0}
This specifies the raw Assuan protocol.

@item GPGME_PROTOCOL_G13
@since{1.3.0}
Under development. Please ask on @email{gnupg-devel@@gnupg.org} for help.

@item GPGME_PROTOCOL_UISERVER
Under development. Please ask on @email{gnupg-devel@@gnupg.org} for help.

@item GPGME_PROTOCOL_SPAWN
@since{1.5.0}
Special protocol for use with @code{gpgme_op_spawn}.

@item GPGME_PROTOCOL_UNKNOWN
Reserved for future extension. You may use this to indicate that the used protocol is not known to the application. Currently, @acronym{GPGME} does not accept this value in any operation, though, except for @code{gpgme_get_protocol_name}.

@end table
@end deftp

@deftypefun {const char *} gpgme_get_protocol_name (@w{gpgme_protocol_t @var{protocol}})
The function @code{gpgme_get_protocol_name} returns a statically allocated string describing the protocol @var{protocol}, or @code{NULL} if the protocol number is not valid.
@end deftypefun

@end menu

* Engine Version Check:: Verifying the engine version.
* Engine Information:: Obtaining more information about the engines.
* Engine Configuration:: Changing the engine configuration.
* OpenPGP:: Support for the OpenPGP protocol.
* Cryptographic Message Syntax:: Support for the CMS.
* Assuan:: Support for the raw Assuan protocol.
@end menu

@node Engine Version Check
@section Engine Version Check
@cindex version check, of the engines

@deftypefun @w{const char *} gpgme_get_dirinfo (@w{cons char *@var{what}})
@since{1.5.0}
The function @code{gpgme_get_dirinfo} returns a statically allocated string with the value associated to @var{what}. The returned values are the defaults and won't change even after @code{gpgme_set_engine_info} has been used to configure a different engine. @code{NULL} is returned if no value is available. Commonly
supported values for @var{what} are:

@table @code
@item homedir
Return the default home directory.

@item sysconfdir
Return the name of the system configuration directory

@item bindir
Return the name of the directory with GnuPG program files.

@item libdir
Return the name of the directory with GnuPG related library files.

@item libexecdir
Return the name of the directory with GnuPG helper program files.

@item datadir
Return the name of the directory with GnuPG shared data.

@item localedir
Return the name of the directory with GnuPG locale data.

@item agent-socket
Return the name of the socket to connect to the gpg-agent.

@item agent-ssh-socket
Return the name of the socket to connect to the ssh-agent component of gpg-agent.

@item dirmngr-socket
Return the name of the socket to connect to the dirmngr.

@item uiserver-socket
Return the name of the socket to connect to the user interface server.

@item gpgconf-name
Return the file name of the engine configuration tool.

@item gpg-name
Return the file name of the OpenPGP engine.

@item gpgsm-name
Return the file name of the CMS engine.

@item g13-name
Return the name of the file container encryption engine.
Return the name of the Web Key Service tool.

The function `gpgme_engine_check_version` verifies that the engine implementing the protocol `protocol` is installed in the expected path and meets the version requirement of `GPGME`.

This function returns the error code `GPG_ERR_NO_ERROR` if the engine is available and `GPG_ERR_INV_ENGINE` if it is not.

The `gpgme_engine_info_t` type specifies a pointer to a structure describing a crypto engine. The structure contains the following elements:

- `next`: a pointer to the next engine info structure in the linked list, or `NULL` if this is the last element.
- `protocol`: the protocol for which the crypto engine is used. You can convert this to a string with `gpgme_get_protocol_name` for printing.
- `file_name`: a string holding the file name of the executable of the crypto engine. Currently, it is never `NULL`, but using `NULL` is reserved for future use, so always check before you use it.
- `home_dir`: a string holding the directory name of the crypto engine's configuration directory. If it is `NULL`, then the default directory is used. See `gpgme_get_dirinfo` on how to get the
default directory.

@item const char *version
This is a string containing the version number of the crypto engine.
It might be @code{NULL} if the version number can not be determined,
for example because the executable doesn't exist or is invalid.

@item const char *req_version
This is a string containing the minimum required version number of the
crypto engine for @acronym{GPGME} to work correctly. This is the
version number that @code{gpgme_engine_check_version} verifies
against. Currently, it is never @code{NULL}, but using @code{NULL} is
reserved for future use, so always check before you use it.
@end table
@end deftp

@deftypefun gpgme_error_t gpgme_get_engine_info (@w{gpgme_engine_info_t *@var{info}})
The function @code{gpgme_get_engine_info} returns a linked list of
engine info structures in @var{info}. Each info structure describes
the defaults of one configured backend.

The memory for the info structures is allocated the first time this
function is invoked, and must not be freed by the caller.

This function returns the error code @code{GPG_ERR_NO_ERROR} if
successful, and a system error if the memory could not be allocated.
@end deftypefun

Here is an example how you can provide more diagnostics if you receive
an error message which indicates that the crypto engine is invalid.

@example
gpgme_ctx_t ctx;
gpgme_error_t err;

[...]

if (gpgme_err_code (err) == GPG_ERR_INV_ENGINE)
@{

gpgme_engine_info_t info;
err = gpgme_get_engine_info (&info);
if (!err)
@{

while (info && info->protocol != gpgme_get_protocol (ctx))
info = info->next;
if (!info)
fprintf (stderr, "GPGME compiled without support for protocol %s",
        gpgme_get_protocol_name (info->protocol));
}
else if (info->file_name && !info->version)
    fprintf (stderr, "Engine %s not installed properly",
            info->file_name);
else if (info->file_name && info->version && info->req_version)
    fprintf (stderr, "Engine %s version %s installed, "
            "but at least version %s required", info->file_name,
            info->version, info->req_version);
else
    fprintf (stderr, "Unknown problem with engine for protocol %s",
            gpgme_get_protocol_name (info->protocol));
@end }
@end }
@end example

@node Engine Configuration
@section Engine Configuration
@cindex engine, configuration of
@cindex configuration of crypto backend

You can change the configuration of a backend engine, and thus change
the executable program and configuration directory to be used. You
can make these changes the default or set them for some contexts
individually.

@deftypefun gpgme_error_t gpgme_set_engine_info (@w{gpgme_protocol_t @var{proto}}, @w{const char *
            @var{file_name}}, @w{const char @var{home_dir}})
@since{1.1.0}

The function @code{gpgme_set_engine_info} changes the default
configuration of the crypto engine implementing the protocol
@var{proto}.

@var{file_name} is the file name of the executable program
implementing this protocol, and @var{home_dir} is the directory name
of the configuration directory for this crypto engine. If
@var{home_dir} is @code{NULL}, the engine's default will be used.

The new defaults are not applied to already created GPGME contexts.

This function returns the error code @code{GPG_ERR_NO_ERROR} if
successful, or an error code on failure.
@end deftypefun

The functions @code{gpgme_ctx_get_engine_info} and
@code{gpgme_ctx_set_engine_info} can be used to change the engine
configuration per context. @xref{Crypto Engine}. 
OpenPGP is implemented by GnuPG, the GNU Privacy Guard. This is the first protocol that was supported by GPGME.

The OpenPGP protocol is specified by GPGME_PROTOCOL_OpenPGP.

CMS is implemented by GpgSM, the S/MIME implementation for GnuPG.

The CMS protocol is specified by GPGME_PROTOCOL_CMS.

Assuan is the RPC library used by the various GnuPG components. The Assuan protocol allows one to talk to arbitrary Assuan servers using GPGME. The ASSUAN protocol is specified by GPGME_PROTOCOL_ASSUAN.
The crypto backends support a variety of algorithms used in public key cryptography. Some engines also provide symmetric only encryption; see the description of the encryption function on how to use this. The following sections list the identifiers used to denote such an algorithm.

* Public Key Algorithms:: A list of all public key algorithms.
* Hash Algorithms:: A list of all hash algorithms.

Public key algorithms are used for encryption, decryption, signing and verification of signatures.

The `gpgme_pubkey_algo_t` type specifies the set of all public key algorithms that are supported by GPGME. Possible values are:

- **GPGME_PK_RSA**
  This value indicates the RSA (Rivest, Shamir, Adleman) algorithm.

- **GPGME_PK_RSA_E**
  Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for encryption and decryption only.

- **GPGME_PK_RSA_S**
  Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for signing and verification only.

- **GPGME_PK_DSA**
  This value indicates DSA, the Digital Signature Algorithm.

- **GPGME_PK_ELG**
  This value indicates ElGamal.

- **GPGME_PK_ELG_E**
  This value also indicates ElGamal and is used specifically in GnuPG.
This value is a generic indicator for elliptic curve algorithms.

@item GPGME_PK_ECDSA  
@since{1.3.0}

This value indicates ECDSA, the Elliptic Curve Digital Signature Algorithm as defined by FIPS 186-2 and RFC-6637.

@item GPGME_PK_ECDH  
@since{1.3.0}

This value indicates ECDH, the Elliptic Curve Diffie-Hellmann encryption algorithm as defined by RFC-6637.

@item GPGME_PK_EDDSA  
@since{1.7.0}

This value indicates the EdDSA algorithm.

The function @code{gpgme_pubkey_algo_name} returns a pointer to a statically allocated string containing a description of the public key algorithm @var{algo}. This string can be used to output the name of the public key algorithm to the user.

If @var{algo} is not a valid public key algorithm, @code{NULL} is returned.

The function @code{gpgme_pubkey_algo_string} is a convenience function to build and return an algorithm string in the same way GnuPG does (e.g. "rsa2048" or "ed25519"). The caller must free the result using @code{gpgme_free}. On error (e.g. invalid argument or memory exhausted), the function returns NULL and sets @code{ERRNO}.

@node Hash Algorithms  
@section Hash Algorithms  
@cindex algorithms, hash
Hash (message digest) algorithms are used to compress a long message to make it suitable for public key cryptography.

The `gpgme_hash_algo_t` type specifies the set of all hash algorithms that are supported by GPGME. Possible values are:

- GPGME_MD_MD5
- GPGME_MD_SHA1
- GPGME_MD_RMD160
- GPGME_MD_MD2
- GPGME_MD_TIGER
- GPGME_MD_HAVAL
- GPGME_MD_SHA256
- GPGME_MD_SHA384
- GPGME_MD_SHA512
- GPGME_MD_SHA224
- GPGME_MD_MD4
- GPGME_MD_CRC32
- GPGME_MD_CRC32_RFC1510
- GPGME_MD_CRC24_RFC2440

If `algo` is not a valid hash algorithm, `NULL` is returned.

Many functions in GPGME can return an error if they fail. For this reason, the application should always catch the error.
condition and take appropriate measures, for example by releasing the
resources and passing the error up to the caller, or by displaying a
descriptive message to the user and cancelling the operation.

Some error values do not indicate a system error or an error in
the operation, but the result of an operation that failed properly. For
example, if you try to decrypt a tempered message, the decryption will
fail. Another error value actually means that the end of a data
buffer or list has been reached. The following descriptions explain
for many error codes what they mean usually. Some error values have
specific meanings if returned by a certain functions. Such cases are
described in the documentation of those functions.

@acronym{GPGME} uses the @code{libgpg-error} library. This allows to
share the error codes with other components of the GnuPG system, and
thus pass error values transparently from the crypto engine, or some
helper application of the crypto engine, to the user. This way no
information is lost. As a consequence, @acronym{GPGME} does not use
its own identifiers for error codes, but uses those provided by
@code{libgpg-error}. They usually start with @code{GPG_ERR_}.

However, @acronym{GPGME} does provide aliases for the functions
defined in libgpg-error, which might be preferred for name space
consistency.

@menu
* Error Values:: The error value and what it means.
* Error Sources:: A list of important error sources.
* Error Codes:: A list of important error codes.
* Error Strings:: How to get a descriptive string from a value.
@end menu

@node Error Values
@section Error Values
@cindex error values
@cindex error codes
@cindex error sources
@deftp {Data type} {gpgme_err_code_t}
The @code{gpgme_err_code_t} type is an alias for the @code{libgpg-error}
type @code{gpg_err_code_t}. The error code indicates the type of an
error, or the reason why an operation failed.

A list of important error codes can be found in the next section.
@end deftp

@deftp {Data type} {gpgme_err_source_t}
The `gpgme_err_source_t` type is an alias for the `gpgme_error_t` type. The error source has not a precisely defined meaning. Sometimes it is the place where the error happened, sometimes it is the place where an error was encoded into an error value. Usually the error source will give an indication to where to look for the problem. This is not always true, but it is attempted to achieve this goal.

A list of important error sources can be found in the next section.

The `gpgme_error_t` type is an alias for the `libgpg-error` type `gpg_error_t`. An error value like this has always two components, an error code and an error source. Both together form the error value.

Thus, the error value can not be directly compared against an error code, but the accessor functions described below must be used. However, it is guaranteed that only 0 is used to indicate success (`GPG_ERR_NO_ERROR`), and that in this case all other parts of the error value are set to 0, too.

Note that in `GPGME`, the error source is used purely for diagnostical purposes. Only the error code should be checked to test for a certain outcome of a function. The manual only documents the error code part of an error value. The error source is left unspecified and might be anything.

The static inline function `gpgme_err_code` returns the `gpgme_err_code_t` component of the error value. This function must be used to extract the error code from an error value in order to compare it with the `GPG_ERR_*` error code macros.

The static inline function `gpgme_err_source` returns the `gpgme_err_source_t` component of the error value. This function must be used to extract the error source from an error value in order to compare it with the `GPG_ERR_SOURCE_*` error source macros.

The static inline function `gpgme_err_make` returns the error value consisting of the error source and the error code.
This function can be used in callback functions to construct an error value to return it to the library.
@end deftypefun

The static inline function `gpgme_error` returns the error value consisting of the default error source and the error code `@var{code}`.

For @acronym{GPGME} applications, the default error source is `GPG_ERR_SOURCE_USER_1`. You can define `GPGME_ERR_SOURCE_DEFAULT` before including `gpgme.h` to change this default.

The @code{libgpg-error} library provides error codes for all system error numbers it knows about. If `@var{err}` is an unknown error number, the error code `GPG_ERR_UNKNOWN_ERRNO` is used. The following functions can be used to construct error values from system error numbers.

The function `gpgme_error_make_from_errno` is like `gpgme_error`, but it takes a system error like `errno` instead of a @code{gpgme_err_code_t} error code.
@end deftypefun

Sometimes you might want to map system error numbers to error codes directly, or map an error code representing a system error back to the system error number. The following functions can be used to do that.

The function `gpgme_error_from_errno` is like `gpgme_error`, but it takes a system error like `errno` instead of a @code{gpgme_err_code_t} error code.
@end deftypefun

The function `gpgme_err_code_from_errno` returns the error code for the system error `@var{err}`. If `@var{err}` is not a known system error, the function returns `GPG_ERR_UNKNOWN_ERRNO`.
@end deftypefun
The function `gpgme_err_code_to_errno` returns the system error for the error code `var{err}`. If `var{err}` is not an error code representing a system error, or if this system error is not defined on this system, the function returns `code{0}`.

```
@end deftypefun
```

---

The library `libgpg-error` defines an error source for every component of the GnuPG system. The error source part of an error value is not well defined. As such it is mainly useful to improve the diagnostic error message for the user.

If the error code part of an error value is `code{0}`, the whole error value will be `code{0}`. In this case the error source part is of course `code{GPG_ERR_SOURCE_UNKNOWN}`.

The list of error sources that might occur in applications using `acronym{GPGME}` is:

- **GPG_ERR_SOURCE_UNKNOWN**
  The error source is not known. The value of this error source is `code{0}`.

- **GPG_ERR_SOURCE_GPGME**
  The error source is `acronym{GPGME}` itself. This is the default for errors that occur in the `acronym{GPGME}` library.

- **GPG_ERR_SOURCE_GPG**
  The error source is GnuPG, which is the crypto engine used for the OpenPGP protocol.

- **GPG_ERR_SOURCE_GPGSM**
  The error source is GPGSM, which is the crypto engine used for the CMS protocol.

- **GPG_ERR_SOURCE_GCRYPT**
  The error source is `code{libgcrypt}`, which is used by crypto engines to perform cryptographic operations.

- **GPG_ERR_SOURCE_GPGAGENT**
  The error source is `command{gpg-agent}`, which is used by crypto engines to perform operations with the secret key.
@item GPG_ERR_SOURCE_PINENTRY
The error source is @command{pinentry}, which is used by
@command{gpg-agent} to query the passphrase to unlock a secret key.

@item GPG_ERR_SOURCE_SCD
The error source is the SmartCard Daemon, which is used by
@command{gpg-agent} to delegate operations with the secret key to a
SmartCard.

@item GPG_ERR_SOURCE_KEYBOX
The error source is @code{libkbx}, a library used by the crypto
engines to manage local keyrings.

@item GPG_ERR_SOURCE_USER_1
@item GPG_ERR_SOURCE_USER_2
@item GPG_ERR_SOURCE_USER_3
@item GPG_ERR_SOURCE_USER_4
These error sources are not used by any GnuPG component and can be
used by other software. For example, applications using
@acronym{GPGME} can use them to mark error values coming from callback
handlers. Thus @code{GPG_ERR_SOURCE_USER_1} is the default for errors
created with @code{gpgme_error} and @code{gpgme_error_from_errno},
unless you define @code{GPGME_ERR_SOURCE_DEFAULT} before including
@file{gpgme.h}.
@end table

@node Error Codes
@section Error Codes
@cindex error codes, list of
The library @code{libgpg-error} defines many error values. Most of
them are not used by @code{GPGME} directly, but might be returned by
@acronym{GPGME} because it received them from the crypto engine. The
below list only includes such error codes that have a specific meaning
in @code{GPGME}, or which are so common that you should know about
them.

@table @code
@item GPG_ERR_EOF
This value indicates the end of a list, buffer or file.

@item GPG_ERR_NO_ERROR
This value indicates success. The value of this error code is
@code{0}. Also, it is guaranteed that an error value made from the
error code @code{0} will be @code{0} itself (as a whole). This means
that the error source information is lost for this error code,
however, as this error code indicates that no error occurred, this is generally not a problem.

@item GPG_ERR_GENERAL
This value means that something went wrong, but either there is not enough information about the problem to return a more useful error value, or there is no separate error value for this type of problem.

@item GPG_ERR.ENOMEM
This value means that an out-of-memory condition occurred.

@item GPG_ERR.E...
System errors are mapped to GPG_ERR_FOO where FOO is the symbol for the system error.

@item GPG_ERR_INV.VALUE
This value means that some user provided data was out of range. This can also refer to objects. For example, if an empty @code{gpgme_data_t} object was expected, but one containing data was provided, this error value is returned.

@item GPG_ERR.UNUSABLE.PUBKEY
This value means that some recipients for a message were invalid.

@item GPG_ERR.UNUSABLE.SECKEY
This value means that some signers were invalid.

@item GPG_ERR.NO.DATA
This value means that a @code{gpgme_data_t} object which was expected to have content was found empty.

@item GPG_ERR.CONFLICT
This value means that a conflict of some sort occurred.

@item GPG_ERR.NOT.IMPLEMENTED
This value indicates that the specific function (or operation) is not implemented. This error should never happen. It can only occur if you use certain values or configuration options which do not work, but for which we think that they should work at some later time.

@item GPG_ERR.DECRYPT.FAILED
This value indicates that a decryption operation was unsuccessful.

@item GPG_ERR.BAD.PASSPHRASE
This value means that the user did not provide a correct passphrase when requested.

@item GPG_ERR.CANCELED
This value means that the operation was canceled.

@item GPG_ERR_INV_ENGINE
This value means that the engine that implements the desired protocol is currently not available. This can either be because the sources were configured to exclude support for this engine, or because the engine is not installed properly.

@item GPG_ERR_AMBIGUOUS_NAME
This value indicates that a user ID or other specifier did not specify a unique key.

@item GPG_ERR_WRONG_KEY_USAGE
This value indicates that a key is not used appropriately.

@item GPG_ERR_CERT_REVOKED
This value indicates that a key signature was revoked.

@item GPG_ERR_CERT_EXPIRED
This value indicates that a signature expired.

@item GPG_ERR_NO_CRL_KNOWN
This value indicates that no certificate revocation list is known for the certificate.

@item GPG_ERR_NO_POLICY_MATCH
This value indicates that a policy issue occurred.

@item GPG_ERR_NO_SECKEY
This value indicates that no secret key for the user ID is available.

@item GPG_ERR_MISSING_CERT
This value indicates that a key could not be imported because the issuer certificate is missing.

@item GPG_ERR_BAD_CERT_CHAIN
This value indicates that a key could not be imported because its certificate chain is not good, for example it could be too long.

@item GPG_ERR_UNSUPPORTED_ALGORITHM
This value means a verification failed because the cryptographic algorithm is not supported by the crypto backend.

@item GPG_ERR_BAD_SIGNATURE
This value means a verification failed because the signature is bad.

@item GPG_ERR_NO_PUBKEY
This value means a verification failed because the public key is not
available.

@item GPG_ERR_USER_1
@item GPG_ERR_USER_2
@item ...
@item GPG_ERR_USER_16
These error codes are not used by any GnuPG component and can be
freely used by other software. Applications using @acronym{GPGME}
might use them to mark specific errors returned by callback handlers
if no suitable error codes (including the system errors) for
these errors exist already.
@end table

@node Error Strings
@section Error Strings
@cindex error values, printing of
@cindex error codes, printing of
@cindex error sources, printing of
@cindex error strings

@deftypefun {const char *} gpgme_strerror (@w{gpgme_error_t @var{err}})
The function @code{gpgme_strerror} returns a pointer to a statically
allocated string containing a description of the error code contained
in the error value @var{err}. This string can be used to output a
diagnostic message to the user.

This function is not thread safe. Use @code{gpgme_strerror_r} in
multi-threaded programs.
@end deftypefun

@deftypefun {int} gpgme_strerror_r (@w{gpgme_error_t @var{err}}, @w{char *@var{buf}}, @w{size_t @var{buflen}})
The function @code{gpgme_strerror_r} returns the error string for
@var{err} in the user-supplied buffer @var{buf} of size @var{buflen}.
This function is, in contrast to @code{gpgme_strerror}, thread-safe if
a thread-safe @code{strerror_r} function is provided by the system.
If the function succeeds, 0 is returned and @var{buf} contains the
string describing the error. If the buffer was not large enough,
ERANGE is returned and @var{buf} contains as much of the beginning of
the error string as fits into the buffer.
@end deftypefun

@deftypefun {const char *} gpgme_strsource (@w{gpgme_error_t @var{err}})
The function @code{gpgme_strsource} returns a pointer to a statically
allocated string containing a description of the error source
contained in the error value `@var{err}`. This string can be used to output a diagnostic message to the user.
@end deftypefun

The following example illustrates the use of `@code{gpgme_strerror}`:

@example
gpgme_ctx_t ctx;
gpgme_error_t err = gpgme_new (&ctx);
if (err)
  @{
    fprintf (stderr, "%s: creating GpgME context failed: %s: %s\n", 
             argv[0], gpgme_strsource (err), gpgme_strerror (err));
    exit (1);
  } 
@end example

@node Exchanging Data
@chapter Exchanging Data
@cindex data, exchanging

A lot of data has to be exchanged between the user and the crypto engine, like plaintext messages, ciphertext, signatures and information about the keys. The technical details about exchanging the data information are completely abstracted by `@acronym{GPGME}`. The user provides and receives the data via `@code{gpgme_data_t}` objects, regardless of the communication protocol between `@acronym{GPGME}` and the crypto engine in use.

@deftp {Data type} {gpgme_data_t}
The `@code{gpgme_data_t}` type is a handle for a container for generic data, which is used by `@acronym{GPGME}` to exchange data with the user.
@end deftp

`@code{gpgme_data_t}` objects do not provide notifications on events. It is assumed that read and write operations are blocking until data is available. If this is undesirable, the application must ensure that all GPGME data operations always have data available, for example by using memory buffers or files rather than pipes or sockets. This might be relevant, for example, if the external event loop mechanism is used.

@deftp {Data type} {gpgme_off_t}
@since{1.4.1}

On POSIX platforms the `@code{gpgme_off_t}` type is an alias for `@code{off_t}`; it may be used interchangeable. On Windows platforms...
@code{gpgme_off_t} is defined as a long (i.e. 32 bit) for 32 bit Windows and as a 64 bit signed integer for 64 bit Windows.
@end deftp

@deftp {Data type} {gpgme_ssize_t}
The @code{gpgme_ssize_t} type is an alias for @code{ssize_t}. It has only been introduced to overcome portability problems pertaining to the declaration of @code{ssize_t} by different toolchains.
@end deftp

@menu
* Creating Data Buffers::    Creating new data buffers.
* Destroying Data Buffers::  Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.
@end menu

@node Creating Data Buffers
@section Creating Data Buffers
@cindex data buffer, creation

Data objects can be based on memory, files, or callback functions provided by the user. Not all operations are supported by all objects.

@menu
* Memory Based Data Buffers::    Creating memory based data buffers.
* File Based Data Buffers::      Creating file based data buffers.
* Callback Based Data Buffers::  Creating callback based data buffers.
@end menu

@node Memory Based Data Buffers
@section Memory Based Data Buffers

Memory based data objects store all data in allocated memory. This is convenient, but only practical for an amount of data that is a fraction of the available physical memory. The data has to be copied from its source and to its destination, which can often be avoided by using one of the other data object

@deftypefun gpgme_error_t gpgme_data_new (@w{gpgme_data_t *@var{dh}})
The function @code{gpgme_data_new} creates a new @code{gpgme_data_t} object and returns a handle for it in @var{dh}. The data object is memory based and initially empty.
The function returns the error code \code{GPG_ERR_NO_ERROR} if the data object was successfully created, \code{GPG_ERR_INV_VALUE} if @var{dh} is not a valid pointer, and \code{GPG_ERR_ENOMEM} if not enough memory is available.
@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_from_mem (@w{gpgme_data_t *@var{dh}}, @w{const char *@var{buffer}}, @w{size_t @var{size}}, @w{int @var{copy}})
The function \code{gpgme_data_new_from_mem} creates a new \code{gpgme_data_t} object and fills it with @var{size} bytes starting from @var{buffer}.

If @var{copy} is not zero, a private copy of the data is made. If @var{copy} is zero, the data is taken from the specified buffer as needed, and the user has to ensure that the buffer remains valid for the whole life span of the data object.

The function returns the error code \code{GPG_ERR_NO_ERROR} if the data object was successfully created, \code{GPG_ERR_INV_VALUE} if @var{dh} or @var{buffer} is not a valid pointer, and \code{GPG_ERR_ENOMEM} if not enough memory is available.
@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_from_file (@w{gpgme_data_t *@var{dh}}, @w{const char *@var{filename}}, @w{int @var{copy}})
The function \code{gpgme_data_new_from_file} creates a new \code{gpgme_data_t} object and fills it with the content of the file @var{filename}.

If @var{copy} is not zero, the whole file is read in at initialization time and the file is not used anymore after that. This is the only mode supported currently. Later, a value of zero for @var{copy} might cause all reads to be delayed until the data is needed, but this is not yet implemented.

The function returns the error code \code{GPG_ERR_NO_ERROR} if the data object was successfully created, \code{GPG_ERR_INV_VALUE} if @var{dh} or @var{filename} is not a valid pointer, \code{GPG_ERR_NOT_IMPLEMENTED} if @var{code} is zero, and \code{GPG_ERR_ENOMEM} if not enough memory is available.
@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_from_filepart (@w{gpgme_data_t *@var{dh}}, @w{const char *@var{filename}}, @w{FILE *@var{fp}}, @w{off_t @var{offset}}, @w{size_t @var{length}})
The function \code{gpgme_data_new_from_filepart} creates a new \code{gpgme_data_t} object and fills it with a part of the file specified by @var{filename} or @var{fp}.
Exactly one of @var{filename} and @var{fp} must be non-zero, the other must be zero. The argument that is not zero specifies the file from which @var{length} bytes are read into the data object, starting from @var{offset}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, @code{GPG_ERR_INV_VALUE} if @var{dh} and exactly one of @var{filename} and @var{fp} is not a valid pointer, and @code{GPG_ERR_ENOMEM} if not enough memory is available.

@end deftypefun

@node File Based Data Buffers
@subsection File Based Data Buffers

File based data objects operate directly on file descriptors or streams. Only a small amount of data is stored in core at any time, so the size of the data objects is not limited by @acronym{GPGME}.

@deftypefun gpgme_error_t gpgme_data_new_from_fd (@w{gpgme_data_t *@var{dh}}, @w{int @var{fd}})

The function @code{gpgme_data_new_from_fd} creates a new @code{gpgme_data_t} object and uses the file descriptor @var{fd} to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the file descriptor than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the file descriptor is set to blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, and @code{GPG_ERR_ENOMEM} if not enough memory is available.

@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_from_stream (@w{gpgme_data_t *@var{dh}}, @w{FILE *@var{stream}})

The function @code{gpgme_data_new_from_stream} creates a new @code{gpgme_data_t} object and uses the I/O stream @var{stream} to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.
Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code `GPG_ERR_NO_ERROR` if the data object was successfully created, and `GPG_ERR_ENOMEM` if not enough memory is available.

```c
@deftypefun

@gpgme_error_t gpgme_data_new_from_estream (@w{gpgme_data_t *@var{dh}}, @w{gpgrt_stream_t @var{stream}})
```

The function `gpgme_data_new_from_estream` creates a new `gpgme_data_t` object and uses the gpgrt stream `@var{stream}` to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code `GPG_ERR_NO_ERROR` if the data object was successfully created, and `GPG_ERR_ENOMEM` if not enough memory is available.

```c
@end deftypefun
```

@node Callback Based Data Buffers
@subsection Callback Based Data Buffers

If neither memory nor file based data objects are a good fit for your application, you can implement the functions a data object provides yourself and create a data object from these callback functions.

```c
@deftp {Data type} {ssize_t (*gpgme_data_read_cb_t) (@w{void *@var{handle}}, @w{void @var{*buffer}}, @w{size_t @var{size}})}
```

The `gpgme_data_read_cb_t` type is the type of functions which `GPGME` calls if it wants to read data from a user-implemented data object. The function should read up to `@var{size}` bytes from the current read position into the space starting at `@var{buffer}`. The `@var{handle}` is provided by the user at data object creation time.

Note that GPGME assumes that the read blocks until data is available.
Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function should return the number of bytes read, 0 on EOF, and -1 on error. If an error occurs, @var{errno} should be set to describe the type of the error.
@end deftp

@deftp {Data type} {ssize_t (*gpgme_data_write_cb_t) (@w{void *@var{handle}}, @w{const void @var{buffer}}, @w{size_t @var{size}})}
@end deftp

The @code{gpgme_data_write_cb_t} type is the type of functions which @acronym{GPGME} calls if it wants to write data to a user-implemented data object. The function should write up to @var{size} bytes to the current write position from the space starting at @var{buffer}. The @var{handle} is provided by the user at data object creation time.

Note that GPGME assumes that the write blocks until data is available. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function should return the number of bytes written, and -1 on error. If an error occurs, @var{errno} should be set to describe the type of the error.
@end deftp

@deftp {Data type} {off_t (*gpgme_data_seek_cb_t) (@w{void *@var{handle}}, @w{off_t @var{offset}}, @w{int @var{whence}})}
@end deftp

The @code{gpgme_data_seek_cb_t} type is the type of functions which @acronym{GPGME} calls if it wants to change the current read/write position in a user-implemented data object, just like the @code{lseek} function.

The function should return the new read/write position, and -1 on error. If an error occurs, @var{errno} should be set to describe the type of the error.
@end deftp

@deftp {Data type} {void (*gpgme_data_release_cb_t) (@w{void *@var{handle}})}
@end deftp

The @code{gpgme_data_release_cb_t} type is the type of functions which @acronym{GPGME} calls if it wants to destroy a user-implemented data object. The @var{handle} is provided by the user at data object creation time.
@end deftp

@deftp {Data type} {struct gpgme_data_cbs}
This structure is used to store the data callback interface functions described above. It has the following members:

@table @code
@item gpgme_data_read_cb_t read
This is the function called by @acronym{GPGME} to read data from the data object. It is only required for input data object.

@item gpgme_data_write_cb_t write
This is the function called by @acronym{GPGME} to write data to the data object. It is only required for output data object.

@item gpgme_data_seek_cb_t seek
This is the function called by @acronym{GPGME} to change the current read/write pointer in the data object (if available). It is optional.

@item gpgme_data_release_cb_t release
This is the function called by @acronym{GPGME} to release a data object. It is optional.
@end table
@end deftp

@end deftypefun

@node Destroying Data Buffers
@section Destroying Data Buffers
@cindex data buffer, destruction

@end deftypefun void gpgme_data_release (@w{gpgme_data_t @var{dh}})
The function @code{gpgme_data_release} destroys the data object with the handle @var{dh}. It releases all associated resources that were not provided by the user in the first place.
@end deftypefun

@end deftypefun {char *} gpgme_data_release_and_get_mem (@w{gpgme_data_t @var{dh}}, @w{size_t
*#@length}})
The function @code{gpgme_data_release_and_get_mem} is like
@code{gpgme_data_release}, except that it returns the data buffer and
its length that was provided by the object.

The user has to release the buffer with @code{gpgme_free}. In case
the user provided the data buffer in non-copy mode, a copy will be
made for this purpose.

In case an error returns, or there is no suitable data buffer that can
be returned to the user, the function will return @code{NULL}. In any
case, the data object @var{dh} is destroyed.
@end deftypefun

@deftypefun void gpgme_free (@w{void *@var{buffer}})
@since{1.1.1}
The function @code{gpgme_free} releases the memory returned by
@code{gpgme_data_release_and_get_mem} and
@code{gpgme_pubkey_algo_string}. It should be used instead of the
system libraries @code{free} function in case different allocators are
used by a program. This is often the case if gpgme is used under
Windows as a DLL.
@end deftypefun

@node Manipulating Data Buffers
@section Manipulating Data Buffers
@cindex data buffer, manipulation

Data buffers contain data and meta-data. The following operations can
be used to manipulate both.

@menu
* Data Buffer I/O Operations:: I/O operations on data buffers.
* Data Buffer Meta-Data:: Meta-data manipulation of data buffers.
* Data Buffer Convenience:: Convenience function for data buffers.
@end menu

@node Data Buffer I/O Operations
@subsection Data Buffer I/O Operations
@cindex data buffer, I/O operations
@cindex data buffer, read
@cindex data buffer, write
@cindex data buffer, seek
The function `gpgme_data_read` reads up to `length` bytes from the data object with the handle `dh` into the space starting at `buffer`.

If no error occurs, the actual amount read is returned. If the end of the data object is reached, the function returns 0.

In all other cases, the function returns -1 and sets `errno`.

The function `gpgme_data_write` writes up to `size` bytes starting from `buffer` into the data object with the handle `dh` at the current write position.

The function returns the number of bytes actually written, or -1 if an error occurs. If an error occurs, `errno` is set.

The `gpgme_data_seek` function changes the current read/write position.

The `whence` argument specifies how the `offset` should be interpreted. It must be one of the following symbolic constants:

- SEEK_SET
  Specifies that `offset` is a count of characters from the beginning of the data object.
- SEEK_CUR
  Specifies that `offset` is a count of characters from the current file position. This count may be positive or negative.
- SEEK_END
  Specifies that `offset` is a count of characters from the end of the data object. A negative count specifies a position within the current extent of the data object; a positive count specifies a position past the current end. If you set the position past the current end, and actually write data, you will extend the data object with zeros up to that position.
If successful, the function returns the resulting file position, measured in bytes from the beginning of the data object. You can use this feature together with `SEEK_CUR` to read the current read/write position.

If the function fails, -1 is returned and `errno` is set.

```
@end deftypefun
```

@node Data Buffer Meta-Data
@subsection Data Buffer Meta-Data
@cindex data buffer, meta-data
@cindex data buffer, file name
@cindex data buffer, encoding

```
@deftypefun {char *} gpgme_data_get_file_name (@w{gpgme_data_t @var{dh}})
    @since{1.1.0}
The function `gpgme_data_get_file_name` returns a pointer to a string containing the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

If no error occurs, the string containing the file name is returned. Otherwise, `NULL` will be returned.
@end deftypefun
```

```
@deftypefun gpgme_error_t gpgme_data_set_file_name (@w{gpgme_data_t @var{dh}}, @w{const char *@var{file_name}})
    @since{1.1.0}
The function `gpgme_data_set_file_name` sets the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

The function returns the error code `GPG_ERR_INV_VALUE` if `@var{dh}` is not a valid pointer and `GPG_ERR_ENOMEM` if not enough memory is available.
@end deftypefun
```

```
@deftp {Data type} {enum gpgme_data_encoding_t}
@tindex gpgme_data_encoding_t
The `gpgme_data_encoding_t` type specifies the encoding of a
```
@code{gpgme_data_t} object. For input data objects, the encoding is useful to give the backend a hint on the type of data. For output data objects, the encoding can specify the output data format on certain operations. Please note that not all backends support all encodings on all operations. The following data types are available:

@table
@item GPGME_DATA_ENCODING_NONE
This specifies that the encoding is not known. This is the default for a new data object. The backend will try its best to detect the encoding automatically.

@item GPGME_DATA_ENCODING_BINARY
This specifies that the data is encoding in binary form; i.e. there is no special encoding.

@item GPGME_DATA_ENCODING_BASE64
This specifies that the data is encoded using the Base-64 encoding scheme as used by @acronym{MIME} and other protocols.

@item GPGME_DATA_ENCODING_ARMOR
This specifies that the data is encoded in an armored form as used by OpenPGP and PEM.

@item GPGME_DATA_ENCODING_MIME
@since{1.7.0}
This specifies that the data is encoded as a MIME part.

@item GPGME_DATA_ENCODING_URL
@since{1.2.0}
The data is a list of linefeed delimited URLs. This is only useful with @code{gpgme_op_import}.

@item GPGME_DATA_ENCODING_URL0
@since{1.2.0}
The data is a list of binary zero delimited URLs. This is only useful with @code{gpgme_op_import}.

@item GPGME_DATA_ENCODING_URLESC
@since{1.2.0}
The data is a list of linefeed delimited URLs with all control and space characters percent escaped. This mode is is not yet implemented.

@end table
The function `gpgme_data_get_encoding` returns the encoding of the data object with the handle `var[dh]`. If `var[dh]` is not a valid pointer (e.g. `code[NULL]`) `code[GPGME_DATA_ENCODING_NONE]` is returned.

The function `gpgme_data_set_encoding` changes the encoding of the data object with the handle `var[dh]` to `var[enc].`

Some minor properties of the data object can be controlled with flags set by this function. The properties are identified by the following values for `var[name]`:

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>size-hint</td>
<td>The value is a decimal number with the length gpgme shall assume for this data object. This is useful if the data is provided by callbacks or via file descriptors but the applications knows the total size of the data. If this is set the OpenPGP engine may use this to decide on buffer allocation strategies and to provide a total value for its progress information.</td>
</tr>
</tbody>
</table>

This function returns `code[0]` on success.

Some minor properties of the data object can be controlled with flags set by this function. The properties are identified by the following values for `var[name]`:

```c
enum gpgme_data_type_t
```

```c
typedef enum gpgme_data_type_t
```

```c
@since{1.7.0}
```
The \texttt{gpgme_data_type_t} type is used to return the detected type of the content of a data buffer.

\begin{verbatim}
@tindex gpgme_data_type_t
@since{1.4.3}
The \texttt{gpgme_data_type_t} type is used to return the detected type of the content of a data buffer.
@end deftp
\end{verbatim}

\begin{verbatim}
@table @code
@item GPGME_DATA_TYPE_INVALID
This is returned by \texttt{gpgme_data_identify} if it was not possible to identify the data. Reasons for this might be a non-seekable stream or a memory problem. The value is 0.
@item GPGME_DATA_TYPE_UNKNOWN
The type of the data is not known.
@item GPGME_DATA_TYPE_PGP_SIGNED
The data is an OpenPGP signed message. This may be a binary signature, a detached one or a cleartext signature.
@item GPGME_DATA_TYPE_PGP_ENCRYPTED
@since{1.7.0}
The data is an OpenPGP encrypted message.
@item GPGME_DATA_TYPE_PGP_SIGNATURE
@since{1.7.0}
The data is an OpenPGP detached signature.
@item GPGME_DATA_TYPE_PGP_OTHER
This is a generic OpenPGP message. In most cases this will be encrypted data.
@item GPGME_DATA_TYPE_PGP_KEY
This is an OpenPGP key (private or public).
@item GPGME_DATA_TYPE_CMS_SIGNED
This is a CMS signed message.
@item GPGME_DATA_TYPE_CMS_ENCRYPTED
This is a CMS encrypted (enveloped data) message.
@item GPGME_DATA_TYPE_CMS_OTHER
This is used for other CMS message types.
@item GPGME_DATA_TYPE_X509_CERT
The data is a X.509 certificate
@item GPGME_DATA_TYPE_PKCS12
The data is a PKCS#12 message. This is commonly used to exchange private keys for X.509.
@end table
\end{verbatim}

The function \texttt{gpgme_data_identify} returns the type of the data with the handle \texttt{dh}. If it is not possible to perform the
identification, the function returns zero
(@code{GPGME_DATA_TYPE_INVALID}). Note that depending on how the data
object has been created the identification may not be possible or the
data object may change its internal state (file pointer moved). For
file or memory based data object, the state should not change.
@end deftypefun

@c
@c Chapter Contexts
@c
@node Contexts
@chapter Contexts
@cindex context

All cryptographic operations in @acronym{GPGME} are performed within a
context, which contains the internal state of the operation as well as
configuration parameters. By using several contexts you can run
several cryptographic operations in parallel, with different
configuration.

@deftp {Data type} {gpgme_ctx_t}
The @code{gpgme_ctx_t} type is a handle for a @acronym{GPGME} context,
which is used to hold the configuration, status and result of
cryptographic operations.
@end deftp

@menu
* Creating Contexts:: Creating new @acronym{GPGME} contexts.
* Destroying Contexts:: Releasing @acronym{GPGME} contexts.
* Result Management:: Managing the result of crypto operations.
* Context Attributes:: Setting properties of a context.
* Key Management:: Managing keys with @acronym{GPGME}.
* Trust Item Management:: Managing trust items with @acronym{GPGME}.
* Crypto Operations:: Using a context for cryptography.
* Miscellaneous:: Miscellaneous operations
* Run Control:: Controlling how operations are run.
@end menu

@node Creating Contexts
@section Creating Contexts
@cindex context, creation

@deftypefun gpgme_error_t gpgme_new (@w{gpgme_ctx_t *@var{ctx}})
The function @code{gpgme_new} creates a new @code{gpgme_ctx_t} object
and returns a handle for it in @var{ctx}.  

The function returns the error code @code{GPG_ERR_NO_ERROR} if the context was successfully created, @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and @code{GPG_ERR_ENOMEM} if not enough memory is available. Also, it returns @code{GPG_ERR_NOT_OPERATIONAL} if @code{gpgme_check_version} was not called to initialize GPGME, and @code{GPG_ERR_SELFTEST_FAILED} if a selftest failed. Currently, the only selftest is for Windows MingW32 targets to see if @code{-mms-bitfields} was used (as required).

@end deftypefun

@node Destroying Contexts
@section Destroying Contexts
@cindex context, destruction

@deftypefun void gpgme_release (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_release} destroys the context with the handle @var{ctx} and releases all associated resources.
@end deftypefun

@node Result Management
@section Result Management
@cindex context, result of operation

The detailed result of an operation is returned in operation-specific structures such as @code{gpgme_decrypt_result_t}. The corresponding retrieval functions such as @code{gpgme_op_decrypt_result} provide static access to the results after an operation completes. Those structures shall be considered read-only and an application must not allocate such a structure on its own. The following interfaces make it possible to detach a result structure from its associated context and give it a lifetime beyond that of the current operation or context.

@deftypefun void gpgme_result_ref (@w{void *@var{result}})
@since{1.2.0}
The function @code{gpgme_result_ref} acquires an additional reference for the result @var{result}, which may be of any type @code{gpgme_*_result_t}. As long as the user holds a reference, the result structure is guaranteed to be valid and unmodified.
@end deftypefun

@deftypefun void gpgme_result_unref (@w{void *@var{result}})
@since{1.2.0}
The function @code{gpgme_result_unref} releases a reference for the
result @var{result}. If this was the last reference, the result
structure will be destroyed and all resources associated to it will be
released.
@end deftypefun

Note that a context may hold its own references to result structures,
typically until the context is destroyed or the next operation is
started. In fact, these references are accessed through the
@code{gpgme_op_*_result} functions.

@node Context Attributes
@section Context Attributes
@cindex context, attributes
@menu
* Protocol Selection::            Selecting the protocol used by a context.
  * Crypto Engine::                 Configuring the crypto engine.
  * Setting the Sender::            How to tell the engine the sender.
  * ASCII Armor::                   Requesting @acronym{ASCII} armored output.
  * Text Mode::                     Choosing canonical text mode.
  * Offline Mode::                  Choosing offline mode.
  * Pinentry Mode::                 Choosing the pinentry mode.
  * Included Certificates::         Including a number of certificates.
  * Key Listing Mode::              Selecting key listing mode.
  * Passphrase Callback::           Getting the passphrase from the user.
  * Progress Meter Callback::       Being informed about the progress.
  * Status Message Callback::       Status messages received from gpg.
  * Context Flags::                 Additional flags for a context.
  * Locale::                        Setting the locale of a context.
  * Additional Logs::               Additional logs of a context.
@end menu

@node Protocol Selection
@section Protocol Selection
@cindex context, selecting protocol
@cindex protocol, selecting
@deftypefun gpgme_error_t gpgme_set_protocol (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_protocol_t @var{proto}})
The function @code{gpgme_set_protocol} sets the protocol used within
the context @var{ctx} to @var{proto}. All crypto operations will be
performed by the crypto engine configured for that protocol.
@xref{Protocols and Engines}.

Setting the protocol with @code{gpgme_set_protocol} does intentionally
not check if the crypto engine for that protocol is available and
installed correctly. @xref{Engine Version Check}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the protocol could be set successfully, and @code{GPG_ERR_INV_VALUE} if @var{protocol} is not a valid protocol.
@end deftypefun

@deftypefun gpgme_protocol_t gpgme_get_protocol (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_get_protocol} retrieves the protocol currently use with the context @var{ctx}.
@end deftypefun

@node Crypto Engine
@subsection Crypto Engine
@cindex context, configuring engine
@cindex engine, configuration per context

The following functions can be used to set and retrieve the configuration of the crypto engines of a specific context. The default can also be retrieved without any particular context. @xref{Engine Information}. The default can also be changed globally. @xref{Engine Configuration}.

@deftypefun gpgme_engine_info_t gpgme_ctx_get_engine_info (@w{gpgme_ctx_t @var{ctx}})
@since{1.1.0}
The function @code{gpgme_ctx_get_engine_info} returns a linked list of engine info structures. Each info structure describes the configuration of one configured backend, as used by the context @var{ctx}.

The result is valid until the next invocation of @code{gpgme_ctx_set_engine_info} for this particular context.

This function can not fail.
@end deftypefun

@deftypefun gpgme_error_t gpgme_ctx_set_engine_info (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_protocol_t @var{proto}}, @w{const char *@var{file_name}}, @w{const char *@var{home_dir}})
@since{1.1.0}
The function @code{gpgme_ctx_set_engine_info} changes the configuration of the crypto engine implementing the protocol @var{proto} for the context @var{ctx}.

@var{file_name} is the file name of the executable program implementing this protocol, and @var{home_dir} is the directory name
of the configuration directory for this crypto engine. If
@var{home_dir} is @code{NULL}, the engine's default will be used.

Currently this function must be used before starting the first crypto
operation. It is unspecified if and when the changes will take effect
if the function is called after starting the first operation on the
context @var{ctx}.

This function returns the error code @code{GPG_ERR_NO_ERROR} if
successful, or an error code on failure.
@end deftypefun

@node Setting the Sender
@subsection How to tell the engine the sender.
@cindex context, sender
@cindex sender
@cindex From:

Some engines can make use of the senders address, for example to
figure out the best user id in certain trust models. For verification
and signing of mails, it is thus suggested to let the engine know the
sender ("From:" address. @acronym{GPGME} provides two functions to
accomplish that. Note that the esoteric use of multiple "From:
addresses is not supported.

@end deftypefun

@gpgme_error_t gpgme_set_sender (@w{gpgme_ctx_t @var{ctx}}, @
@w{int @var{address}})
@since{1.8.0}

The function @code{gpgme_set_sender} specifies the sender address for
use in sign and verify operations. @var{address} is expected to be
the "addr-spec" part of an address but my also be a complete mailbox
address, in which case this function extracts the "addr-spec" from
it. Using @code{NULL} for @var{address} clears the sender address.

The function returns 0 on success or an error code on failure. The
most likely failure is that no valid "addr-spec" was found in
@var{address}.

@end deftypefun

@w{const char *} gpgme_get_sender (@w{gpgme_ctx_t @var{ctx}})
@since{1.8.0}
The function `gpgme_get_sender` returns the current sender address from the context, or NULL if none was set. The returned value is valid as long as the `@var{ctx}` is valid and `gpgme_set_sender` has not been called again.

@end deftypefun

@c FIXME: Unfortunately, using @acronym here breaks texi2dvi.
@node ASCII Armor
@subsection @acronym{ASCII} Armor
@cindex context, armor mode
@cindex @acronym{ASCII} armor
@cindex armor mode
@deftypefun void gpgme_set_armor (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{yes}})
The function `gpgme_set_armor` specifies if the output should be @acronym{ASCII} armored. By default, output is not @acronym{ASCII} armored.

@end deftypefun

@acronym{ASCII} armored output is disabled if @var{yes} is zero, and enabled otherwise.
@end deftypefun

@deftypefun int gpgme_get_armor (@w{gpgme_ctx_t @var{ctx}})
The function `gpgme_get_armor` returns 1 if the output is @acronym{ASCII} armored, and 0 if it is not, or if @var{ctx} is not a valid pointer.
@end deftypefun

@node Text Mode
@subsection Text Mode
@cindex context, text mode
@cindex text mode
@cindex canonical text mode
@deftypefun void gpgme_set_textmode (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{yes}})
The function `gpgme_set_textmode` specifies if canonical text mode should be used. By default, text mode is not used.

Text mode is for example used for the RFC2015 signatures; note that the updated RFC 3156 mandates that the mail user agent does some preparations so that text mode is not needed anymore.

This option is only relevant to the OpenPGP crypto engine, and ignored.
Canonical text mode is disabled if \texttt{yes} is zero, and enabled otherwise.

The function \texttt{gpgme_get_textmode} returns 1 if canonical text mode is enabled, and \texttt{0} if it is not, or if \texttt{ctx} is not a valid pointer.

The function \texttt{gpgme_set_offline} specifies if offline mode should be used. Offline mode is disabled if \texttt{yes} is zero, and enabled otherwise. By default, offline mode is disabled.

The details of the offline mode depend on the used protocol and its backend engine. It may eventually be extended to be more stricter and for example completely disable the use of Dirmngr for any engine.

For the CMS protocol the offline mode specifies whether Dirmngr shall be used to do additional validation that might require connecting external services (e.g. CRL / OCSP checks). Here the offline mode only affects the keylist mode \texttt{GPGME_KEYLIST_MODE_VALIDATE}.

For the OpenPGP protocol offline mode entirely disables the use of the Dirmngr and will thus guarantee that no network connections are done as part of an operation on this context. It has only an effect with GnuPG versions 2.1.23 or later. For all other protocols the offline mode is currently ignored.
valid pointer.
@end deftypefun

@section Pinentry Mode
@subsection Pinentry Mode
@cindex context, pinentry mode
@cindex pinentry mode
@deftypefun gpgme_error_t gpgme_set_pinentry_mode (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_pinentry_mode_t @var{mode}})
@since{1.4.0}
The function @code{gpgme_set_pinentry_mode} specifies the pinentry mode to be used.

For GnuPG >= 2.1 this option is required to be set to @code{GPGME_PINENTRY_MODE_LOOPBACK} to enable the passphrase callback mechanism in GPGME through @code{gpgme_set_passphrase_cb}.
@end deftypefun

@deftypefun gpgme_pinentry_mode_t gpgme_get_pinentry_mode (@w{gpgme_ctx_t @var{ctx}})
@since{1.4.0}
The function @code{gpgme_get_pinentry_mode} returns the mode set for the context.
@end deftypefun

@deftp {Data type} {enum gpgme_pinentry_mode_t}
@tindex gpgme_pinentry_mode_t
@since{1.4.0}
The @code{gpgme_pinentry_mode_t} type specifies the set of possible pinentry modes that are supported by @acronym{GPGME} if GnuPG >= 2.1 is used. The following modes are supported:

@table @code
@item GPGME_PINENTRY_MODE_DEFAULT
@since{1.4.0}
Use the default of the agent, which is ask.

@item GPGME_PINENTRY_MODE_ASK
@since{1.4.0}
Force the use of the Pinentry.
Emulate use of Pinentry's cancel button.

Return a Pinentry error @code{No Pinentry}.

Redirect Pinentry queries to the caller.
This enables the use of @code{gpgme_set_passphrase_cb} because pinentry queries are redirected to gpgme.

Note: For 2.1.0 - 2.1.12 this mode requires @code{allow-loopback-pinentry} to be enabled in the @file{gpg-agent.conf} or an agent started with that option.

The function @code{gpgme_set_include_certs} specifies how many certificates should be included in an S/MIME signed message. By default, only the sender's certificate is included. The possible values of @var{nr_of_certs} are:

-2 Include all certificates except the root certificate.
-1 Include all certificates.
0 Include no certificates.
1 Include the sender's certificate only.
Include the first $n$ certificates of the certificates path, starting from the sender's certificate. The number $n$ must be positive.

Values of $\text{nr\_of\_certs}$ smaller than -2 are undefined.

This option is only relevant to the CMS crypto engine, and ignored by all other engines.

The function `gpgme_get_include_certs` returns the number of certificates to include into an S/MIME signed message.

The function `gpgme_set_keylist_mode` changes the default behaviour of the key listing functions. The value in $\text{mode}$ is a bitwise-or combination of one or multiple of the following bit values:

- `GPGME_KEYLIST_MODE_LOCAL`: The symbol specifies that the local keyring should be searched for keys in the keylisting operation. This is the default.
- `GPGME_KEYLIST_MODE_EXTERN`: The symbol specifies that an external source should be searched for keys in the keylisting operation. The type of external source is dependent on the crypto engine used and whether it is combined with `GPGME_KEYLIST_MODE_LOCAL`. For example, it can be a remote keyserver or LDAP certificate server.

Using only this option results in a `--list-keys`.

Using only this option results in a `--search-keys` for `GPGME_PROTOCOL_OpenPGP` and something similar to `--list-external-keys` for `GPGME_PROTOCOL_CMS`.

Using only this option results in a `--list-external-keys`.

The `GPGME_KEYLIST_MODE_LOCATE` symbol specifies that the local keyring should be searched for keys in the keylisting operation.
This is a shortcut for the combination of @code{GPGME_KEYLIST_MODE_LOCAL} and @code{GPGME_KEYLIST_MODE_EXTERN}, which results in a @code{--locate-keys} for @code{GPGME_PROTOCOL_OpenPGP}.

@item GPGME_KEYLIST_MODE_SIGS
The @code{GPGME_KEYLIST_MODE_SIGS} symbol specifies that the key signatures should be included in the listed keys.

@item GPGME_KEYLIST_MODE_SIG_NOTATIONS
@since{1.1.1}

The @code{GPGME_KEYLIST_MODE_SIG_NOTATIONS} symbol specifies that the signature notations on key signatures should be included in the listed keys. This only works if @code{GPGME_KEYLIST_MODE_SIGS} is also enabled.

@item GPGME_KEYLIST_MODE_WITH_TOFU
@since{1.7.0}

The @code{GPGME_KEYLIST_MODE_WITH_TOFU} symbol specifies that information pertaining to the TOFU trust model should be included in the listed keys.

@item GPGME_KEYLIST_MODE_WITH_SECRET
@since{1.5.1}

The @code{GPGME_KEYLIST_MODE_WITH_SECRET} returns information about the presence of a corresponding secret key in a public key listing. A public key listing with this mode is slower than a standard listing but can be used instead of a second run to list the secret keys. This is only supported for GnuPG versions >= 2.1.

@item GPGME_KEYLIST_MODE_EPHEMERAL
@since{1.2.0}

The @code{GPGME_KEYLIST_MODE_EPHEMERAL} symbol specifies that keys flagged as ephemeral are included in the listing.

@item GPGME_KEYLIST_MODE_VALIDATE
@since{0.4.5}

The @code{GPGME_KEYLIST_MODE_VALIDATE} symbol specifies that the backend should do key or certificate validation and not just get the validity information from an internal cache. This might be an expensive operation and is in general not useful. Currently only implemented for the S/MIME backend and ignored for other backends.

@end table
At least one of @code{GPGME_KEYLIST_MODE_LOCAL} and @code{GPGME_KEYLIST_MODE_EXTERN} must be specified. For future binary compatibility, you should get the current mode with @code{gpgme_get_keylist_mode} and modify it by setting or clearing the appropriate bits, and then using that calculated value in the @code{gpgme_set_keylisting_mode} operation. This will leave all other bits in the mode value intact (in particular those that are not used in the current version of the library).

The function returns the error code @code{GPG_ERR_NO_ERROR} if the mode could be set correctly, and @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer or @var{mode} is not a valid mode.

@end deftypefun

@deftypefun gpgme_keylist_mode_t gpgme_get_keylist_mode (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_get_keylist_mode} returns the current key listing mode of the context @var{ctx}. This value can then be modified and used in a subsequent @code{gpgme_set_keylist_mode} operation to only affect the desired bits (and leave all others intact).

The function returns 0 if @var{ctx} is not a valid pointer, and the current mode otherwise. Note that 0 is not a valid mode value.
@end deftypefun

@node Passphrase Callback
@subsection Passphrase Callback
@cindex callback, passphrase
@cindex passphrase callback
@deftp {Data type} {gpgme_error_t (*gpgme_passphrase_cb_t)(void *@var{hook}, const char *@var{uid_hint}, const char *@var{passphrase_info}, @w{int @var{prev_was_bad}}, @w{int @var{fd}})}
@tindex gpgme_passphrase_cb_t
The @code{gpgme_passphrase_cb_t} type is the type of functions usable as passphrase callback function.

The argument @var{uid_hint} might contain a string that gives an indication for which user ID the passphrase is required. If this is not available, or not applicable (in the case of symmetric encryption, for example), @var{uid_hint} will be @code{NULL}.

The argument @var{passphrase_info}, if not @code{NULL}, will give further information about the context in which the passphrase is required. This information is engine and operation specific.
If this is the repeated attempt to get the passphrase, because previous attempts failed, then @var{prev_was_bad} is 1, otherwise it will be 0.

The user must write the passphrase, followed by a newline character, to the file descriptor @var{fd}. The function @code{gpgme_io_writen} should be used for the write operation. Note that if the user returns 0 to indicate success, the user must at least write a newline character before returning from the callback.

If an error occurs, return the corresponding @code{gpgme_error_t} value. You can use the error code @code{GPG_ERR_CANCELED} to abort the operation. Otherwise, return @code{0}.

Note: The passphrase_cb only works with GnuPG 1.x and 2.1.x and not with the 2.0.x series. See @code{gpgme_set_pinentry_mode} for more details on 2.1.x usage.

@end deftp

@deftypefun void gpgme_set_passphrase_cb (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_passphrase_cb_t @var{passfunc}}, @w{void *@var{hook_value}})

The function @code{gpgme_set_passphrase_cb} sets the function that is used when a passphrase needs to be provided by the user to @var{passfunc}. The function @var{passfunc} needs to implemented by the user, and whenever it is called, it is called with its first argument being @var{hook_value}. By default, no passphrase callback function is set.

Not all crypto engines require this callback to retrieve the passphrase. It is better if the engine retrieves the passphrase from a trusted agent (a daemon process), rather than having each user to implement their own passphrase query. Some engines do not even support an external passphrase callback at all, in this case the error code @code{GPG_ERR_NOT_SUPPORTED} is returned.

For GnuPG >= 2.1 the pinentry mode has to be set to @code{GPGME_PINENTRY_MODE_LOOPBACK} to enable the passphrase callback. See @code{gpgme_set_pinentry_mode}.

The user can disable the use of a passphrase callback function by calling @code{gpgme_set_passphrase_cb} with @var{passfunc} being @code{NULL}.

@end deftpfun

@deftypefun void gpgme_get_passphrase_cb (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_passphrase_cb_t *@var{passfunc}}, @w{void **@var{hook_value}})

The function @code{gpgme_get_passphrase_cb} returns the function that is used when a passphrase needs to be provided by the user in
@deftypefun, and the first argument for this function in
@deftypefun *passfunc*, and the first argument for this function in
@deftypefun *hook_value*. If no passphrase callback is set, or @deftypefun *ctx* is
not a valid pointer, @code{NULL} is returned in both variables.

@deftypefun *passfunc* or @deftypefun *hook_value* can be @code{NULL}. In this case,
the corresponding value will not be returned.
@end deftypefun

@node Progress Meter Callback
@subsection Progress Meter Callback
@cindex callback, progress meter
@cindex progress meter callback
@deftp {Data type} {void (*gpgme_progress_cb_t)(void *@deftypefun {hook}, const char *@deftypefun *what, int @deftypefun *type, int @deftypefun {current}, int @deftypefun *total)}
@tindex gpgme_progress_cb_t
The @code{gpgme_progress_cb_t} type is the type of functions usable as
progress callback function.

The arguments are specific to the crypto engine. More information
about the progress information returned from the GnuPG engine can be
found in the GnuPG source code in the file @file{doc/DETAILS} in the
section PROGRESS.
@end deftp

@deftypefun void gpgme_set_progress_cb (@deftypefun {gpgme_ctx_t @deftypefun {ctx}}, @deftypefun {gpgme_progress_cb_t *@deftypefun {progfunc}}, @deftypefun {void *@deftypefun {hook_value}})
The function @code{gpgme_set_progress_cb} sets the function that is
used when progress information about a cryptographic operation is
available. The function @deftypefun *progfunc* needs to implemented by the
user, and whenever it is called, it is called with its first argument
being @deftypefun *hook_value*. By default, no progress callback function
is set.

Setting a callback function allows an interactive program to display
progress information about a long operation to the user.

The user can disable the use of a progress callback function by
calling @code{gpgme_set_progress_cb} with @deftypefun *progfunc* being
@code{NULL}.
@end deftypefun

@deftypefun void gpgme_get_progress_cb (@deftypefun {gpgme_ctx_t @deftypefun {ctx}}, @deftypefun {gpgme_progress_cb_t *@deftypefun {progfunc}}, @deftypefun {void **@deftypefun {hook_value}})
The function @code{gpgme_get_progress_cb} returns the function that is
used to inform the user about the progress made in @deftypefun *progfunc*,
and the first argument for this function in @deftypefun *hook_value*. If no
progress callback is set, or @var{ctx} is not a valid pointer, @code{NULL} is returned in both variables.

@var{progfunc} or @var{hook_value} can be @code{NULL}. In this case, the corresponding value will not be returned.
@end deftypefun

@node Status Message Callback
@subsection Status Message Callback
@cindex callback, status message
@cindex status message callback
@deftp {Data type} {gpgme_error_t (*gpgme_status_cb_t)(void *@var{hook}, const char *@var{keyword}, const char *@var{args})}
@tindex gpgme_status_cb_t
The @code{gpgme_status_cb_t} type is the type of function usable as a status message callback function.

The argument @var{keyword} is the name of the status message while the @var{args} argument contains any arguments for the status message.

If an error occurs, return the corresponding @code{gpgme_error_t} value. Otherwise, return @code{0}.
@end deftp
@end deftypefun

@deftypefun void gpgme_set_status_cb (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_status_cb_t @var{statusfunc}}, @w{void *@var{hook_value}})
@since{1.6.0}
The function @code{gpgme_set_status_cb} sets the function that is used when a status message is received from gpg to @var{statusfunc}. The function @var{statusfunc} needs to be implemented by the user, and whenever it is called, it is called with its first argument being @var{hook_value}. By default, no status message callback function is set.

The user can disable the use of a status message callback function by calling @code{gpgme_set_status_cb} with @var{statusfunc} being @code{NULL}.
@end deftypefun

@deftypefun void gpgme_get_status_cb (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_status_cb_t @var{statusfunc}}, @w{void **@var{hook_value}})
@since{1.6.0}
The function @code{gpgme_get_status_cb} returns the function that is used to process status messages from gpg in @var{*statusfunc}, and the first argument for this function in @var{*hook_value}. If no status message callback is set, or @var{ctx} is not a valid pointer, @code{NULL} is returned in both
variables.
@end deftypefun

@end node
@end subsection
@end cindex flags, of a context

@deftypefun {gpgme_error_t} gpgme_set_ctx_flag (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{name}}, @w{const char *@var{value}})
@since{1.7.0}

Some minor properties of the context can be controlled with flags set by this function. The properties are identified by the following values for @var{name}:

@table @code
@item "redraw"
This flag is normally not changed by the caller because GPGME sets and clears it automatically: The flag is cleared before an operation and set if an operation noticed that the engine has launched a Pinentry.
A Curses based application may use this information to redraw the screen; for example:

@example
err = gpgme_op_keylist_start (ctx, "foo@example.org", 0);
while (!err)
{
  err = gpgme_op_keylist_next (ctx, &key);
  if (err)
    break;
  show_key (key);
  gpgme_key_release (key);
  @}
if ((s = gpgme_get_ctx_flag (ctx, "redraw")) && *s)
  redraw_screen ();
gpgme_release (ctx);
@end example

@item "full-status"
Using a @var{value} of "1" the status callback set by gpgme_set_status_cb returns all status lines with the exception of PROGRESS lines. With the default of "0" the status callback is only called in certain situations.
@item "raw-description"
Setting the @var{value} to "1" returns human readable strings in a raw format. For example the non breaking space characters ("~") will not be removed from the @code{description} field of the @code{gpgme_tofu_info_t} object.

@item "export-session-key"
Using a @var{value} of "1" specifies that the context should try to export the symmetric session key when decrypting data. By default, or when using an empty string or "0" for @var{value}, session keys are not exported.

@item "override-session-key"
The string given in @var{value} is passed to the GnuPG engine to override the session key for decryption. The format of that session key is specific to GnuPG and can be retrieved during a decrypt operation when the context flag "export-session-key" is enabled. Please be aware that using this feature with GnuPG < 2.1.16 will leak the session key on many platforms via ps(1).

@item "auto-key-retrieve"
Setting the @var{value} to "1" asks the backend to automatically retrieve a key for signature verification if possible. Note that this option makes a "web bug" like behavior possible. Keyserver or Web Key Directory operators can see which keys you request, so by sending you a message signed by a brand new key (which you naturally will not have on your local keyring), the operator can tell both your IP address and the time when you verified the signature.

@item "request-origin"
The string given in @var{value} is passed to the GnuPG engines to request restrictions based on the origin of the request. Valid values are documented in the GnuPG manual and the gpg man page under the option @option{--request-origin}. Requires at least GnuPG 2.2.6 to have an effect.

@item "no-symkey-cache"
For OpenPGP disable the passphrase cache used for symmetrical en- and decryption. This cache is based on the message specific salt value. Requires at least GnuPG 2.2.7 to have an effect.

@item "ignore-mdc-error"
This flag passes the option @option{--ignore-mdc-error} to gpg. This can be used to force decryption of a message which failed due to a missing integrity check. This flag must be used with great caution and only if it is a known non-corrupted old message and the decryption result of the former try had the decryption result flag @code{legacy_cipher_nomdc} set. For failsafe reasons this flag is
reset after each operation.

@item "auto-key-locate"
The string given in @var{value} is passed to gpg. This can be used to change the behavior of a @code{GPGME_KEYLIST_MODE_LOCATE} keylisting. Valid values are documented in the GnuPG manual and the gpg man page under the option @option{--auto-key-locate}.
Requires at least GnuPG 2.1.18.

Note: Keys retrieved through @code{auto-key-locate} are automatically imported in the keyring.

@item trust-model
@since{1.11.2}
Change the trust-model for all GnuPG engine operations. An empty string sets the trust-model back to the user's default. If the trust-model is not supported by GnuPG the behavior is undefined and will likely cause all operations to fail. Example: "tofu+pgp".

This options should be used carefully with a strict version requirement. In some versions of GnuPG setting the trust-model changes the default trust-model for future operations. A change in the trust-model also can have unintended side effects, like rebuilding the trust-db.

This function returns @code{0} on success.
@end deftypefun

@deftypefun {const char *} gpgme_get_ctx_flag
(@w{gpgme_ctx_t @var{ctx}}, @
 @w{const char *@var{name}})
@since{1.8.0}
The value of flags settable by @code{gpgme_set_ctx_flag} can be retrieved by this function. If @var{name} is unknown the function returns @code{NULL}. For boolean flags an empty string is returned for False and the string "1" is returned for True; either atoi(3) or a test for an empty string can be used to get the boolean value.
@end deftypefun

@node Locale
A locale setting can be associated with a context. This locale is passed to the crypto engine, and used for applications like the PIN entry, which is displayed to the user when entering a passphrase is required.

The default locale is used to initialize the locale setting of all contexts created afterwards.

The function \texttt{gpgme_set_locale} sets the locale of the context \texttt{ctx}, or the default locale if \texttt{ctx} is a null pointer.

The locale settings that should be changed are specified by \texttt{category}. Supported categories are \texttt{LC_CTYPE}, \texttt{LC_MESSAGES}, and \texttt{LC_ALL}, which is a wildcard you can use if you want to change all the categories at once.

The value to be used for the locale setting is \texttt{value}, which will be copied to GPGME’s internal data structures. \texttt{value} can be a null pointer, which disables setting the locale, and will make PIN entry and other applications use their default setting, which is usually not what you want.

Note that the settings are only used if the application runs on a text terminal, and that the settings should fit the configuration of the output terminal. Normally, it is sufficient to initialize the default value at startup.

The function returns an error if not enough memory is available.

Additional logs can be associated with a context. These logs are engine specific and can be obtained with \texttt{gpgme_op_getauditlog}.

The function returns an error if not enough memory is available.
The function `gpgme_op_getauditlog` is used to obtain additional logs as specified by `flags` into the `output` data. If

The function returns the error code `GPG_ERR_NO_ERROR` if a log could be queried from the engine, and `GPG_ERR_NOT_IMPLEMENTED` if the log specified in `flags` is not available for this engine. If no log is available `GPG_ERR_NO_DATA` is returned.

The value in `flags` is a bitwise-or combination of one or multiple of the following bit values:

- **GPGME_AUDITLOG_DIAG**
  - Since 1.11.2
  - Obtain diagnostic output which would be written to `stderr` in interactive use of the engine. This can be used to provide additional diagnostic information in case of errors in other operations.
  - Note: If log-file has been set in the configuration the log will be empty and `GPG_ERR_NO_DATA` will be returned.
  - Implemented for: `GPGME_PROTOCOL_OpenPGP`

- **GPGME_AUDITLOG_DEFAULT**
  - Since 1.11.2
  - This flag has the value 0 for compatibility reasons. Obtains additional information from the engine by issuing the `GETAUDITLOG` command. For `GPGME_PROTOCOL_CMS` this provides additional information about the X509 certificate chain.
  - Implemented for: `GPGME_PROTOCOL_CMS`

- **GPGME_AUDITLOG_HTML**
  - Since 1.1.1
  - Same as `GPGME_AUDITLOG_DEFAULT` but in HTML.
  - Implemented for: `GPGME_PROTOCOL_CMS`
This is the asynchronous variant of \code{gpgme_op_getauditlog}.
@end deftypefun

@node Key Management
@section Key Management
@cindex key management

Some of the cryptographic operations require that recipients or signers are specified. This is always done by specifying the respective keys that should be used for the operation. The following section describes how such keys can be selected and manipulated.

@menu
* Key objects:: Description of the key structures.
* Listing Keys:: Browsing the list of available keys.
* Information About Keys:: Requesting detailed information about keys.
* Manipulating Keys:: Operations on keys.
* Generating Keys:: Creating new key pairs.
* Signing Keys:: Adding key signatures to public keys.
* Exporting Keys:: Retrieving key data from the key ring.
* Importing Keys:: Adding keys to the key ring.
* Deleting Keys:: Removing keys from the key ring.
* Changing Passphrases:: Change the passphrase of a key.
* Changing TOFU Data:: Changing data pertaining to TOFU.
* Advanced Key Editing:: Advanced key edit operation.
@end menu

@node Key objects
@subsection Key objects

The keys are represented in GPGME by structures which may only be read by the application but never be allocated or changed. They are valid as long as the key object itself is valid.

@deftp {Data type} gpgme_key_t

The \code{gpgme_key_t} type is a pointer to a key object. It has the following members:

@table @code
@item \code{gpgme_keylist_mode_t} keylist_mode
@since{0.9.0}
The keylist mode that was active when the key was retrieved.

@item unsigned int revoked : 1
This is true if the key is revoked.

@item unsigned int expired : 1
This is true if the key is expired.

@item unsigned int disabled : 1
This is true if the key is disabled.

@item unsigned int invalid : 1
This is true if the key is invalid. This might have several reasons, for example for the S/MIME backend, it will be set during key listings if the key could not be validated due to missing certificates or unmatched policies.

@item unsigned int can_encrypt : 1
This is true if the key (ie one of its subkeys) can be used for encryption.

@item unsigned int can_sign : 1
This is true if the key (ie one of its subkeys) can be used to create data signatures.

@item unsigned int can_certify : 1
This is true if the key (ie one of its subkeys) can be used to create key certificates.

@item unsigned int can_authenticate : 1
@since{0.4.5}
This is true if the key (ie one of its subkeys) can be used for authentication.

@item unsigned int is_qualified : 1
@since{1.1.0}
This is true if the key can be used for qualified signatures according to local government regulations.

@item unsigned int secret : 1
This is true if the key is a secret key. Note, that this will always be true even if the corresponding subkey flag may be false (offline/stub keys). This is only set if a listing of secret keys has been requested or if @code{GPGME_KEYLIST_MODE_WITH_SECRET} is active.

@item unsigned int origin : 5
Reserved for the origin of this key.

@item gpgme_protocol_t protocol
This is the protocol supported by this key.

@item char *issuer_serial
If @code{protocol} is @code{GPGME_PROTOCOL_CMS}, then this is the
issuer serial.

@item char *issuer_name
If @code{protocol} is @code{GPGME_PROTOCOL_CMS}, then this is the
issuer name.

@item char *chain_id
If @code{protocol} is @code{GPGME_PROTOCOL_CMS}, then this is the
chain ID, which can be used to built the certificate chain.

@item gpgme_validity_t owner_trust
If @code{protocol} is @code{GPGME_PROTOCOL_OpenPGP}, then this is the
owner trust.

@item gpgme_subkey_t subkeys
This is a linked list with the subkeys of the key. The first subkey
in the list is the primary key and usually available.

@item gpgme_user_id_t uids
This is a linked list with the user IDs of the key. The first user ID
in the list is the main (or primary) user ID.

@item char *fpr
@since{1.7.0}

This field gives the fingerprint of the primary key. Note that
this is a copy of the fingerprint of the first subkey. For an
incomplete key (for example from a verification result) a subkey may
be missing but this field may be set nevertheless.

@item unsigned long last_update
@since{1.8.0}

Reserved for the time of the last update of this key.

@end table
@end deftp
The `gpgme_subkey_t` type is a pointer to a subkey structure. Subkeys are one component of a `gpgme_key_t` object. In fact, subkeys are those parts that contain the real information about the individual cryptographic keys that belong to the same key object. One `gpgme_key_t` can contain several subkeys. The first subkey in the linked list is also called the primary key.

The subkey structure has the following members:

- `next` (pointer to the next subkey structure in the linked list, or `NULL` if this is the last element)
- `revoked` (true if the subkey is revoked)
- `expired` (true if the subkey is expired)
- `disabled` (true if the subkey is disabled)
- `invalid` (true if the subkey is invalid)
- `can_encrypt` (true if the subkey can be used for encryption)
- `can_sign` (true if the subkey can be used to create data signatures)
- `can_certify` (true if the subkey can be used to create key certificates)
- `can_authenticate` (true if the subkey can be used for authentication)
- `is_qualified` (true if the subkey can be used for qualified signatures according to local government regulations)
@item unsigned int is_de_vs : 1
@since{1.8.0}

This is true if the subkey complies with the rules for classified information in Germany at the restricted level (VS-NfD). This are currently RSA keys of at least 2048 bits or ECDH/ECDSA keys using a Brainpool curve.

@item unsigned int secret : 1
This is true if the subkey is a secret key. Note that it will be false if the key is actually a stub key; i.e. a secret key operation is currently not possible (offline-key). This is only set if a listing of secret keys has been requested or if @code{GPGME_KEYLIST_MODE_WITH_SECRET} is active.

@item gpgme_pubkey_algo_t pubkey_algo
This is the public key algorithm supported by this subkey.

@item unsigned int length
This is the length of the subkey (in bits).

@item char *keyid
This is the key ID of the subkey in hexadecimal digits.

@item char *fpr
This is the fingerprint of the subkey in hexadecimal digits, if available.

@item char *keygrip
@since{1.7.0}
The keygrip of the subkey in hex digit form or @code{NULL} if not available.

@item long int timestamp
This is the creation timestamp of the subkey. This is -1 if the timestamp is invalid, and 0 if it is not available.

@item long int expires
This is the expiration timestamp of the subkey, or 0 if the subkey does not expire.

@item unsigned int is_cardkey : 1
@since{1.2.0}

True if the secret key is stored on a smart card.
@item char *card_number
@since{1.2.0}

The serial number of a smart card holding this key or @code{NULL}.

@item char *curve
For ECC algorithms the name of the curve.

@end table
@end deftp

@deftp {Data type} gpgme_user_id_t

A user ID is a component of a @code{gpgme_key_t} object. One key can have many user IDs. The first one in the list is the main (or primary) user ID.

The user ID structure has the following members.

@table @code
@item gpgme_user_id_t next
This is a pointer to the next user ID structure in the linked list, or @code{NULL} if this is the last element.

@item unsigned int revoked : 1
This is true if the user ID is revoked.

@item unsigned int invalid : 1
This is true if the user ID is invalid.

@item gpgme_validity_t validity
This specifies the validity of the user ID.

@item char *uid
This is the user ID string.

@item char *name
This is the name component of @code{uid}, if available.

@item char *comment
This is the comment component of @code{uid}, if available.

@item char *email
This is the email component of @code{uid}, if available.

@item char *address;
The mail address (addr-spec from RFC-5322) of the user ID string. This is general the same as the @code{email} part of this structure
but might be slightly different. If no mail address is available
@code{NULL} is stored.

@item gpgme_tofu_info_t tofu
@since{1.7.0}

If not @code{NULL} information from the TOFU database pertaining to
this user id.

@item gpgme_key_sig_t signatures
This is a linked list with the signatures on this user ID.

@item unsigned int origin : 5
@since{1.8.0}

Reserved for the origin of this user ID.

@item unsigned long last_update
@since{1.8.0}

Reserved for the time of the last update of this user ID.

@end table
@end deftp

@deftp {Data type} gpgme_tofu_info_t

@since{1.7.0}

The @code{gpgme_tofu_info_t} type is a pointer to a tofu info
structure. Tofu info structures are one component of a
@code{gpgme_user_id_t} object, and provide information from the TOFU
database pertaining to the user ID.

The tofu info structure has the following members:

@table @code
@item gpgme_key_sig_t next
This is a pointer to the next tofu info structure in the linked
list, or @code{NULL} if this is the last element.

@item unsigned int validity : 3
This is the TOFU validity. It can have the following values:

@item 0
The value @code{0} indicates a conflict.
@item 1
The value @code{1} indicates a key without history.

@item 2
The value @code{2} indicates a key with too little history.

@item 3
The value @code{3} indicates a key with enough history for basic trust.

@item 4
The value @code{4} indicates a key with a lot of history.

@end table

@item unsigned int policy : 4
This is the TOFU policy, see @code{gpgme_tofu_policy_t}.

@item unsigned short signcount
This is the number of signatures seen for this binding (or @code{USHRT_MAX} if there are more than that).

@item unsigned short encrcount
This is the number of encryptions done with this binding (or @code{USHRT_MAX} if there are more than that).

@item unsigned long signfirst
Number of seconds since Epoch when the first signature was seen with this binding.

@item unsigned long signlast
Number of seconds since Epoch when the last signature was seen with this binding.

@item unsigned long encrfirst
Number of seconds since Epoch when the first encryption was done with this binding.

@item unsigned long encrlast
Number of seconds since Epoch when the last encryption was done with this binding.

@item char *description
A human-readable string summarizing the TOFU data (or NULL).

@end table
@end deftp
The `gpgme_key_sig_t` type is a pointer to a key signature structure. Key signatures are one component of a `gpgme_key_t` object, and validate user IDs on the key in the OpenPGP protocol.

The signatures on a key are only available if the key was retrieved via a listing operation with the `GPGME_KEYLIST_MODE_SIGS` mode enabled, because it can be expensive to retrieve all signatures of a key.

The signature notations on a key signature are only available if the key was retrieved via a listing operation with the `GPGME_KEYLIST_MODE_SIG_NOTATIONS` mode enabled, because it can be expensive to retrieve all signature notations.

The key signature structure has the following members:

```c
@table @code
@item gpgme_key_sig_t next
This is a pointer to the next key signature structure in the linked list, or @code{NULL} if this is the last element.

@item unsigned int revoked : 1
This is true if the key signature is a revocation signature.

@item unsigned int expired : 1
This is true if the key signature is expired.

@item unsigned int invalid : 1
This is true if the key signature is invalid.

@item unsigned int exportable : 1
This is true if the key signature is exportable.

@item gpgme_pubkey_algo_t pubkey_algo
This is the public key algorithm used to create the signature.

@item char *keyid
This is the key ID of the key (in hexadecimal digits) used to create the signature.

@item long int timestamp
This is the creation timestamp of the key signature. This is -1 if the timestamp is invalid, and 0 if it is not available.

@item long int expires
```
This is the expiration timestamp of the key signature, or 0 if the key
signature does not expire.

@item gpgme_error_t status
This is the status of the signature and has the same meaning as the
member of the same name in a @code{gpgme_signature_t} object.

@item unsigned int sig_class
This specifies the signature class of the key signature. The meaning
is specific to the crypto engine.

@item char *uid
This is the main user ID of the key used to create the signature.

@item char *name
This is the name component of @code{uid}, if available.

@item char *comment
This is the comment component of @code{uid}, if available.

@item char *email
This is the email component of @code{uid}, if available.

@item gpgme_sig_notation_t notations
This is a linked list with the notation data and policy URLs.
@end table
@end deftp

@node Listing Keys
@subsection Listing Keys
@cindex listing keys
@cindex key listing
@cindex key listing, start
@cindex key ring, list
@cindex key ring, search

@deftypefun gpgme_error_t gpgme_op_keylist_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}}, @w{int @var{secret_only}})
The function @code{gpgme_op_keylist_start} initiates a key listing
operation inside the context @var{ctx}. It sets everything up so that
subsequent invocations of @code{gpgme_op_keylist_next} return the keys
in the list.

If @var{pattern} is @code{NULL}, all available keys are returned.
Otherwise, @var{pattern} contains an engine specific expression that
is used to limit the list to all keys matching the pattern. Note that the total length of the pattern is restricted to an engine-specific maximum (a couple of hundred characters are usually accepted). The pattern should be used to restrict the search to a certain common name or user, not to list many specific keys at once by listing their fingerprints or key IDs.

If @var{secret_only} is not @code{0}, the list is restricted to secret keys only.

The context will be busy until either all keys are received (and @code{gpgme_op_keylist_next} returns @code{GPG_ERR_EOF}), or @code{gpgme_op_keylist_end} is called to finish the operation.

The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_keylist_ext_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}[]}, @w{int @var{secret_only}}, @w{int @var{reserved}})

The function @code{gpgme_op_keylist_ext_start} initiates an extended key listing operation inside the context @var{ctx}. It sets everything up so that subsequent invocations of @code{gpgme_op_keylist_next} return the keys in the list.

If @var{pattern} or @var{*pattern} is @code{NULL}, all available keys are returned. Otherwise, @var{pattern} is a @code{NULL} terminated array of strings that are used to limit the list to all keys matching at least one of the patterns verbatim. Note that the total length of all patterns is restricted to an engine-specific maximum (the exact limit also depends on the number of patterns and amount of quoting required, but a couple of hundred characters are usually accepted). Patterns should be used to restrict the search to a certain common name or user, not to list many specific keys at once by listing their fingerprints or key IDs.

If @var{secret_only} is not @code{0}, the list is restricted to secret keys only.

The value of @var{reserved} must be @code{0}.

The context will be busy until either all keys are received (and @code{gpgme_op_keylist_next} returns @code{GPG_ERR_EOF}), or @code{gpgme_op_keylist_end} is called to finish the operation.

The function returns the error code @code{GPG_ERR_INV_VALUE} if
@var{ctx} is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun {gpgme_error_t} gpgme_op_keylist_from_data_start (@
  @w{gpgme_ctx_t @var{ctx}}, @
  @w{gpgme_data_t @var{data}}, @
  @w{int @var{reserved}})

@end deftypefun

The function @code{gpgme_op_keylist_from_data_start} initiates a key listing operation inside the context @var{ctx}. In contrast to the other key listing operation the keys are read from the supplied @var{data} and not from the local key database. The keys are also not imported into the local key database. The function sets everything up so that subsequent invocations of @code{gpgme_op_keylist_next} return the keys from @var{data}.

The value of @var{reserved} must be @code{0}.

This function requires at least GnuPG version 2.1.14 and currently works only with OpenPGP keys.

The context will be busy until either all keys are received (and @code{gpgme_op_keylist_next} returns @code{GPG_ERR_EOF}), or @code{gpgme_op_keylist_end} is called to finish the operation. While the context is busy @var{data} may not be released.

The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun {gpgme_error_t} gpgme_op_keylist_next (@
  @w{gpgme_ctx_t @var{ctx}}, @
  @w{gpgme_key_t *@var{r_key}})

The function @code{gpgme_op_keylist_next} returns the next key in the list created by a previous @code{gpgme_op_keylist_start} operation in the context @var{ctx}. The key will have one reference for the user.
@end deftypefun

This is the only way to get at @code{gpgme_key_t} objects in @acronym{GPGME}.

If the last key in the list has already been returned,
@code{gpgme_op_keylist_next} returns @code{GPG_ERR_EOF}.
The function returns the error code \@code{GPG_ERR_INV_VALUE} if
\@var{ctx} or \@var{r_key} is not a valid pointer, and
\@code{GPG_ERR_ENOMEM} if there is not enough memory for the operation.
\@end deftypefun

@deftypefun gpgme_error_t gpgme_op_keylist_end (@w{gpgme_ctx_t @var{ctx}})

The function \@code{gpgme_op_keylist_end} ends a pending key list
operation in the context \@var{ctx}.

After the operation completed successfully, the result of the key
listing operation can be retrieved with
\@code{gpgme_op_keylist_result}.

The function returns the error code \@code{GPG_ERR_INV_VALUE} if
\@var{ctx} is not a valid pointer, and \@code{GPG_ERR_ENOMEM} if at some
time during the operation there was not enough memory available.
\@end deftypefun

The following example illustrates how all keys containing a certain
string \@code{g10code}) can be listed with their key ID and the name
and email address of the main user ID:

@example
    gpgme_ctx_t ctx;
gpgme_key_t key;
gpgme_error_t err = gpgme_new (&ctx); 
    @
if (!err) 
    @
        err = gpgme_op_keylist_start (ctx, "g10code", 0); 
    @
    while (!err) 
        @
        err = gpgme_op_keylist_next (ctx, &key); 
        @
        if (err) 
            break;
        printf("%s:", key->subkeys->keyid);
        if (key->uids && key->uids->name)
            printf(" %s", key->uids->name);
        if (key->uids && key->uids->email)
            printf(" <%s>", key->uids->email);
        putchar ("\n");
        gpgme_key_release (key); 
        @
    gpgme_release (ctx); 
    @
    if (gpg_err_code (err) != GPG_ERR_EOF) 
        @

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fprintf (stderr, "can not list keys: %s\n", gpgme_strerror (err));
exit (1);
@
@end example

@deftp {Data type} {gpgme_keylist_result_t}
This is a pointer to a structure used to store the result of a
@code{gpgme_op_keylist_*} operation. After successfully ending a key
listing operation, you can retrieve the pointer to the result with
@code{gpgme_op_keylist_result}. The structure contains the following
member:

@table @code
@item unsigned int truncated : 1
This is true if the crypto backend had to truncate the result, and
less than the desired keys could be listed.
@end table
@end deftp

@deftypefun gpgme_keylist_result_t gpgme_op_keylist_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_keylist_result} returns a
@code{gpgme_keylist_result_t} pointer to a structure holding the
result of a @code{gpgme_op_keylist_*} operation. The pointer is only
valid if the last operation on the context was a key listing
operation, and if this operation finished successfully. The returned
pointer is only valid until the next operation is started on the
context.
@end deftypefun

In a simple program, for which a blocking operation is acceptable, the
following function can be used to retrieve a single key.

@deftypefun gpgme_error_t gpgme_get_key (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{fpr}},
@w{gpgme_key_t *@var{r_key}}, @w{int @var{secret}})
The function @code{gpgme_get_key} gets the key with the fingerprint
(or key ID) @var{fpr} from the crypto backend and return it in
@var{r_key}. If @var{secret} is true, get the secret key. The
currently active keylist mode is used to retrieve the key. The key
will have one reference for the user.

If the key is not found in the keyring, @code{gpgme_get_key} returns
the error code @code{GPG_ERR_EOF} and *@var{r_key} will be set to
@code{NULL}.

The function returns the error code @code{GPG_ERR_INV_VALUE} if
@var{ctx} or @var{r_key} is not a valid pointer or @var{fpr} is not a
fingerprint or key ID, @code{GPG_ERR_AMBIGUOUS_NAME} if the key ID was
not a unique specifier for a key, and @code{GPG_ERR_ENOMEM} if at some
time during the operation there was not enough memory available.
@end deftypefun

@node Information About Keys
@subsection Information About Keys
@cindex key, information about
@cindex key, attributes
@cindex attributes, of a key

Please see the beginning of this section for more information about
@code{gpgme_key_t} objects.

@deftp {Data type} gpgme_validity_t
The @code{gpgme_validity_t} type is used to specify the validity of a user ID
in a key. The following validities are defined:

@table @code
@item GPGME_VALIDITY_UNKNOWN
The user ID is of unknown validity. The string representation of this
validity is ``?''.

@item GPGME_VALIDITY_UNDEFINED
The validity of the user ID is undefined. The string representation of this
validity is ``q''.

@item GPGME_VALIDITY_NEVER
The user ID is never valid. The string representation of this
validity is ``n''.

@item GPGME_VALIDITY_MARGINAL
The user ID is marginally valid. The string representation of this
validity is ``m''.

@item GPGME_VALIDITY_FULL
The user ID is fully valid. The string representation of this
validity is ``f''.

@item GPGME_VALIDITY_ULTIMATE
The user ID is ultimately valid. The string representation of this
validity is ``u''.
@end table
@end deftp

@node Manipulating Keys
@subsection Manipulating Keys
@cindex key, manipulation

@deftypefun void gpgme_key_ref (@w{gpgme_key_t @var{key}})
The function @code{gpgme_key_ref} acquires an additional reference for the key @var{key}.
@end deftypefun

@deftypefun void gpgme_key_unref (@w{gpgme_key_t @var{key}})
The function @code{gpgme_key_unref} releases a reference for the key @var{key}. If this was the last reference, the key will be destroyed and all resources associated to it will be released.
@end deftypefun

@node Generating Keys
@subsection Generating Keys
@cindex key, creation
@cindex key ring, add

GPGME provides a set of functions to create public key pairs. Most of these functions require the use of GnuPG 2.1 and later; for older GnuPG versions the @code{gpgme_op_genkey} function can be used. Existing code which wants to update to the new functions or new code which shall supports older GnuPG versions may try the new functions first and provide a fallback to the old function if the error code @code{GPG_ERR_NOT_SUPPORTED} is received.

@c
c@c gpgme_op_createkey
c@c
@deftypefun gpgme_error_t gpgme_op_createkey (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{userid}}, @w{const char *@var{algo}}, @w{unsigned long @var{reserved}}, @w{unsigned long @var{expires}}, @w{gpgme_key_t @var{extrakey}}, @w{unsigned int @var{flags}}); @since{1.7.0}

The function @code{gpgme_op_createkey} generates a new key for the protocol active in the context @var{ctx}. As of now this function does only work for OpenPGP and requires at least version 2.1.13 of GnuPG.

@var{userid} is commonly the mail address associated with the key.
GPGME does not require a specific syntax but if more than a mail address is given, RFC-822 style format is suggested. The value is expected to be in UTF-8 encoding (i.e. no IDN encoding for mail addresses). This is a required parameter.

@var{algo} specifies the algorithm for the new key (actually a keypair of public and private key). For a list of supported algorithms, see the GnuPG manual. If @var{algo} is @code{NULL} or the string "default", the key is generated using the default algorithm of the engine. If the string "future-default" is used the engine may use an algorithm which is planned to be the default in a future release of the engine; however existing implementation of the protocol may not be able to already handle such future algorithms. For the OpenPGP protocol, the specification of a default algorithm, without requesting a non-default usage via @var{flags}, triggers the creation of a primary key plus a secondary key (subkey).

@var{reserved} must be set to zero.

@var{expires} specifies the expiration time in seconds. If you supply 0, a reasonable expiration time is chosen. Use the flag @code{GPGME_CREATE_NOEXPIRE} to create keys that do not expire. Note that this parameter takes an unsigned long value and not a @code{time_t} to avoid problems on systems which use a signed 32 bit values for timestamps and thus can only encode dates up to the year 2106.

@var{extrakey} is currently not used and must be set to @code{NULL}. A future version of GPGME may use this parameter to create X.509 keys.

@var{flags} can be set to the bit-wise OR of the following flags:

@table @code
@item GPGME_CREATE_SIGN
@itemx GPGME_CREATE_ENCR
@itemx GPGME_CREATE_CERT
@itemx GPGME_CREATE_AUTH
@since{1.7.0}
@end{table}

Do not create the key with the default capabilities (key usage) of the requested algorithm but use those explicitly given by these flags: "signing", "encryption", "certification", or "authentication". The allowed combinations depend on the algorithm.

If any of these flags are set and a default algorithm has been selected only one key is created in the case of the OpenPGP protocol.
@item GPGME_CREATE_NOPASSWD
@since{1.7.0}

Request generation of the key without password protection.

@item GPGME_CREATE_SELF_SIGNED
@since{1.7.0}

For an X.509 key do not create a CSR but a self-signed certificate.
This has not yet been implemented.

@item GPGME_CREATE_NOSTORE
@since{1.7.0}

Do not store the created key in the local key database.
This has not yet been implemented.

@item GPGME_CREATE_WANT_PUB
@itemx GPGME_CREATE_WANT_SEC
@since{1.7.0}

Return the public or secret key as part of the result structure.
This has not yet been implemented.

@item GPGME_CREATE_FORCE
@since{1.7.0}

The engine does not allow the creation of a key with a user ID already existing in the local key database. This flag can be used to override this check.

@item GPGME_CREATE_NO_EXPIRE
@since{1.8.0}

Request generation of keys that do not expire.

@end table

After the operation completed successfully, information about the created key can be retrieved with @code{gpgme_op_genkey_result}.

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if the engine does not support the command, or a bunch of other error codes.

@end deftypefun
The function `gpgme_op_createkey_start` initiates a `gpgme_op_createkey` operation; see there for details. It must be completed by calling `gpgme_wait` on the context.

The function `gpgme_op_createkey_start` initiates a `gpgme_op_createkey` operation; see there for details. It must be completed by calling `gpgme_wait` on the context.

The function `gpgme_op_createkey_start` initiates a `gpgme_op_createkey` operation; see there for details. It must be completed by calling `gpgme_wait` on the context.

The function `gpgme_op_createkey_start` initiates a `gpgme_op_createkey` operation; see there for details. It must be completed by calling `gpgme_wait` on the context.

The function `gpgme_op_createkey_start` initiates a `gpgme_op_createkey` operation; see there for details. It must be completed by calling `gpgme_wait` on the context.
able to already handle such future algorithms.

@var{reserved} must be set to zero.

@var{expires} specifies the expiration time in seconds. If you supply 0, a reasonable expiration time is chosen. Use the flag @code{GPGME_CREATE_NOEXPIRE} to create keys that do not expire. Note that this parameter takes an unsigned long value and not a @code{time_t}. Use the flag @code{GPGME_CREATE_NOEXPIRE} to create keys that do not expire. Note further that the OpenPGP protocol uses 32 bit values for timestamps and thus can only encode dates up to the year 2106.

@var{flags} takes the same values as described above for @code{gpgme_op_createkey}.

After the operation completed successfully, information about the created key can be retrieved with @code{gpgme_op_genkey_result}.

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if the engine does not support the command, or a bunch of other error codes.

@end deftypefun

@gpgme_error_t gpgme_op_adduid @

The function @code{gpgme_op_adduid} initiates a @code{gpgme_op_adduid} operation; see there for details. It must be completed by calling @code{gpgme_wait} on the context.
@xref{Waiting For Completion}.

@end deftypefun
The function `gpgme_op_adduid` adds a new user ID to the OpenPGP key given by `key`. Adding additional user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context `ctx` must be set to OpenPGP. As of now this function requires at least version 2.1.13 of GnuPG.

`key` specifies the key to operate on.

`userid` is the user ID to add to the key. A user ID is commonly the mail address to be associated with the key. GPGME does not require a specific syntax but if more than a mail address is given, RFC-822 style format is suggested. The value is expected to be in UTF-8 encoding (i.e. no IDN encoding for mail addresses). This is a required parameter.

`flags` are currently not used and must be set to zero.

The function returns zero on success, `GPG_ERR_NOT_SUPPORTED` if the engine does not support the command, or a bunch of other error codes.

The function `gpgme_op_adduid_start` initiates a `gpgme_op_adduid` operation; see there for details. It must be completed by calling `gpgme_wait` on the context.

The function `gpgme_op_revuid`
The function `gpgme_op_revuid` revokes a user ID from the OpenPGP key given by `KEY`. Revoking user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context `ctx` must be set to OpenPGP. As of now this function requires at least version 2.1.13 of GnuPG.

`key` specifies the key to operate on.

`userid` is the user ID to be revoked from the key. The user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the `uid` field from the user ID object (`gpgme_user_id_t`) is to be used. This is a required parameter.

`flags` are currently not used and must be set to zero.

Note that the engine won't allow to revoke the last valid user ID. To change a user ID is better to first add the new user ID, then revoke the old one, and finally publish the key.

The function returns zero on success, `GPG_ERR_NOT_SUPPORTED` if the engine does not support the command, or a bunch of other error codes.

The function `gpgme_op_revuid_start` initiates a `gpgme_op_revuid` operation; see there for details. It must be completed by calling `gpgme_wait` on the context. See [Waiting For Completion](#).
@c
@c  gpgme_op_set_uid_flag
@c
@deftypefun gpgme_error_t gpgme_op_set_uid_flag (@
    @w{gpgme_ctx_t @var{ctx}}, @
    @w{gpgme_key_t @var{key}}, @
    @w{const char *@var{userid}}, @
    @w{cons char * @var{name}}, @
    @w{cons char * @var{value}}); @

@since{1.8.0}

The function @code{gpgme_op_set_uid_flag} is used to set flags on a
user ID from the OpenPGP key given by @var{KEY}. Setting flags on
user IDs after key creation is a feature of the OpenPGP protocol and
thus the protocol for the context @var{ctx} must be set to OpenPGP.

@var{key} specifies the key to operate on. This parameters is required.

@var{userid} is the user ID of the key to be manipulated. This user ID
must be given verbatim because the engine does an exact and case
sensitive match. Thus the @code{uid} field from the user ID object
(@code{gpgme_user_id_t}) is to be used. This is a required parameter.

@var{name} names the flag which is to be changed. The only currently
supported flag is:

@table @code
@item primary
This sets the primary key flag on the given user ID. All other
primary key flag on other user IDs are removed. @var{value} must be
given as NULL. For technical reasons this functions bumps the
creation timestamp of all affected self-signatures up by one second.
At least GnuPG version 2.1.20 is required.
@end table

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if
the engine does not support the command, or a bunch of other error
codes.

@end deftypefun

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_set_uid_flag_start (@
    @w{gpgme_ctx_t @var{ctx}}, @
    @w{gpgme_key_t @var{key}}); @
The function `gpgme_op_set_uid_flag_start` initiates a `gpgme_op_set_uid_flag` operation; see there for details. It must be completed by calling `gpgme_wait` on the context. @xref{Waiting For Completion}.

The function `gpgme_op_genkey` generates a new key pair in the context `@var{ctx}`. The meaning of `@var{public}` and `@var{secret}` depends on the crypto backend.

GPG does not support `@var{public}` and `@var{secret}`, they should be `NULL`. GnuPG will generate a key pair and add it to the standard key ring. The fingerprint of the generated key is available with `gpgme_op_genkey_result`.

GpgSM requires `@var{public}` to be a writable data object. GpgSM will generate a secret key (which will be stored by `gpg-agent`), and return a certificate request in `@var{public}`, which then needs to be signed by the certification authority and imported before it can be used. GpgSM does not make the fingerprint available.

The argument `@var{parms}` specifies parameters for the key in an string that looks something like XML. The details about the format of `@var{parms}` are specific to the crypto engine used by `@var{ctx}`. The first line of the parameters must be `<GnupgKeyParams format="internal">` and the last line must be `</GnupgKeyParams>`. Every line in between the first and last lines is treated as a Header: Value pair. In particular, no XML escaping is necessary if you need to include the characters `<`, `>`, or `&`.

Here is an example for GnuPG as the crypto engine (all parameters of...
OpenPGP key generation are documented in the GPG manual):

\@example
< GnupgKeyParms format="internal">
  Key-Type: default
  Subkey-Type: default
  Name-Real: Joe Tester
  Name-Comment: with stupid passphrase
  Name-Email: joe@@foo.bar
  Expire-Date: 0
  Passphrase: abc
</GnupgKeyParms>
@end example

Here is an example for GpgSM as the crypto engine (all parameters of OpenPGP key generation are documented in the GPGSM manual):

\@example
< GnupgKeyParms format="internal">
  Key-Type: RSA
  Key-Length: 1024
  Name-DN: C=de,O=g10 code,OU=Testlab,CN=Joe 2 Tester
  Name-Email: joe@@foo.bar
</GnupgKeyParms>
@end example

Strings should be given in UTF-8 encoding. The only format supported for now is "internal". The content of the `GnupgKeyParms` container is passed verbatim to the crypto backend. Control statements are not allowed.

After the operation completed successfully, the result can be retrieved with `gpgme_op_genkey_result`.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, `GPG_ERR_INV_VALUE` if \@var{parms} is not a well-formed string (e.g. does not have the expected tag-like headers and footers), `GPG_ERR_NOT_SUPPORTED` if \@var{public} or \@var{secret} is not valid, and `GPG_ERR_GENERAL` if no key was created by the backend.

@deftypefun

@deftypefun {gpgme_error_t} gpgme_op_genkey_start (@w{gpgme_ctx_t \@var{ctx}}, @w{const char \*\@var{parms}}, @w{gpgme_data_t \@var{public}}, @w{gpgme_data_t \@var{secret}})

The function `gpgme_op_genkey_start` initiates a `gpgme_op_genkey` operation. It can be completed by calling `gpgme_wait` on the context. @xref{Waiting For Completion}.
The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, `GPG_ERR_INV_VALUE` if `parms` is not a valid XML string, and `GPG_ERR_NOT_SUPPORTED` if `public` or `secret` is not `NULL`.

@end deftypefun

@c
c gpgme_op_genkey_result
c
@deftp {Data type} {gpgme_genkey_result_t}

This is a pointer to a structure used to store the result of a `gpgme_op_genkey` operation. After successfully generating a key, you can retrieve the pointer to the result with `gpgme_op_genkey_result`. The structure contains the following members:

@table @code
@item unsigned int primary : 1
This flag is set to 1 if a primary key was created and to 0 if not.

@item unsigned int sub : 1
This flag is set to 1 if a subkey was created and to 0 if not.

@item unsigned int uid : 1
This flag is set to 1 if a user ID was created and to 0 if not.

@item char *fpr
This is the fingerprint of the key that was created. If both a primary and a subkey were generated, the fingerprint of the primary key will be returned. If the crypto engine does not provide the fingerprint, `fpr` will be a null pointer.

@item gpgme_data_t pubkey @since{1.7.0}
This will eventually be used to return the public key. It is currently not used.

@item gpgme_data_t seckey @since{1.7.0}
This will eventually be used to return the secret key. It is currently not used.
The function `gpgme_op_genkey_result` returns a `gpgme_genkey_result_t` pointer to a structure holding the result of a `gpgme_op_genkey` operation. The pointer is only valid if the last operation on the context was a `gpgme_op_genkey` or `gpgme_op_genkey_start` operation, and if this operation finished successfully. The returned pointer is only valid until the next operation is started on the context.

Key signatures are a unique concept of the OpenPGP protocol. They can be used to certify the validity of a key and are used to create the Web-of-Trust (WoT). Instead of using the `gpgme_op_interact` function along with a finite state machine, GPGME provides a convenient function to create key signatures when using modern GnuPG versions.

The function `gpgme_op_keysign` adds a new key signature to the public key `KEY`. This function requires at least version 2.1.12 of GnuPG.
@var{CTX} is the usual context which describes the protocol to use (which must be OpenPGP) and has also the list of signer keys to be used for the signature. The common case is to use the default key for signing other keys. If another key or more than one key shall be used for a key signature, @code{gpgme_signers_add} can be used.  
@xref{Selecting Signers}.

@var{key} specifies the key to operate on.

@var{userid} selects the user ID or user IDs to be signed. If @var{userid} is set to @code{NULL} all valid user IDs are signed. The user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the @code{uid} field from the user ID object (@code{gpgme_user_id_t}) is to be used. To select more than one user ID put them all into one string separated by linefeeds characters (@code{'\n'}) and set the flag @code{GPGME_KEYSIGN_LFSEP}.

@var{expires} specifies the expiration time of the new signature in seconds. The common case is to use 0 to not set an expiration date. However, if the configuration of the engine defines a default expiration for key signatures, that is still used unless the flag @code{GPGME_KEYSIGN_NOEXPIRE} is used. Note that this parameter takes an unsigned long value and not a @code{time_t} to avoid problems on systems which use a signed 32 bit @code{time_t}. Note further that the OpenPGP protocol uses 32 bit values for timestamps and thus can only encode dates up to the year 2106.

@var{flags} can be set to the bit-wise OR of the following flags:

@table @code
@item GPGME_KEYSIGN_LOCAL
@since{1.7.0}
Instead of creating an exportable key signature, create a key signature which is is marked as non-exportable.

@item GPGME_KEYSIGN_LFSEP
@since{1.7.0}
Although linefeeds are uncommon in user IDs this flag is required to explicitly declare that @var{userid} may contain several linefeed separated user IDs.

@item GPGME_KEYSIGN_NOEXPIRE
Force the creation of a key signature without an expiration date. This overrides @var{expire} and any local configuration of the engine.
@end table
The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if the engine does not support the command, or a bunch of other error codes.

@end deftypefun

@end deftypefun gpgme_error_t gpgme_op_keysign_start @
   (@w{gpgme_ctx_t @var{ctx}}, @
   @w{gpgme_key_t @var{key}}, @
   @w{const char *@var{userid}}, @
   @w{unsigned long @var{expires}}, @
   @w{unsigned int @var{flags}});

@s{ince}{1.7.0}

The function @code{gpgme_op_keysign_start} initiates a @code{gpgme_op_keysign} operation; see there for details. It must be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

@end deftypefun

@c
@c EXPORTING KEYS
@c
@node Exporting Keys
@subsection Exporting Keys
@cindex key, export
@cindex key ring, export from

Exporting keys means the same as running @command{gpg} with the command @option{--export}. However, a mode flag can be used to change the way the export works. The available mode flags are described below, they may be or-ed together.

@table @code
@item GPGME_EXPORT_MODE_EXTERN
If this bit is set, the output is send directly to the default keyserver. This is currently only allowed for OpenPGP keys. It is good practise to not send more than a few dozens key to a keyserver at one time. Using this flag requires that the @var{keydata} argument of the export function is set to @code{NULL}.

@item GPGME_EXPORT_MODE_MINIMAL
If this bit is set, the smallest possible key is exported. For OpenPGP keys it removes all signatures except for the latest self-signatures. For X.509 keys it has no effect.

- **GPGME_EXPORT_MODE_SECRET**  
  Since 1.6.0

  Instead of exporting the public key, the secret key is exported. This may not be combined with `GPGME_EXPORT_MODE_EXTERN`. For X.509 the export format is PKCS#8.

- **GPGME_EXPORT_MODE_RAW**  
  Since 1.6.0

  If this flag is used with `GPGME_EXPORT_MODE_SECRET` for an X.509 key the export format will be changed to PKCS#1. This flag may not be used with OpenPGP.

- **GPGME_EXPORT_MODE_PKCS12**  
  Since 1.6.0

  If this flag is used with `GPGME_EXPORT_MODE_SECRET` for an X.509 key the export format will be changed to PKCS#12 which also includes the certificate. This flag may not be used with OpenPGP.

- **GPGME_EXPORT_MODE_NOUID**  
  Since 1.12.0 - experimental

  Do not export user ids. Works only with certain gpg version.

@deftypefun gpgme_error_t gpgme_op_export (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}}, @w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})  
The function `gpgme_op_export` extracts public keys and returns them in the data buffer `@var{keydata}`. The output format of the key data returned is determined by the `ASCII` armor attribute set for the context `@var{ctx}`, or, if that is not set, by the encoding specified for `@var{keydata}`.

If `@var{pattern}` is `NULL`, all available keys are returned. Otherwise, `@var{pattern}` contains an engine specific expression that is used to limit the list to all keys matching the pattern.
@var{mode} is usually 0; other values are described above.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation completed successfully, @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid empty data buffer, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_export_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}}, @w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
The function @code{gpgme_op_export_start} initiates a @code{gpgme_op_export} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, and @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid empty data buffer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_export_ext (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}[]}, @w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
The function @code{gpgme_op_export_ext} extracts public keys and returns them in the data buffer @var{keydata}. The output format of the key data returned is determined by the @acronym{ASCII} armor attribute set for the context @var{ctx}, or, if that is not set, by the encoding specified for @var{keydata}.

If @var{pattern} or @var{*pattern} is @code{NULL}, all available keys are returned. Otherwise, @var{pattern} is a @code{NULL} terminated array of strings that are used to limit the list to all keys matching at least one of the patterns verbatim.

@var{mode} is usually 0; other values are described above.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation completed successfully, @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid empty data buffer, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_export_ext_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}[]}, @w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
The function @code{gpgme_op_export_ext_start} initiates a @code{gpgme_op_export_ext} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, and @code{GPG_ERR_INV_VALUE}
if @var{keydata} is not a valid empty data buffer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_export_keys (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t keys[]}@w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
@since{1.2.0}

The function @code{gpgme_op_export_keys} extracts public keys and returns
them in the data buffer @var{keydata}. The output format of the key
data returned is determined by the @acro{ASCII} armor attribute set
for the context @var{ctx}, or, if that is not set, by the encoding
specified for @var{keydata}.

The keys to export are taken form the @code{NULL} terminated array
@var{keys}. Only keys of the currently selected protocol of
@var{ctx} which do have a fingerprint set are considered for export.
Other keys specified by the @var{keys} are ignored. In particular
OpenPGP keys retrieved via an external key listing are not included.

@var{mode} is usually 0; other values are described above.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
operation completed successfully, @code{GPG_ERR_INV_VALUE} if
@var{keydata} is not a valid empty data buffer, @code{GPG_ERR_NO_DATA}
if no useful keys are in @var{keys} and passes through any errors that
are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_export_keys_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t keys[]}@w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
@since{1.2.0}

The function @code{gpgme_op_export_keys_start} initiates a
@code{gpgme_op_export_ext} operation. It can be completed by calling
@code{gpgme_wait} on the context.  @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
operation could be started successfully, and @code{GPG_ERR_INV_VALUE}
if @var{keydata} is not a valid empty data buffer, @code{GPG_ERR_NO_DATA}
if no useful keys are in @var{keys} and passes through any errors that
are reported by the crypto engine support routines.
@end deftypefun

@node Importing Keys
@subsection Importing Keys
@cindex key, import

if @var{keydata} is not a valid empty data buffer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_import_keys (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t keys[]}@w{gpgme_data_t @var{keydata}})
@since{1.2.0}

The function @code{gpgme_op_import_keys} imports keys into the secure
storage of the context @var{ctx}. The output format of the key
data returned is determined by the @acro{ASCII} armor attribute set
for the context @var{ctx}, or, if that is not set, by the encoding
specified for @var{keydata}.

The keys to import are taken form the @code{NULL} terminated array
@var{keys}. Only keys of the currently selected protocol of
@var{ctx} which do have a fingerprint set are considered for import.
Other keys specified by the @var{keys} are ignored. In particular
OpenPGP keys retrieved via an external key listing are not included.

@var{mode} is usually 0; other values are described above.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
operation completed successfully, @code{GPG_ERR_INV_VALUE} if
@var{keydata} is not a valid empty data buffer, @code{GPG_ERR_NO_DATA}
if no useful keys are in @var{keys} and passes through any errors that
are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_import_keys_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t keys[]}@w{gpgme_data_t @var{keydata}})
@since{1.2.0}

The function @code{gpgme_op_import_keys_start} initiates a
@code{gpgme_op_import_ext} operation. It can be completed by calling
@code{gpgme_wait} on the context.  @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
operation could be started successfully, and @code{GPG_ERR_INV_VALUE}
if @var{keydata} is not a valid empty data buffer, @code{GPG_ERR_NO_DATA}
if no useful keys are in @var{keys} and passes through any errors that
are reported by the crypto engine support routines.
@end deftypefun

@node Importing Keys
@subsection Importing Keys
@cindex key, import

if @var{keydata} is not a valid empty data buffer.
@end deftypefun
Importing keys means the same as running `gpg` with the command `@option{--import}`.

The function `gpgme_op_import` adds the keys in the data buffer `@var{keydata}` to the key ring of the crypto engine used by `@var{ctx}`. The format of `@var{keydata}` can be `ASCII` armored, for example, but the details are specific to the crypto engine.

After the operation completed successfully, the result can be retrieved with `gpgme_op_import_result`. The function returns the error code `GPG_ERR_NO_ERROR` if the import was completed successfully, `GPG_ERR_INV_VALUE` if `@var{keydata}` is not a valid pointer, and `GPG_ERR_NO_DATA` if `@var{keydata}` is an empty data buffer.

The function `gpgme_op_import_start` initiates a `gpgme_op_import` operation. It can be completed by calling `gpgme_wait` on the context. The function returns the error code `GPG_ERR_NO_ERROR` if the import could be started successfully, `GPG_ERR_INV_VALUE` if `@var{ctx}` or `@var{keydata}` is not a valid pointer, and `GPG_ERR_NO_DATA` if `@var{keydata}` is an empty data buffer.

The function `gpgme_op_import_keys` adds the keys described by the `NULL` terminated array `@var{keys}` to the key ring of the crypto engine used by `@var{ctx}`. It is used to actually import and make keys permanent which have been retrieved from an external source (i.e. using `GPGME_KEYLIST_MODE_EXTERN`) earlier. The external keylisting must have been made with the same context configuration (in particular the same home directory). Note that for OpenPGP this may require another access to the keys server over the network.
Only keys of the currently selected protocol of @var{ctx} are considered for import. Other keys specified by the @var{keys} are ignored. As of now all considered keys must have been retrieved using the same method, i.e. the used key listing mode must be identical.

After the operation completed successfully, the result can be retrieved with @code{gpgme_op_import_result}.

To move keys from one home directory to another, export and import the keydata using @code{gpgme_op_export} and @code{gpgme_op_import}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the import was completed successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, @code{GPG_ERR_CONFLICT} if the key listing mode does not match, and @code{GPG_ERR_NO_DATA} if no keys are considered for export.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_import_keys_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t *@var{keys}})
@since{1.2.0}

The function @code{gpgme_op_import_keys_start} initiates a @code{gpgme_op_import_keys} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the import was completed successfully, @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid pointer, @code{GPG_ERR_CONFLICT} if the key listing mode does not match, and @code{GPG_ERR_NO_DATA} if no keys are considered for export.

@end deftypefun

@deftp {Data type} {gpgme_import_status_t}

This is a pointer to a structure used to store a part of the result of a @code{gpgme_op_import} operation. For each considered key one status is added that contains information about the result of the import. The structure contains the following members:

@table @code
@item gpgme_import_status_t next
This is a pointer to the next status structure in the linked list, or @code{NULL} if this is the last element.

@item char *fpr
This is the fingerprint of the key that was considered.
@item gpgme_error_t result
If the import was not successful, this is the error value that caused the import to fail. Otherwise the error code is @code{GPG_ERR_NO_ERROR}.

@item unsigned int status
This is a bit-wise OR of the following flags that give more information about what part of the key was imported. If the key was already known, this might be 0.

@table @code
@item GPGME_IMPORT_NEW
The key was new.

@item GPGME_IMPORT_UID
The key contained new user IDs.

@item GPGME_IMPORT_SIG
The key contained new signatures.

@item GPGME_IMPORT_SUBKEY
The key contained new sub keys.

@item GPGME_IMPORT_SECRET
The key contained a secret key.
@end table
@end table
@end deftp

@deftp {Data type} {gpgme_import_result_t}
This is a pointer to a structure used to store the result of a @code{gpgme_op_import} operation. After a successful import operation, you can retrieve the pointer to the result with @code{gpgme_op_import_result}. The structure contains the following members:

@table @code
@item int considered
The total number of considered keys.

@item int no_user_id
The number of keys without user ID.

@item int imported
The total number of imported keys.

@item int imported_rsa
The number of imported RSA keys.
@item int unchanged
The number of unchanged keys.

@item int new_user_ids
The number of new user IDs.

@item int new_sub_keys
The number of new sub keys.

@item int new_signatures
The number of new signatures.

@item int new_revocations
The number of new revocations.

@item int secret_read
The total number of secret keys read.

@item int secret_imported
The number of imported secret keys.

@item int secret_unchanged
The number of unchanged secret keys.

@item int not_imported
The number of keys not imported.

@item gpgme_import_status_t imports
A list of gpgme_import_status_t objects which contain more information about the keys for which an import was attempted.

@item int skipped_v3_keys
For security reasons modern versions of GnuPG do not anymore support v3 keys (created with PGP 2.x) and ignores them on import. This counter provides the number of such skipped v3 keys.

@end table
@end deftp

@deftypefun gpgme_import_result_t gpgme_op_import_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_import_result} returns a @code{gpgme_import_result_t} pointer to a structure holding the result of a @code{gpgme_op_import} operation. The pointer is only valid if the last operation on the context was a @code{gpgme_op_import} or @code{gpgme_op_import_start} operation, and if this operation finished successfully. The returned pointer is only valid until the next operation is started on the context.
The function `gpgme_op_delete_ext` deletes the key `@var{key}` from
the key ring of the crypto engine used by `@var{ctx}`.

`@var{flags}` can be set to the bit-wise OR of the following flags:

@table @code
@item GPGME_DELETE_ALLOW_SECRET
@since{1.9.1}
If not set, only public keys are deleted. If set, secret keys are
deleted as well, if that is supported.

@item GPGME_DELETE_FORCE
@since{1.9.1}
If set, the user is not asked to confirm the deletion.
@end table

The function returns the error code `GPG_ERR_NO_ERROR` if the key
was deleted successfully, `GPG_ERR_INV_VALUE` if `@var{ctx}` or
`@var{key}` is not a valid pointer, `GPG_ERR_NO_PUBKEY` if
`@var{key}` could not be found in the keyring,
`GPG_ERR_AMBIGUOUS_NAME` if the key was not specified
unambiguously, and `GPG_ERR_CONFLICT` if the secret key for
`@var{key}` is available, but `@var{allow_secret}` is zero.
@end deftypefun

The function `gpgme_op_delete_ext_start` initiates a
`gpgme_op_delete` operation. It can be completed by calling
`gpgme_wait` on the context. @xref{Waiting For Completion}.

The function returns the error code `GPG_ERR_NO_ERROR` if the
operation was started successfully, and `GPG_ERR_INV_VALUE` if
@var{ctx} or @var{key} is not a valid pointer.
@end deftypefun

The following functions allow only to use one particular flag.

@deftypefun gpgme_error_t gpgme_op_delete (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{int @var{allow_secret}})
Similar to @code{gpgme_op_delete_ext}, but only the flag @code{GPGME_DELETE_ALLOW_SECRET} can be provided.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_delete_start (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{int @var{allow_secret}})
Similar to @code{gpgme_op_delete_ext_start}, but only the flag @code{GPGME_DELETE_ALLOW_SECRET} can be provided.
@end deftypefun

@node Changing Passphrases
@subsection Changing Passphrases
@cindex passphrase, change

@deftypefun gpgme_error_t gpgme_op_passwd (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{unsigned int @var{flags}})
@since{1.3.0}
The function @code{gpgme_op_passwd} changes the passphrase of the private key associated with @var{key}. The only allowed value for @var{flags} is @code{0}. The backend engine will usually popup a window to ask for the old and the new passphrase. Thus this function is not useful in a server application (where passphrases are not required anyway).

Note that old @code{gpg} engines (before version 2.0.15) do not support this command and will silently ignore it.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_passwd_start (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{unsigned int @var{flags}})
@since{1.3.0}
The function @code{gpgme_op_passwd_start} initiates a
The function returns \texttt{0} if the operation was started successfully, and an error code if one of the arguments is not valid or the operation could not be started.

To change the policy for a key the following functions can be used:

\begin{verbatim}
@deftypefun gpgme_error_t gpgme_op_tofu_policy (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{enum gpgme_tofu_policy_t @var{policy}})
@end deftypefun
\end{verbatim}
The function `gpgme_op_tofu_policy` changes the TOFU policy of `var{key}`. The valid values for `var{policy}` are listed above. As of now this function does only work for OpenPGP and requires at least version 2.1.10 of GnuPG.

The function returns zero on success, `GPG_ERR_NOT_SUPPORTED` if the engine does not support the command, or a bunch of other error codes.

The function @code{gpgme_op_tofu_policy_start} initiates a @code{gpgme_op_tofu_policy} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns @code{0} if the operation was started successfully, and an error code if one of the arguments is not valid or the operation could not be started.

The @code{gpgme_interact_cb_t} type is the type of functions which @acronym{GPGME} calls if it a key interact operation is on-going. The
status keyword @var{status} and the argument line @var{args} are passed through by @acronym{GPGME} from the crypto engine. An empty string represents EOF. The file descriptor @var{fd} is -1 for normal status messages. If @var{status} indicates a command rather than a status message, the response to the command should be written to @var{fd}. The @var{handle} is provided by the user at start of operation.

The function should return @code{GPG_ERR_FALSE} if it did not handle the status code, @code{0} for success, or any other error value.
@end deftp

@deftypefun gpgme_error_t gpgme_op_interact (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{key}}, @w{unsigned int @var{flags}}, @w{gpgme_interact_cb_t @var{fnc}}, @w{void *@var{handle}}, @w{gpgme_data_t @var{out}})
@end deftypefun

The function @code{gpgme_op_interact} processes the key @var{KEY} interactively, using the interact callback function @var{FNC} with the handle @var{HANDLE}. The callback is invoked for every status and command request from the crypto engine. The output of the crypto engine is written to the data object @var{out}.

Note that the protocol between the callback function and the crypto engine is specific to the crypto engine and no further support in implementing this protocol correctly is provided by @acronym{GPGME}.

@var{flags} modifies the behaviour of the function; the only defined bit value is:

@table @code
@item GPGME_INTERACT_CARD
@since{1.7.0}
@end table

This is used for smartcard based keys and uses gpgs @code{--card-edit} command.
@end table

The function returns @code{0} if the edit operation completes successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer, and any error returned by the crypto engine or the edit callback handler.
@end deftypefun
@deftypefun gpgme_error_t gpgme_op_interact_start (@w{gpgme_ctx_t @var{ctx}}, @
    @w{gpgme_key_t @var{key}}, @
    @w{unsigned int @var{flags}}, @
    @w{gpgme_interact_cb_t @var{fnc}}, @
    @w{void *@var{handle}}, @
    @w{gpgme_data_t @var{out}})

@since{1.7.0}

The function @code{gpgme_op_interact_start} initiates a
@code{gpgme_op_interact} operation. It can be completed by calling
@code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns @code{0} if the operation was started
successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key}
is not a valid pointer.
@end deftypefun

@node Trust Item Management
@section Trust Item Management
@cindex trust item

@strong{Caution:} The trust items interface is experimental.

@deftp {Data type} gpgme_trust_item_t
The @code{gpgme_trust_item_t} type is a pointer to a trust item object.
It has the following members:

@table @code
@item char *keyid
This is a string describing the key to which this trust items belongs.

@item int type
This is the type of the trust item. A value of 1 refers to a key, a
value of 2 refers to a user ID.

@item int level
This is the trust level.

@item char *owner_trust
The owner trust if @code{type} is 1.

@item char *validity
The calculated validity.
@item char *name
The user name if @code{type} is 2.
@end table
@end deftp

@section Index
@end menu

@node Listing Trust Items
@section Listing Trust Items
@cindex trust item list
@deftypefun gpgme_error_t gpgme_op_trustlist_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}}, @w{int @var{max_level}})
The function @code{gpgme_op_trustlist_start} initiates a trust item listing operation inside the context @var{ctx}. It sets everything up so that subsequent invocations of @code{gpgme_op_trustlist_next} return the trust items in the list.

The string @var{pattern} contains an engine specific expression that is used to limit the list to all trust items matching the pattern. It can not be the empty string.

The argument @var{max_level} is currently ignored.

The context will be busy until either all trust items are received (and @code{gpgme_op_trustlist_next} returns @code{GPG_ERR_EOF}), or @code{gpgme_op_trustlist_end} is called to finish the operation.

The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_trustlist_next (@w{gpgme_ctx_t @var{ctx}), @w{gpgme_trust_item_t *@var{r_item}})
The function @code{gpgme_op_trustlist_next} returns the next trust item in the list created by a previous @code{gpgme_op_trustlist_start} operation in the context @var{ctx}. The trust item can be destroyed with @code{gpgme_trust_item_release}. @xref{Manipulating Trust Items}.

This is the only way to get at @code{gpgme_trust_item_t} objects in @acronym{GPGME}.
If the last trust item in the list has already been returned, \texttt{gpgme_op_trustlist_next} returns \texttt{GPG\_ERR\_EOF}.

The function returns the error code \texttt{GPG\_ERR\_INV\_VALUE} if \var{ctx} or \var{r\_item} is not a valid pointer, and \texttt{GPG\_ERR\_ENOMEM} if there is not enough memory for the operation.

\end deftypefun

\deftypefun{gpgme\_error\_t}{gpgme\_op\_trustlist\_end\ (@w{gpgme\_ctx\_t @var{ctx}})}

The function \texttt{gpgme_op_trustlist_end} ends a pending trust list operation in the context \var{ctx}.

The function returns the error code \texttt{GPG\_ERR\_INV\_VALUE} if \var{ctx} is not a valid pointer, and \texttt{GPG\_ERR\_ENOMEM} if at some time during the operation there was not enough memory available.

\end deftypefun

\node{Manipulating Trust Items}
\subsection{Manipulating Trust Items}
\cindex\trust item, manipulation

\deftypefun{void}{gpgme\_trust\_item\_ref\ (@w{gpgme\_trust\_item\_t @var{item}})}

The function \texttt{gpgme_trust_item_ref} acquires an additional reference for the trust item \var{item}.

\end deftypefun

\deftypefun{void}{gpgme\_trust\_item\_unref\ (@w{gpgme\_trust\_item\_t @var{item}})}

The function \texttt{gpgme_trust_item_unref} releases a reference for the trust item \var{item}. If this was the last reference, the trust item will be destroyed and all resources associated to it will be released.

\end deftypefun

\node{Crypto Operations}
\section{Crypto Operations}
\cindex\cryptographic operation

Sometimes, the result of a crypto operation returns a list of invalid keys encountered in processing the request. The following structure is used to hold information about such a key.

\deftp{Data type}{gpgme\_invalid\_key\_t}

This is a pointer to a structure used to store a part of the result of a crypto operation which takes user IDs as one input parameter. The structure contains the following members:
This is a pointer to the next invalid key structure in the linked list, or `NULL` if this is the last element.

The fingerprint or key ID of the invalid key encountered.

An error code describing the reason why the key was found invalid.

The function returns the error code `GPG_ERR_NO_ERROR` if the ciphertext could be decrypted successfully, `GPG_ERR_INV_VALUE` if `var[ctx]`, `var[cipher]` or `var[plain]` is not a valid pointer, `GPG_ERR_NO_DATA` if `var[cipher]` does not contain any data to decrypt, `GPG_ERR_DECRYPT_FAILED` if `var[cipher]` is not a valid cipher text, `GPG_ERR_BAD_PASSPHRASE` if the passphrase for the secret key could not be retrieved, and passes through some errors that are reported by the crypto engine support routines.

The function initiates a `gpgme_op_decrypt` operation. It can be completed by calling

The function `gpgme_op_decrypt` decrypts the ciphertext in the data object `var[cipher]` and stores it into the data object `var[plain]`. The function returns the error code `GPG_ERR_NO_ERROR` if the ciphertext could be decrypted successfully, `GPG_ERR_INV_VALUE` if `var[ctx]`, `var[cipher]` or `var[plain]` is not a valid pointer, `GPG_ERR_NO_DATA` if `var[cipher]` does not contain any data to decrypt, `GPG_ERR_DECRYPT_FAILED` if `var[cipher]` is not a valid cipher text, `GPG_ERR_BAD_PASSPHRASE` if the passphrase for the secret key could not be retrieved, and passes through some errors that are reported by the crypto engine support routines.
@code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, and @code{GPG_ERR_INV_VALUE} if @var{cipher} or @var{plain} is not a valid pointer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_decrypt_ext ( @
   @w{gpgme_ctx_t @var{ctx}}, @
   @w{gpgme_decrypt_flags_t @var{flags}}, @
   @w{gpgme_data_t @var{cipher}}, @
   @w{gpgme_data_t @var{plain}})
@end deftypefun

@since{1.8.0}

The function @code{gpgme_op_decrypt_ext} is the same as @code{gpgme_op_decrypt} but has an additional argument @var{flags}. If @var{flags} is 0 both function behave identically.

The value in @var{flags} is a bitwise-or combination of one or multiple of the following bit values:

@table @code
@item GPGME_DECRYPT_VERIFY
@since{1.8.0}

The @code{GPGME_DECRYPT_VERIFY} symbol specifies that this function shall exactly act as @code{gpgme_op_decrypt_verify}.

@item GPGME_DECRYPT_UNWRAP
@since{1.8.0}

The @code{GPGME_DECRYPT_UNWRAP} symbol specifies that the output shall be an OpenPGP message with only the encryption layer removed. This requires GnuPG 2.1.12 and works only for OpenPGP. This is the counterpart to @code{GPGME_ENCRYPT_WRAP}.
@end table

The function returns the error codes as described for @code{gpgme_op_decrypt} respective @code{gpgme_op_encrypt}.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_decrypt_ext_start ( @
   @w{gpgme_ctx_t @var{ctx}}, @
   @w{gpgme_decrypt_flags_t @var{flags}}, @
   @w{gpgme_data_t @var{cipher}})
@end deftypefun
The function `gpgme_op_decrypt_ext_start` initiates a
`gpgme_op_decrypt_ext` operation. It can be completed by calling
`gpgme_wait` on the context. \[\text{Waiting For Completion}\].

The function returns the error code `GPG_ERR_NO_ERROR` if the
operation could be started successfully, and `GPG_ERR_INV_VALUE`
if \[\text{cipher}\] or \[\text{plain}\] is not a valid pointer.

This is a pointer to a structure used to store information about the
recipient of an encrypted text which is decrypted in a
`gpgme_op_decrypt` operation. This information (except for the
status field) is even available before the operation finished
successfully, for example in a passphrase callback. The structure
contains the following members:

- **next**: This is a pointer to the next recipient structure in the linked list,
or \[NULL\] if this is the last element.
- **pubkey_algo**: The public key algorithm used in the encryption.
- **keyid**: This is the key ID of the key (in hexadecimal digits) used as
recipient.
- **status**: This is an error number with the error code `GPG_ERR_NO_SECKEY` if the
secret key for this recipient is not available, and 0 otherwise.

This is a pointer to a structure used to store the result of a
`gpgme_op_decrypt` operation. After successfully decrypting
data, you can retrieve the pointer to the result with
`gpgme_op_decrypt_result`. As with all result structures, it
this structure shall be considered read-only and an application must
not allocate such a structure on its own. The structure contains the following members:

@table @code
@item char *unsupported_algorithm
If an unsupported algorithm was encountered, this string describes the algorithm that is not supported.

@item unsigned int wrong_key_usage : 1
@since{0.9.0}
This is true if the key was not used according to its policy.

@item unsigned int legacy_cipher_nomdc : 1
@since{1.11.2}
The message was made by a legacy algorithm without any integrity protection. This might be an old but legitimate message.

@item unsigned int is_mime : 1;
@since{1.11.0}
The message claims that the content is a MIME object.

@item unsigned int is_de_vs : 1;
@since{1.10.0}
The message was encrypted in a VS-NfD compliant way. This is a specification in Germany for a restricted communication level.

@item gpgme_recipient_t recipients
@since{1.1.0}
This is a linked list of recipients to which this message was encrypted.

@item char *file_name
This is the filename of the original plaintext message file if it is known, otherwise this is a null pointer.

@item char *session_key
@since{1.8.0}
A textual representation (nul-terminated string) of the session key used in symmetric encryption of the message, if the context has been set to export session keys (see @code{gpgme_set_ctx_flag, "export-session-key"}), and a session key was available for the most recent decryption operation. Otherwise, this is a null pointer.

You must not try to access this member of the struct unless @code{gpgme_set_ctx_flag (ctx, "export-session-key")} returns success or @code{gpgme_get_ctx_flag (ctx, "export-session-key")} returns true (non-empty string).
A string with the symmetric encryption algorithm and mode using the format "<algo>.<mode>". Note that the deprecated non-MDC encryption mode of OpenPGP is given as "PGPCFB".

The function `gpgme_decrypt_result` returns a pointer to a structure holding the result of a `gpgme_decrypt` operation. The pointer is only valid if the last operation on the context was a `gpgme_decrypt` or `gpgme_decrypt_start` operation. If the operation failed this might be a NULL pointer. The returned pointer is only valid until the next operation is started on the context.

The function `gpgme_op_verify` verifies that the signature in the data object `@var{sig}` is a valid signature. If `@var{sig}` is a detached signature, then the signed text should be provided in `@var{signed_text}` and `@var{plain}` should be a null pointer. Otherwise, if `@var{sig}` is a normal (or cleartext) signature, `@var{signed_text}` should be a null pointer and `@var{plain}` should be a writable data object that will contain the plaintext after successful verification.

The results of the individual signature verifications can be retrieved with `gpgme_op_verify_result`. The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be completed successfully, `GPG_ERR_INV_VALUE` if
@var{ctx}, @var{sig} or @var{plain} is not a valid pointer,
@code{GPG_ERR_NO_DATA} if @var{sig} does not contain any data to
verify, and passes through any errors that are reported by the crypto
engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_verify_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t
@var{sig}}, @w{gpgme_data_t @var{signed_text}}, @w{gpgme_data_t @var{plain}})
The function @code{gpgme_op_verify_start} initiates a
@code{gpgme_op_verify} operation. It can be completed by calling
@code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
operation could be started successfully, @code{GPG_ERR_INV_VALUE} if
@var{ctx}, @var{sig} or @var{plain} is not a valid pointer, and
@code{GPG_ERR_NO_DATA} if @var{sig} or @var{plain} does not contain
any data to verify.
@end deftypefun

@deftp {Data type} {gpgme_sig_notation_t}
This is a pointer to a structure used to store a part of the result of
a @code{gpgme_op_verify} operation. The structure contains the
following members:

@table @code
@item gpgme_sig_notation_t next
This is a pointer to the next new signature notation structure in the
linked list, or @code{NULL} if this is the last element.

@item char *name
The name of the notation field. If this is @code{NULL}, then the
member @code{value} will contain a policy URL.

@item int name_len
The length of the @code{name} field. For strings the length is
counted without the trailing binary zero.

@item char *value
The value of the notation field. If @code{name} is @code{NULL}, then
this is a policy URL.

@item int value_len
The length of the @code{value} field. For strings the length is
counted without the trailing binary zero.

@item gpgme_sig_notation_flags_t flags
The accumulated flags field. This field contains the flags associated
with the notation data in an accumulated form which can be used as an
argument to the function `gpgme_sig_notation_add`. The value `flags` is a bitwise-or combination of one or multiple of the following bit values:

@table @code
@item GPGME_SIG_NOTATION_HUMAN_READABLE
@since{1.1.0}

The `GPGME_SIG_NOTATION_HUMAN_READABLE` symbol specifies that the notation data is in human readable form.

@item GPGME_SIG_NOTATION_CRITICAL
@since{1.1.0}

The `GPGME_SIG_NOTATION_CRITICAL` symbol specifies that the notation data is critical.

@end table

@item unsigned int human_readable : 1
This is true if the `GPGME_SIG_NOTATION_HUMAN_READABLE` flag is set and false otherwise. This flag is only valid for notation data, not for policy URLs.

@item unsigned int critical : 1
This is true if the `GPGME_SIG_NOTATION_CRITICAL` flag is set and false otherwise. This flag is valid for notation data and policy URLs.

@end table
@end deftp

@deftp {Data type} {gpgme_signature_t}
This is a pointer to a structure used to store a part of the result of a `gpgme_op_verify` operation. The structure contains the following members:

@table @code
@item gpgme_signature_t next
This is a pointer to the next new signature structure in the linked list, or `NULL` if this is the last element.

@item gpgme_sigsum_t summary
This is a bit vector giving a summary of the signature status. It provides an easy interface to a defined semantic of the signature status. Checking just one bit is sufficient to see whether a signature is valid without any restrictions. This means that you can check for `GPGME_SIGSUM_VALID` like this:
if ((sig.summary & GPGME_SIGSUM_VALID))
{
..do stuff if valid..
}
else
{
..do stuff if not fully valid..
}
@end example

The defined bits are:
@table code
@item GPGME_SIGSUM_VALID
The signature is fully valid.

@item GPGME_SIGSUM_GREEN
The signature is good but one might want to display some extra information. Check the other bits.

@item GPGME_SIGSUM_RED
The signature is bad. It might be useful to check other bits and display more information, i.e. a revoked certificate might not render a signature invalid when the message was received prior to the cause for the revocation.

@item GPGME_SIGSUM_KEY_REVOKED
The key or at least one certificate has been revoked.

@item GPGME_SIGSUM_KEY_EXPIRED
The key or one of the certificates has expired. It is probably a good idea to display the date of the expiration.

@item GPGME_SIGSUM_SIG_EXPIRED
The signature has expired.

@item GPGME_SIGSUM_KEY_MISSING
Can't verify due to a missing key or certificate.

@item GPGME_SIGSUM_CRL_MISSING
The CRL (or an equivalent mechanism) is not available.

@item GPGME_SIGSUM_CRL_TOO_OLD
Available CRL is too old.

@item GPGME_SIGSUM_BAD_POLICY
A policy requirement was not met.
@item **GPGME_SIGSUM_SYS_ERROR**
A system error occurred.

@item **GPGME_SIGSUM_TOFU_CONFLICT**
A TOFU conflict was detected.
@end table

@item char *fpr
This is the fingerprint or key ID of the signature.

@item gpgme_error_t status
This is the status of the signature. In particular, the following status codes are of interest:

@table @code
@item GPG_ERR_NO_ERROR
This status indicates that the signature is valid. For the combined result this status means that all signatures are valid.

@item GPG_ERR_SIG_EXPIRED
This status indicates that the signature is valid but expired. For the combined result this status means that all signatures are valid and expired.

@item GPG_ERR_KEY_EXPIRED
This status indicates that the signature is valid but the key used to verify the signature has expired. For the combined result this status means that all signatures are valid and all keys are expired.

@item GPG_ERR_CERT_REVOKED
This status indicates that the signature is valid but the key used to verify the signature has been revoked. For the combined result this status means that all signatures are valid and all keys are revoked.

@item GPG_ERR_BAD_SIGNATURE
This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.

@item GPG_ERR_NO_PUBKEY
This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.

@item GPG_ERR_GENERAL
This status indicates that there was some other error which prevented the signature verification.
@end table
@item gpgme_sig_notation_t notations
This is a linked list with the notation data and policy URLs.

@item unsigned long timestamp
The creation timestamp of this signature.

@item unsigned long exp_timestamp
The expiration timestamp of this signature, or 0 if the signature does not expire.

@item unsigned int wrong_key_usage : 1
This is true if the key was not used according to its policy.

@item unsigned int pka_trust : 2
This is set to the trust information gained by means of the PKA system.
Values are:
@table @code
@item 0
No PKA information available or verification not possible.
@item 1
PKA verification failed.
@item 2
PKA verification succeeded.
@item 3
Reserved for future use.
@end table
Depending on the configuration of the engine, this metric may also be reflected by the validity of the signature.

@item unsigned int chain_model : 1
@since{1.1.6}
This is true if the validity of the signature has been checked using the chain model. In the chain model the time the signature has been created must be within the validity period of the certificate and the time the certificate itself has been created must be within the validity period of the issuing certificate. In contrast the default validation model checks the validity of signature as well at the entire certificate chain at the current time.

@item gpgme_validity_t validity
The validity of the signature.

@item gpgme_error_t validity_reason
If a signature is not valid, this provides a reason why.
@item gpgme_pubkey_algo_t
The public key algorithm used to create this signature.

@item gpgme_hash_algo_t
The hash algorithm used to create this signature.

@item char *pka_address
The mailbox from the PKA information or @code{NULL}.

@item gpgme_key_t key
@since{1.7.0}
An object describing the key used to create the signature. This key
object may be incomplete in that it only conveys information
available directly with a signature. It may also be @code{NULL} if
such information is not readily available.

@end table
@end deftp

@deftypefun {Data type} {gpgme_verify_result_t}
This is a pointer to a structure used to store the result of a
@code{gpgme_op_verify} operation. After verifying a signature, you
can retrieve the pointer to the result with
@code{gpgme_op_verify_result}. If the operation failed this might be
a @code{NULL} pointer. The structure contains the following member:

@table @code
@item gpgme_signature_t signatures
A linked list with information about all signatures for which a
verification was attempted.

@item char *file_name
This is the filename of the original plaintext message file if it is
known, otherwise this is a null pointer. Warning: The filename is
not covered by the signature.

@item unsigned int is_mime : 1;
@since{1.11.0}
The message claims that the content is a MIME object. Warning: This
flag is not covered by the signature.

@end table
@end deftp

@deftypefun gpgme_verify_result_t gpgme_op_verify_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_verify_result} returns a
@code{gpgme_verify_result_t} pointer to a structure holding the result of a @code{gpgme_op_verify} operation. The pointer is only valid if the last operation on the context was a @code{gpgme_op_verify}, @code{gpgme_op_verify_start}, @code{gpgme_op_decrypt_verify} or @code{gpgme_op_decrypt_verify_start} operation, and if this operation finished successfully (for @code{gpgme_op_decrypt_verify} and @code{gpgme_op_decrypt_verify_start}, the error code @code{GPG_ERR_NO_DATA} counts as successful in this context). The returned pointer is only valid until the next operation is started on the context.
@end deftypefun

@node Decrypt and Verify
@subsection Decrypt and Verify
@cindex decryption and verification
@cindex verification and decryption
@cindex signature check
@cindex cryptographic operation, decryption and verification

@deftypefun gpgme_error_t gpgme_op_decrypt_verify (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{cipher}}, @w{gpgme_data_t @var{plain}})
The function @code{gpgme_op_decrypt_verify} decrypts the ciphertext in the data object @var{cipher} and stores it into the data object @var{plain}. If @var{cipher} contains signatures, they will be verified.

After the operation completed, @code{gpgme_op_decrypt_result} and @code{gpgme_op_verify_result} can be used to retrieve more information about the signatures.

If the error code @code{GPG_ERR_NO_DATA} is returned, @var{cipher} does not contain any data to decrypt. However, it might still be signed. The information about detected signatures is available with @code{gpgme_op_verify_result} in this case.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the ciphertext could be decrypted successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{cipher} or @var{plain} is not a valid pointer, @code{GPG_ERR_NO_DATA} if @var{cipher} does not contain any data to decrypt, @code{GPG_ERR_DECRYPT_FAILED} if @var{cipher} is not a valid cipher text, @code{GPG_ERR_BAD_PASSPHRASE} if the passphrase for the secret key could not be retrieved, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_decrypt_verify_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{cipher}}, @w{gpgme_data_t @var{plain}})
The function `gpgme_op_decrypt_verify_start` initiates a `gpgme_op_decrypt_verify` operation. It can be completed by calling `gpgme_wait` on the context. @xref{Waiting For Completion}.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, `GPG_ERR_INV_VALUE` if @var{ctx}, @var{cipher}, @var{plain} or @var{r_stat} is not a valid pointer, and `GPG_ERR_NO_DATA` if @var{cipher} does not contain any data to decrypt.
@end deftypefun

When processing mails it is sometimes useful to extract the actual mail address (the ``addr-spec``) from a string. GPGME provides this helper function which uses the same semantics as the internal functions in GPGME and GnuPG:

@deftypefun @w{char *} gpgme_addrspec_from_uid (@w{const char *@var{uid}})
@since{1.7.1}

Return the mail address (called ``addr-spec'' in RFC-5322) from the string @var{uid} which is assumed to be a user id (called ``address'' in RFC-5322). All plain ASCII characters (i.e. those with bit 7 cleared) in the result are converted to lowercase. Caller must free the result using `gpgme_free`. Returns `NULL` if no valid address was found (in which case `errno` is set to `EINVAL`) or for other errors.
@end deftypefun

@node Sign
@subsection Sign
@cindex signature, creation
@cindex sign
@cindex cryptographic operation, signing

A signature can contain signatures by one or more keys. The set of keys used to create a signatures is contained in a context, and is applied to all following signing operations in this context (until the set is changed).

@menu
* Selecting Signers:: How to choose the keys to sign with.
* Creating a Signature:: How to create a signature.
* Signature Notation Data:: How to add notation data to a signature.
@end menu
The key or the keys used to create a signature are stored in the context. The following functions can be used to manipulate this list. If no signer has been set into the context a default key is used for signing.

```c
void gpgme_signers_clear (gpgme_ctx_t *ctx)
```

The function `gpgme_signers_clear` releases a reference for each key on the signers list and removes the list of signers from the context `ctx`.

Every context starts with an empty list.

```c
gpgme_error_t gpgme_signers_add (gpgme_ctx_t *ctx, const gpgme_key_t *key)
```

The function `gpgme_signers_add` adds the key `key` to the list of signers in the context `ctx`. Calling this function acquires an additional reference for the key.

```c
unsigned int gpgme_signers_count (const gpgme_ctx_t *ctx)
```

The function `gpgme_signers_count` returns the number of signer keys in the context `ctx`.

```c
gpgme_key_t gpgme_signers_enum (const gpgme_ctx_t *ctx, int seq)
```

The function `gpgme_signers_enum` returns the `seq`th key in the list of signers in the context `ctx`. An additional reference is acquired for the user.

If `seq` is out of range, `NULL` is returned.
The `gpgme_sig_mode_t` type is used to specify the desired type of a signature. The following modes are available:

- **GPGME_SIG_MODE_NORMAL**
  A normal signature is made, the output includes the plaintext and the signature.

- **GPGME_SIG_MODE_DETACH**
  A detached signature is made.

- **GPGME_SIG_MODE_CLEAR**
  A clear text signature is made. The ASCII armor and text mode settings of the context are ignored.

The function `gpgme_op_sign` creates a signature for the text in the data object `@var{plain}` and returns it in the data object `@var{sig}`. The type of the signature created is determined by the ASCII armor (or, if that is not set, by the encoding specified for `@var{sig}`), the text mode attributes set for the context `@var{ctx}` and the requested signature mode `@var{mode}`.

After the operation completed successfully, the result can be retrieved with `gpgme_op_sign_result`.

If an S/MIME signed message is created using the CMS crypto engine, the number of certificates to include in the message can be specified with `gpgme_set_include_certs`. The function returns the error code `GPG_ERR_NO_ERROR` if the signature could be created successfully, `GPG_ERR_INV_VALUE` if `@var{ctx}`, `@var{plain}` or `@var{sig}` is not a valid pointer, `GPG_ERR_NO_DATA` if the signature could not be created, `GPG_ERR_BAD_PASSPHRASE` if the passphrase for the secret key could not be retrieved, `GPG_ERR_UNUSABLE_SECKEY` if there are invalid signers, and passes through any errors that are reported by the crypto engine support routines.

The function `gpgme_op_sign_start` initiates a `gpgme_op_sign` operation. It can be completed by calling `gpgme_op_sign_finish`.
@code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{plain} or @var{sig} is not a valid pointer.
@end deftypefun

@deftp {Data type} {gpgme_new_signature_t}
This is a pointer to a structure used to store a part of the result of a @code{gpgme_op_sign} operation. The structure contains the following members:

@table @code
@item gpgme_new_signature_t next
This is a pointer to the next new signature structure in the linked list, or @code{NULL} if this is the last element.

@item gpgme_sig_mode_t type
The type of this signature.

@item gpgme_pubkey_algo_t pubkey_algo
The public key algorithm used to create this signature.

@item gpgme_hash_algo_t hash_algo
The hash algorithm used to create this signature.

@item unsigned int sig_class
The signature class of this signature.

@item long int timestamp
The creation timestamp of this signature.

@item char *fpr
The fingerprint of the key which was used to create this signature.
@end table
@end deftp

@deftp {Data type} {gpgme_sign_result_t}
This is a pointer to a structure used to store the result of a @code{gpgme_op_sign} operation. After successfully generating a signature, you can retrieve the pointer to the result with @code{gpgme_op_sign_result}. The structure contains the following members:

@table @code
@item gpgme_invalid_key_t invalid_signers
A linked list with information about all invalid keys for which a signature could not be created.
@item gpgme_new_signature_t signatures
A linked list with information about all signatures created.
@end table
@end deftpf

@deftypefun gpgme_sign_result_t gpgme_op_sign_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_sign_result} returns a
@code{gpgme_sign_result_t} pointer to a structure holding the result
of a @code{gpgme_op_sign} operation. The pointer is only valid if the
last operation on the context was a @code{gpgme_op_sign},
@code{gpgme_op_sign_start}, @code{gpgme_op_encrypt_sign} or
@code{gpgme_op_encrypt_sign_start} operation. If that operation
failed, the function might return a @code{NULL} pointer. The returned
pointer is only valid until the next operation is started on the
context.
@end deftypefun

@node Signature Notation Data
@subsubsection Signature Notation Data
@cindex notation data
@cindex signature notation data
@cindex policy URL
Using the following functions, you can attach arbitrary notation data
to a signature. This information is then available to the user when
the signature is verified.

@deftypefun void gpgme_sig_notation_clear (@w{gpgme_ctx_t @var{ctx}})
@since{1.1.0}
The function @code{gpgme_sig_notation_clear} removes the notation data
from the context @var{ctx}. Subsequent signing operations from this
context will not include any notation data.

Every context starts with an empty notation data list.
@end deftypefun

@deftypefun gpgme_error_t gpgme_sig_notation_add (@w{gpgme_ctx_t @var{ctx}}, @w{const char
*@var{name}}, @w{const char *@var{value}}, @w{gpgme_sig_notation_flags_t @var{flags}})
@since{1.1.0}
The function @code{gpgme_sig_notation_add} adds the notation data with
the name @var{name} and the value @var{value} to the context
@var{ctx}.

Subsequent signing operations will include this notation data, as well
as any other notation data that was added since the creation of the context or the last @code{gpgme_sig_notation_clear} operation.

The arguments @var{name} and @var{value} must be @code{NUL}-terminated strings in human-readable form. The flag @code{GPGME_SIG_NOTATION_HUMAN_READABLE} is implied (non-human-readable notation data is currently not supported). The strings must be in UTF-8 encoding.

If @var{name} is @code{NULL}, then @var{value} should be a policy URL.

The function @code{gpgme_sig_notation_add} returns the error code @code{GPG_ERR_NO_ERROR} if the notation data could be added successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, or if @var{name}, @var{value} and @var{flags} are an invalid combination. The function also passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@end deftypefun gpgme_sig_notation_t gpgme_sig_notation_get (@w{const gpgme_ctx_t @var{ctx}})
@since{1.1.0}

The function @code{gpgme_sig_notation_get} returns the linked list of notation data structures that are contained in the context @var{ctx}.

If @var{ctx} is not a valid pointer, or there is no notation data added for this context, @code{NULL} is returned.
@end deftypefun

One plaintext can be encrypted for several recipients at the same time. The list of recipients is created independently of any context, and then passed to the encryption operation.

* Encrypting a Plaintext:: How to encrypt a plaintext.
@end menu

@node Encrypting a Plaintext
@subsubsection Encrypting a Plaintext
@deftypefun gpgme_error_t gpgme_op_encrypt (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t

@deftypefun gpgme_error_t gpgme_op_encrypt (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t

@node Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

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The function `gpgme_op_encrypt` encrypts the plaintext in the data object `@var{plain}` for the recipients `@var{recp}` and stores the ciphertext in the data object `@var{cipher}`. The type of the ciphertext created is determined by the @acronym{ASCII} armor (or, if that is not set, by the encoding specified for `@var{cipher}`) and the text mode attributes set for the context `@var{ctx}`.

`@var{recp}` must be a `NULL`-terminated array of keys. The user must keep references for all keys during the whole duration of the call (but see `gpgme_op_encrypt_start` for the requirements with the asynchronous variant).

The value in `@var{flags}` is a bitwise-or combination of one or multiple of the following bit values:

@table @code
@item GPGME_ENCRYPT_ALWAYS_TRUST
The `GPGME_ENCRYPT_ALWAYS_TRUST` symbol specifies that all the recipients in `@var{recp}` should be trusted, even if the keys do not have a high enough validity in the keyring. This flag should be used with care; in general it is not a good idea to use any untrusted keys.

@item GPGME_ENCRYPT_NO_ENCRYPT_TO
@since{1.2.0}
The `GPGME_ENCRYPT_NO_ENCRYPT_TO` symbol specifies that no default or hidden default recipients as configured in the crypto backend should be included. This can be useful for managing different user profiles.

@item GPGME_ENCRYPT_NO_COMPRESS
@since{1.5.0}
The `GPGME_ENCRYPT_NO_COMPRESS` symbol specifies that the plaintext shall not be compressed before it is encrypted. This is in some cases useful if the length of the encrypted message may reveal information about the plaintext.

@item GPGME_ENCRYPT_PREPARE
@itemx GPGME_ENCRYPT_EXPECT_SIGN
The `GPGME_ENCRYPT_PREPARE` symbol is used with the UI Server protocol to prepare an encryption (i.e. sending the `PREP_ENCRYPT` command). With the `GPGME_ENCRYPT_EXPECT_SIGN` symbol the UI Server is advised to also expect a sign command.
@item GPGME_ENCRYPT_SYMMETRIC
@since{1.7.0}

The @code{GPGME_ENCRYPT_SYMMETRIC} symbol specifies that the output should be additionally encrypted symmetrically even if recipients are provided. This feature is only supported for the OpenPGP crypto engine.

@item GPGME_ENCRYPT_THROW_KEYIDS
@since{1.8.0}

The @code{GPGME_ENCRYPT_THROW_KEYIDS} symbol requests that the identifiers for the decryption keys are not included in the ciphertext. On the receiving side, the use of this flag may slow down the decryption process because all available secret keys must be tried. This flag is only honored for OpenPGP encryption.

@item GPGME_ENCRYPT_WRAP
@since{1.8.0}

The @code{GPGME_ENCRYPT_WRAP} symbol specifies that the input is an OpenPGP message and not a plain data. This is the counterpart to @code{GPGME_DECRYPT_UNWRAP}.

@item GPGME_ENCRYPT_WANT_ADDRESS
@since{1.11.0}

The @code{GPGME_ENCRYPT_WANT_ADDRESS} symbol requests that all supplied keys or key specifications include a syntactically valid mail address. If this is not the case the operation is not even tried and the error code @code{GPG_ERR_INV_USER_ID} is returned. Only the address part of the key specification is conveyed to the backend. As of now the key must be specified using the @var{recpstring} argument of the extended encrypt functions. This feature is currently only supported for the OpenPGP crypto engine.

@end table

If @code{GPG_ERR_UNUSABLE_PUBKEY} is returned, some recipients in @var{recp} are invalid, but not all. In this case the plaintext might be encrypted for all valid recipients and returned in @var{cipher} (if this happens depends on the crypto engine). More information about the invalid recipients is available with @code{gpgme_op_encrypt_result}.

If @var{recp} is @code{NULL}, symmetric rather than public key encryption is performed. Symmetrically encrypted cipher text can be deciphered with @code{gpgme_op_decrypt}. Note that in this case the
crypto backend needs to retrieve a passphrase from the user. Symmetric encryption is currently only supported for the OpenPGP crypto backend.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the ciphertext could be created successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{recp}, @var{plain} or @var{cipher} is not a valid pointer, @code{GPG_ERR_UNUSABLE_PUBKEY} if @var{recp} contains some invalid recipients, @code{GPG_ERR_BAD_PASSPHRASE} if the passphrase for the symmetric key could not be retrieved, and passes through any errors that are reported by the crypto engine support routines.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_encrypt_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{recp}[\]}, @w{gpgme_encrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})

The function @code{gpgme_op_encrypt_start} initiates a @code{gpgme_op_encrypt} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

References to the keys only need to be held for the duration of this call. The user can release its references to the keys after this function returns, even if the operation is not yet finished.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{rset}, @var{plain} or @var{cipher} is not a valid pointer, and @code{GPG_ERR_UNUSABLE_PUBKEY} if @var{rset} does not contain any valid recipients.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_encrypt_ext @
  (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{recp}[\]}, @w{const char *@var{recpstring}}, @w{gpgme_encrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})

@since{1.11.0}

This is an extended version of @code{gpgme_op_encrypt} with @var{recpstring} as additional parameter. If @var{recp} is NULL and @var{recpstring} is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to @var{recp} the keys are given directly as strings and there is no need to first create key objects. Leading and trailing white space is remove from each line in @var{recpstring}. The keys are then passed verbatim to the backend engine.
For the OpenPGP backend several special keywords are supported to modify the operation. These keywords are given instead of a key specification. The currently supported keywords are:

\begin{table}[h]
\begin{tabular}{ll}
\textbf{item} & \textbf{--hidden} \\
\textbf{itemx} & \textbf{--no-hidden} \\
\textbf{item} & \textbf{--file} \\
\textbf{itemx} & \textbf{--no-file} \\
\end{tabular}
\end{table}

These keywords toggle between normal and hidden recipients for all following key specifications. When a hidden recipient is requested the gpg option \texttt{--R} (or \texttt{--F} in file mode) is used instead of \texttt{--r} (\texttt{--f} in file mode).

\begin{item}
\item This keyword disables all keyword detection up to the end of the string. All keywords are treated as verbatim arguments.
\end{item}

To create a \texttt{recpstring} it is often useful to employ a \texttt{strconcat} style function. For example this function creates a string to encrypt to two keys:

\begin{example}
char *
xbuild_recpstring (const char *key1, const char *key2)
@
{ 
char *result = gpgrt_strconcat ("--\n", key1, "\n", key2, NULL);
if (!result)
  @{ perror ("strconcat failed"); exit (2); @} 
return result;
@ }
@end example

Note the use of the double dash here; unless you want to specify a keyword, it is a good idea to avoid any possible trouble with key specifications starting with a double dash. The used \texttt{strconcat} function is available in Libgpg-error 1.28 and later; Libgpg-error (aka Gpgrt) is a dependency of GPGME. The number of arguments to \texttt{gpgrt_strconcat} is limited to 47 but that should always be
sufficient. In case a larger and non-fixed number of keys are to be supplied the following code can be used:

@example
char *
xbuild_long_recpstring (void)
@
{  
gpgrt_stream_t memfp;
const char *s;
void *result;

    memfp = gpgrt_fopenmem (0, "w+b");
    if (!memfp)
        @{ perror ("fopenmem failed"); exit (2); @}
    gpgrt_fputs ("--", memfp);
    while ((s = get_next_keyspec ()))
        @{
            gpgrt_fputc (\'
', memfp);
            gpgrt_fputs (s, memfp);
        @}  
gpgrt_fputc (0, memfp);
    if (gpgrt_ferror (memfp))
        @{ perror ("writing to memstream failed"); exit (2); @}
    if (gpgrt_fclose_snatch (memfp, &result, NULL))
        @{ perror ("fclose_snatch failed"); exit (2); @}  
    return result;
@}
@end example

In this example @code{get_next_keyspec} is expected to return the next key to be added to the string. Please take care: Encrypting to a large number of recipients is often questionable due to security reasons and also for the technicality that all keys are currently passed on the command line to @command{gpg} which has as a platform specific length limitation.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_encrypt_ext_start @
    (@w{gpgme_ctx_t @var{ctx}}, @
    @w{gpgme_key_t @var{recp}[]}], @
    @w{const char *@var{recpstring}}, @
    @w{gpgme_encrypt_flags_t @var{flags}}, @
    @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})

@since{1.11.0}

This is an extended version of @code{gpgme_op_encrypt_start} with
@var{recpstring} as additional parameter. If @var{recp} is NULL and
@var{recpstring} is not NULL, the latter is expected to be a linefeed
delimited string with the set of key specifications. In contrast to
@var{recp} the keys are given directly as strings and there is no need
to first create key objects. The keys are passed verbatim to the
backend engine.

@end deftypefun

@end ftp [Data type] {gpgme_encrypt_result_t}
This is a pointer to a structure used to store the result of a
@code{gpgme_op_encrypt} operation. After successfully encrypting
data, you can retrieve the pointer to the result with
@code{gpgme_op_encrypt_result}. The structure contains the following
members:

@table @code
@item gpgme_invalid_key_t invalid_recipients
A linked list with information about all invalid keys for which
the data could not be encrypted.
@end table
@end ftp

@end deftypefun gpgme_encrypt_result_t gpgme_op_encrypt_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_encrypt_result} returns a
@code{gpgme_encrypt_result_t} pointer to a structure holding the
result of a @code{gpgme_op_encrypt} operation. The pointer is only
valid if the last operation on the context was a
@code{gpgme_op_encrypt}, @code{gpgme_op_encrypt_start},
@code{gpgme_op_sign} or @code{gpgme_op_sign_start} operation. If this
operation failed, this might be a @code{NULL} pointer. The returned
pointer is only valid until the next operation is started on the
context.
@end deftypefun

@end deftypefun gpgme_error_t gpgme_op_encrypt_sign (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t
@var{recp}[]}, @w{gpgme_encrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t
@var{cipher}})
The function @code{gpgme_op_encrypt_sign} does a combined encrypt and
sign operation. It is used like @code{gpgme_op_encrypt}, but the
ciphertext also contains signatures for the signers listed in
@var{ctx}.

The combined encrypt and sign operation is currently only available
for the OpenPGP crypto engine.
@end deftypefun
The function `gpgme_op_encrypt_sign_start` initiates a  
`gpgme_op_encrypt_sign` operation. It can be completed by  
calling `gpgme_wait` on the context. \xref{Waiting For  
Completion}.  

The function returns the error code `GPG_ERR_NO_ERROR` if the  
operation could be started successfully, and `GPG_ERR_INV_VALUE`  
if `@var{ctx}`, `@var{rset}`, `@var{plain}` or `@var{cipher}` is not a valid  
pointer.

This is an extended version of `gpgme_op_encrypt_sign` with  
`@var{recpstring}` as additional parameter. If `@var{recp}` is NULL and  
`@var{recpstring}` is not NULL, the latter is expected to be a linefeed  
delimited string with the set of key specifications. In contrast to  
`@var{recp}` the keys are given directly as strings and there is no need  
to first create the key objects. The keys are passed verbatim to the  
backend engine.

This is an extended version of `gpgme_op_encrypt_sign_start` with  
`@var{recpstring}` as additional parameter. If `@var{recp}` is NULL and  
`@var{recpstring}` is not NULL, the latter is expected to be a linefeed  
delimited string with the set of key specifications. In contrast to  
`@var{recp}` the keys are given directly as strings and there is no need  
to first create the key objects. The keys are passed verbatim to the
GPGME features an internal subsystem to run the actual backend engines. Along with data abstraction object this subsystem can be used to run arbitrary simple programs which even need not be related to cryptographic features. It may for example be used to run tools which are part of the GnuPG system but are not directly accessible with the GPGME API.

The function `gpgme_op_spawn` runs the program `file` with the arguments taken from the NULL terminated array `argv`. If no arguments are required `argv` may be given as `NULL`. In the latter case or if `argv[0]` is the empty string, GPGME uses the basename of `file` for `argv[0]`. The file descriptors `stdin`, `stdout`, and `stderr` are connected to the data objects `datain`, `dataout`, and `dataerr`. If `NULL` is passed for one of these data objects the corresponding file descriptor is connected to `/dev/null`.

The value in `flags` is a bitwise-or combination of one or multiple of the following bit values:
Under Windows this flag inhibits the allocation of a new console for the program. This is useful for a GUI application which needs to call a command line helper tool.

Under Windows this flag allows the called program to put itself into the foreground.

This is the asynchronous variant of `gpgme_op_spawn`.

The Assuan protocol can be used to talk to arbitrary Assuan servers. By default it is connected to the GnuPG agent, but it may be connected to arbitrary servers by using `gpgme_ctx_set_engine_info`, passing the location of the servers socket as `var[file_name]` argument, and an empty string as `var[home_dir]` argument.

The Assuan protocol functions use three kinds of callbacks to transfer data:

This callback receives any data sent by the server. `var[opaque]` is
the pointer passed to @code{gpgme_op_assuan_transact_start},
@var{data} of length @var{datalen} refers to the data sent.
@end deftp

@deftp {Data type} {gpgme_error_t (*gpgme_assuan_inquire_cb_t) @
 (@w{void *@var{opaque}}, @w{const char *@var{name}}, @
  @w{const char *@var{args}}, @w{gpgme_data_t *@var{r_data}})}

@since{1.2.0}

This callback is used to provide additional data to the Assuan server.
@var{opaque} is the pointer passed to
@code{gpgme_op_assuan_transact_start}, @var{name} and @var{args}
specify what kind of data the server requested, and @var{r_data} is
used to return the actual data.

Note: Returning data is currently not implemented in @acronym{GPGME}.
@end deftp

@deftp {Data type} {gpgme_error_t (*gpgme_assuan_status_cb_t) @
 (@w{void *@var{opaque}}, @w{const char *@var{status}}, @
  @w{const char *@var{args}})}

@since{1.2.0}

This callback receives any status lines sent by the server.
@var{opaque} is the pointer passed to
@code{gpgme_op_assuan_transact_start}, @var{status} and @var{args}
denote the status update sent.
@end deftp

@deftypefun gpgme_error_t gpgme_op_assuan_transact_start @
 (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{command}}, @
  @w{gpgme_assuan_data_cb_t @var{data_cb}}, @
  @w{void * @var{data_cb_value}}, @
  @w{gpgme_assuan_inquire_cb_t @var{inquire_cb}}, @
  @w{void * @var{inquire_cb_value}}, @
  @w{gpgme_assuan_status_cb_t @var{status_cb}}, @
  @w{void * @var{status_cb_value}})

@since{1.2.0}

Send the Assuan @var{command} and return results via the callbacks.
Any callback may be @code{NULL}. The result of the operation may be
retrieved using @code{gpgme_wait_ext}.

Asynchronous variant.
@end deftypefun
Send the Assuan `command` and return results via the callbacks. The result of the operation is returned in `op_err`.

Synchronous variant.
This gives the date the file was downloaded.

If this flag is set either an error has occurred or some of the
information in this structure are not properly set. For example if
the version number of the installed software could not be figured out,
the @code{update} flag may not reflect a required update status.

If this flag is set an update of the software is available.

If this flag is set an available update is important.

If this flag is set, no valid information could be retrieved.

If this flag is set the given @code{name} is not known.

If this flag is set the available information is not fresh enough.

If this flag is set some other error has occurred.

The version string of the latest released version.

The release date of the latest released version.

Query the software version database for software package @var{name}
and check against the installed version given by @var{iversion}. If
@var{iversion} is given as @code{NULL} a check is only done if GPGME
can figure out the version by itself (for example when using
"gpgme" or "gnupg"). If @code{NULL} is used for @var{name} the current gpgme version is checked. @var{reserved} must be set to 0.

@end deftypefun

@deftypefun gpgme_query_swdb_result_t gpgme_op_query_swdb_result (@w{gpgme_ctx_t @var{ctx}})
@end deftypefun

The function @code{gpgme_op_query_swdb_result} returns a @code{gpgme_query_swdb_result_t} pointer to a structure holding the result of a @code{gpgme_op_query_swdb} operation. The pointer is only valid if the last operation on the context was a successful call to @code{gpgme_op_query_swdb}. If that call failed, the result might be a @code{NULL} pointer. The returned pointer is only valid until the next operation is started on the context @var{ctx}.

@end deftypefun

@noindent

Here is an example on how to check whether GnuPG is current:

@example
#include <gpgme.h>

int
main (void)
@
{
  gpg_error_t err;
  gpgme_ctx_t ctx;
  gpgme_query_swdb_result_t result;

  gpgme_check_version (NULL);
  err = gpgme_new (&ctx);
  if (err)
    fprintf (stderr, "error creating context: %s\n", gpg_strerror (err));
  else
    @
      gpgme_set_protocol (ctx, GPGME_PROTOCOL_GPGCONF);

      err = gpgme_op_query_swdb (ctx, "gnupg", NULL, 0);
      if (err)
        fprintf (stderr, "error querying swdb: %s\n", gpg_strerror (err));
      else
        @
          result = gpgme_op_query_swdb_result (ctx);
          if (!result)
            fprintf (stderr, "error querying swdb\n");

@end example

if (!result->warning && !result->update)
    printf ("GnuPG version %s is current\n", result->iversion);
else if (!result->warning && result->update)
    printf ("GnuPG version %s can be updated to %s\n", result->iversion, result->version);
else
    fprintf (stderr, "error finding the update status\n");
@}
gpgme_release (ctx);
@
return 0;
@
@end example

@node Run Control
@section Run Control
@cindex run control
@cindex cryptographic operation, running

@acronym{GPGME} supports running operations synchronously and asynchronously. You can use asynchronous operation to set up a context up to initiating the desired operation, but delay performing it to a later point.

Furthermore, you can use an external event loop to control exactly when @acronym{GPGME} runs. This ensures that @acronym{GPGME} only runs when necessary and also prevents it from blocking for a long time.

@menu
* Waiting For Completion:: Waiting until an operation is completed.
* Using External Event Loops:: Advanced control over what happens when.
* Cancellation:: How to end pending operations prematurely.
@end menu

@node Waiting For Completion
@subsection Waiting For Completion
@cindex cryptographic operation, wait for
@cindex wait for completion

@deftypefun gpgme_ctx_t gpgme_wait (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_error_t *@var{status}},
    @w{int @var{hang}})
The function @code{gpgme_wait} continues the pending operation within the context @var{ctx}. In particular, it ensures the data exchange between @acronym{GPGME} and the crypto backend and watches over the
run time status of the backend process.

If @var{hang} is true, the function does not return until the
operation is completed or cancelled. Otherwise the function will not
block for a long time.

The error status of the finished operation is returned in @var{status}
if @code{gpgme_wait} does not return @code{NULL}.

The @var{ctx} argument can be @code{NULL}. In that case,
@code{gpgme_wait} waits for any context to complete its operation.

@code{gpgme_wait} can be used only in conjunction with any context
that has a pending operation initiated with one of the
@code{gpgme_op_*_start} functions except @code{gpgme_op_keylist_start}
and @code{gpgme_op_trustlist_start} (for which you should use the
corresponding @code{gpgme_op_*_next} functions). If @var{ctx} is
@code{NULL}, all of such contexts are waited upon and possibly
returned. Synchronous operations running in parallel, as well as key
and trust item list operations, do not affect @code{gpgme_wait}.

In a multi-threaded environment, only one thread should ever call
@code{gpgme_wait} at any time, regardless of whether @var{ctx} is specified
or not. This means that all calls to this function should be fully
synchronized by locking primitives. It is safe to start asynchronous
operations while a thread is running in @code{gpgme_wait}.

The function returns the @var{ctx} of the context which has finished
the operation. If @var{hang} is false, and the timeout expires,
@code{NULL} is returned and @code{*status} will be set to 0. If an
error occurs, @code{NULL} is returned and the error is returned in
@code{*status}.
@end deftypefun

@node Using External Event Loops
@subsection Using External Event Loops
@cindex event loop, external

@acronym{GPGME} hides the complexity of the communication between the
library and the crypto engine. The price of this convenience is that
the calling thread can block arbitrary long waiting for the data
returned by the crypto engine. In single-threaded programs, in
particular if they are interactive, this is an unwanted side-effect.
OTOH, if @code{gpgme_wait} is used without the @var{hang} option being
enabled, it might be called unnecessarily often, wasting CPU time that
could be used otherwise.
The I/O callback interface described in this section lets the user take control over what happens when. @acronym{GPGME} will provide the user with the file descriptors that should be monitored, and the callback functions that should be invoked when a file descriptor is ready for reading or writing. It is then the user's responsibility to decide when to check the file descriptors and when to invoke the callback functions. Usually this is done in an event loop, that also checks for events in other parts of the program. If the callback functions are only called when the file descriptors are ready, @acronym{GPGME} will never block. This gives the user more control over the program flow, and allows to perform other tasks when @acronym{GPGME} would block otherwise.

By using this advanced mechanism, @acronym{GPGME} can be integrated smoothly into GUI toolkits like GTK+ even for single-threaded programs.

@menu
* I/O Callback Interface:: How I/O callbacks are registered.
  * Registering I/O Callbacks:: How to use I/O callbacks for a context.
  * I/O Callback Example:: An example how to use I/O callbacks.
  * I/O Callback Example GTK+:: How to use @acronym{GPGME} with GTK+.
  * I/O Callback Example GDK:: How to use @acronym{GPGME} with GDK.
  * I/O Callback Example Qt:: How to use @acronym{GPGME} with Qt.
@end menu

@node I/O Callback Interface
@subsubsection I/O Callback Interface

@deftp {Data type} {gpgme_error_t (*gpgme_io_cb_t) (@w{void *@var{data}}, @w{int @var{fd}})}
@tindex gpgme_io_cb_t
The @code{gpgme_io_cb_t} type is the type of functions which @acronym{GPGME} wants to register as I/O callback handlers using the @code{gpgme_register_io_cb_t} functions provided by the user.

@var{data} and @var{fd} are provided by @acronym{GPGME} when the I/O callback handler is registered, and should be passed through to the handler when it is invoked by the user because it noticed activity on the file descriptor @var{fd}.

The callback handler always returns @code{0}, but you should consider the return value to be reserved for later use.
@end deftp

@deftp {Data type} {gpgme_error_t (*gpgme_register_io_cb_t) (@w{void *@var{data}}, @w{int @var{fd}},
  @w{int @var{dir}}, @w{gpgme_io_cb_t @var{fnc}}, @w{void *@var{fnc_data}}, @w{void **@var{tag}})}
@tindex gpgme_register_io_cb_t
The `gpgme_register_io_cb_t` type is the type of functions which can be called by `GPGME` to register an I/O callback function for the file descriptor with the user. `fnc` should be passed as the first argument to `fnc` when the handler is invoked (the second argument should be `fd`). If `dir` is 0, `fnc` should be called by the user when `fd` is ready for writing. If `dir` is 1, `fnc` should be called when `fd` is ready for reading.

`data` was provided by the user when registering the `gpgme_register_io_cb_t` function with `GPGME` and will always be passed as the first argument when registering a callback function. For example, the user can use this to determine the event loop to which the file descriptor should be added.

`GPGME` will call this function when a crypto operation is initiated in a context for which the user has registered I/O callback handler functions with `gpgme_set_io_cbs`. It can also call this function when it is in an I/O callback handler for a file descriptor associated to this context.

The user should return a unique handle in `tag` identifying this I/O callback registration, which will be passed to the `gpgme_register_io_cb_t` function without interpretation when the file descriptor should not be monitored anymore.

The `gpgme_remove_io_cb_t` type is the type of functions which can be called by `GPGME` to remove an I/O callback handler that was registered before. `tag` is the handle that was returned by the `gpgme_register_io_cb_t` for this I/O callback.

`GPGME` can call this function when a crypto operation is in an I/O callback. It will also call this function when the context is destroyed while an operation is pending.

The `gpgme_event_io_t` type specifies the type of an event that is reported to the user by `GPGME` as a consequence of an I/O operation. The following events are defined:

The operation is fully initialized now, and you can start to run the registered I/O callback handlers now. Note that registered I/O
callback handlers must not be run before this event is signalled. `@var{type_data}` is `@code{NULL}` and reserved for later use.

@item GPGME_EVENT_DONE
The operation is finished, the last I/O callback for this operation was removed. The accompanying `@var{type_data}` points to a `@code{struct gpgme_io_event_done_data}` variable that contains the status of the operation that finished. This event is signalled after the last I/O callback has been removed.

@item GPGME_EVENT_NEXT_KEY
In a `@code{gpgme_op_keylist_start}` operation, the next key was received from the crypto engine. The accompanying `@var{type_data}` is a `@code{gpgme_key_t}` variable that contains the key with one reference for the user.

@item GPGME_EVENT_NEXT_TRUSTITEM
In a `@code{gpgme_op_trustlist_start}` operation, the next trust item was received from the crypto engine. The accompanying `@var{type_data}` is a `@code{gpgme_trust_item_t}` variable that contains the trust item with one reference for the user.
@end table
@end deftp

@deftp {Data type} {void (*gpgme_event_io_cb_t) (@w{void *@var{data}}, @w{gpgme_event_io_t @var{type}}, @w{void *@var{type_data}})}
The `gpgme_event_io_cb_t` type is the type of functions which can be called by @acronym{GPGME} to signal an event for an operation running in a context which has I/O callback functions registered by the user.

`@var{data}` was provided by the user when registering the `@code{gpgme_event_io_cb_t}` function with @acronym{GPGME} and will always be passed as the first argument when registering a callback function. For example, the user can use this to determine the context in which this event has occurred.

`@var{type}` will specify the type of event that has occurred. `@var{type_data}` specifies the event further, as described in the above list of possible `@code{gpgme_event_io_t}` types.

@acronym{GPGME} can call this function in an I/O callback handler.
@end deftp

@node Registering I/O Callbacks
@subsubsection Registering I/O Callbacks

@deftp {Data type} {struct gpgme_io_cbs}
This structure is used to store the I/O callback interface functions described in the previous section. It has the following members:

```
@table @code
@item gpgme_register_io_cb_t add
This is the function called by @acronym{GPGME} to register an I/O callback handler. It must be specified.

@item void *add_priv
This is passed as the first argument to the @code{add} function when it is called by @acronym{GPGME}. For example, it can be used to determine the event loop to which the file descriptor should be added.

@item gpgme_remove_io_cb_t remove
This is the function called by @acronym{GPGME} to remove an I/O callback handler. It must be specified.

@item gpgme_event_io_cb_t event
This is the function called by @acronym{GPGME} to signal an event for an operation. It must be specified, because at least the start event must be processed.

@item void *event_priv
This is passed as the first argument to the @code{event} function when it is called by @acronym{GPGME}. For example, it can be used to determine the context in which the event has occurred.
@end table
@end deftp

@deftypefun void gpgme_set_io_cbs (@w{gpgme_ctx_t @var{ctx}}, @w{struct gpgme_io_cbs *@var{io_cbs}})
The function @code{gpgme_set_io_cbs} enables the I/O callback interface for the context @var{ctx}. The I/O callback functions are specified by @var{io_cbs}.

If @var{io_cbs}->@code{add} is @code{NULL}, the I/O callback interface is disabled for the context, and normal operation is restored.
@end deftypefun

@deftypefun void gpgme_get_io_cbs (@w{gpgme_ctx_t @var{ctx}}, @w{struct gpgme_io_cbs *@var{io_cbs}})
The function @code{gpgme_get_io_cbs} returns the I/O callback functions set with @code{gpgme_set_io_cbs} in @var{io_cbs}.
@end deftypefun

@node I/O Callback Example
@subsubsection I/O Callback Example
To actually use an external event loop, you have to implement the I/O callback functions that are used by @acronym{GPGME} to register and unregister file descriptors. Furthermore, you have to actually monitor these file descriptors for activity and call the appropriate I/O callbacks.

The following example illustrates how to do that. The example uses locking to show in which way the callbacks and the event loop can run concurrently. For the event loop, we use a fixed array. For a real-world implementation, you should use a dynamically sized structure because the number of file descriptors needed for a crypto operation in @acronym{GPGME} is not predictable.

@example
#include <assert.h>
#include <errno.h>
#include <stdlib.h>
#include <pthread.h>
#include <sys/types.h>
#include <gpgme.h>

/* The following structure holds the result of a crypto operation. */
struct op_result
{  
  int done;
  gpgme_error_t err;
};

/* The following structure holds the data associated with one I/O callback. */
struct one_fd
{  
  int fd;
  int dir;
  gpgme_io_cb_t fnc;
  void *fnc_data;
  void *loop;
};

struct event_loop
{  
  pthread_mutex_t lock;
  #define MAX_FDS 32
  /* Unused slots are marked with FD being -1. */
  struct one_fd fds[MAX_FDS];
};
@end example
The following functions implement the I/O callback interface.

@example
gpgme_error_t
add_io_cb (void *data, int fd, int dir, gpgme_io_cb_t fnc, void *fnc_data,
        void **r_tag)
@{
    struct event_loop *loop = data;
    struct one_fd *fds = loop->fds;
    int i;

    pthread_mutex_lock (&loop->lock);
    for (i = 0; i < MAX_FDS; i++)
        @{
            if (fds[i].fd == -1)
                @{
                    fds[i].fd = fd;
                    fds[i].dir = dir;
                    fds[i].fnc = fnc;
                    fds[i].fnc_data = fnc_data;
                    fds[i].loop = loop;
                    break;
                }
        }
    pthread_mutex_unlock (&loop->lock);
    if (i == MAX_FDS)
        return gpg_error (GPG_ERR_GENERAL);
    *r_tag = &fds[i];
    return 0;
@}

void
remove_io_cb (void *tag)
@{
    struct one_fd *fd = tag;
    struct event_loop *loop = fd->loop;

    pthread_mutex_lock (&loop->lock);
    fd->fd = -1;
    pthread_mutex_unlock (&loop->lock);
}

void
event_io_cb (void *data, gpgme_event_io_t type, void *type_data)
@{
    struct op_result *result = data;

    /* We don't support list operations here. */
if (type == GPGME_EVENT_DONE)
{
    result->done = 1;
    result->err = *type_data;
}
}
@end example

The final missing piece is the event loop, which will be presented next. We only support waiting for the success of a single operation.

@example
int
do_select (struct event_loop *loop)
{
    fd_set rfds;
    fd_set wfds;
    int i, n;
    int any = 0;
    struct timeval tv;
    struct one_fd *fdlist = loop->fds;

    pthread_mutex_lock (&loop->lock);
    FD_ZERO (&rfds);
    FD_ZERO (&wfds);
    for (i = 0; i < MAX_FDS; i++)
        if (fdlist[i].fd != -1)
            FD_SET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds);
    pthread_mutex_unlock (&loop->lock);

    tv.tv_sec = 0;
    tv.tv_usec = 1000;

    do
    {
        n = select (FD_SETSIZE, &rfds, &wfds, NULL, &tv);
    }
    while (n < 0 && errno == EINTR);

    if (n < 0)
        return n;/* Error or timeout. */

    pthread_mutex_lock (&loop->lock);
    for (i = 0; i < MAX_FDS && n; i++)

        if (fdlist[i].fd != -1)

            if (FD_ISSET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds))
```
assert (n);
n--;  
any = 1;
    /* The I/O callback handler can register/remove callbacks, 
    so we have to unlock the file descriptor list. */
    pthread_mutex_unlock (&loop->lock);
    (*fdlist[i].fnc) (fdlist[i].fnc_data, fdlist[i].fd);
    pthread_mutex_lock (&loop->lock);

@}
@}
@}

pthread_mutex_unlock (&loop->lock);
return any;
@}

void
wait_for_op (struct event_loop *loop, struct op_result *result)
@{
int ret;

    do
    @{
        ret = do_select (loop);
        @}
    while (ret >= 0 && !result->done);
    @}
@end example

The main function shows how to put it all together.

@example

int
main (int argc, char *argv[])
@{
struct event_loop loop;
struct op_result result;
gpgme_ctx_t ctx;
gpgme_error_t err;
gpgme_data_t sig, text;
int i;
pthread_mutexattr_t attr;
struct gpgme_io_cbs io_cbs =
    @{
        add_io_cb,
        &loop,
        remove_io_cb,
        event_io_cb,
```
init_gpgme();

/* Initialize the loop structure. */

/* The mutex must be recursive, since remove_io_cb (which acquires a
 lock) can be called while holding a lock acquired in do_select. */
pthread_mutexattr_init (&attr);
pthread_mutexattr_settype (&attr, PTHREAD_MUTEX_RECURSIVE);
pthread_mutex_init (&loop.lock, &attr);
pthread_mutexattr_destroy (&attr);

for (i = 0; i < MAX_FDS; i++)
  loop.fds[i].fd = -1;

/* Initialize the result structure. */
result.done = 0;

err = gpgme_data_new_from_file (&sig, "signature", 1);
if (!err)
  err = gpgme_data_new_from_file (&text, "text", 1);
if (!err)
  err = gpgme_new (&ctx);
if (!err)
  {
    gpgme_set_io_cbs (ctx, &io_cbs);
    err = gpgme_op_verify_start (ctx, sig, text, NULL);
  }
if (err)
  {
    fprintf (stderr, "gpgme error: %s: %s\n",
              gpgme_strsource (err), gpgme_strerror (err));
    exit (1);
  }

wait_for_op (&loop, &result);
if (!result.done)
  {
    fprintf (stderr, "select error\n");
    exit (1);
  }
if (!result.err)
  {
    fprintf (stderr, "verification failed: %s: %s\n",
              gpgme_strsource (result.err), gpgme_strerror (result.err));
    exit (1);
/* Evaluate verify result. */
dots{}
return 0;
@
@end example

@node I/O Callback Example GTK+
@subsection I/O Callback Example GTK+
cindex GTK+, using @acronym{GPGME} with

The I/O callback interface can be used to integrate @acronym{GPGME} with the GTK+ event loop. The following code snippets shows how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any GTK+ specific setup.

@example
#include <gtk/gtk.h>

struct my_gpgme_io_cb
@
{
    gpgme_io_cb_t fnc;
    void *fnc_data;
    guint input_handler_id
    @
};

void
my_gpgme_io_cb (gpointer data, gint source, GdkInputCondition condition)
@
{
    struct my_gpgme_io_cb *iocb = data;
    (*(iocb->fnc)) (iocb->data, source);
}

void
my_gpgme_remove_io_cb (void *data)
@
{
    struct my_gpgme_io_cb *iocb = data;
    gtk_input_remove (data->input_handler_id);
}

void
my_gpgme_register_io_callback (void *data, int fd, int dir, gpgme_io_cb_t fnc,
    void *fnc_data, void **tag)
@
{
    struct my_gpgme_io_cb *iocb = g_malloc (sizeof (struct my_gpgme_io_cb));
The I/O callback interface can also be used to integrate 
@acronym{GPGME} with the GDK event loop. The following code snippets 
shows how this can be done using the appropriate register and remove 
I/O callback functions. In this example, the private data of the 
register I/O callback function is unused. The event notifications is 
missing because it does not require any GDK specific setup.

It is very similar to the GTK+ example in the previous section.

@example
#include <gdk/gdk.h>

struct my_gpgme_io_cb
@ {
  gpgme_io_cb_t fnc;
  void *fnc_data;
  gint tag;
};

void 
my_gpgme_io_cb (gpointer data, gint source, GdkInputCondition condition) 
@ {
  struct my_gpgme_io_cb *iocb = data;
  (*(iocb->fnc)) (iocb->data, source);
} 

void 
my_gpgme_remove_io_cb (void *data) 
@ {
  struct my_gpgme_io_cb *iocb = data;
  gdk_input_remove (data->tag);
}
```c
void my_gpgme_register_io_callback (void *data, int fd, int dir, gpgme_io_cb_t fnc,
     void *fnc_data, void **tag)
{
    struct my_gpgme_io_cb *iocb = g_malloc (sizeof (struct my_gpgme_io_cb));
    iocb->fnc = fnc;
    iocb->data = fnc_data;
    iocb->tag = gtk_input_add_full (fd, dir ? GDK_INPUT_READ : GDK_INPUT_WRITE,
            my_gpgme_io_callback, iocb, NULL);
    *tag = iocb;
    return 0;
}
@end example

@node I/O Callback Example Qt
@subsubsection I/O Callback Example Qt
@cindex Qt, using @acronym{GPGME} with

The I/O callback interface can also be used to integrate
@acronym{GPGME} with the Qt event loop. The following code snippets
show how this can be done using the appropriate register and remove
I/O callback functions. In this example, the private data of the
register I/O callback function is unused. The event notifications is
missing because it does not require any Qt specific setup.

@example
#include <qsocketnotifier.h>
#include <qapplication.h>

struct IOCB @{
    IOCB( GpgmeIOCb f, void * d, QSocketNotifier * n )
         : func( f ), data( d ), notifier( n ) @{
    GpgmeIOCb func;
    void * data;
    QSocketNotifier * notifier;
    @} 
}

class MyApp : public QApplication @{
    // ...

    static void registerGpgmeIOCcallback( void * data, int fd, int dir,
        GpgmeIOCb func, void * func_data,
        void ** tag ) @} 
    QSocketNotifier * n =
```
new QSocketNotifier( fd, dir ? QSocketNotifier::Read : QSocketNotifier::Write );
connect( n, SIGNAL(activated(int)),
    qApp, SLOT(slotGpgmeIOCallback(int)));
qApp->mIOCBs.push_back( IOCB( func, func_data, n ) );
*tag = (void*)n;
}

static void removeGpgmeIOCallback( void * tag ) {
    if ( !tag ) return;
    QSocketNotifier * n = static_cast<QSocketNotifier*>( tag );
    for ( QValueList<IOCB>::iterator it = qApp->mIOCBs.begin() ;
        it != qApp->mIOCBs.end() ; ++it )
        if ( it->notifier == n ) {
            delete it->notifier;
            qApp->mIOCBs.erase( it );
            return;
        }
}

public slots:
void slotGpgmeIOCallback( int fd ) {
    for ( QValueList<IOCB>::const_iterator it = mIOCBs.begin() ;
        it != mIOCBs.end() ; ++it )
        if ( it->notifier && it->notifier->socket() == fd )
            (*(it->func)) ( it->func_data, fd );
}

// ...

private:
    QValueList<IOCB> mIOCBs;
// ...
@};
@end example

Cancellation

Sometimes you do not want to wait for an operation to finish. The
@acronym{GPGME} provides two different functions to achieve that. The
function @code{gpgme_cancel} takes effect immediately. When it
returns, the operation is effectively canceled. However, it has some
limitations and cannot be used with synchronous operations. In contrast, the function `gpgme_cancel_async` can be used with any context and from any thread, but it is not guaranteed to take effect immediately. Instead, cancellation occurs at the next possible time (typically the next time I/O occurs in the target context).

```c
@deftypefun gpgme_ctx_t gpgme_cancel (@w{gpgme_ctx_t @var{ctx}})
@since{0.4.5}
```

The function `gpgme_cancel` attempts to cancel a pending operation in the context `@var{ctx}`. This only works if you use the global event loop or your own event loop. If you use the global event loop, you must not call `gpgme_wait` during cancellation. After successful cancellation, you can call `gpgme_wait` (optionally waiting on `@var{ctx}`), and the context `@var{ctx}` will appear as if it had finished with the error code `GPG_ERR_CANCEL`.

If you use an external event loop, you must ensure that no I/O callbacks are invoked for this context (for example by halting the event loop). On successful cancellation, all registered I/O callbacks for this context will be unregistered, and a `GPGME_EVENT_DONE` event with the error code `GPG_ERR_CANCEL` will be signalled.

The function returns an error code if the cancellation failed (in this case the state of `@var{ctx}` is not modified).

```c
@deftypefun gpgme_ctx_t gpgme_cancel_async (@w{gpgme_ctx_t @var{ctx}})
@since{1.1.7}
```

The function `gpgme_cancel_async` attempts to cancel a pending operation in the context `@var{ctx}`. This can be called by any thread at any time after starting an operation on the context, but will not take effect immediately. The actual cancellation happens at the next time GPGME processes I/O in that context.

The function returns an error code if the cancellation failed (in this case the state of `@var{ctx}` is not modified).

```c
@end deftypefun
```
Everyone knows that software often does not do what it should do and thus there is a need to track down problems. This is in particular true for applications using a complex library like `GPGME` and of course also for the library itself. Here we give a few hints on how to solve such problems.

First of all you should make sure that the keys you want to use are installed in the GnuPG engine and are usable. Thus the first test is to run the desired operation using `gpg` or `gpgsm` on the command line. If you can't figure out why things don't work, you may use `GPGME`'s built in trace feature. This feature is either enabled using the environment variable `GPGME_DEBUG` or, if this is not possible, by calling the function `gpgme_set_global_flag`. The value is the trace level and an optional file name. If no file name is given the trace output is printed to `stderr`.

For example

```
GPGME_DEBUG=9:/home/user/mygpgme.log
```

(Note that under Windows you use a semicolon in place of the colon to separate the fields.)

A trace level of 9 is pretty verbose and thus you may want to start off with a lower level. The exact definition of the trace levels and the output format may change with any release; you need to check the source code for details. In any case the trace log should be helpful to understand what is going going on. Warning: The trace log may reveal sensitive details like passphrases or other data you use in your application. If you are asked to send a log file, make sure that you run your tests only with play data.

For backward compatibility `GPGME` has a number of functions, data types and constants which are deprecated and should not be used.
We document here those which are really old to help understanding old code and to allow migration to their modern counterparts.

@strong{Warning:} These interfaces will be removed in a future version of @acronym{GPGME}.

@deftypefun void gpgme_key_release (@w{gpgme_key_t @var{key}})
The function @code{gpgme_key_release} is equivalent to @code{gpgme_key_unref}.
@end deftypefun

@deftypefun void gpgme_trust_item_release (@w{gpgme_trust_item_t @var{item}})
The function @code{gpgme_trust_item_release} is an alias for @code{gpgme_trust_item_unref}.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_import_ext (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{keydata}}, @w{int *@var{nr}})
@since{0.3.9}
The function @code{gpgme_op_import_ext} is equivalent to:
@example
gpgme_error_t err = gpgme_op_import (ctx, keydata);
if (!err)
{
    gpgme_import_result_t result = gpgme_op_import_result (ctx);
    *nr = result->considered;
}
@end example
@end deftypefun

@deftp {Data type} {gpgme_error_t (*gpgme_edit_cb_t) (@w{void *@var{handle}}, @w{gpgme_status_code_t @var{status}}, @w{const char *@var{args}}, @w{int @var{fd}})}
The @code{gpgme_edit_cb_t} type is the type of functions which @acronym{GPGME} calls if it a key edit operation is on-going. The status code @var{status} and the argument line @var{args} are passed through by @acronym{GPGME} from the crypto engine. The file descriptor @var{fd} is -1 for normal status messages. If @var{status} indicates a command rather than a status message, the response to the command should be written to @var{fd}. The @var{handle} is provided
by the user at start of operation.

The function should return @code{GPG_ERR_FALSE} if it did not handle
the status code, @code{0} for success, or any other error value.
@end deftp

@deftypefun gpgme_edit_cb_t gpgme_op_edit (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{key}},
@w{gpgme_edit_cb_t @var{fnc}}, @w{void *@var{handle}}, @w{gpgme_data_t @var{out}})
@since{0.3.9}

Note: This function is deprecated, please use
@code{gpgme_op_interact} instead.

The function @code{gpgme_op_edit} processes the key @var{KEY}
interactively, using the edit callback function @var{FNC} with the
handle @var{HANDLE}. The callback is invoked for every status and
command request from the crypto engine. The output of the crypto
engine is written to the data object @var{out}.

Note that the protocol between the callback function and the crypto
engine is specific to the crypto engine and no further support in
implementing this protocol correctly is provided by @acronym{GPGME}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
edit operation completes successfully, @code{GPG_ERR_INV_VALUE} if
@var{ctx} or @var{key} is not a valid pointer, and any error returned
by the crypto engine or the edit callback handler.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_card_edit (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t
@var{key}})
@since{0.3.9}

Note: This function is deprecated, please use
@code{gpgme_op_interact} instead.

The function @code{gpgme_op_card_edit} initiates a
@code{gpgme_op_edit} operation. It can be completed by calling
@code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
operation was started successfully, and @code{GPG_ERR_INV_VALUE} if
@var{ctx} or @var{key} is not a valid pointer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_card_edit (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t

The function `gpgme_op_card_edit` is analogous to `gpgme_op_edit`, but should be used to process the smart card corresponding to the key `@var{key}`.
@end deftypefun

The function `gpgme_op_card_edit_start` initiates a `gpgme_op_card_edit` operation. It can be completed by calling `gpgme_wait` on the context. @xref{Waiting For Completion}.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation was started successfully, and `GPG_ERR_INV_VALUE` if `@var{ctx}` or `@var{key}` is not a valid pointer.
@end deftypefun

The callback function receives `@var{hook_value}` as its first argument whenever it is invoked. It should return up to `@var{count}` bytes in `@var{buffer}`, and return the number of bytes actually read in `@var{nread}`. It may return `@code{0}` in `@var{nread}` if no data is currently available. To indicate `@code{EOF}` the function should return with an error code of `@code{-1}` and set `@var{nread}` to `@code{0}`. The callback function may support to reset its internal read pointer if it is invoked with `@var{buffer}` and `@var{nread}` being `@code{NULL}` and `@var{count}` being `@code{0}`.

The function returns the error code `GPG_ERR_NO_ERROR` if the data object was successfully created, `GPG_ERR_INV_VALUE` if `@var{dh}` or `@var{readfunc}` is not a valid pointer, and`GPG_ERR_ENOMEM` if not enough memory is available.
@end deftypefun
The function `gpgme_data_rewind` is equivalent to:

```c
return (gpgme_data_seek (dh, 0, SEEK_SET) == -1) ? gpgme_error_from_errno (errno) : 0;
```

The `gpgme_attr_t` type is used to specify a key or trust item attribute. The following attributes are defined:

- **GPGME_ATTR_KEYID**: This is the key ID of a sub key. It is representable as a string. For trust items, the trust item refers to the key with this ID.
- **GPGME_ATTR_FPR**: This is the fingerprint of a sub key. It is representable as a string.
- **GPGME_ATTR_ALGO**: This is the crypto algorithm for which the sub key can be used. It is representable as a string and as a number. The numbers correspond to the `enum gcry_pk_algos` values in the gcrypt library.
- **GPGME_ATTR_LEN**: This is the key length of a sub key. It is representable as a number.
- **GPGME_ATTR_CREATED**: This is the timestamp at creation time of a sub key. It is representable as a number.
- **GPGME_ATTR_EXPIRE**: This is the expiration time of a sub key. It is representable as a number.
- **GPGME_ATTR_OTRUST**: XXX FIXME (also for trust items)
- **GPGME_ATTR_USERID**: This is a user ID. There can be more than one user IDs in a `gpgme_key_t` object. The first one (with index 0) is the primary
user ID. The user ID is representable as a number.

For trust items, this is the user ID associated with this trust item.

@item GPGME_ATTR_NAME
This is the name belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_EMAIL
This is the email address belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_COMMENT
This is the comment belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_VALIDITY
This is the validity belonging to a user ID. It is representable as a string and as a number. See below for a list of available validities.

For trust items, this is the validity that is associated with this trust item.

@item GPGME_ATTR_UID_REVOKED
This specifies if a user ID is revoked. It is representable as a number, and is @code{1} if the user ID is revoked, and @code{0} otherwise.

@item GPGME_ATTR_UID_INVALID
This specifies if a user ID is invalid. It is representable as a number, and is @code{1} if the user ID is invalid, and @code{0} otherwise.

@item GPGME_ATTR_LEVEL
This is the trust level of a trust item.

@item GPGME_ATTR_TYPE
This returns information about the type of key. For the string function this will either be "PGP" or "X.509". The integer function returns 0 for PGP and 1 for X.509. It is also used for the type of a trust item.

@item GPGME_ATTR_IS_SECRET
This specifies if the key is a secret key. It is representable as a number, and is @code{1} if the key is revoked, and @code{0} otherwise.

@item GPGME_ATTR_KEY_REVOKED
This specifies if a sub key is revoked. It is representable as a number, and is @code{1} if the key is revoked, and @code{0} otherwise.
@item GPGME_ATTR_KEY_INVALID
This specifies if a sub key is invalid. It is representable as a
number, and is @code{1} if the key is invalid, and @code{0} otherwise.

@item GPGME_ATTR_KEY_EXPIRED
This specifies if a sub key is expired. It is representable as a
number, and is @code{1} if the key is expired, and @code{0} otherwise.

@item GPGME_ATTR_KEY_DISABLED
This specifies if a sub key is disabled. It is representable as a
number, and is @code{1} if the key is disabled, and @code{0} otherwise.

@item GPGME_ATTR_KEY_CAPS
This is a description of the capabilities of a sub key. It is
representable as a string. The string contains the letter ``e'' if
the key can be used for encryption, ``s'' if the key can be used for
signatures, and ``c'' if the key can be used for certifications.

@item GPGME_ATTR_CAN_ENCRYPT
This specifies if a sub key can be used for encryption. It is
representable as a number, and is @code{1} if the sub key can be used
for encryption, and @code{0} otherwise.

@item GPGME_ATTR_CAN_SIGN
This specifies if a sub key can be used to create data signatures. It
is representable as a number, and is @code{1} if the sub key can be
used for signatures, and @code{0} otherwise.

@item GPGME_ATTR_CAN_CERTIFY
This specifies if a sub key can be used to create key certificates.
It is representable as a number, and is @code{1} if the sub key can be
used for certifications, and @code{0} otherwise.

@item GPGME_ATTR_SERIAL
The X.509 issuer serial attribute of the key. It is representable as
a string.

@item GPGME_ATTR_ISSUE
The X.509 issuer name attribute of the key. It is representable as a
string.

@item GPGME_ATTR_CHAINID
The X.509 chain ID can be used to build the certification chain. It
is representable as a string.
@end table
@end deftp
@deftypefun {const char *} gpgme_key_get_string_attr (@w{gpgme_key_t @var{key}}, @w{gpgme_attr_t

The function \texttt{gpgme_key_get_string_attr} returns the value of the string-representable attribute \texttt{what} of key \texttt{key}. If the attribute is an attribute of a sub key or an user ID, \texttt{idx} specifies the sub key or user ID of which the attribute value is returned. The argument \texttt{reserved} is reserved for later use and should be \texttt{NULL}.

The string returned is only valid as long as the key is valid.

The function returns \texttt{0} if an attribute can't be returned as a string, \texttt{key} is not a valid pointer, \texttt{idx} out of range, or \texttt{reserved} not \texttt{NULL}.

\end deftypefun

\begin{deftypefun}
{unsigned long} gpgme_key_get_ulong_attr (@w{gpgme_key_t @var{key}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})
\end deftypefun

The function \texttt{gpgme_key_get_ulong_attr} returns the value of the number-representable attribute \texttt{what} of key \texttt{key}. If the attribute is an attribute of a sub key or an user ID, \texttt{idx} specifies the sub key or user ID of which the attribute value is returned. The argument \texttt{reserved} is reserved for later use and should be \texttt{NULL}.

The function returns \texttt{0} if the attribute can't be returned as a number, \texttt{key} is not a valid pointer, \texttt{idx} out of range, or \texttt{reserved} not \texttt{NULL}.

\end deftypefun

\begin{c}
\begin{c} Key Signatures
\end c
\end{c}

The signatures on a key are only available if the key was retrieved via a listing operation with the \texttt{GPGME_KEYLIST_MODE_SIGS} mode enabled, because it is expensive to retrieve all signatures of a key.

So, before using the below interfaces to retrieve the signatures on a key, you have to make sure that the key was listed with signatures enabled. One convenient, but blocking, way to do this is to use the function \texttt{gpgme_get_key}.

\begin{deftp}{Data type} gpgme_attr_t
The \texttt{gpgme_attr_t} type is used to specify a key signature attribute. The following attributes are defined:

\begin{item}{GPGME_ATTR_KEYID}
This is the key ID of the key which was used for the signature. It is representable as a string.

@item GPGME_ATTR_ALGO
This is the crypto algorithm used to create the signature. It is representable as a string and as a number. The numbers correspond to the @code{enum gcry_pk_algos} values in the gcrypt library.

@item GPGME_ATTR_CREATED
This is the timestamp at creation time of the signature. It is representable as a number.

@item GPGME_ATTR_EXPIRE
This is the expiration time of the signature. It is representable as a number.

@item GPGME_ATTR_USERID
This is the user ID associated with the signing key. The user ID is representable as a number.

@item GPGME_ATTR_NAME
This is the name belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_EMAIL
This is the email address belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_COMMENT
This is the comment belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_KEY_REVOKED
This specifies if a key signature is a revocation signature. It is representable as a number, and is @code{1} if the key is revoked, and @code{0} otherwise.

@item GPGME_ATTR_KEY_EXPIRED
This specifies if a key signature is expired. It is representable as a number, and is @code{1} if the key is revoked, and @code{0} otherwise.

@item GPGME_ATTR_SIG_CLASS
This specifies the signature class of a key signature. It is representable as a number. The meaning is specific to the crypto engine.
representable as a number. The meaning is specific to the crypto engine.

@item GPGME_ATTR_SIG_STATUS
This is the same value as returned by @code{gpgme_get_sig_status}.
@end table
@end deftp

@deftypefun {const char *} gpgme_key_sig_get_string_attr (@w{gpgme_key_t @var{key}}, @w{int @var{uid_idx}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})
The function @code{gpgme_key_sig_get_string_attr} returns the value of the string-representable attribute @var{what} of the signature @var{idx} on the user ID @var{uid_idx} in the key @var{key}. The argument @var{reserved} is reserved for later use and should be @code{NULL}.
The string returned is only valid as long as the key is valid.

The function returns @code{0} if an attribute can't be returned as a string, @var{key} is not a valid pointer, @var{uid_idx} or @var{idx} out of range, or @var{reserved} not @code{NULL}.
@end deftypefun

@deftypefun {unsigned long} gpgme_key_sig_get_ulong_attr (@w{gpgme_key_t @var{key}}, @w{int @var{uid_idx}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})
The function @code{gpgme_key_sig_get_ulong_attr} returns the value of the number-representable attribute @var{what} of the signature @var{idx} on the user ID @var{uid_idx} in the key @var{key}. The argument @var{reserved} is reserved for later use and should be @code{NULL}.
The function returns @code{0} if an attribute can't be returned as a string, @var{key} is not a valid pointer, @var{uid_idx} or @var{idx} out of range, or @var{reserved} not @code{NULL}.
@end deftypefun

@c node Information About Trust Items
@c subsection Information About Trust Items
@c cindex trust item, information about
@c cindex trust item, attributes
@c cindex attributes, of a trust item

Trust items have attributes which can be queried using the interfaces below. The attribute identifiers are shared with those for key attributes. @xref{Information About Keys}.

@deftypefun {const char *} gpgme_trust_item_get_string_attr (@w{gpgme_trust_item_t @var{item}}),
The function `gpgme_trust_item_get_string_attr` returns the value of the string-representable attribute `what` of trust item `item`. The arguments `idx` and `reserved` are reserved for later use and should be `0` and `NULL` respectively.

The string returned is only valid as long as the key is valid.

The function returns `0` if an attribute can't be returned as a string, `what` is not a valid pointer, `idx` out of range, or `reserved` not `NULL`.

The function `gpgme_trust_item_get_int_attr` returns the value of the number-representable attribute `what` of trust item `item`. If the attribute occurs more than once in the trust item, the index is specified by `idx`. However, currently no such attribute exists, so `idx` should be `0`. The argument `reserved` is reserved for later use and should be `NULL`.

The function returns `0` if the attribute can't be returned as a number, `what` is not a valid pointer, `idx` out of range, or `reserved` not `NULL`.

The `gpgme_signature_stat_t` type holds the result of a signature check, or the combined result of all signatures. The following results are possible:

- **GPGME_SIG_STAT_NONE**
  This status should not occur in normal operation.

- **GPGME_SIG_STAT_GOOD**
  This status indicates that the signature is valid. For the combined result this status means that all signatures are valid.

- **GPGME_SIG_STAT_GOOD_EXP**
  This status indicates that the signature is valid but expired. For the combined result this status means that all signatures are valid and expired.
This status indicates that the signature is valid but the key used to verify the signature has expired. For the combined result this status means that all signatures are valid and all keys are expired.

@item GPGME_SIG_STAT_BAD
This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.

@item GPGME_SIG_STAT_NOKEY
This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.

@item GPGME_SIG_STAT_NOSIG
This status indicates that the signature data provided was not a real signature.

@item GPGME_SIG_STAT_ERROR
This status indicates that there was some other error which prevented the signature verification.

@item GPGME_SIG_STAT_DIFF
For the combined result this status means that at least two signatures have a different status. You can get each key's status with
@code{gpgme_get_sig_status}.
@end table
@end deftp

@deftypefun {const char *} gpgme_get_sig_status (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{idx}}, @w{gpgme_sig_stat_t *@var{r_stat}}, @w{time_t *@var{r_created}})
The function @code{gpgme_get_sig_status} is equivalent to:
@end deftp

@example

gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
{|}
    sig = sig->next;
    idx--;
|}
if (!sig || idx)
    return NULL;

if (r_stat)
switch (gpg_err_code (sig->status))
{
    case GPG_ERR_NO_ERROR:
        *r_stat = GPGME_SIG_STAT_GOOD;
        break;
    case GPG_ERR_BAD_SIGNATURE:
        *r_stat = GPGME_SIG_STAT_BAD;
        break;
    case GPG_ERR_NO_PUBKEY:
        *r_stat = GPGME_SIG_STAT_NOKEY;
        break;
    case GPG_ERR_NO_DATA:
        *r_stat = GPGME_SIG_STAT_NOSIG;
        break;
    case GPG_ERR_SIG_EXPIRED:
        *r_stat = GPGME_SIG_STAT_GOOD_EXP;
        break;
    case GPG_ERR_KEY_EXPIRED:
        *r_stat = GPGME_SIG_STAT_GOOD_EXPKEY;
        break;
    default:
        *r_stat = GPGME_SIG_STAT_ERROR;
        break;
}
if (r_created)
    *r_created = sig->timestamp;
return sig->fpr;
@end example
@end deftypefun

@deftypefun {const char *} gpgme_get_sig_string_attr (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{idx}}, @w{gpgme_attr_t @var{what}}, @w{int @var{whatidx}})

The function @code{gpgme_get_sig_string_attr} is equivalent to:

@example
gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;
@end example
while (sig && idx)
  @{
    sig = sig->next;
    idx--;
  @}
if (!sig || idx)
  return NULL;

switch (what)
  @{
    case GPGME_ATTR_FPR:
      return sig->fpr;
    case GPGME_ATTR_ERRTOK:
      if (whatidx == 1)
        return sig->wrong_key_usage ? "Wrong_Key_Usage" : "";
      else
        return "";
    default:
      break;
  @}
return NULL;
@end example
@end deftypefun

@deftypefun {const char *} gpgme_get_sig_ulong_attr (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{idx}},
@w{gpgme_attr_t @var{what}}, @w{int @var{whatidx}})
The function @code{gpgme_get_sig_ulong_attr} is equivalent to:

@example
  gpgme_verify_result_t result;
  gpgme_signature_t sig;

  result = gpgme_op_verify_result (ctx);
  sig = result->signatures;

  while (sig && idx)
    @{
      sig = sig->next;
      idx--;
    @}
  if (!sig || idx)
    return 0;

  switch (what)
    @{

case GPGME_ATTR_CREATED:
    return sig->timestamp;

case GPGME_ATTR_EXPIRE:
    return sig->exp_timestamp;

case GPGME_ATTR_VALIDITY:
    return (unsigned long) sig->validity;

case GPGME_ATTR_SIG_STATUS:
    switch (sig->status)
    {
    case GPG_ERR_NO_ERROR:
        return GPGME_SIG_STAT_GOOD;
    case GPG_ERR_BAD_SIGNATURE:
        return GPGME_SIG_STAT_BAD;
    case GPG_ERR_NO_PUBKEY:
        return GPGME_SIG_STAT_NOKEY;
    case GPG_ERR_NO_DATA:
        return GPGME_SIG_STAT_NOSIG;
    case GPG_ERR_SIG_EXPIRED:
        return GPGME_SIG_STAT_GOOD_EXP;
    case GPG_ERR_KEY_EXPIRED:
        return GPGME_SIG_STAT_GOOD_EXPKEY;
    default:
        return GPGME_SIG_STAT_ERROR;
    }

case GPGME_ATTR_SIG_SUMMARY:
    return sig->summary;

default:
    break;
}
return 0;
@end example
@end deftypefun

@deftypefun {const char *} gpgme_get_sig_key (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{idx}},
@w{gpgme_key_t *@var{r_key}})
The function @code{gpgme_get_sig_key} is equivalent to:
@example
gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
  @{
    sig = sig->next;
    idx--;
  @} 
if (!sig || idx)
  return gpg_error (GPG_ERR_EOF);

return gpgme_get_key (ctx, sig->fpr, r_key, 0);
@end example
@end deftypefun

@include lesser.texi

@include gpl.texi

@node Concept Index
@unnumbered Concept Index
@printindex cp

@node Function and Data Index
@unnumbered Function and Data Index
@printindex fn

@bye
# libgpgme.vers - List of symbols to export.
#
# This file is part of GPGME.
#
# GPGME is free software; you can redistribute it and/or modify
# it under the terms of the GNU Lesser general Public License as
# published by the Free Software Foundation; either version 2.1 of
# the License, or (at your option) any later version.
#
# GPGME is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU Lesser General Public License for more details.
#
# You should have received a copy of the GNU Lesser General Public
# License along with this program; if not, see <https://www.gnu.org/licenses/>.

#-------------------------------------------------------
# Please remember to add new functions also to gpgme.def
#-------------------------------------------------------

GPGME_1.1 { global:
  gpgme_set_engine_info;
  gpgme_ctx_get_engine_info;
  gpgme_ctx_set_engine_info;
gpgme_key_from_uid;
gpgme_set_sub_protocol;
gpgme_get_sub_protocol;

gpgme_op_passwd_start;
gpgme_op_passwd;

gpgme_set_global_flag;

gpgme_io_writen;

gpgme_set_pinentry_mode;
gpgme_get_pinentry_mode;

gpgme_get_dirinfo;

gpgme_op_spawn_start;
gpgme_op_spawn;

gpgme_set_offline;
gpgme_get_offline;

gpgme_set_status_cb;
gpgme_get_status_cb;

gpgme_pubkey_algo_string;
gpgme_set_ctx_flag;
gpgme_get_ctx_flag;
gpgme_data_set_flag;

gpgme_op_createkey_start;
gpgme_op_createkey;
gpgme_op_createsubkey_start;
gpgme_op_createsubkey;
gpgme_op_adduid_start;
gpgme_op_adduid;
gpgme_op_revuid_start;
gpgme_op_revuid;
gpgme_op_keysign_start;
gpgme_op_keysign;
gpgme_op_tofu_policy_start;
gpgme_op_tofu_policy;
gpgme_op_interact_start;
gpgme_op_interact;

gpgme_addrspec_from_uid;

gpgme_set_sender;
gpgme_get_sender;

gpgme_op_query_swdb;
gpgme_op_query_swdb_result;

gpgme_op_set_uid_flag_start;
gpgme_op_set_uid_flag;

gpgme_op_decrypt_ext;
gpgme_op_decrypt_ext_start;

gpgme_data_new_from_estream;

};

GPGME_1.0 {
  global:
    gpgme_check_version;
    gpgme_get_engine_info;
    gpgme_engine_check_version;

    gpgme_err_code_from_errno;
    gpgme_err_code_to_errno;
    gpgme_error_from_errno;
    gpgme_strerror;
    gpgme_strerror_r;
    gpgme_strsource;

    gpgme_data_get_encoding;
    gpgme_data_new;
    gpgme_data_new_from_cbs;
    gpgme_data_new_from_fd;
    gpgme_data_new_from_file;
    gpgme_data_new_from_filepart;
    gpgme_data_new_from_mem;
    gpgme_data_new_from_stream;
    gpgme_data_read;
    gpgme_data_release;
    gpgme_data_release_and_get_mem;
    gpgme_data_seek;
    gpgme_data_set_encoding;
    gpgme_data_write;

    gpgme_get_protocol_name;
    gpgme_hash_algo_name;
    gpgme_pubkey_algo_name;
gpgme_new;
gpgme_get_armor;
gpgme_get_include_certs;
gpgme_get_io_cbs;
gpgme_get_keylist_mode;
gpgme_get_passphrase_cb;
gpgme_get_progress_cb;
gpgme_get_protocol;
gpgme_get_textmode;
gpgme_release;
gpgme_set_armor;
gpgme_set_include_certs;
gpgme_set_io_cbs;
gpgme_set_keylist_mode;
gpgme_set_locale;
gpgme_set_passphrase_cb;
gpgme_set_progress_cb;
gpgme_set_protocol;
gpgme_set_textmode;
gpgme_signers_add;
gpgme_signers_clear;
gpgme_signers_count;
gpgme_signers_enum;

gpgme_key_ref;
gpgme_key_unref;
gpgme_key_release;

gpgme_trust_item_ref;
gpgme_trust_item_unref;

gpgme_cancel;
gpgme_op_card_edit;
gpgme_op_card_edit_start;
gpgme_op_decrypt;
gpgme_op_decrypt_result;
gpgme_op_decrypt_start;
gpgme_op_decrypt_verify;
gpgme_op_decrypt_verify_start;
gpgme_op_delete;
gpgme_op_delete_start;
gpgme_op_delete_ext;
gpgme_op_delete_ext_start;
gpgme_op_edit;
gpgme_op_edit_start;
gpgme_op_encrypt;
gpgme_op_encrypt_start;
Decide on a default file format for documentation. The two main contenders being Org Mode, the default for the GnuPG Project and reStructuredText, the default for Python projects. A third option of DITA XML was considered due to a number of beneficial features it provides.

The decision was made to use Org Mode in order to fully integrate with the rest of the GPGME and GnuPG documentation. It is possible to produce reST versions via Pandoc and DITA XML can be reached through converting to either Markdown or XHTML first.

** TODO Documentation build systems
:PROPERTIES:
:CUSTOM_ID: todo-docs-build-systems
:END:

Though Org Mode is being used for the default documentation format, it still needs to end up as usable by end users. So the Org Mode files
are used to produce the "source" files used by the two main contenders for documenting the bindings: Texinfo and ReStructuredText/Docutils.

*** TODO Texinfo documentation
:PROPERTIES:
:CUSTOM_ID: todo-docs-build-texinfo
:END:

Need to add all of Texinfo's ... special systems to make it do its things.

*** TODO ReStructuredText documentation
:PROPERTIES:
:CUSTOM_ID: todo-docs-build-docutils
:END:

Need to run Sphinx's quick start, add it to the requirements and tweak the index page for the rst files to point to the HOWTO and other files.

It might just be easier to do all that in Org Mode and convert the lot, then the Sphinx bits can be automated.

** STARTED Documentation HOWTO
:PROPERTIES:
:CUSTOM_ID: todo-docs-howto
:END:

- State "STARTED" from "TODO" [2018-03-08 Thu 13:59]
  
  Started yesterday.
  
  Write a HOWTO style guide for the current Python bindings.

*** DONE Start python bindings HOWTO
CLOSED: [2018-03-07 Wed 18:14]
:PROPERTIES:
:CUSTOM_ID: howto-start
:END:

*** STARTED Include certain specific instructions in the HOWTO
:PROPERTIES:
:CUSTOM_ID: howto-requests
:END:

Note: moved the S/MIME bits out to their own section of the TODO list and may be served better by separate HOWTO documentation
anyway.

- State "STARTED" from "TODO" [2018-03-09 Fri 15:27]
  Some functions can be worked out from the handful of examples available, but many more can't and I've already begun receiving requests for certain functions to be explained.

**** DONE Standard scenarios
  CLOSED: [2018-03-19 Mon 12:34]
  :PROPERTIES:
  :CUSTOM_ID: howto-the-basics
  :END:

- State "DONE" from "STARTED" [2018-03-19 Mon 12:34] \n  All four of those are done.
- State "STARTED" from "TODO" [2018-03-09 Fri 15:26] \n  Began with the example code, now to add the text.
  What everyone expects: encryption, decryption, signing and verifying.

**** STARTED Key control
  :PROPERTIES:
  :CUSTOM_ID: howto-key-control
  :END:

- State "STARTED" from "TODO" [2018-03-19 Mon 12:35] \n  Generating keys and subkeys are done, but revocation is still to be done.
  Generating keys, adding subkeys, revoking subkeys (and keeping the cert key), adding and revoking UIDs, signing/certifying keys.

**** DONE More key control
  CLOSED: [2018-03-19 Mon 12:36]
  :PROPERTIES:
  :CUSTOM_ID: howto-key-selection
  :END:

- State "DONE" from "TODO" [2018-03-19 Mon 12:36] \n  Key selection, searching, matching and counting is done.
  Selecting keys to encrypt to or manipulate in other ways (e.g. as with key control or the basics).

** TODO Documentation SWIG
  :PROPERTIES:
  :CUSTOM_ID: todo-docs-swig
  :END:
Write documentation for the complete SWIG bindings demonstrating the correspondence with GPGME itself.

Note: it is likely that this will be more in the nature of something to be used in conjunction with the existing GPGME documentation which makes it easier for Python developers to use.

** TODO GUI examples
:PROPERTIES:
:CUSTOM_ID: todo-gui-examples
:END:

Create some examples of using Python bindings in a GUI application to either match or be similar to the old GTK2 examples available with PyME.

** TODO Replace SWIG
:PROPERTIES:
:CUSTOM_ID: todo-replace-swig
:END:

Selecting SWIG for this project in 2002 was understandable and effectively the only viable option. The options available now, however, are significantly improved and some of those would resolve a number of existing problems with using SWIG, particularly when running code on both POSIX compliant and Windows platforms.

The long term goal is to replace SWIG by reimplementing the Python bindings using a more suitable means of interfacing with the GPGME C source code.

*** TODO Replacement for SWIG
:PROPERTIES:
:CUSTOM_ID: todo-replace-swig-replacement
:END:

Decide on a replacement for SWIG. Currently CFFI is looking like the most viable candidate, but some additional testing and checks are yet to be completed.

** TODO API for an API
:PROPERTIES:
:CUSTOM_ID: todo-api-squared
A C API like GPGME is not what most modern developers think of when they hear the term API. Normally they think of something they can interact with like a RESTful web API. Though RESTful is unlikely given the nature of GPGME and the process of encryption, it may be possible to provide a more familiar interface which can be utilised by developers of other languages for which bindings are not available or for which it is too difficult to create proper bindings.

** TODO S/MIME

Eventually add some of this, but the OpenPGP details are far more important at the moment.

* Project Task Details

The old GUI examples were unable to be retained since they depended on GTK2 and Python 2's integration with GTK2.

Current GPGME examples so far only include command line tools or basic Python code for use with either Python 2.7 or Python 3.4 and above.

Future GUI examples ought to utilise available GUI modules and libraries supported by Python 3. This may include Qt frameworks, Tkinter, GTK3 or something else entirely.

** Documentation

The legacy documentation which no longer applies to the Python
Current and future documentation will adhere to the GnuPG standard of using Org Mode and more use the reStructuredText (reST) format more commonly associated with Python documentation. The reasons for this are that this project is best served as shipping with the rest of GPGME and the documentation ought to match that. There are also aspects of Org Mode’s publishing features which are superior to the defaults of reST, including the capacity to generate fully validating strict XHTML output.

If reST files are required at a later point for future inclusion with other Python packages, then that format can be generated from the .org files with Pandoc before being leveraged by either Dcutils, Sphinx or something else.

While there are some advanced typesetting features of reST which are not directly available to Org Mode, more often than not those features are best served when shipped with the rest of GPGME and the documentation ought to match that. There are also aspects of Org Mode’s publishing features which are superior to the defaults of reST, including the capacity to generate fully validating strict XHTML output.

-----BEGIN PGP PRIVATE KEY BLOCK-----

IQOYBFrsEkBCADkWw4WT8j6M/88qD8PO6lSMCxH1cpwH8iK0uPaFFYsJkkX07kWf
PTAtv+REqF/o80dvYcdLxvR5v2pvnCcZz/HXLu1yQ18mC3XObkKodbrGTKA5XE
BZkJnqyaMMJauT18H4hYKg62/fTIDeICzu/2Wv/LFf7Yxny+w/u740vXCljOis0N2c
PSNhtr8MeZPM/2owvVq/73nDNp4gVDGHDxSZU0uwxgYAZYyA85Cf+c+3ZrQfY870
+O4j3Mz4p7yD13AwP4buQLBsb/cleGMeQCqRJhLHf7MdEcGxa136RcEkhd+M
y1392eMeG+d/KKIFRTcTPjNTxtvBfNELrYiACFBABAEEAb/wLj0yGmjs2lEfT83wM
SLzz2yQlwvE3bbBAujjHTqeNSZmsm/oakFyjSokUL5K6KV04c4e9e0igmFMvxkF
HKrgpxTrbsNJl6QcKYHTPcEII318ykNL6fj0WUcdPEIENukX15jbyQyk3/4D2y
TTDySyq6jHTgvmMH44K4KJUPspGl5JpmT91RhuFtGHAF+s+SN9atygDyctAaERMTsg
LC0Sui/Ax5SRMJQ]X7T9qiqwyQoZyF4s8HMC8wddTFIE/EO5I4VHypys2zUsNtT
W/evmCa+KvruKjR/Hfrq4hHkEHmW28+j4L6u5aygONP7BOn+s+S50oZtT9v+2R
ILTZBADdgLuAfg6C5Lu9jCf6DftGa8abs/MyQnKEGnIxohMWHtGhLHe47Vv2E9gA
amd4yXKuEFKU1PvnviGuicQSpdvtCwvmq61mstXgYD0FK3LP3yWZkEnE11ztzf9vP
/uHJxKjewCuyt165nWt9t+S87BuxBYKCOZxWtX+10cTj77QA6leqToHj9ycu
u4UBrKMEO+Zy2V8v3bL3G7yL5oY8rkw0EkI/jkZ8tAIZYCe6fEdvVE3PPhg2lrxc
Wv/EU3QYq/A3G82mhXEj2jNZaTNY04MylMr4Mx4k5x4tE7jS0E5VrQ+4CrHkqy
OjSjA7ppLR7uW980AtnN8NOGrlpTsD/A9aoa60Ilgy1Q32uSyDCyjLkvn57ymn
ZSB3d/thm0ly6ygbdfhhNgstT+Hd4y3actqEgqZXXHt2V54dKz/wR7nkxtSm9adU9vys
EHyzjxb6mKIH32aG5TaFT20hC+NK6LsnfH9U2Zz6v2sLxGW2O0hQnsD+5m
NqBebc2l/js1PMK0EHrL3CRAZXhkbXBSzS5vcmcJAVQEEwElA4QWJUJTFuZw85Ej9
uIlEjFojAWNe7/7DLBQCUWuoSjAIwAaJnAALCQghAnEGvCkIcW1fEY6lDAQIE
AQYxOAACKRAjA3WN7e7/DL89KB/wOQ/S60HajFq07W9N011HULyHH0MmeH6f7lZ6
4oDQxl0IpsasZ7WAMW1jN4qiWJ0mFwz0S3Yk6aBe+wfi6qiru6dfFSBW9gPrFg6/V
ZXPlT06aCjIHq6Dq55IME4YQWbWvY90R2nGkYo1JCBCnOxRjyCXS3x4BTVw/eX
n/337/WjmiTOIZh35rjs+NuUS5JPDFap2/k70DevQeBsv+UjVXjWpNTZmPbvdD9
From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made. This also means that documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for
either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.

@menu
* Maintainer from 2019 onward::
* Using the Python Bindings from 2019 and beyond::
* Documentation formats::
@end menu

@node Maintainer from 2019 onward
@section Maintainer from 2019 onward

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding for that position, the amount of time I will be able to dedicate solely to this task will be limited and reduced to volunteered time. As with all volunteered time and effort in free software projects, this will be subject to numerous external imperatives.

@node Using the Python Bindings from 2019 and beyond
@section Using the Python Bindings from 2019 and beyond

For most, if not all, Python developers using these bindings; they will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the lower level, dynamically generated methods which match the GPGME C documentation. While the more intuitively Pythonic higher level layer already covers the vast majority of functionality people require with key generation, signatures, certifications (key signing), encryption, decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking because they are missing from GPGME itself (e.g. revoking keys via the API) and in such cases they are usually deliberately excluded. More discussion of these issues can be found in the archives of the
Any features existing in the dynamically generated layer for which people want a specific, higher level function included to make it more Pythonic (e.g. to avoid needing to learn or memorise cryptographic mode values or GnuPG status code numbers), would be a feature request and *not* a bug.

It is still worthwhile requesting it, but the addition of such a feature would not be guaranteed and provided on a purely volunteer basis. Expediting such a request would require funding that request.

Those with a commercial interest in expediting such a feature request already know how to [expedite it](https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset, expedite it) (use the message field to state what feature is being requested).

The documentation has been written in Org mode for GNU Emacs, with both Texinfo and reStructuredText formats generated from that. The Texinfo files are intended for use with the rest of the GnuPG documentation; while the reStructuredText files are intended for use with Docutils and Sphinx, as with other Python projects.

Though Python's Docutils in conjunction with Sphinx is capable of generating some very useful HTML sites, as proven by [Read the Docs](https://readthedocs.org/) and the [Python documentation](https://docs.python.org/), there are a number of output formats it does not handle well. At the top of the list of things it manages to break so atrociously as to be embarassing is the [EPUB 3](http://idpf.org/epub) format.

The automatically generated EPUB of the CPython documentation always contains hundreds of validation errors and even the modest amount of documentation here [produced a file](https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-python/rst/epub/GPGMEPythonBindings.epub) with approximately thirty validation errors. As the volume of documentation content increases, so does the induced errors. Whereas Texinfo doesn't produce EPUB output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a
case marked for @uref{https://dev.gnupg.org/p/BenM/, my} attention. The means of generating such files flawlessly is already available, but is not yet part of the GnuPG build system. Nor is it integrated with a means of converting Org mode input files to the relevant base format automatically, as can already be done when converting Org to reStructuredText or Org to Texinfo. As a certain amount of work would be required to get it done, there would need to be clear demand for that work to be done.

@bye

;;; gpgme.lisp

;;; Copyright (C) 2006 g10 Code GmbH
;;;
;;; This file is part of GPGME-CL.
;;;
;;; GPGME-CL is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License along with GPGME; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

;;; TODO

;;; Set up the library.

(in-package :gpgme)

(deftype byte-array ()
 '(simple-array (unsigned-byte 8) (*))

(deftype character-array ()
 '(simple-array character (*)))

;;; Debugging.

(defvar *debug* nil "If debugging output should be given or not.")

;;; Load the foreign library.
(define-foreign-library libgpgme
  (:unix "libgpgme.so")
  (t (:default "libgpgme")))

(use-foreign-library libgpgme)

;;; System dependencies.

; Access to ERRNO.
(defcfun ("strerror" c-strerror) :string
  (err :int))

(defun get-errno ()
  *errno*)

(defun set-errno (errno)
  (setf *errno* errno))

(define-condition system-error (error)
  ((errno :initarg :errno :reader system-error-errno))
  (:report (lambda (c stream)
    (format stream "System error: ~A: ~A"
      (system-error-errno c)
      (c-strerror (system-error-errno c)))))
  (:documentation "Signalled when an errno is encountered.")

; Needed to write passphrases.
(defcfun ("write" c-write) ssize-t
  (fd :int)
  (buffer :string) ; Actually :pointer, but we only need string.
  (size size-t))

(defun system-write (fd buffer size)
  (let ((res (c-write fd buffer size)))
    (when (< res 0) (error 'system-error :errno (get-errno))
      res))

;;;
;;; C Interface Definitions

;;;

;;; Data Type Interface

;;; Some new data types used for easier translation.

;;; The number of include certs. Translates to NIL for default.
(defctype cert-int-t
  (:wrapper :int)
::from-c translate-cert-int-t-from-foreign
::to-c translate-cert-int-t-to-foreign)

;;; A string that may be NIL to indicate a null pointer.
(defun string-or-nil-t
  (:wrapper :string
  ::to-c translate-string-or-nil-t-to-foreign))

;;; Some opaque data types used by GPGME.

(defun gpgme-ctx-t
  (:wrapper :pointer
  ::to-c translate-gpgme-ctx-t-to-foreign)
"The GPGME context type.")

(defun gpgme-data-t
  (:wrapper :pointer
  ::to-c translate-gpgme-data-t-to-foreign)
"The GPGME data object type.")

;;; Wrappers for the libgpg-error library.

(defun gpgme-error-t
  (:wrapper gpg-error::gpg-error-t
  ::from-c translate-gpgme-error-t-from-foreign
  ::to-c translate-gpgme-error-t-to-foreign)
"The GPGME error type.")

(defun gpgme-error-no-signal-t
  (:wrapper gpg-error::gpg-error-t
  ::from-c translate-gpgme-error-no-signal-t-from-foreign
  ::to-c translate-gpgme-error-no-signal-t-to-foreign)
"The GPGME error type (this version does not signal conditions in translation.")

(defun gpgme-err-code-t gpg-error::gpg-err-code-t
"The GPGME error code type.")

(defun gpgme-err-source-t gpg-error::gpg-err-source-t
"The GPGME error source type.")

(defun gpgme-err-make (source code)
"Construct an error value from an error code and source."
(gpgme-err-make source code))

(defun gpgme-error (code)
"Construct an error value from an error code."
(gpgme-error :gpg-err-source-gpgme code))

(defun gpgme-error-code (err)
"Retrieve an error code from the error value ERR."  
(gpg-err-code err)

(defun gpgme-err-source (err)  
"Retrieve an error source from the error value ERR."  
(gpg-err-source err))

(defun gpgme-_strerror (err)  
"Return a string containing a description of the error code."  
(gpg-_strerror err))

(defun gpgme-strsource (err)  
"Return a string containing a description of the error source."  
(gpg-strsource err))

(defun gpgme-err-code-from-errno (err)  
"Retrieve the error code for the system error.  If the system error
is not mapped, :gpg-err-unknown-errno is returned."  
(gpg-err-code-from-errno err))

(defun gpgme-err-code-to-errno (code)  
"Retrieve the system error for the error code.  If this is not a
system error, 0 is returned."  
(gpg-err-code-to-errno code))

(defun gpgme-err-make-from-errno (source err)  
(gpg-err-make-from-errno source err))

(defun gpgme-error-from-errno (err)  
(gpg-error-from-errno err))

...  

defcenum gpgme-data-encoding-t  
"The possible encoding mode of gpgme-data-t objects."  
(:none 0)  
(:binary 1)  
(:base64 2)  
(:armor 3)  
(:url 4)  
(:urlesc 5)  
(:url0 6)  
(:mime 7))

...  

defcenum gpgme-pubkey-algo-t  
"Public key algorithms from libgcrypt."
(rsa 1)
(rsa-e 2)
(rsa-s 3)
(elg-e 16)
(dsa 17)
(ec c 18)
(elg 20)
(ecdsa 301)
(ecdh 302)
(eddsa 303))

(defcenum gpgme-hash-algo-t
"Hash algorithms from libgcrypt."
(:none 0)
(:md5 1)
(:sha1 2)
(:rmd160 3)
(:md2 5)
(:tiger 6)
(:haval 7)
(:sha256 8)
(:sha384 9)
(:sha512 10)
(:sha224 11)
(:md4 301)
(:crc32 302)
(:crc32-rfc1010 303)
(:crc24-rfc2440 304))

;;;

(defcenum gpgme-sig-mode-t
"The available signature modes."
(:none 0)
(:detach 1)
(:clear 2))

;;;

(defcenum gpgme-validity-t
"The available validities for a trust item or key."
(:unknown 0)
(:undefined 1)
(:never 2)
(:marginal 3)
(:full 4)
(:ultimate 5))
(defcenum gpgme-protocol-t
  "The available protocols."
  (:openpgp 0)
  (:cms 1)
  (:gpgconf 2)
  (:assuan 3)
  (:g13 4)
  (:uiserver 5)
  (:spawn 6)
  (:default 254)
  (:unknown 255))

(defbitfield (gpgme-keylist-mode-t :unsigned-int)
  "The available keylist mode flags."
  (:local 1)
  (:extern 2)
  (:sigs 4)
  (:sig-notations)
  (:with-secret 16)
  (:with-tofu 32)
  (:ephemeral 128)
  (:validate 256))

(defbitfield (gpgme-sig-notation-flags-t :unsigned-int)
  "The available signature notation flags."
  (:human-readable 1)
  (:critical 2))

(defctype gpgme-sig-notation-t
  (:wrapper :pointer
    :from-c translate-gpgme-sig-notation-t-from-foreign)
  "Signature notation pointer type."
)

:: FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-sig-notation-bitfield :unsigned-int)
  (:human-readable 1)
  (:critical 2))

(defcstruct gpgme-sig-notation
  "Signature notations."
  (next gpgme-sig-notation-t)
  (name :pointer)
(value :pointer)
(name-len :int)
(value-len :int)
(flags gpgme-sig-notation-flags-t)
(bitfield gpgme-sig-notation-bitfield))

;;;

defcenum gpgme-status-code-t
"The possible status codes for the edit operation."
(:eof 0)
(:enter 1)
(:leave 2)
(:abort 3)
(:goodsig 4)
(:badsig 5)
(:errsig 6)
(:badarmor 7)
(:rsa-or-idea 8)
(:keyexpired 9)
(:keyrevoked 10)
(:trust-undefined 11)
(:trust-never 12)
(:trust-marginal 13)
(:trust-fully 14)
(:trust-ultimate 15)
(:shm-info 16)
(:shm-get 17)
(:shm-get-bool 18)
(:shm-get-hidden 19)
(:need-passphrase 20)
(:validsig 21)
(:sig-id 22)
(:enc-to 23)
(:nodata 24)
(:bad-passphrase 25)
(:no-pubkey 26)
(:no-seckey 27)
(:need-passphrase-sym 28)
(:decryption-failed 29)
(:decryption-okay 30)
(:missing-passphrase 31)
(:good-passphrase 32)
(:goodmdc 33)
(:badmdc 34)
(:errmdc 35)
(:imported 36)
(:import-ok 37)
(defctype gpgme-engine-info-t
  (:wrapper :pointer
   :from-c translate-gpgme-engine-info-t-to-foreign)
  "The engine information structure pointer type.")

(defcstruct gpgme-engine-info
  "Engine information."
  (next gpgme-engine-info-t)
  (protocol gpgme-protocol-t)
  (file-name :string)
  (version :string)
  (req-version :string)
  (home-dir :string))

;;;

(defctype gpgme-subkey-t
  (:wrapper :pointer
   :from-c translate-gpgme-subkey-t-from-foreign)
  "A subkey from a key.")

;;;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-subkey-bitfield :unsigned-int)
  "The subkey bitfield."
  (:revoked 1)
  (:expired 2)
  (:disabled 4)
  (:invalid 8)
  (:can-encrypt 16)
  (:can-sign 32)
(can-certify 64)
(secret 128)
(can-authenticate 256)
(is-qualified 512)
(is-cardkey 1024)
(is-de-vs 2048))

(defcstruct gpgme-subkey
"Subkey from a key."
(next gpgme-subkey-t)
(bitfield gpgme-subkey-bitfield)
(pubkey-algo gpgme-pubkey-algo-t)
(length :unsigned-int)
(keyid :string)
(-keyid :char :count 17)
(fpr :string)
(timestamp :long)
(expires :long))

(defctype gpgme-key-sig-t
  (:wrapper :pointer
    :from-c translate-gpgme-key-sig-t-from-foreign)
  "A signature on a user ID."
  ;; FIXME: Doesn't this depend on endianness?
  (defbitfield (gpgme-key-sig-bitfield :unsigned-int)
    "The key signature bitfield."
    (:revoked 1)
    (:expired 2)
    (:invalid 4)
    (:exportable 16))

(defcstruct gpgme-key-sig
"A signature on a user ID."
(next gpgme-key-sig-t)
(bitfield gpgme-key-sig-bitfield)
(pubkey-algo gpgme-pubkey-algo-t)
(keyid :string)
(-keyid :char :count 17)
(timestamp :long)
(expires :long)
(status gpgme-error-no-signal-t)
(-class :unsigned-int)
(uid :string)
(name :string)
(email :string)
(comment :string)
(sig-class :unsigned-int))

(defctype gpgme-user-id-t
  (:wrapper :pointer
   :from-c translate-gpgme-user-id-t-from-foreign)
  "A user ID from a key.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-user-id-bitfield :unsigned-int)
  "The user ID bitfield."
  (:revoked 1)
  (:invalid 2))

(defcstruct gpgme-user-id
  "A user ID from a key."
  (next gpgme-user-id-t)
  (bitfield gpgme-user-id-bitfield)
  (validity gpgme-validity-t)
  (uid :string)
  (name :string)
  (email :string)
  (comment :string)
  (signatures gpgme-key-sig-t)
  (-last-keysig gpgme-key-sig-t))

(defctype gpgme-key-t
  (:wrapper :pointer
   :from-c translate-gpgme-key-t-from-foreign
   :to-c translate-gpgme-key-t-to-foreign)
  "A key from the keyring.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-key-bitfield :unsigned-int)
  "The key bitfield."
  (:revoked 1)
  (:expired 2)
  (:disabled 4)
  (:invalid 8)
  (:can-encrypt 16)
  (:can-sign 32)
  (:can-certify 64)
  (:secret 128)
  (:can-authenticate 256)
  (:is-qualified 512))

(defcstruct gpgme-key
"A signature on a user ID."
(-refs :unsigned-int)
(bitfield gpgme-key-bitfield)
(protocol gpgme-protocol-t)
(issuer-serial :string)
(issuer-name :string)
(chain-id :string)
(owner-trust gpgme-validity-t)
(subkeys gpgme-subkey-t)
(uids gpgme-user-id-t)
(-last-subkey gpgme-subkey-t)
(-last-uid gpgme-user-id-t)
(keylist-mode gpgme-keylist-mode-t))

;;;

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-passphrase-cb-t :pointer)
(defctype gpgme-progress-cb-t :pointer)
(defctype gpgme-edit-cb-t :pointer)

;;;
;;; Function Interface
;;;

;;; Context management functions.

(defun ("gpgme_new" c-gpgme-new) gpgme-error-t
  (ctx :pointer))

(defun ("gpgme_release" c-gpgme-release) :void
  (ctx gpgme-ctx-t))

(defun ("gpgme_set_protocol" c-gpgme-set-protocol) gpgme-error-t
  (ctx gpgme-ctx-t)
  (proto gpgme-protocol-t))

(defun ("gpgme_get_protocol" c-gpgme-get-protocol) gpgme-protocol-t
  (ctx gpgme-ctx-t))

(defun ("gpgme_get_protocol_name" c-gpgme-get-protocol-name) :string
  (proto gpgme-protocol-t))
(cb-p :pointer)
(hook-value-p :pointer))

(defun ("gpgme_set_locale" c-gpgme-set-locale) gpgme-error-t
  (ctx gpgme-ctx-t)
  (category :int)
  (value string-or-nil-t))

(defun ("gpgme_ctx_get_engine_info" c-gpgme-ctx-get-engine-info)
  gpgme-engine-info-t
  (ctx gpgme-ctx-t))

(defun ("gpgme_ctx_set_engine_info" c-gpgme-ctx-set-engine-info)
  gpgme-error-t
  (ctx gpgme-ctx-t)
  (proto gpgme-protocol-t)
  (file-name string-or-nil-t)
  (home-dir string-or-nil-t))

;;

(defun ("gpgme_pubkey_algo_name" c-gpgme-pubkey-algo-name) :string
  (algo gpgme-pubkey-algo-t))

(defun ("gpgme_hash_algo_name" c-gpgme-hash-algo-name) :string
  (algo gpgme-hash-algo-t))

;;

(defun ("gpgme_signers_clear" c-gpgme-signers-clear) :void
  (ctx gpgme-ctx-t))

(defun ("gpgme_signers_add" c-gpgme-signers-add) gpgme-error-t
  (ctx gpgme-ctx-t)
  (key gpgme-key-t))

(defun ("gpgme_signers_enum" c-gpgme-signers-enum) gpgme-key-t
  (ctx gpgme-ctx-t)
  (seq :int))

;;

(defun ("gpgme_sig_notation_clear" c-gpgme-sig-notation-clear) :void
  (ctx gpgme-ctx-t))

(defun ("gpgme_sig_notation_add" c-gpgme-sig-notation-add) gpgme-error-t
  (ctx gpgme-ctx-t)
  (name :string)
;;; Run Control.

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-io-cb-t :pointer)

(defctype gpgme-register-io-cb-t :pointer)

(defctype gpgme-remove-io-cb-t :pointer)

(defcenum gpgme-event-io-t
"The possible events on I/O event callbacks."
(:start 0)
(:done 1)
(:next-key 2)
(:next-trustitem 3))

(defctype gpgme-event-io-cb-t :pointer)

(defcstruct gpgme-io-cbs
"I/O callbacks."
(add gpgme-register-io-cb-t)
(add-priv :pointer)
(remove gpgme-remove-io-cb-t)
(event gpgme-event-io-cb-t)
(event-priv :pointer))

(defctype gpgme-io-cbs-t :pointer)

(defcfun ("gpgme_set_io_cbs" c-gpgme-set-io-cbs) :void
(ctx gpgme-ctx-t)
(io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_get_io_cbs" c-gpgme-get-io-cbs) :void
(ctx gpgme-ctx-t)
(io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_wait" c-gpgme-wait) gpgme-ctx-t
(ctx gpgme-ctx-t)
(status-p :pointer)
;; Functions to handle data objects.

;; There is no support in CFFI to define callback C types and have
;; automatic type checking with the callback definition.

(defctype gpgme-data-read-cb-t :pointer)
(defctype gpgme-data-write-cb-t :pointer)
(defctype gpgme-data-seek-cb-t :pointer)
(defctype gpgme-data-release-cb-t :pointer)

(defcstruct gpgme-data-cbs
  "Data callbacks."
  (read gpgme-data-read-cb-t)
  (write gpgme-data-write-cb-t)
  (seek gpgme-data-seek-cb-t)
  (release gpgme-data-release-cb-t))

(defctype gpgme-data-cbs-t :pointer
  "Data callbacks pointer.")

(defcfun ("gpgme_data_read" c-gpgme-data-read) ssize-t
  (dh gpgme-data-t)
  (buffer :pointer)
  (size size-t))

(defcfun ("gpgme_data_write" c-gpgme-data-write) ssize-t
  (dh gpgme-data-t)
  (buffer :pointer)
  (size size-t))

(defcfun ("gpgme_data_seek" c-gpgme-data-seek) off-t
  (dh gpgme-data-t)
  (offset off-t)
  (whence :int))

(defcfun ("gpgme_data_new" c-gpgme-data-new) gpgme-error-t
  (dh-p :pointer))

(defcfun ("gpgme_data_release" c-gpgme-data-release) :void
  (dh gpgme-data-t))

(defcfun ("gpgme_data_new_from_mem" c-gpgme-data-new-from-mem) gpgme-error-t
  (dh-p :pointer)
  (buffer :pointer)
  (size size-t)
  (copy :int))
(defcfun ("gpgme_data_release_and_get_mem" c-gpgme-data-release-and-get-mem) :pointer
 (dh gpgme-data-t)
 (len-p :pointer))

(defcfun ("gpgme_data_new_from_cbs" c-gpgme-data-new-from-cbs) gpgme-error-t
 (dh-p :pointer)
 (cbs gpgme-data-cbs-t)
 (handle :pointer))

(defcfun ("gpgme_data_new_from_fd" c-gpgme-data-new-from-fd) gpgme-error-t
 (dh-p :pointer)
 (fd :int))

(defcfun ("gpgme_data_new_from_stream" c-gpgme-data-new-from-stream) gpgme-error-t
 (dh-p :pointer)
 (stream :pointer))

(defcfun ("gpgme_data_get_encoding" c-gpgme-data-get-encoding) gpgme-data-encoding-t
 (dh gpgme-data-t))

(defcfun ("gpgme_data_set_encoding" c-gpgme-data-set-encoding) gpgme-error-t
 (dh gpgme-data-t)
 (enc gpgme-data-encoding-t))

(defcfun ("gpgme_data_get_file_name" c-gpgme-data-get-file-name) :string
 (dh gpgme-data-t))

(defcfun ("gpgme_data_set_file_name" c-gpgme-data-set-file-name) gpgme-error-t
 (dh gpgme-data-t)
 (file-name string-or-nil-t))

(defcfun ("gpgme_data_new_from_file" c-gpgme-data-new-from-file) gpgme-error-t
 (dh-p :pointer)
 (fname :string)
 (copy :int))

(defcfun ("gpgme_data_new_from_filepart" c-gpgme-data-new-from-filepart) gpgme-error-t
 (dh-p :pointer)
 (fname :string)
 (fp :pointer)
 (offset off-t)
 (length size-t))
;;; Key and trust functions.

(defun gpgme-get-key (ctx fpr key-secret)
  (gpgme-error-t)
)

(defun gpgme-key-ref (key)
  (void)
)

(defun gpgme-key-unref (key)
  (void)
)

;;; Crypto operations.

(defun gpgme-cancel (ctx)
  (gpgme-error-t)
)

;;;

(defun gpgme-invalid-key
  (gpgme-invalid-key-t)
)

(defun gpgme-invalid-key
  (gpgme-invalid-key-t)
)

(defun gpgme-op-encrypt-result (ctx)
  (gpgme-op-encrypt-result-t)
)

;;; Encryption.

(defun gpgme-op-encrypt-result
  (gpgme-op-encrypt-result-t)
)
(defbitfield gpgme-encrypt-flags-t
  (:always-trust 1)
  (:no-encrypt-to 2)
  (:prepare 4)
  (:expect-sign 8)
  (:no-compress 16)
  (:symmetric 32)
  (:throw-keyids 64)
  (:wrap 128)
  (:want-address 256))

(defcfun ("gpgme_op_encrypt_start" c-gpgme-op-encrypt-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt" c-gpgme-op-encrypt) gpgme-error-t
  (ctx gpgme-ctx-t)
  (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt_sign_start" c-gpgme-op-encrypt-sign-start)
  gpgme-error-t
  (ctx gpgme-ctx-t)
  (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt_sign" c-gpgme-op-encrypt-sign) gpgme-error-t
  (ctx gpgme-ctx-t)
  (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))

;; Decryption.

(defctype gpgme-recipient-t
  (:wrapper :pointer
    :from-c translate-gpgme-recipient-t-from-foreign)
  "A recipient structure.")

(defcstruct gpgme-recipient
"Recipient structure."
(next gpgme-recipient-t)
(keyid :string)
(-keyid :char :count 17)
(pubkey-algo gpgme-pubkey-algo-t)
(status gpgme-error-no-signal-t))

(defbitfield gpgme-op-decrypt-result-bitfield
"Decryption result structure bitfield."
(:wrong-key-usage 1)
(:is-de-vs 2)
(:is-mine 4))

(defcstruct gpgme-op-decrypt-result
"Decryption result structure."
(unsupported-algorithm :string)
(bitfield gpgme-op-decrypt-result-bitfield)
(recipients gpgme-recipient-t)
(file-name :string))

(defctype gpgme-op-decrypt-result-t
  (:wrapper :pointer
    :from-c translate-gpgme-op-decrypt-result-t-from-foreign)
"A decryption result structure.")

(defcfun ("gpgme_op_decrypt_result" c-gpgme-op-decrypt-result) gpgme-op-decrypt-result-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_decrypt_start" c-gpgme-op-decrypt-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (cipher gpgme-data-t)
  (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt" c-gpgme-op-decrypt) gpgme-error-t
  (ctx gpgme-ctx-t)
  (cipher gpgme-data-t)
  (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify_start" c-gpgme-op-decrypt-verify-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (cipher gpgme-data-t)
  (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify" c-gpgme-op-decrypt-verify) gpgme-error-t
  (ctx gpgme-ctx-t)
  (cipher gpgme-data-t)
;;; Signing.

(defctype gpgme-new-signature-t
    (:wrapper :pointer
     :from-c translate-gpgme-new-signature-t-from-foreign)
    "A new signature structure.")

(defcstruct gpgme-new-signature
    "New signature structure."
    (next gpgme-new-signature-t)
    (type gpgme-sig-mode-t)
    (pubkey-algo gpgme-pubkey-algo-t)
    (hash-algo gpgme-hash-algo-t)
    (-obsolete-class :unsigned-long)
    (timestamp :long)
    (fpr :string)
    (-obsolete-class-2 :unsigned-int)
    (sig-class :unsigned-int))

(defcstruct gpgme-op-sign-result
    "Signing result structure."
    (invalid-signers gpgme-invalid-key-t)
    (signatures gpgme-new-signature-t))

(defctype gpgme-op-sign-result-t
    (:wrapper :pointer
     :from-c translate-gpgme-op-sign-result-t-from-foreign)
    "A signing result structure.")

(defcfun ("gpgme_op_sign_result" c-gpgme-op-sign-result)
    gpgme-op-sign-result-t
    (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_sign_start" c-gpgme-op-sign-start) gpgme-error-t
    (ctx gpgme-ctx-t)
    (plain gpgme-data-t)
    (sig gpgme-data-t)
    (mode gpgme-sig-mode-t))

(defcfun ("gpgme_op_sign" c-gpgme-op-sign) gpgme-error-t
    (ctx gpgme-ctx-t)
    (plain gpgme-data-t)
    (sig gpgme-data-t)
    (mode gpgme-sig-mode-t))

;;; Verify.
(defbitfield (gpgme-sigsum-t :unsigned-int)
  "Flags used for the summary field in a gpgme-signature-t."
  (:valid #x0001)
  (:green #x0002)
  (:red #x0004)
  (:key-revoked #x0010)
  (:key-expired #x0020)
  (:sig-expired #x0040)
  (:crl-missing #x0080)
  (:crl-too-old #x0200)
  (:bad-policy #x0400)
  (:sys-error #x0800)
  (:tofu-conflict #x1000))

(defctype gpgme-signature-t
  (:wrapper :pointer
     :from-c translate-gpgme-signature-t-from-foreign)
  "A signature structure.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-signature-bitfield :unsigned-int)
  "The signature bitfield."
  (:wrong-key-usage 1)
  (:pka-trust 2)
  (:chain-model 4)
  (:is-de-vs 8))

(defcstruct gpgme-signature
  "Signature structure."
  (next gpgme-signature-t)
  (summary gpgme-sigsum-t)
  (fpr :string)
  (status gpgme-error-no-signal-t)
  (notations gpgme-sig-notation-t)
  (timestamp :unsigned-long)
  (exp-timestamp :unsigned-long)
  (bitfield gpgme-signature-bitfield)
  (validity gpgme-validity-t)
  (validity-reason gpgme-error-no-signal-t)
  (pubkey-algo gpgme-pubkey-algo-t)
  (hash-algo gpgme-hash-algo-t))

(defcstruct gpgme-op-verify-result
  "Verify result structure."
  (signatures gpgme-signature-t)
  (file-name :string))
(defctype gpgme-op-verify-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-op-verify-result-t-from-foreign)
  "A verify result structure.")

(defcfun ("gpgme_op_verify_result" c-gpgme-op-verify-result)
  gpgme-op-verify-result-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_verify_start" c-gpgme-op-verify-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (sig gpgme-data-t)
  (signed-text gpgme-data-t)
  (plaintext gpgme-data-t))

(defcfun ("gpgme_op_verify" c-gpgme-op-verify) gpgme-error-t
  (ctx gpgme-ctx-t)
  (sig gpgme-data-t)
  (signed-text gpgme-data-t)
  (plaintext gpgme-data-t))

;;; Import.

(defbitfield (gpgme-import-flags-t :unsigned-int)
  "Flags used for the import status field."
  (:new #x0001)
  (:uid #x0002)
  (:sig #x0004)
  (:subkey #x0008)
  (:secret #x0010))

(defctype gpgme-import-status-t
  (:wrapper :pointer
   :from-c translate-gpgme-import-status-t-from-foreign)
  "An import status structure.")

(defcstruct gpgme-import-status
  "New import status structure."
  (next gpgme-import-status-t)
  (fpr :string)
  (result gpgme-error-no-signal-t)
  (status :unsigned-int))

(defcstruct gpgme-op-import-result
  "Import result structure."
  (considered :int)
  (no-user-id :int)
(imported :int)
(imported-rsa :int)
(unchanged :int)
(new-user-ids :int)
(new-sub-keys :int)
(new-signatures :int)
(new-revocations :int)
(secret-read :int)
(secret-imported :int)
(secret-unchanged :int)
(skipped-new-keys :int)
(not-imported :int)

(imports gpgme-import-status-t))

(defctype gpgme-op-import-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-op-import-result-t-from-foreign)
"An import status result structure.")

(defcfun ("gpgme_op_import_result" c-gpgme-op-import-result)
gpgme-op-import-result-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_import_start" c-gpgme-op-import-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (keydata gpgme-data-t))

(defcfun ("gpgme_op_import" c-gpgme-op-import) gpgme-error-t
  (ctx gpgme-ctx-t)
  (keydata gpgme-data-t))

;;; Export.

(defcfun ("gpgme_op_export_start" c-gpgme-op-export-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (pattern :string)
  (reserved :unsigned-int)
  (keydata gpgme-data-t))

(defcfun ("gpgme_op_export" c-gpgme-op-export) gpgme-error-t
  (ctx gpgme-ctx-t)
  (pattern :string)
  (reserved :unsigned-int)
  (keydata gpgme-data-t))

;;; FIXME: Extended export interfaces require array handling.

;;; Key generation.
(defbitfield (gpgme-genkey-flags-t :unsigned-int)
"Flags used for the key generation result bitfield."
(:primary #x0001)
(:sub #x0002)
(:uid #x0004))

(defcstruct gpgme-op-genkey-result
"Key generation result structure."
(bitfield gpgme-genkey-flags-t)
(fpr :string))

(defctype gpgme-op-genkey-result-t :pointer
"A key generation result structure.")

(defcfun ("gpgme_op_genkey_result" c-gpgme-op-genkey-result)
  gpgme-op-genkey-result-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_genkey_start" c-gpgme-op-genkey-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (parms :string)
  (pubkey gpgme-data-t)
  (seckey gpgme-data-t))

(defcfun ("gpgme_op_genkey" c-gpgme-op-genkey) gpgme-error-t
  (ctx gpgme-ctx-t)
  (parms :string)
  (pubkey gpgme-data-t)
  (seckey gpgme-data-t))

;;; Key deletion.

(defcfun ("gpgme_op_delete_start" c-gpgme-op-delete-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (key gpgme-key-t)
  (allow-secret :int))

(defcfun ("gpgme_op_delete" c-gpgme-op-delete) gpgme-error-t
  (ctx gpgme-ctx-t)
  (key gpgme-key-t)
  (allow-secret :int))

;;; FIXME: Add edit interfaces.

;;; Keylist interface.

(defbitfield (gpgme-keylist-flags-t :unsigned-int)
"Flags used for the key listing result bitfield."
(:truncated #x0001))

(defcstruct gpgme-op-keylist-result
"Key listing result structure."
(bitfield gpgme-keylist-flags-t))

(defctype gpgme-op-keylist-result-t :pointer
"A key listing result structure.")

(defcfun ("gpgme_op_keylist_result" c-gpgme-op-keylist-result)
  gpgme-op-keylist-result-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_keylist_start" c-gpgme-op-keylist-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (pattern :string)
  (secret_only :boolean))

;;; FIXME: Extended keylisting requires array handling.

(defcfun ("gpgme_op_keylist_next" c-gpgme-op-keylist-next) gpgme-error-t
  (ctx gpgme-ctx-t)
  (r-key :pointer))

(defcfun ("gpgme_op_keylist_end" c-gpgme-op-keylist-end) gpgme-error-t
  (ctx gpgme-ctx-t))

;;; Various functions.

(defcfun ("gpgme_check_version" c-gpgme-check-version) :string
  (req-version string-or-nil-t))

(defcfun ("gpgme_get_engine_info" c-gpgme-get-engine-info) gpgme-error-t
  (engine-info-p :pointer))

(defcfun ("gpgme_set_engine_info" c-gpgme-set-engine-info) gpgme-error-t
  (proto gpgme-protocol-t)
  (file-name string-or-nil-t)
  (home-dir string-or-nil-t))

(defcfun ("gpgme_engine_check_version" c-gpgme-engine-check-version)
  gpgme-error-t
  (proto gpgme-protocol-t))

;;;
;;; L I S P   I N T E R F A C E
;;;
;;;
;;; Lisp type translators.

;;; Both directions.

;;; cert-int-t is a helper type that takes care of representing the default number of certs as NIL.

(defun translate-cert-int-t-from-foreign (value)
  (cond
   ((eql value +include-certs-default+) nil)
   (t value)))

(defun translate-cert-int-t-to-foreign (value)
  (cond
   (value value)
   (t +include-certs-default+)))

;;; string-or-nil-t translates a null pointer to NIL and vice versa.
;;; Translation from foreign null pointer already works as expected.

(defun translate-string-or-nil-t-to-foreign (value)
  (cond
   (value value)
   (t (null-pointer))));

;;; Output only.

;;; These type translators only convert from foreign type, because we never use these types in the other direction.

;;; Convert gpgme-engine-info-t linked lists into a list of property lists. Note that this converter will automatically be invoked recursively.

(defun translate-gpgme-engine-info-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
       ((next protocol file-name version req-version home-dir)
        value (:struct gpgme-engine-info))
        (append (list protocol (list :file-name file-name))))}

(defun translate-gpgme-engine-info-t-to-foreign (value)
  (cond
   (value value)
   (t (with-foreign-slots
       ((next protocol file-name version req-version home-dir)
        value (:struct gpgme-engine-info))
        (append (list protocol (list :file-name file-name))))}
(defun translate-gpgme-invalid-key-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        (next fpr reason)
        value (:struct gpgme-invalid-key))
      (append (list (list :fpr fpr
                          :reason reason))
               next))))

(defun translate-gpgme-op-encrypt-result-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        (invalid-recipients)
        value (:struct gpgme-op-encrypt-result))
      (list :encrypt
            (list :invalid-recipients invalid-recipients))))))

(defun translate-gpgme-recipient-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        (next keyid pubkey-algo status)
        value (:struct gpgme-recipient))
      (append (list (list :keyid keyid
                          :pubkey-algo pubkey-algo
                          :status status))
               next))))

(defun translate-gpgme-op-decrypt-result-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        (unsupported-algorithm bitfield recipients file-name)
        value (:struct gpgme-op-decrypt-result))
      (list :decrypt (list :unsupported-algorithm unsupported-algorithm
                           :bitfield bitfield
                           :recipients recipients
                           :file-name file-name))))))

(defun translate-gpgme-new-signature-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        (next)
        value (:struct gpgme-new-signature))
      (append (list (list :signature signature))
               next))))
((null-pointer-p value) nil)
(t (with-foreign-slots
  ((next type pubkey-algo hash-algo timestamp fpr sig-class)
   value (:struct gpgme-new-signature))
  (append (list (list :type type
                     :pubkey-algo pubkey-algo
                     :hash-algo hash-algo
                     :timestamp timestamp
                     :fpr fpr
                     :sig-class sig-class))
          next))))

(defun translate-gpgme-op-sign-result-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        (invalid-signers signatures)
        value (:struct gpgme-op-sign-result))
        (list :sign (list :invalid-signers invalid-signers
                        :signatures signatures))))))

(defun translate-gpgme-signature-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        (next summary fpr status notations timestamp
               exp-timestamp bitfield validity validity-reason
               pubkey-algo hash-algo)
        value (:struct gpgme-signature))
        (append (list (list :summary summary
                             :fpr fpr
                             :status status
                             :notations notations
                             :timestamp timestamp
                             :exp-timestamp exp-timestamp
                             :bitfield bitfield
                             :validity validity
                             :validity-reason validity-reason
                             :pubkey-algo pubkey-algo)
                 next))))

(defun translate-gpgme-op-verify-result-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        (signatures file-name)
        value (:struct gpgme-op-verify-result))
        (list :verify (list :signatures signatures))))
(defun translate-gpgme-import-status-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((next fpr result status)
          value (:struct gpgme-import-status))
        append (list (list :fpr fpr
                           :result result
                           :status status))
        next))))

(defun translate-gpgme-op-import-result-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((considered no-user-id imported imported-rsa unchanged
                      new-user-ids new-sub-keys new-signatures
                      new-revocations secret-read secret-imported
                      secret-unchanged skipped-new-keys not-imported
                      imports)
          value (:struct gpgme-op-import-result))
        (list :verify (list :considered considered
                             :no-user-id no-user-id
                             :imported imported
                             :imported-rsa imported-rsa
                             :unchanged unchanged
                             :new-user-ids new-user-ids
                             :new-sub-keys new-sub-keys
                             :new-signatures new-signatures
                             :new-revocations new-revocations
                             :secret-read secret-read
                             :secret-imported secret-imported
                             :secret-unchanged secret-unchanged
                             :skipped-new-keys skipped-new-keys
                             :not-imported not-imported
                             :imports imports))))))

;;; Error handling.

;;; Use gpgme-error-no-signal-t to suppress automatic error handling
;;; at translation time.

;;; FIXME: Part of this probably should be in gpg-error!

(define-condition gpgme-error (error)
  ((value :initarg :gpgme-error :reader gpgme-error-value))
(report (lambda (c stream)
  (format stream "GPGME returned error: ~A (~A)"
  (gpgme-strerror (gpgme-error-value c))
  (gpgme-strsource (gpgme-error-value c)))))

(:documentation "Signalled when a GPGME function returns an error.")

(defun translate-gpgme-error-t-from-foreign (value)
  "Raise a GPGME-ERROR if VALUE is non-zero."
  (when (not (eql (gpgme-err-code value) :gpg-err-no-error))
    (error 'gpgme-error :gpgme-error value)
    (gpg-err-canonicalize value))

(defun translate-gpgme-error-t-to-foreign (value)
  "Canonicalize the error value."
  (if (eql (gpgme-err-code value) :gpg-err-no-error)
    0
    (gpg-err-as-value value)))

(defun translate-gpgme-error-no-signal-t-from-foreign (value)
  "Canonicalize the error value."
  (gpg-err-canonicalize value))

;;;; *INTERNAL* Lispy Function Interface that is still close to the C
;;;; interface.

;;;; Passphrase callback management.

;;;; Maybe: Instead, use subclassing, and provide a customizable
;;;; default implementation for ease-of-use.

(defvar *passphrase-handles* (make-hash-table)
  "Hash table with GPGME context address as key and the corresponding
  passphrase callback object as value.")

(defcallback passphrase-cb gpgme-error-t ((handle :pointer)
  (uid-hint :string)
  (passphrase-info :string)
  (prev-was-bad :boolean)
  (fd :int))

(handler-case
  (let* ((passphrase-cb
    (gethash (pointer-address handle) *passphrase-handles*))
    (passphrase
      (cond
        ((functionp passphrase-cb)
          (gethash (pointer-address handle) *passphrase-handles*))
        (passphrase))
    (cond
      (functionp passphrase-cb)
      (concatenate 'string
        (funcall passphrase-cb uid-hint passphrase-info
        (gethash (pointer-address handle) *passphrase-handles*))
        ...
prev-was-bad)
'(#
Newline)))
(t (concatenate 'string passphrase-cb '(#
Newline))))
(passphrase-len (length passphrase))
;; FIXME: Could be more robust.
(res (system-write fd passphrase passphrase-len)))
(cond
((< res passphrase-len) ; FIXME: Blech. A weak attempt to be robust.
(gpgme-error :gpg-err-inval))
(t (gpgme-error :gpg-err-no-error)))
(gpgme-error (err) (gpgme-error-value err))
(system-error (err) (gpgme-error-from-errno (system-error-errno err)))
;; FIXME: The original error gets lost here.
(condition (err) (progn
  (when *debug*
    (format t "DEBUG: passphrase-cb: Unexpressable: ~A~%" err))
    (gpgme-error :gpg-err-general)))))

;; CTX is a C-pointer to the context.
(defun gpgme-set-passphrase-cb (ctx cb)
  "Set the passphrase callback for CTX."
  (let ((handle (pointer-address ctx)))
    (cond
      (cb
       (setf (gethash handle *passphrase-handles*) cb)
       (c-gpgme-set-passphrase-cb ctx (callback passphrase-cb) ctx))
      (t (c-gpgme-set-passphrase-cb ctx (null-pointer) (null-pointer))
       (remhash handle *passphrase-handles*))))))

;; Progress callback management.

;; Maybe: Instead, use subclassing, and provide a customizable
;; default implementation for ease-of-use.

(defvar *progress-handles* (make-hash-table)
  "Hash table with GPGME context address as key and the corresponding
  progress callback object as value.")

(defcallback progress-cb :void ((handle :pointer)
  (what :string)
  (type :int)
  (current :int)
  (total :int))
  (handler-case
    (let* (((progress-cb
      (gethash (pointer-address handle) *progress-handles*)))
      (funcall progress-cb what current total))
      ;; FIXME: The original error gets lost here.

(condition (err) (when *debug*
  (format t "DEBUG: progress-cb: Unexpressable: ~A~%" err))))

;;; CTX is a C-pointer to the context.
(defun gpgme-set-progress-cb (ctx cb)
  "Set the progress callback for CTX."
  (let ((handle (pointer-address ctx)))
    (cond
      (cb (setf (gethash handle *progress-handles*) cb)
           (c-gpgme-set-progress-cb ctx (callback progress-cb) ctx))
      (t (c-gpgme-set-progress-cb ctx (null-pointer) (null-pointer))
        (remhash handle *progress-handles*))))

;;; Context management.

(defun gpgme-new (&key (protocol :openpgp) armor textmode include-certs
                        keylist-mode passphrase progress file-name home-dir)
  "Allocate a new GPGME context."
  (with-foreign-object (ctx-p 'gpgme-ctx-t)
    (c-gpgme-new ctx-p)
    (let ((ctx (mem-ref ctx-p 'gpgme-ctx-t)))
      ;; Set locale?
      (gpgme-set-protocol ctx protocol)
      (gpgme-set-armor ctx armor)
      (gpgme-set-textmode ctx textmode)
      (when include-certs (gpgme-set-include-certs ctx include-certs))
      (when keylist-mode (gpgme-set-keylist-mode ctx keylist-mode))
      (gpgme-set-passphrase-cb ctx passphrase)
      (gpgme-set-progress-cb ctx progress)
      (gpgme-set-engine-info ctx protocol
                              :file-name file-name :home-dir home-dir)
      (when *debug* (format t "DEBUG: gpgme-new: ~A~%" ctx))
      ctx))

(defun gpgme-release (ctx)
  "Release a GPGME context."
  (when *debug* (format t "DEBUG: gpgme-release: ~A~%" ctx))
  (c-gpgme-release ctx))

(defun gpgme-set-protocol (ctx proto)
  "Set the protocol to be used by CTX to PROTO."
  (c-gpgme-set-protocol ctx proto))

(defun gpgme-get-protocol (ctx)
  "Get the protocol used with CTX."
  (c-gpgme-get-protocol ctx))
;;; FIXME: How to do pretty printing?
;;;
;;; gpgme-get-protocol-name

(defun gpgme-set-armor (ctx armor)
  "If ARMOR is true, enable armor mode in CTX, disable it otherwise."
  (c-gpgme-set-armor ctx armor))

(defun gpgme-armor-p (ctx)
  "Return true if armor mode is set for CTX."
  (c-gpgme-get-armor ctx))

(defun gpgme-set-textmode (ctx textmode)
  "If TEXTMODE is true, enable text mode mode in CTX, disable it otherwise."
  (c-gpgme-set-textmode ctx textmode))

(defun gpgme-textmode-p (ctx)
  "Return true if text mode mode is set for CTX."
  (c-gpgme-get-textmode ctx))

(defun gpgme-set-include-certs (ctx &optional certs)
  "Include up to CERTS certificates in an S/MIME message."
  (c-gpgme-set-include-certs ctx certs))

(defun gpgme-get-include-certs (ctx)
  "Return the number of certs to include in an S/MIME message,
  or NIL if the default is used."
  (c-gpgme-get-include-certs ctx))

(defun gpgme-get-keylist-mode (ctx)
  "Get the keylist mode in CTX."
  (c-gpgme-get-keylist-mode ctx))

(defun gpgme-set-keylist-mode (ctx mode)
  "Set the keylist mode in CTX."
  (c-gpgme-set-keylist-mode ctx mode))

;;; FIXME: How to handle locale? cffi-grovel?

(defun gpgme-get-engine-info (&optional ctx)
  "Retrieve the engine info for CTX, or the default if CTX is omitted."
  (cond
   ((ctx (c-gpgme-ctx-get-engine-info ctx))
    (t (with-foreign-object (info-p 'gpgme-engine-info-t)
       (c-gpgme-get-engine-info info-p)
       (mem-ref info-p 'gpgme-engine-info-t))))))
(defun gpgme-set-engine-info (ctx proto &key file-name home-dir)
  "Set the engine info for CTX, or the default if CTX is NIL."
  (cond
    (ctx (c-gpgme-ctx-set-engine-info ctx proto file-name home-dir))
    (t (c-gpgme-set-engine-info proto file-name home-dir)))))

;;; FIXME: How to do pretty printing?
;;;
;;; gpgme_pubkey_algo_name, gpgme_hash_algo_name

(defun gpgme-set-signers (ctx keys)
  "Set the signers for the context CTX."
  (c-gpgme-signers-clear ctx)
  (dolist (key keys) (c-gpgme-signers-add ctx key)))

;;;

(defun gpgme-set-sig-notation (ctx notations)
  "Set the sig notation for the context CTX."
  (c-gpgme-sig-notation-clear ctx)
  (dolist (notation notations)
    (c-gpgme-sig-notation-add
     ctx (first notation) (second notation) (third notation))))

(defun gpgme-get-sig-notation (ctx)
  "Get the signature notation data for the context CTX."
  (c-gpgme-sig-notation-get ctx))

;;; FIXME: Add I/O callback interface, for integration with clg.

;;; FIXME: Add gpgme_wait?

;;; Streams
;;; -------

;;; GPGME uses standard streams. You can define your own streams, or
;;; use the existing file or string streams.
;;;
;;; A stream-spec is either a stream, or a list with a stream as its
;;; first argument followed by keyword parameters: encoding,
;;; file-name.
;;;
;;; FIXME: Eventually, we should provide a class that can be mixed
;;; into stream classes and which provides accessors for encoding and
;;; file-names. This interface should be provided in addition to the
;;; above sleazy interface, because the sleazy interface is easier to
;;; use (less typing), and is quite sufficient in a number of cases.
;;; For best results, streams with element type (unsigned-byte 8)
;;; should be used. Character streams may work if armor mode is used.

;;; Do we need to provide access to GPGME data objects through streams
;;; as well? It seems to me that specific optimizations, like
;;; directly writing to file descriptors, is better done by extending
;;; the sleazy syntax (stream-spec) instead of customized streams.
;;; Customized streams do buffering, and this may mess up things. Mmh.

(defvar *data-handles* (make-hash-table)
"Hash table with GPGME data user callback handle address as key
and the corresponding stream as value.")

;;; The release callback removes the stream from the *data-handles*
;;; hash and releases the CBS structure that is used as the key in
;;; that hash. It is implicitly invoked (through GPGME) by
;;; gpgme-data-release.
(defcallback data-release-cb :void ((handle :pointer))
  (unwind-protect (remhash (pointer-address handle) *data-handles*)
    (when (not (null-pointer-p handle)) (foreign-free handle))))

(definecallback data-read-cb ssize-t ((handle :pointer) (buffer :pointer) (size size-t))
  (when *debug* (format t "DEBUG: gpgme-data-read-cb: want ~A~%") size)
  (let ((stream (gethash (pointer-address handle) *data-handles*)))
    (cond
      (stream
       (let* ((stream-type (stream-element-type stream))
          (seq (make-array size :element-type stream-type))
          (read (read-sequence seq stream)))
        (cond
          ((equal stream-type '(unsigned-byte 8))
           (do (i read)
                (setf (mem-aref buffer :unsigned-char i)
                      (aref (the byte-array seq) i)))
          ((eql stream-type 'character)
           (do (i read)
                (setf (mem-aref buffer :unsigned-char i)
                      (char-code (aref (the character-array seq) i))))))
        t
        (do (i read)
            (setf (mem-aref buffer :unsigned-char i)
                  (coerce (aref seq i) '(unsigned-byte 8))))
        (when *debug* (format t "DEBUG: gpgme-data-read-cb: read ~A~" read))
        t
        (set-errno +ebadf+ -1))))

(defcallback data-write-cb ssize-t ((handle :pointer) (buffer :pointer) (size size-t))
  (when *debug* (format t "DEBUG: gpgme-data-write-cb: want ~A~%" size))
  (let ((stream (gethash (pointer-address handle) *data-handles*)))
    (cond
      (stream
        (let* ((stream-type (stream-element-type stream))
            (seq (make-array size :element-type stream-type)))
          (cond
            ((equal stream-type '(unsigned-byte 8))
              (dotimes (i size)
                (setf (aref (the byte-array seq) i) (mem-aref buffer :unsigned-char i))))
            ((eql stream-type 'character)
              (dotimes (i size)
                (setf (aref (the character-array seq) i) (code-char (mem-aref buffer :unsigned-char i))))))
          ((t
dotimes (i size)
            (setf (aref seq i) (coerce (mem-aref buffer :unsigned-char i) stream-type))))
          (write-sequence seq stream)
          (size))
        (t
          (set-errno +ebadf+)
          -1))))

;;; This little helper macro allows us to swallow the cbs structure by
;;; simply setting it to a null pointer, but still protect against
;;; conditions.
(defmacro with-cbs-swallowed ((cbs) &body body)
  `(let ((,cbs (foreign-alloc '(:struct gpgme-data-cbs))))
    (unwind-protect (progn ,@body)
      (when (not (null-pointer-p ,cbs)) (foreign-free ,cbs))))

(defun gpgme-data-new (stream &key encoding file-name)
  "Allocate a new GPGME data object for STREAM."
  (with-foreign-object (dh-p 'gpgme-data-t)
    ;; We allocate one CBS structure for each stream we wrap in a
    ;; data object. Although we could also share all these
    ;; structures, as they contain the very same callbacks, we need a
    ;; unique C pointer as handle anyway to look up the stream in the
    ;; callback. This is a convenient one to use.
    (with-cbs-swallowed (cbs)
      (setf (foreign-slot-value cbs `(struct gpgme-data-cbs) 'read)
            (callback data-read-cb))
      (setf (foreign-slot-value cbs `(struct gpgme-data-cbs) 'write)
(callback data-write-cb))

(setf (foreign-slot-value cbs ':struct gpgme-data-cbs) 'seek)
   (null-pointer))

(setf (foreign-slot-value cbs ':struct gpgme-data-cbs) 'release)
   (callback data-release-cb))

(c-gpgme-data-new-from-cbs dh-p cbs cbs)

(let ((dh (mem-ref dh-p 'gpgme-data-t)))

(when encoding (gpgme-data-set-encoding dh encoding))

(when file-name (gpgme-data-set-file-name dh file-name))

;; Install the stream into the hash table and swallow the cbs
   ;; structure while protecting against any errors.

(unwind-protect

   (progn

      (setf (gethash (pointer-address cbs) *data-handles*) stream)

      (setf cbs (null-pointer)))

   (when (not (null-pointer-p cbs)) (c-gpgme-data-release dh))))

;; This function releases a GPGME data object. It implicitly
;; invokes the data-release-cb function to clean up associated junk.
(defun gpgme-data-release (dh)

   "Release a GPGME data object."

   (when *debug* (format t "DEBUG: gpgme-data-release: ~A~\n")

   (c-gpgme-data-release dh))

(defclass data ()

   (c-data) ; The C data object pointer

   (:documentation "The GPGME data type."))

(defmethod initialize-instance :after ((data data) &key streamspec

   &allow-other-keys)

   (let ((c-data (if (listp streamspec)

     (apply #'gpgme-data-new streamspec)

     (gpgme-data-new streamspec)))

     (cleanup t))

   (unwind-protect

     (progn

       (setf (slot-value data 'c-data) c-data)

       (finalize data (lambda () (gpgme-data-release c-data)))

       (setf cleanup nil))

     (if cleanup (gpgme-data-release c-data))))

(defun translate-gpgme-data-t-to-foreign (value)

   ;; Allow a pointer to be passed directly for the finalizer to work.

   (cond

     ((null value) (null-pointer))

     ((pointerp value) value)}
(t (slot-value value 'c-data)))

(defmacro with-gpgme-data ((dh streamspec) &body body)
 'let ((,dh (make-instance 'data :streamspec ,streamspec))
   @body))

(defun gpgme-data-get-encoding (dh)
 "Get the encoding associated with the data object DH."
 (c-gpgme-data-get-encoding dh))

(defun gpgme-data-set-encoding (dh encoding)
 "Set the encoding associated with the data object DH to ENCODING."
 (c-gpgme-data-set-encoding dh encoding))

(defun gpgme-data-get-file-name (dh)
 "Get the file name associated with the data object DH."
 (c-gpgme-data-get-file-name dh))

(defun gpgme-data-set-file-name (dh file-name)
 "Set the file name associated with the data object DH to FILE-NAME."
 (c-gpgme-data-set-file-name dh file-name))

;;;FIXME: Add key accessor interfaces.

(defun gpgme-get-key (ctx fpr &optional secret)
 "Get the key with the fingerprint FPR from the context CTX."
 (with-foreign-object (key-p 'gpgme-key-t)
   (c-gpgme-get-key ctx fpr key-p secret)
   (mem-ref key-p 'gpgme-key-t)))

(defun gpgme-key-ref (key)
 "Acquire an additional reference to the key KEY."
 (when *debug* (format t "DEBUG: gpgme-key-ref: ~A~%" key))
 (c-gpgme-key-ref key))

(defun gpgme-key-unref (key)
 "Release a reference to the key KEY."
 (when *debug* (format t "DEBUG: gpgme-key-unref: ~A~%" key))
 (c-gpgme-key-unref key))

;;;FIXME: We REALLY need pretty printing for keys and all the other
;;; big structs.

;;; Various interfaces.

(defun gpgme-check-version (&optional req-version)
 (c-gpgme-check-version req-version))
;;;; The *EXPORTED* CLOS interface.

;;;; The context type.

;;;; We wrap the C context pointer into a class object to be able to stick a finalizer on it.

(defclass context ()
  (c-ctx ; The C context object pointer.
     :finalizer (lambda () (gpgme-release c-ctx)))
  (signers ; The list of signers.
    :type (list-of 'signer)
    :documentation "The list of signers.
    (:documentation "The GPGME context type.")")

(defmethod initialize-instance :after ((ctx context) &rest rest &key &allow-other-keys)
  (let ((c-ctx (apply #'gpgme-new rest))
        (cleanup t))
    (unwind-protect
      (progn (setf (slot-value ctx 'c-ctx) c-ctx)
              (finalize ctx (lambda () (gpgme-release c-ctx))))
      (setf cleanup nil))
    (if cleanup (gpgme-release c-ctx))))

(defun translate-gpgme-ctx-t-to-foreign (value)
  ;; Allow a pointer to be passed directly for the finalizer to work.
  (if (pointerp value) value (slot-value value 'c-ctx)))

(defun context (&rest rest)
  "Create a new GPGME context."
  `(make-instance 'context ,@rest))

;;;; The context type: Accessor functions.

;;;; The context type: Accessor functions: Protocol.

(defun protocol (ctx)
  (:documentation "Get the protocol of CONTEXT.")

(defmethod protocol ((ctx context))
  (gpgme-get-protocol ctx))

(defun (setf protocol) (protocol ctx)
  (:documentation "Set the protocol of CONTEXT to PROTOCOL.")

(setf cleanup (lambda () (gpgme-release c-ctx))))

;;; FIXME: Adjust translator to reject invalid protocols. Currently,
;;; specifying an invalid protocol throws a "NIL is not 32 signed int"
;;; error. This is suboptimal.
(defmethod (setf protocol) (protocol (ctx context))
  (gpgme-set-protocol ctx protocol))

;;; The context type: Accessor functions: Armor.
;;; FIXME: Is it good style to make foop setf-able? Or should it be
;;; foo/foop for set/get?

(defun armorp (ctx)
  (:documentation "Get the armor flag of CONTEXT."))

(defun armorp ((ctx context))
  (gpgme-armor-p ctx))

(defun (setf armorp) (armor (ctx context))
  (:documentation "Set the armor flag of CONTEXT to ARMOR."))

(defun (setf armorp) (armor (ctx context))
  (gpgme-set-armor ctx armor))

;;; The context type: Accessor functions: Textmode.
;;; FIXME: Is it good style to make foop setf-able? Or should it be
;;; foo/foop for set/get?

(defun textmodep (ctx)
  (:documentation "Get the text mode flag of CONTEXT."))

(defun textmodep ((ctx context))
  (gpgme-textmode-p ctx))

(defun (setf textmodep) (textmode (ctx context))
  (:documentation "Set the text mode flag of CONTEXT to TEXTMODE."))

(defun (setf textmodep) (textmode (ctx context))
  (gpgme-set-textmode ctx textmode))

;;; The context type: Accessor functions: Include Certs.

(defun include-certs (ctx)
  (:documentation "Get the number of included certificates in an
S/MIME message, or NIL if the default is used."))

(defun include-certs ((ctx context))
  (gpgme-get-include-certs ctx))

(defun (setf include-certs) (certs (ctx context))
  (:documentation "Return the number of certificates to include in an
S/MIME message, or NIL if the default is used."))
(defmethod (setf include-certs) (certs (ctx context))
  (gpgme-set-include-certs ctx certs))

;;; The context type: Accessor functions: Engine info.

(defun engine-info (ctx)
  (:documentation "Retrieve the engine info for CTX."))

(defun engine-info ((ctx context))
  (gpgme-get-engine-info ctx))

(defun (setf engine-info) (info ctx)
  (:documentation "Set the engine info for CTX."))

(defun (setf engine-info) (info (ctx context))
  (dolist (proto '(:openpgp :cms))
    (let ((pinfo (getf info proto)))
      (when pinfo
        (gpgme-set-engine-info ctx proto :file-name (getf pinfo :file-name)
          :home-dir (getf pinfo :home-dir)))))

;;; The context type: Accessor functions: Keylist mode.

(defun keylist-mode (ctx)
  (:documentation "Get the keylist mode of CTX."))

(defun keylist-mode ((ctx context))
  (gpgme-get-keylist-mode ctx))

(defun (setf keylist-mode) (mode ctx)
  (:documentation "Set the keylist mode of CTX to MODE."))

(defun (setf keylist-mode) (mode (ctx context))
  (gpgme-set-keylist-mode ctx mode))

;;; The context type: Accessor functions: Signers.

(defun signers (ctx)
  (:documentation "Get the signers of CTX."))

(defun signers ((ctx context))
  (slot-value ctx 'signers))

(defun (setf signers) (signers ctx)
  (:documentation "Set the signers of CTX to SIGNERS."))

(defun (setf signers) (signers (ctx context)))
(gpgme-set-signers ctx signers)
(setf (slot-value ctx 'signers) signers))

;;; The context type: Accessor functions: Sig notations.

(defun sig-notations (ctx)
  (slot-value ctx 'signers))

(defun setf sig-notations (notations ctx)
  (gpgme-set-signers ctx notations)
  (setf (slot-value ctx 'notations) notations))

;;; The context type: Support macros.

(defmacro with-context ((ctx &rest rest) &body body)
  `(let ((,ctx (make-instance 'context ,@rest)))
     ,@body))

;;; The key type.

(defun translate-gpgme-key-t-from-foreign (value)
  (when *debug* (format t "DEBUG: import key: ~A~%" value))
  (make-instance 'key :c-key value))

(defun translate-gpgme-key-t-to-foreign (value)
  ;; Allow a pointer to be passed directly for the finalizer to work.
  (if (pointerp value) value (slot-value value 'c-key)))

(defun print-object ((key key) stream)
  (print-unreadable-object (key stream :type t :identity t)
    (format stream "~s" (fpr key))))
The key type: Accessor functions.

_FIXME: The bitfield and flags contain redundant information at this point. _FIXME: Deal nicer with zero-length name (policy url) and zero length value (omit?) and human-readable (convert to string). _FIXME: Turn binary data into sequence or vector or what it should be. _FIXME: Turn the whole thing into a hash?

(defun translate-gpgme-sig-notation-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots ((next name value name-len value-len flags bitfield) value (:struct gpgme-sig-notation))
        (append (list (list :name name
                              :value value
                              :name-len name-len
                              :value-len value-len
                              :flags flags
                              :bitfield bitfield))
                next))))

_FIXME: Deal nicer with timestamps. bitfield field name?

(defun translate-gpgme-subkey-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots ((next bitfield pubkey-algo length keyid fpr timestamp expires) value (:struct gpgme-subkey))
        (append (list (list :bitfield bitfield
                             :pubkey-algo pubkey-algo
                             :length length
                             :keyid keyid
                             :fpr fpr
                             :timestamp timestamp
                             :expires expires))
                next))))

(defun translate-gpgme-key-sig-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots ((next bitfield pubkey-algo keyid timestamp expires status uid name email comment sig-class) value (:struct gpgme-key-sig))
        (append (list (list :bitfield bitfield
                             :pubkey-algo pubkey-algo
                             :length length
                             :keyid keyid
                             :status status
                             :uid uid
                             :name name
                             :email email
                             :comment comment
                             :sig-class sig-class))
                next))))
(defun translate-gpgme-user-id-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((next bitfield validity uid name email comment signatures) value (:struct gpgme-user-id))
        (append (list (list
            :bitfield bitfield
            :validity validity
            :uid uid
            :name name
            :email email
            :comment comment
            :signatures signatures))
            next))))

(defun key-data (key)
  (with-slots (c-key) key
  (with-foreign-slots
   ((bitfield protocol issuer-serial issuer-name chain-id
      owner-trust subkeys uids keylist-mode)
    c-key (:struct gpgme-key))
    (list
      :bitfield bitfield
      :protocol protocol
      :issuer-serial issuer-serial
      :issuer-name issuer-name
      :chain-id chain-id
      :owner-trust owner-trust
      :subkeys subkeys
      :uids uids
      :keylist-mode keylist-mode))
  ))

(defun fpr (key)
(defmethod fpr ((key key))
  (getf (car (getf (key-data key) :subkeys)) :fpr))

;;; The context type: Crypto-Operations.

(defun get-key (ctx fpr &optional secret)
  (:documentation "Get the (secret) key FPR from CTX.")
  (gpgme-get-key ctx fpr secret))

;;; Encrypt.

(defun op-encrypt (ctx recp plain cipher &key always-trust sign)
  (:documentation "Encrypt.")
  (with-foreign-object (c-recp :pointer (+ 1 (length recp)))
    (dotimes (i (length recp))
      (setf (mem-aref c-recp 'gpgme-key-t i) (elt recp i)))
    (setf (mem-aref c-recp :pointer (length recp)) (null-pointer))
    (with-gpgme-data (in plain)
      (with-gpgme-data (out cipher)
        (let ((flags))
          (if always-trust (push :always-trust flags))
            (cond
              (sign
                (c-gpgme-op-encrypt-sign ctx c-recp flags in out)
                (append (c-gpgme-op-encrypt-result ctx)
                        (c-gpgme-op-sign-result ctx)))
              (t
                (c-gpgme-op-encrypt ctx c-recp flags in out)
                (c-gpgme-op-encrypt-result ctx))))))

;;; Decrypt.

(defun op-decrypt (ctx cipher plain &key verify)
  (:documentation "Decrypt.")
  (with-gpgme-data (in cipher)
    (with-gpgme-data (out plain)
      (cond
        (verify
          ))
(c-gpgme-op-decrypt-verify ctx in out)
(append (c-gpgme-op-decrypt-result ctx)
(c-gpgme-op-verify-result ctx)))
(t
(c-gpgme-op-decrypt ctx in out)
(c-gpgme-op-decrypt-result ctx))))))

;;; Signing.

(defun op-sign (ctx plain sig &optional mode)
  (c-gpgme-op-sign ctx in out mode)
  (c-gpgme-op-sign-result ctx))

;;; Verify.

(defun op-verify (ctx sig text &key detached)
  (c-gpgme-op-verify ctx in (if detached on nil)
  (c-gpgme-op-verify-result ctx)))

;;; Import.

(defun op-import (ctx keydata)
  (c-gpgme-op-import ctx in)
  (c-gpgme-op-import-result ctx))

;;; Export.

(defun op-export (ctx pattern keydata)
  (c-gpgme-op-export ctx pattern keydata)
  (c-gpgme-op-export-result ctx))
(defun check-version (&optional req-version)
  "Check that the GPGME version requirement is satisfied."
  (gpgme-check-version req-version))

(defparameter *version* (check-version)
  "The version number of GPGME used.")

 ;; Key generation.

 ;; Initialization

;; Key generation.

(c-gpgme-op-export ctx pattern 0 dh)))
import gpg

c = gpg.Context()
seckey = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)

seclist = list(seckey)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

if cython.compiled is True:
    cc = "Powered by Cython compiled C code."
else:
    cc = "Powered by Python."

print(cc)

Number of secret keys:  0
Number of public keys:  1

{2}
This file documents the GPGME library.


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Indirect:
gpgme.info-1: 1689
gpgme.info-2: 301885

Tag Table:
(Indirect)
Node: Top1689
Node: Introduction9299
Node: Getting Started10089
* Overview

| Version: | 0.0.1 |
| GPME Version: | 1.13.0 |
| Author: | Ben McGinnes <ben@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language: | Australian English, British English |
The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.

** In the beginning

In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG.[fn:1] Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

** Keeping the flame alive

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

** Passing the torch

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he became the new maintainer for PyME, releasing version 0.9.0 in May of that year. He remains the maintainer of the original PyME release in Python 2.6 and 2.7 (available via PyPI).

** Coming full circle
In 2015 Ben McGinnes approached Martin about a Python 3 version, while investigating how complex a task this would be the task ended up being completed. A subsequent discussion with Werner Koch led to the decision to fold the Python 3 port back into the original GPGME release in the languages subdirectory for non-C bindings under the module name of =pyme3=.

In 2016 this PyME module was integrated back into the GPGME project by Justus Winter. During the course of this work Justus adjusted the port to restore limited support for Python 2, but not as many minor point releases as the original PyME package supports. During the course of this integration the package was renamed to more accurately reflect its status as a component of GPGME. The =pyme3= module was renamed to =gpg= and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this Ben returned to maintain of gpgme Python bindings and continue building them from that point.

* Relics of the past

There are a few things, in addition to code specific factors, such as SWIG itself, which are worth noting here.

** The Annoyances of Git

As anyone who has ever worked with git knows, submodules are horrible way to deal with pretty much anything. In the interests of avoiding migraines, that was skipped with addition of the PyME code to GPGME.

Instead the files were added to a subdirectory of the =lang/= directory, along with a copy of the entire git log up to that point as a separate file within the =lang/python/docs/= directory.[fn:2] As the log for PyME is nearly 100KB and the log for GPGME is approximately 1MB, this would cause considerable bloat, as well as some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the files. A regular repository version has been maintained should it be possible to implement this better in the future.
The early port of the Python 2 `pyme` module as `pyme3` was never added to PyPI while the focus remained on development and testing during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from `pyme3` to `gpg`, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME libraries in order to function, it was determined that there was little benefit in also providing a copy through PyPI since anyone obtaining the GPGME source code would obtain the Python bindings source code at the same time. Whereas there was the potential to sew confusion amongst Python users installing the module from PyPI, only to discover that without the relevant C files, header files or SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI which might turn up in a search for this module or a sample of its content:

1. `gpg (1.8.0)` - Python bindings for GPGME GnuPG cryptography library
2. `pyme (0.9.0)` - Python support for GPGME GnuPG cryptography library

This is the most recent version to reach PyPI and is the version of the official Python bindings which shipped with GPGME 1.8.0. If you have GPGME 1.8.0 installed and /only/ 1.8.0 installed, then it is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME 1.8.0, the GnuPG Project recommends not using this version of the module and instead installing the current version of GPGME along with the Python bindings included with that package.
This is the last release of the PyME bindings maintained by Martin Albrecht and is only compatible with Python 2, it will not work with Python 3. This is the version of the software from which the port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous points of similarity, but also significant differences. It is likely that the more recent official bindings will feel "more pythonic."

For those using Python 2, there is essentially no harm in using this module, but it may lack a number of more recent features added to GPGME.

* Footnotes

[fn:1] In all likelihood this would have been Python 2.2 or possibly Python 2.3.

[fn:2] The entire PyME git log and other preceding VCS logs are located in the =gpgme/lang/python/docs/old-commits.log= file. 2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2008-11-08 Moritz <moritz@gnu.org>

* gpgme.lisp (size-t): Wrong call to defctype: function accepts optional, not keyword argument.
(ssize-t): Likewise.
(off-t): Likewise.
(gpgme-data-t, gpgme-ctx-t): Likewise.
(gpgme-error-t): Likewise.
(gpgme-error-no-signal-t): Likewise.
(gpgme-err-code-t): Likewise.
(gpgme-err-source-t): Likewise.
(gpgme-sig-notation-t, gpgme-engine-info-t): Likewise.
(gpgme-subkey-t): Likewise.
(gpgme-key-sig-t): Likewise.
(gpgme-user-id-t): Likewise.
(gpgme-key-t): Likewise.
(gpgme-data-cbs-t): Likewise.
(gpgme-invalid-key-t): Likewise.
(gpgme-op-encrypt-result-t): Likewise.
(gpgme-recipient-t): Likewise.
(gpgme-op-decrypt-result-t): Likewise.
(gpgme-new-signature-t): Likewise.
(gpgme-op-sign-result-t): Likewise.
(gpgme-signature-t): Likewise.
(gpgme-op-verify-result-t): Likewise.
(gpgme-import-status-t): Likewise.
(gpgme-op-import-result-t): Likewise.
(gpgme-op-genkey-result-t): Likewise.
(gpgme-op-keylist-result-t): Likewise.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

* Initial release.

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# HACKING
#*- org -*

#+TITLE: Hacking notes for GPGME
#+STARTUP: showall

* How to contribute
** No more ChangeLog files

Do not modify any of the ChangeLog files in GPGME. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist" time. As such, there are strict requirements on the form of the commit log messages. The old ChangeLog files have all be renamed to ChangeLog-2011

** Commit log requirements

Your commit log should always start with a one-line summary, the second line should be blank, and the remaining lines are usually ChangeLog-style entries for all affected files. However, it's fine -- even recommended -- to write a few lines of prose describing the change, when the summary and ChangeLog entries don't give enough of
the big picture. Omit the leading TABs that you're used to seeing in a “real” ChangeLog file, but keep the maximum line length at 72 or smaller, so that the generated ChangeLog lines, each with its leading TAB, will not exceed 80 columns. If you want to add text which shall not be copied to the ChangeLog, separate it by a line consisting of two dashes at the begin of a line.

Note that ./autogen.sh installs a git hook to do some basic syntax checking on the commit log message.

Typo fixes and documentation updates don't need a ChangeLog entry; thus you would use a commit message like

#+begin_example
Fix typo in a comment
--
#+end_example

The marker line here is important; without it the first line would appear in the ChangeLog.

If you exceptionally need to have longer lines in a commit log you may do this after this scissor line:

#+begin_example
# ------------------------ >8 ------------------------
#+end_example
(hash, blank, 24 dashes, blank, scissor, blank, 24 dashes).
Note that such a comment will be removed if the git commit option =--cleanup-scissor= is used.

** License policy

GPGME is currently licensed under the LGPLv2.1+ with tools and the manual being under the GPLv3+. We may eventually update to a newer version of the licenses or a combination of them. It is thus important, that all contributed code allows for an update of the license; for example we can't accept code under the LGPLv2(only).

If you want to contribute code or documentation to GPGME you are asked to assert that the contribution is in accordance to the "GPGME Developer's Certificate of Origin" as found in the file "DCO". Except for a slight wording change, this DCO is identical to the one used by the Linux kernel. Please take these simple steps:

- Decide which mail address you want to use. Please have your real name in the address and not a pseudonym. Anonymous contributions can only be done if you find a proxy who certifies for you.
- If your employer or school might claim ownership of code written by you; you need to talk to them to make sure that you have the right to contribute under the DCO.

- Send an OpenPGP signed mail to the gnupg-devel@gnupg.org public mailing list from your mail address. Include a copy of the DCO as found in the official master branch. Insert your name and email address into the DCO in the same way you want to use it later.
Example:

    Signed-off-by: Joe R. Hacker <joe@example.org>

If you need it, you may perform simple transformations on the mail address: Replacing "@" by " at " or "." by " dot ".)

- That's it. From now on you only need to add a "Signed-off-by:" line with your name and mail address to the GIT commit message. It is recommended to send the patches using a PGP/MIME signed mail.

** Coding standards

Please follow the GNU coding standards. If you are in doubt consult the existing code as an example. Do no re-indent code without a need. If you really need to do it, use a separate commit for such a change.

- C99 syntax should not be used; stick to C90.
- Please do not use C++ //= style comments.
- Try to fit lines into 80 columns.
- Ignore signed/unsigned pointer mismatches
- No arithmetic on void pointers; cast to char* first.

** Commit log keywords

- GnuPG-bug-id :: Values are comma or space delimited bug numbers from bug.gnupg.org pertaining to this commit.
- Debian-bug-id :: Same as above but from the Debian bug tracker.
- CVE-id :: CVE id number pertaining to this commit.
- Regression-due-to :: Commit id of the regression fixed by this commit.
- Fixes-commit :: Commit id this commit fixes.
- Reported-by :: Value is a name or mail address of a bug reporter.
- Suggested-by :: Value is a name or mail address of someone how suggested this change.
- Co-authored-by :: Name or mail address of a co-author
- Some-comments-by :: Name or mail address of the author of additional comments (commit log or code).
- Proofread-by :: Sometimes used by translation commits.
- Signed-off-by :: Name or mail address of the developer

* Debug hints

- Use gpgme-tool for manual tests.
- The envvar GPGME_DEBUG enables debugging; see debug.[ch] for details.

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-04-06 Werner Koch <wk@g10code.com>

* gpg-error.m4: Update from current libgpg-error repo.

2010-05-07 Werner Koch <wk@g10code.com>

* libassuan.m4: Update from libassuan svn.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* libassuan.m4: Fix LIBASSUAN_VERSION.

2006-06-08 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Add --all to pth-config invocation.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Fix code generation (required for Max OS X). Submitted by Emanuele Giaquinta <exg@gentoo.org>.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* glib-2.0.m4: New file.

2004-12-28 Werner Koch <wk@g10code.com>

* pth.m4: Changed quoting for use with automake 1.9.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Disable _ac_pth_line, and don't fail if Pth is not found.

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This file is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, to the extent permitted by law; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. Configuration files may go here. Note that config.h.in is auto-generated so that this file is not in git.

GPGME Developer's Certificate of Origin. Version 1.0
====================================================================

By making a contribution to the GPGME project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the free software license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate free software license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same free software license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the free software license(s)
involved.

Signed-off-by: [Your name and mail address]
\input texinfo  @c -*- texinfo -*.-
@c %**start of header
@setfilename gpgme-python-howto.info
@settitle GNU Privacy Guard (GnuPG) Made Easy Python Bindings HOWTO (English)
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title GNU Privacy Guard (GnuPG) Made Easy Python Bindings HOWTO (English)
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top GNU Privacy Guard (GnuPG) Made Easy Python Bindings HOWTO (English)
@end ifnottex

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Difference between the Python bindings and other GnuPG Python packages

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Copyright and Licensing

* Copyright::
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@end detailmenu
@end menu

@node Introduction
@chapter Introduction

@multitable {aaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:  
@tab 0.1.5  
@item GPGME Version:  
@tab 1.13.0  
@item Author:  
@tab Ben McGinnes <ben@gnupg.org>  
@item Author GPG Key:  
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D  
@item Language:  
@tab Australian English, British English  
@item Language codes:  
@tab en-AU, en-GB, en
@end multitable
This document provides basic instruction in how to use the GPGME Python bindings to programmatically leverage the GPGME library.

* Python 2 versus Python 3::
* Examples::
* Unofficial Drafts::
* What's New::

Though the GPGME Python bindings themselves provide support for both Python 2 and 3, the focus is unequivocally on Python 3 and specifically from Python 3.4 and above. As a consequence all the examples and instructions in this guide use Python 3 code.

Much of it will work with Python 2, but much of it also deals with Python 3 byte literals, particularly when reading and writing data. Developers concentrating on Python 2.7, and possibly even 2.6, will need to make the appropriate modifications to support the older string and unicode types as opposed to bytes.

There are multiple reasons for concentrating on Python 3; some of which relate to the immediate integration of these bindings, some of which relate to longer term plans for both GPGME and the python bindings and some of which relate to the impending EOL period for Python 2.7. Essentially, though, there is little value in tying the bindings to a version of the language which is a dead end and the advantages offered by Python 3 over Python 2 make handling the data types with which GPGME deals considerably easier.

All of the examples found in this document can be found as Python 3 scripts in the @samp{lang/python/examples/howto} directory.

In addition to shipping with each release of GPGME, there is a section on locations to read or download @ref{Draft Editions of this HOWTO, , draft editions} of this document from at the end of it. These are unofficial versions produced in between major releases.
@section What's New

Full details of what is new are now available in the @uref{what-is-new.org, What's New} file and archives of the preceding @emph{What's New} sections are available in the @uref{what-was-new, What Was New} file.

@menu
* New in GPGME 1130::
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@end menu

@section New in GPGME 1130

See the @uref{what-is-new#new-stuff-1-13-0, What's New} document for what is new in version 1.13.0.

@section New in GPGME 1120

See the @uref{what-was-new#new-stuff-1-12-0, What Was New} document for what was new in version 1.12.0.

@node GPGME Concepts
@chapter GPGME Concepts

@menu
* A C API::
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* Difference between the Python bindings and other GnuPG Python packages::
@end menu

@section A C API

Unlike many modern APIs with which programmers will be more familiar with these days, the GPGME API is a C API. The API is intended for use by C coders who would be able to access its features by including the @samp{gpgme.h} header file with their own C source code and then access its functions just as they would any other C headers.

This is a very effective method of gaining complete access to the API and in the most efficient manner possible. It does, however, have the drawback that it cannot be directly used by other languages without some means of providing an interface to those languages. This is where the need for bindings in various languages stems.

@section Python bindings
The Python bindings for GPGME provide a higher level means of accessing the complete feature set of GPGME itself. It also provides a more pythonic means of calling these API functions.

The bindings are generated dynamically with SWIG and the copy of @samp{gpgme.h} generated when GPGME is compiled.

This means that a version of the Python bindings is fundamentally tied to the exact same version of GPGME used to generate that copy of @samp{gpgme.h}.

@node Difference between the Python bindings and other GnuPG Python packages
@section Difference between the Python bindings and other GnuPG Python packages

There have been numerous attempts to add GnuPG support to Python over the years. Some of the most well known are listed here, along with what differentiates them.

@menu
* The python-gnupg package maintained by Vinay Sajip::
* The gnupg package created and maintained by Isis Lovecruft::
* The PyME package maintained by Martin Albrecht::
@end menu

@node The python-gnupg package maintained by Vinay Sajip
@section The python-gnupg package maintained by Vinay Sajip

This is arguably the most popular means of integrating GPG with Python. The package utilises the @samp{subprocess} module to implement wrappers for the @samp{gpg} and @samp{gpg2} executables normally invoked on the command line (@samp{gpg.exe} and @samp{gpg2.exe} on Windows).

The popularity of this package stemmed from its ease of use and capability in providing the most commonly required features.

Unfortunately it has been beset by a number of security issues in the past; most of which stemmed from using unsafe methods of accessing the command line via the @samp{subprocess} calls. While some effort has been made over the last two to three years (as of 2018) to mitigate this, particularly by no longer providing shell access through those subprocess calls, the wrapper is still somewhat limited in the scope of its GnuPG features coverage.

The python-gnupg package is available under the MIT license.

@node The gnupg package created and maintained by Isis Lovecruft
@section The gnupg package created and maintained by Isis Lovecruft
In 2015 Isis Lovecruft from the Tor Project forked and then re-implemented the python-gnupg package as just gnupg. This new package also relied on subprocess to call the \samp{gpg} or \samp{gpg2} binaries, but did so somewhat more securely.

The naming and version numbering selected for this package, however, resulted in conflicts with the original python-gnupg and since its functions were called in a different manner to python-gnupg, the release of this package also resulted in a great deal of consternation when people installed what they thought was an upgrade that subsequently broke the code relying on it.

The gnupg package is available under the GNU General Public License version 3.0 (or any later version).

This package is the origin of these bindings, though they are somewhat different now. For details of when and how the PyME package was folded back into GPGME itself see the \url{short-history.org, Short History} document.\footnote{\samp{short-history} and/or \samp{short-history.html}.}

The PyME package was first released in 2002 and was also the first attempt to implement a low level binding to GPGME. In doing so it provided access to considerably more functionality than either the \samp{python-gnupg} or \samp{gnupg} packages.

The PyME package is only available for Python 2.6 and 2.7.

Porting the PyME package to Python 3.4 in 2015 is what resulted in it being folded into the GPGME project and the current bindings are the end result of that effort.

The PyME package is available under the same dual licensing as GPGME itself: the GNU General Public License version 2.0 (or any later version) and the GNU Lesser General Public License version 2.1 (or any later version).
Most third-party Python packages and modules are available and distributed through the Python Package Installer, known as PyPI.

Due to the nature of what these bindings are and how they work, it is infeasible to install the GPGME Python bindings in the same way.

This is because the bindings use SWIG to dynamically generate C bindings against @samp{gpgme.h} and @samp{gpgme.h} is generated from @samp{gpgme.h.in} at compile time when GPGME is built from source. Thus to include a package in PyPI which actually built correctly would require either statically built libraries for every architecture bundled with it or a full implementation of C for each architecture.

See the additional notes regarding @ref{CFFI is the Best and GPGME should use it instead of SWIG, CFFI and SWIG} at the end of this section for further details.

The GPGME Python bindings only have three requirements:

- A suitable version of Python 2 or Python 3. With Python 2 that means CPython 2.7 and with Python 3 that means CPython 3.4 or higher.
- @uref{https://www.swig.org, SWIG}.
- GPGME itself. Which also means that all of GPGME's dependencies must be installed too.

Though none of the following are absolute requirements, they are all recommended for use with the Python bindings. In some cases these recommendations refer to which version(s) of CPython to use the
bindings with, while others refer to third party modules which provide a significant advantage in some way.

@enumerate
@item
If possible, use Python 3 instead of 2.
@item
Favour a more recent version of Python since even 3.4 is due to reach EOL soon. In production systems and services, Python 3.6 should be robust enough to be relied on.
@item
If possible add the following Python modules which are not part of the standard library: @uref{http://docs.python-requests.org/en/latest/index.html, Requests}, @uref{https://cython.org/, Cython}, @uref{https://pendulum.eustace.io/, Pendulum} and @uref{https://github.com/Selfnet/hkp4py, hkp4py}.
@end enumerate

Chances are quite high that at least the first one and maybe two of those will already be installed.

Note that, as with Cython, some of advanced use case scenarios will bring with them additional requirements. Most of these will be fairly well known and commonly installed ones, however, which are in many cases likely to have already been installed on many systems or be familiar to Python programmers.

@node Installation
@section Installation

Installing the Python bindings is effectively achieved by compiling and installing GPGME itself.

Once SWIG is installed with Python and all the dependencies for GPGME are installed you only need to confirm that the version(s) of Python you want the bindings installed for are in your @samp{$PATH}.

By default GPGME will attempt to install the bindings for the most recent or highest version number of Python 2 and Python 3 it detects in @samp{$PATH}. It specifically checks for the @samp{python} and @samp{python3} executables first and then checks for specific version numbers.

For Python 2 it checks for these executables in this order: @samp{python}, @samp{python2} and @samp{python2.7}.

For Python 3 it checks for these executables in this order: @samp{python3}, @samp{python3.7}, @samp{python3.6}, @samp{python3.5} and @samp{python3.4}.@footnote{With no issues reported specific to Python 3.7, the release of Python 3.7.1 at around the same time as GPGME 1.12.0 and the testing
with Python 3.7.1rc1, there is no reason to delay moving 3.7 ahead of
3.6 now. Production environments with more conservative requirements
will always enforce their own policies anyway and installation to each
supported minor release is quite possible too.}

On systems where @samp{python} is actually @samp{python3} and not @samp{python2} it
may be possible that @samp{python2} may be overlooked, but there have been
no reports of that actually occurring as yet.

In the three months or so since the release of Python 3.7.0 there has
been extensive testing and work with these bindings with no issues
specifically relating to the new version of Python or any of the new
features of either the language or the bindings. This has also been
the case with Python 3.7.1rc1. With that in mind and given the
release of Python 3.7.1 is scheduled for around the same time as GPGME
1.12.0, the order of preferred Python versions has been changed to
move Python 3.7 ahead of Python 3.6.

* Installing GPGME::
@end menu

@node Installing GPGME
@subsection Installing GPGME

See the GPGME @samp{README} file for details of how to install GPGME from
source.

@node Known Issues
@section Known Issues

There are a few known issues with the current build process and the
Python bindings. For the most part these are easily addressed should
they be encountered.

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* Reinstalling Responsibly::
* Multiple installations::
* Won't Work With Windows::
* CFFI is the Best and GPGME should use it instead of SWIG::
* Virtualised Environments::
* Post installation::
@end menu

@node Breaking Builds
@subsection Breaking Builds
Occasionally when installing GPGME with the Python bindings included it may be observed that the @samp{make} portion of that process induces a large very number of warnings and, eventually errors which end that part of the build process. Yet following that with @samp{make check} and @samp{make install} appears to work seamlessly.

The cause of this is related to the way SWIG needs to be called to dynamically generate the C bindings for GPGME in the first place. So the entire process will always produce @samp{lang/python/python2-gpg/} and @samp{lang/python/python3-gpg/} directories. These should contain the build output generated during compilation, including the complete bindings and module installed into @samp{site-packages}.

Occasionally the errors in the early part or some other conflict (e.g. not installing as @strong{@emph{root}} or @strong{@emph{su}}) may result in nothing being installed to the relevant @samp{site-packages} directory and the build directory missing a lot of expected files. Even when this occurs, the solution is actually quite simple and will always work.

That solution is simply to run the following commands as either the @strong{root} user or prepended with @samp{sudo -H}@footnote{Yes, even if you use virtualenv with everything you do in Python. If you want to install this module as just your user account then you will need to manually configure, compile and install the @emph{entire} GnuPG stack as that user as well. This includes libraries which are not often installed that way. It can be done and there are circumstances under which it is worthwhile, but generally only on POSIX systems which utilise single user mode (some even require it).} in the @samp{lang/python/} directory:

@example
/path/to/pythonX.Y setup.py build
/path/to/pythonX.Y setup.py build
/path/to/pythonX.Y setup.py install
@end example

Yes, the build command does need to be run twice. Yes, you still need to run the potentially failing or incomplete steps during the @samp{configure}, @samp{make} and @samp{make install} steps with installing GPGME. This is because those steps generate a lot of essential files needed, both by and in order to create, the bindings (including both the @samp{setup.py} and @samp{gpgme.h} files).

@enumerate
@item IMPORTANT Note
@end enumerate
If specifying a selected number of languages to create bindings for, try to leave Python last. Currently the majority of the other language bindings are also preceding Python of either version when listed alphabetically (not counting the Qt bindings).

If Python is set to precede one of the other languages then it is possible that the errors described here may interrupt the build process before generating bindings for those other languages. In these cases it may be preferable to configure all preferred language bindings separately with alternative @samp{configure} steps for GPGME using the @samp{--enable-languages=$LANGUAGE} option.

Alternatively @samp{make} (or @samp{gmake}, depending on your platform) may be run with the the @samp{-k} option, which tells make to keep going even if errors are encountered. In that case the failure of one language's set of bindings to build should not hamper another language's bindings to build.
@end enumerate

@node Reinstalling Responsibly
@subsection Reinstalling Responsibly

Regardless of whether you're installing for one version of Python or several, there will come a point where reinstallation is required. With most Python module installations, the installed files go into the relevant site-packages directory and are then forgotten about. Then the module is upgraded, the new files are copied over the old and that's the end of the matter.

While the same is true of these bindings, there have been intermittent issues observed on some platforms which have benefited significantly from removing all the previous installations of the bindings before installing the updated versions.

Removing the previous version(s) is simply a matter of changing to the relevant @samp{site-packages} directory for the version of Python in question and removing the @samp{gpg/} directory and any accompanying egg-info files for that module.

In most cases this will require root or administration privileges on the system, but the same is true of installing the module in the first place.

@node Multiple installations
@subsection Multiple installations

For a variety of reasons it may be either necessary or just preferable to install the bindings to alternative installed Python versions which
meet the requirements of these bindings.

On POSIX systems this will generally be most simply achieved by running the manual installation commands (build, build, install) as described in the previous section for each Python installation the bindings need to be installed to.

As per the SWIG documentation: the compilers, libraries and runtime used to build GPGME and the Python Bindings @strong{must} match those used to compile Python itself, including the version number(s) (at least going by major version numbers and probably minor numbers too).

On most POSIX systems, including OS X, this will very likely be the case in most, if not all, cases.

Note that from GPGME @uref{https://dev.gnupg.org/rMff6ff616aea6f59b7f2ce1176492850ecdf3851e, 1.12.1} the default installation installs to each version of Python it can find first. That is that it will currently install for the first copies of Python versions 2.7, 3.4, 3.5, 3.6, 3.7 and 3.8 (dev branch) that it finds. Usually this will be in the same prefix as GPGME itself, but is dictated by the @samp{$PATH} when the installation is performed. The above instructions can still be performed on other python installations which the installer does not find, including alternative prefixes.

@node Won't Work With Windows
@subsection Won't Work With Windows

There are semi-regular reports of Windows users having considerable difficulty in installing and using the Python bindings at all. Very often, possibly even always, these reports come from Cygwin users and/or MinGW users and/or Msys2 users. Though not all of them have been confirmed, it appears that these reports have also come from people who installed Python using the Windows installer files from the @uref{https://python.org, Python website} (i.e. mostly MSI installers, sometimes self-extracting @samp{.exe} files).

The Windows versions of Python are not built using Cygwin, MinGW or Msys2; they're built using Microsoft Visual Studio. Furthermore the version used is @emph{considerably} more advanced than the version which MinGW obtained a small number of files from many years ago in order to be able to compile anything at all. Not only that, but there are changes to the version of Visual Studio between some micro releases, though that is is particularly the case with Python 2.7, since it has been kept around far longer than it should have been.

There are two theoretical solutions to this issue:
Compile and install the GnuPG stack, including GPGME and the Python bindings using the same version of Microsoft Visual Studio used by the Python Foundation to compile the version of Python installed.

If there are multiple versions of Python then this will need to be done with each different version of Visual Studio used for those versions of Python.

Compile and install Python using the same tools used by choice, such as MinGW or Msys2.

Do not use the official Windows installer for Python unless following the first method.

In this type of situation it may even be for the best to accept that there are less limitations on permissive software than free software and simply opt to use a recent version of the Community Edition of Microsoft Visual Studio to compile and build all of it, no matter what.

Investigations into the extent or the limitations of this issue are ongoing.

The following table lists the version of Microsoft Visual Studio which needs to be used when compiling GPGME and the Python bindings with each version of the CPython binary released for Windows:

<table>
<thead>
<tr>
<th>CPython</th>
<th>Microsoft product name</th>
<th>runtime filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7.6</td>
<td>Visual Studio 2008</td>
<td>MSVCR90.DLL</td>
</tr>
<tr>
<td>3.4.0</td>
<td>Visual Studio 2010</td>
<td>MSVCR100.DLL</td>
</tr>
<tr>
<td>3.5.0</td>
<td>Visual Studio 2015</td>
<td>MSVCR100.DLL</td>
</tr>
<tr>
<td>3.6.0</td>
<td>Visual Studio 2015</td>
<td>MSVCR100.DLL</td>
</tr>
</tbody>
</table>
It is important to note that MingW and Msys2 ship with the Visual C runtime from Microsoft Visual Studio 2005 and are thus incompatible with all the versions of CPython which can be used with the GPGME Python bindings.

It is also important to note that from CPython 3.5 onwards, the Python Foundation has adopted the reworking of the Visual C runtime which was performed for Visual Studio 2015 and aimed at resolving many of these kinds of issues. Much greater detail on these issues and the correct file(s) to link to are available from Matthew Brett's invaluable page, [Using Microsoft Visual C with Python](https://matthew-brett.github.io/pydagogue/python_msvc.html). It is also worth reading the Microsoft Developer Network blog post on [the universal CRT](http://blogs.msdn.com/b/vcblog/archive/2015/03/03/introducing-the-universal-crt.aspx) and Steve Dower's blog posts on Python extensions ([part 1](http://stevedower.id.au/blog/building-for-python-3-5) and [part 2](http://stevedower.id.au/blog/building-for-python-3-5-part-two)).

The second of those two posts by Steve Dower contains the details of specific configuration options required for compiling anything to be used with official CPython releases. In addition to those configuration and compiler settings to use, the versions of Visual Studio prior to Visual Studio 2015 did not support 64-bit systems by default. So compiling a 64-bit version of these bindings for a 64-bit version of CPython 2.7 or 3.4 requires additional work.

In addition to the blog posts, the [Windows compilers](https://wiki.python.org/moin/WindowsCompilers) wiki page on the CPython wiki is another essential reference on the relevant versions of Visual Studio to use and the degree of compatibility with CPython releases.

Eventually someone will ask why there isn't an installable binary for Windows, which the GPGME of the licenses do not preclude as long as the source code is available in conjunction with such a release.

The sheer number of versions of Visual Studio in conjunction with differing configuration options depending on the target Windows version and whether the architecture is 64-bit or 32-bit makes it difficult to provide a correct binary installer for Windows users. At the bare minimum doing so would require the GnuPG project compile ten different versions of the bindings with each release; both 32-bit and 64-bit versions for CPython 2.7 and 3.4, with 64-bit versions for both x86-64 (i.e. Intel and AMD) and ARM architectures for CPython 3.5,
3.6, 3.7 and later releases. That's the bare minimum, it'd probably be higher.

Additionally, with only a binary installation used in conjunction with the CPython installer from [python.org](http://python.org) the advanced options available which utilise [C plus Python plus SWIG plus Cython](http://cython.org) would not be able to be used at all. Cython depends on being able to compile the C code it generates and that too would need to utilise a matching runtime to both the installed version of CPython and these bindings in order to work with the bindings.

Considering all of that, what do we recommend?

@enumerate
@item
Use a recent version of CPython; at least 3.5, but ideally 3.6 or later.

@item
Use Visual Studio 2015 or the standalone build tools for Visual Studio 2017 (or later).

@item
Compile both CPython and GPGME with these bindings using the tools selected in step 2.

@item
Ignore MingW, Msys2 and the official CPython binary installers.

@item
Be thankful the answer to this question wasn't simply to say something like, install Linux or install FreeBSD (or even Apple's OS X).

@end enumerate

CFFI is the Best and GPGME should use it instead of SWIG

There are many reasons for favouring [CFFI](https://cffi.readthedocs.io) and proponents of it are quite happy to repeat these things as if all it would take to switch from SWIG to CFFI is repeating that list as if it were a new concept.

The fact is that there are things which Python's CFFI implementation cannot handle in the GPGME C code. Beyond that there are features of SWIG which are simply not available with CFFI at all. SWIG generates the bindings to Python using the [gpgme.h](http://gpgme.sourceforge.net) file, but that file is not a single version shipped with each release, it too is generated when GPGME is compiled.
CFFI is currently unable to adapt to such a potentially mutable codebase. If there were some means of applying SWIG's dynamic code generation to produce the Python/CFFI API modes of accessing the GPGME libraries (or the source source code directly), but such a thing does not exist yet either and it currently appears that work is needed in at least one of CFFI's dependencies before any of this can be addressed.

So if you're a massive fan of CFFI; that's great, but if you want this project to switch to CFFI then rather than just insisting that it should, I'd suggest you volunteer to bring CFFI up to the level this project needs.

If you're actually seriously considering doing so, then I'd suggest taking the `gpgme-tool.c` file in the GPGME `src/` directory and getting that to work with any of the CFFI API methods (not the ABI methods, they'll work with pretty much anything). When you start running into trouble with "ifdefs" then you'll know what sort of things are lacking. That doesn't even take into account the amount of work saved via SWIG's code generation techniques either.

@node Virtualised Environments
@subsection Virtualised Environments

It is fairly common practice amongst Python developers to, as much as possible, use packages like `virtualenv` to keep various things that are to be installed from interfering with each other. Given how much of the GPGME bindings is often at odds with the usual pythonic way of doing things, it stands to reason that this would be called into question too.

As it happens the answer as to whether or not the bindings can be used with `virtualenv`, the answer is both yes and no.

In general we recommend installing to the relevant path and matching prefix of GPGME itself. Which means that when GPGME, and ideally the rest of the GnuPG stack, is installed to a prefix like `~/usr/local` or `~/opt/local` then the bindings would need to be installed to the main Python installation and not a virtualised abstraction. Attempts to separate the two in the past have been known to cause weird and intermittent errors ranging from minor annoyances to complete failures in the build process.

As a consequence we only recommend building with and installing to the main Python installations within the same prefix as GPGME is installed to or which are found by GPGME's configuration stage immediately prior to running the make commands. Which is exactly what the compiling and
installing process of GPGME does by default.

Once that is done, however, it appears that a copy of the compiled module may be installed into a virtualenv of the same major and minor version matching the build. Alternatively it is possible to utilise a \samp{sites.pth} file in the \samp{site-packages/} directory of a virtualenv installation, which links back to the system installations corresponding directory in order to import anything installed system wide. This may or may not be appropriate on a case by case basis.

Though extensive testing of either of these options is not yet complete, preliminary testing of them indicates that both are viable as long as the main installation is complete. Which means that certain other options normally restricted to virtual environments are also available, including integration with pythonic test suites (e.g. \uref{https://docs.pytest.org/en/latest/index.html, pytest}) and other large projects.

That said, it is worth reiterating the warning regarding non-standard installations. If one were to attempt to install the bindings only to a virtual environment without somehow also including the full GnuPG stack (or enough of it as to include GPGME) then it is highly likely that errors would be encountered at some point and more than a little likely that the build process itself would break.

If a degree of separation from the main operating system is still required in spite of these warnings, then consider other forms of virtualisation. Either a virtual machine (e.g. \uref{https://www.virtualbox.org/, VirtualBox}), a hardware emulation layer (e.g. \uref{https://www.qemu.org/, QEMU}) or an application container (e.g. \uref{https://www.docker.com/why-docker, Docker}).

Finally it should be noted that the limited tests conducted thus far have been using the \samp{virtualenv} command in a new directory to create the virtual python environment. As opposed to the standard \samp{python3 -m venv} and it is possible that this will make a difference depending on the system and version of Python in use. Another option is to run the command \samp{python3 -m virtualenv /path/to/install/virtual/thingy} instead.

@node Post installation
@subsection Post installation

Following installation it is recommended to move the \samp{post_installer.py} script from the \samp{lang/python/examples/howto/} directory to the \samp{lang/python/} directory and run it. This will fix or restore files needed by Sphinx which may be removed during a distribution build for release. It will also generate reST files from Org mode files with Pandoc and generate Texinfo files from Org mode files with GNU Emacs and Org mode (in batch mode). Additionally it
will fix the UTF-8 declaration line in the Texinfo files (Emacs expects "UTF-8" to be "utf-8").

@node Fundamentals
@chapter Fundamentals

Before we can get to the fun stuff, there are a few matters regarding GPGME's design which hold true whether you're dealing with the C code directly or these Python bindings.

@menu
* No REST::
* Context::
@end menu

@node No REST
@section No REST

The first part of which is or will be fairly blatantly obvious upon viewing the first example, but it's worth reiterating anyway. That being that this API is @emph{@strong{not}} a REST API. Nor indeed could it ever be one.

Most, if not all, Python programmers (and not just Python programmers) know how easy it is to work with a RESTful API. In fact they've become so popular that many other APIs attempt to emulate REST-like behaviour as much as they are able. Right down to the use of JSON formatted output to facilitate the use of their API without having to retrain developers.

This API does not do that. It would not be able to do that and also provide access to the entire C API on which it's built. It does, however, provide a very pythonic interface on top of the direct bindings and it's this pythonic layer that this HOWTO deals with.

@node Context
@section Context

One of the reasons which prevents this API from being RESTful is that most operations require more than one instruction to the API to perform the task. Sure, there are certain functions which can be performed simultaneously, particularly if the result known or strongly anticipated (e.g. selecting and encrypting to a key known to be in the public keybox).

There are many more, however, which cannot be manipulated so readily: they must be performed in a specific sequence and the result of one operation has a direct bearing on the outcome of subsequent
operations. Not merely by generating an error either.

When dealing with this type of persistent state on the web, full of both the RESTful and REST-like, it’s most commonly referred to as a session. In GPGME, however, it is called a context and every operation type has one.

Selecting keys to encrypt to or to sign with will be a common occurrence when working with GPGMe and the means available for doing so are quite simple.

They do depend on utilising a Context; however once the data is recorded in another variable, that Context does not need to be the same one which subsequent operations are performed.

The easiest way to select a specific key is by searching for that key's key ID or fingerprint, preferably the full fingerprint without any spaces in it. A long key ID will probably be okay, but is not advised and short key IDs are already a problem with some being generated to match specific patterns. It does not matter whether the pattern is upper or lower case.

So this is the best method:

@example
import gpg

k = gpg.Context().keylist(pattern="258E88DCBD3CD44D8E7AB43F6ECB6AF0DEADBEEF")
keys = list(k)
@end example

This is passable and very likely to be common:
k = gpg.Context().keylist(pattern="0x6ECB6AF0DEADBEEF")
keys = list(k)
@end example

And this is a really bad idea:

@example
import gpg

k = gpg.Context().keylist(pattern="0xDEADBEEF")
keys = list(k)
@end example

Alternatively it may be that the intention is to create a list of keys which all match a particular search string. For instance all the addresses at a particular domain, like this:

@example
import gpg

ncsc = gpg.Context().keylist(pattern="ncsc.mil")
nsa = list(ncsc)
@end example

@menu
* Counting keys::
@end menu

@node Counting keys
@subsection Counting keys

Counting the number of keys in your public keybox (@samp{pubring.kbx}), the format which has superseded the old keyring format (@samp{pubring.gpg} and @samp{secring.gpg}), or the number of secret keys is a very simple task.

@example
import gpg

c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)

seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)
print("Number of secret keys: \{0\}
Number of public keys: \{1\}
".format(secnum, pubnum))
@end example

NOTE: The @ref{C plus Python plus SWIG plus Cython, , Cython} introduction in the @ref{Advanced or Experimental Use Cases, , Advanced and Experimental} section uses this same key counting code with Cython to demonstrate some areas where Cython can improve performance even with the bindings. Users with large public keyrings or keyboxes, for instance, should consider these options if they are comfortable with using Cython.

@node Get key
@section Get key

An alternative method of getting a single key via its fingerprint is available directly within a Context with @samp{Context().get_key}. This is the preferred method of selecting a key in order to modify it, sign or certify it and for obtaining relevant data about a single key as a part of other functions; when verifying a signature made by that key, for instance.

By default this method will select public keys, but it can select secret keys as well.

This first example demonstrates selecting the current key of Werner Koch, which is due to expire at the end of 2018:

@example
import gpg

fingerprint = "80615870F5BAD69033686D0F2AD85AC1E42B367"
key = gpg.Context().get_key(fingerprint)
@end example

Whereas this example demonstrates selecting the author's current key with the @samp{secret} key word argument set to @samp{True}:

@example
import gpg

fingerprint = "DB4724E6FA4286C92B4E55C4321E4E2373590E5D"
key = gpg.Context().get_key(fingerprint, secret=True)
@end example
It is, of course, quite possible to select expired, disabled and revoked keys with this function, but only to effectively display information about those keys.

It is also possible to use both unicode or string literals and byte literals with the fingerprint when getting a key in this way.

@node Importing keys
@section Importing keys

Importing keys is possible with the @samp{key_import()} method and takes one argument which is a bytes literal object containing either the binary or ASCII armoured key data for one or more keys.

The following example retrieves one or more keys from the SKS keyservers via the web using the requests module. Since requests returns the content as a bytes literal object, we can then use that directly to import the resulting data into our keybox.

@example
import gpg
import os.path
import requests
c = gpg.Context()
url = "https://sks-keyservers.net/pks/lookup"
pattern = input("Enter the pattern to search for key or user IDs: ")
payload = @{"op": "get", "search": pattern@}

r = requests.get(url, verify=True, params=payload)
result = c.key_import(r.content)

if result is not None and hasattr(result, "considered") is False:
    print(result)
elif result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_subs = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged
    print(""
    The total number of keys considered for import was:  @{0}@"
    Number of keys revoked:  @{1}@"
    Number of new signatures:  @{2}@"
    Number of new subkeys:  @{3}@"
Number of new user IDs: @{4@}
Number of secret keys: @{5@}
Number of unchanged keys: @{6@}

The key IDs for all considered keys were:

```python
for i in range(num_keys):
    print("@{0}@\n".format(result.imports[i].fpr))
else:
    pass
```

NOTE: When searching for a key ID of any length or a fingerprint (without spaces), the SKS servers require the leading @samp{0x} indicative of hexadecimal be included. Also note that the old short key IDs (e.g. @samp{0xDEADBEEF}) should no longer be used due to the relative ease by which such key IDs can be reproduced, as demonstrated by the Evil32 Project in 2014 (which was subsequently exploited in 2016).

Testing for whether a string in any given search is or may be a hexadecimal value which may be missing the leading @samp{0x} is a simple matter of using a try/except statement which attempts to convert the string as hex to an integer and then back to hex; then using that to search with. Raising a ValueError simply results in treating the string as a string. This is the method and logic utilised in the @samp{import-keys-hkp.py} script (see below).

```python
@menu
* Working with ProtonMail::
* Importing with HKP for Python::
* Importing from ProtonMail with HKP for Python::
@end menu

@node Working with ProtonMail
@subsection Working with ProtonMail

Here is a variation on the example above which checks the constrained ProtonMail key server for ProtonMail public keys.

```python
import gpg
import requests
import sys

print("\nThis script searches the ProtonMail key server for the specified key and\n")
```
imports it.

```
c = gpg.Context(armor=True)
url = "https://api.protonmail.ch/pks/lookup"
ksearch = []

if len(sys.argv) >= 2:
    keyterm = sys.argv[1]
else:
    keyterm = input("Enter the key ID, UID or search string: ")

if keyterm.count("@@") == 2 and keyterm.startswith("@@") is True:
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:])
elif keyterm.count("@@") == 1 and keyterm.startswith("@@") is True:
    ksearch.append("@{0}@@@protonmail.com".format(keyterm[1:]))
    ksearch.append("@{0}@@@protonmail.ch".format(keyterm[1:]))
    ksearch.append("@{0}@@@pm.me".format(keyterm[1:]))
elif keyterm.count("@@") == 0:
    ksearch.append("@{0}@@@protonmail.com".format(keyterm))
    ksearch.append("@{0}@@@protonmail.ch".format(keyterm))
    ksearch.append("@{0}@@@pm.me".format(keyterm))
elif keyterm.count("@@") > 2 and keyterm.startswith("@@") is False:
    uidlist = keyterm.split("@@")
    for uid in uidlist:
        ksearch.append("@{0}@@@protonmail.com".format(uid))
        ksearch.append("@{0}@@@protonmail.ch".format(uid))
        ksearch.append("@{0}@@@pm.me".format(uid))
elif keyterm.count("@@") > 2:
    uidlist = keyterm.split("@@")
    for uid in uidlist:
        ksearch.append("@{0}@@@protonmail.com".format(uid))
        ksearch.append("@{0}@@@protonmail.ch".format(uid))
        ksearch.append("@{0}@@@pm.me".format(uid))
else:
    ksearch.append(keyterm)

for k in ksearch:
    payload = @{"op": "get", "search": k}@
    try:
        r = requests.get(url, verify=True, params=payload)
        if r.ok is True:
            result = c.key_import(r.content)
        elif r.ok is False:
            result = r.content
    except Exception as e:
result = None

if result is not None and hasattr(result, "considered") is False:
    print("@{0@} for @{1@}".format(result.decode(), k))
elif result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_sub = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged
    print(""
    The total number of keys considered for import was: @{0@}
    With UIDs wholly or partially matching the following string:
    
    @{1@}"
    Number of keys revoked: @{2@}
    Number of new signatures: @{3@}
    Number of new subkeys: @{4@}
    Number of new user IDs: @{5@}
    Number of new secret keys: @{6@}
    Number of unchanged keys: @{7@}
    
The key IDs for all considered keys were:
    ***.format(num_keys, k, new_revs, new_sigs, new_sub, new_uids, new_scrt,
    nochange))
    for i in range(num_keys):
        print(result.imports[i].fpr)
    print(""
    elif result is None:
        print(e)
@end example

Both the above example, @uref{../examples/howto/pmkey-import.py, pmkey-import.py}, and a version which prompts
for an alternative GnuPG home directory, @uref{../examples/howto/pmkey-import-alt.py, pmkey-import-alt.py}, are
available with the other examples and are executable scripts.

Note that while the ProtonMail servers are based on the SKS servers, their server is related more to their API and is not feature complete by comparison to the servers in the SKS pool. One notable difference being that the ProtonMail server does not permit non ProtonMail users to update their own keys, which could be a vector for attacking ProtonMail users who may not receive a key's revocation if it had been
Performing the same tasks with the @ref{https://github.com/Selfnet/hkp4py, hkp4py module} (available via PyPI) is not too much different, but does provide a number of options of benefit to end users. Not least of which being the ability to perform some checks on a key before importing it or not. For instance it may be the policy of a site or project to only import keys which have not been revoked. The hkp4py module permits such checks prior to the importing of the keys found.

@example
import gpg
import hkp4py
import sys

c = gpg.Context()
server = hkp4py.KeyServer("hkps://hkps.pool.sks-keyservers.net")
results = []
keys = []

if len(sys.argv) > 2:
    pattern = " ".join(sys.argv[1:])
elif len(sys.argv) == 2:
    pattern = sys.argv[1]
else:
    pattern = input("Enter the pattern to search for keys or user IDs: ")

if pattern is not None:
    try:
        key = server.search(hex(int(pattern, 16)))
        keyed = True
    except ValueError as ve:
        key = server.search(pattern)
        keyed = False

if key is not None:
    keys.append(key[0])
    if keyed is True:
        try:
            fob = server.search(pattern)
        except:
            fob = None
        if fob is not None:
            keys.append(fob[0])
else:
    pass
else:
    pass

for logrus in pattern.split():
    try:
        key = server.search(hex(int(logrus, 16)))
        hexed = True
    except ValueError as ve:
        key = server.search(logrus)
        hexed = False

if key is not None:
    keys.append(key[0])
if hexed is True:
    try:
        fob = server.search(logrus)
    except:
        fob = None
    if fob is not None:
        keys.append(fob[0])
else:
    pass
else:
    pass

if len(keys) > 0:
    for key in keys:
        import_result = c.key_import(key.key_blob)
        results.append(import_result)

for result in results:
    if result is not None and hasattr(result, "considered") is False:
        print(result)
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""
        The total number of keys considered for import was:  @{0@}
        Number of keys revoked:  @{1@}
    ")
Number of new signatures: @2@
Number of new subkeys: @3@
Number of new user IDs: @4@
Number of new secret keys: @5@
Number of unchanged keys: @6@

The key IDs for all considered keys were:

```python
for i in range(num_keys):
    print(result.imports[i].fpr)
print('"
else:
    pass
```

Since the hkp4py module handles multiple keys just as effectively as one (@samp{keys} is a list of responses per matching key), the example above is able to do a little bit more with the returned data before anything is actually imported.

Import from ProtonMail via HKP for Python Example no. 1

The following script is available with the rest of the examples under the somewhat less than original name, @samp{pmkey-import-hkp.py}.
import gpg
import hkp4py
import os.path
import sys

print("This script searches the ProtonMail key server for the specified key and imports it.

Usage: pmkey-import-hkp.py [search strings]
")

c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://api.protonmail.ch")
keyterms = []
ksearch = []
allkeys = []
results = []
paradox = []
homeless = None

if len(sys.argv) > 2:
    keyterms = sys.argv[1:]
elif len(sys.argv) == 2:
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
else:
    key_term = input("Enter the key ID, UID or search string: ")
    keyterms = key_term.split()

for keyterm in keyterms:
    if keyterm.count("@@") == 2 and keyterm.startswith("@@") is True:
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
elif keyterm.count("@@") == 1 and keyterm.startswith("@@") is True:
        ksearch.append("@{0}@@@protonmail.com".format(keyterm[1:]))
        ksearch.append("@{0}@@@protonmail.ch".format(keyterm[1:]))
        ksearch.append("@{0}@@@pm.me".format(keyterm[1:]))
elif keyterm.count("@@") == 0:
        ksearch.append("@{0}@@@protonmail.com".format(keyterm))
        ksearch.append("@{0}@@@protonmail.ch".format(keyterm))
        ksearch.append("@{0}@@@pm.me".format(keyterm))
elif keyterm.count("@@") == 2 and keyterm.startswith("@@") is False:
    uidlist = keyterm.split("@@")
    for uid in uidlist:
ksearch.append("@{0}@@@protonmail.com").format(uid))
ksearch.append("@{0}@@@protonmail.ch").format(uid))
ksearch.append("@{0}@@@pm.me").format(uid))

eelif keyterm.count("@@") > 2:     
uidlist = keyterm.split("@@")

for uid in uidlist:
    ksearch.append("@{0}@@@protonmail.com").format(uid))
ksearch.append("@{0}@@@protonmail.ch").format(uid))
ksearch.append("@{0}@@@pm.me").format(uid))
else:
    ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: @{0}@",format(k))
    try:
        keys = server.search(k)
        if isinstance(keys, list) is True:
            for key in keys:
                allkeys.append(key)
        try:
            import_result = c.key_import(key.key_blob)
        except Exception as e:
            import_result = c.key_import(key.key)
        else:
            paradox.append(keys)
            import_result = None
        except Exception as e:
            import_result = None
    results.append(import_result)

for result in results:
    if result is not None and hasattr(result, "considered") is False:
        print("@{0}@ for @{1}@",format(result.decode(), k))
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged

        print("The total number of keys considered for import was: @{0}@")

    With UIDs wholly or partially matching the following string:

    @ {1 @}
Number of keys revoked: 2
Number of new signatures: 3
Number of new subkeys: 4
Number of new user IDs: 5
Number of new secret keys: 6
Number of unchanged keys: 7

The key IDs for all considered keys were:

```python
for i in range(num_keys):
    print(result.imports[i].fpr)
    print(""")
```

elif result is None:
    pass

@item
Import from ProtonMail via HKP for Python Example no. 2

Like its counterpart above, this script can also be found with the rest of the examples, by the name pmkey-import-hkp-alt.py.

With this script a modicum of effort has been made to treat anything passed as a `homedir` which either does not exist or which is not a directory, as also being a possible user ID to check for. It's not guaranteed to pick up on all such cases, but it should cover most of them.

```python
import gpg
import hkp4py
import os.path
import sys

print(""")
This script searches the ProtonMail key server for the specified key and imports it. Optionally enables specifying a different GnuPG home directory.

Usage: pmkey-import-hkp.py [homedir] [search string]
or: pmkey-import-hkp.py [search string]
```
allkeys = []
results = []
paradox = []
homeless = None

if len(sys.argv) > 3:
    homedir = sys.argv[1]
    keyterms = sys.argv[2:]
elif len(sys.argv) == 3:
    homedir = sys.argv[1]
    keyterm = sys.argv[2]
    keyterms.append(keyterm)
elif len(sys.argv) == 2:
    homedir = ""
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
else:
    keyterm = input("Enter the key ID, UID or search string: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
    keyterms.append(keyterm)

if len(homedir) == 0:
    homedir = None
    homeless = False

if homedir is not None:
    if homedir.startswith(~"~")::
        if os.path.exists(os.path.expanduser(homedir)) is True:
            if os.path.isdir(os.path.expanduser(homedir)) is True:
                c.home_dir = os.path.realpath(os.path.expanduser(homedir))
            else:
                homeless = True
        else:
            homeless = True
    elif os.path.exists(os.path.realpath(homedir)) is True:
        if os.path.isdir(os.path.realpath(homedir)) is True:
            c.home_dir = os.path.realpath(homedir)
        else:
            homeless = True
    else:
        homeless = True

# First check to see if the homedir really is a homedir and if not, treat it as
# a search string.
if homeless is True:
    keyterms.append(homedir)
    c.home_dir = None
else:
for keyterm in keyterms:
    if keyterm.count("@@") == 2 and keyterm.startswith("@@") is True:
        ksearch.append(keyterm[1:]
        ksearch.append(keyterm[1:]
        ksearch.append(keyterm[1:]
    elif keyterm.count("@@") == 1 and keyterm.startswith("@@") is True:
        ksearch.append("@{0}@@@protonmail.com".format(keyterm[1:]))
        ksearch.append("@{0}@@@protonmail.ch".format(keyterm[1:]))
        ksearch.append("@{0}@@@pm.me".format(keyterm[1:]))
    elif keyterm.count("@@") == 0:
        ksearch.append("@{0}@@@protonmail.com".format(keyterm))
        ksearch.append("@{0}@@@protonmail.ch".format(keyterm))
        ksearch.append("@{0}@@@pm.me".format(keyterm))
    elif keyterm.count("@@") == 2 and keyterm.startswith("@@") is False:
        uidlist = keyterm.split("@@")
        for uid in uidlist:
            ksearch.append("@{0}@@@protonmail.com".format(uid))
            ksearch.append("@{0}@@@protonmail.ch".format(uid))
            ksearch.append("@{0}@@@pm.me".format(uid))
    elif keyterm.count("@@") > 2:
        uidlist = keyterm.split("@@")
        for uid in uidlist:
            ksearch.append("@{0}@@@protonmail.com".format(uid))
            ksearch.append("@{0}@@@protonmail.ch".format(uid))
            ksearch.append("@{0}@@@pm.me".format(uid))
    else:
        ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: @{0}@".format(k))
    try:
        keys = server.search(k)
        if isinstance(keys, list) is True:
            for key in keys:
                allkeys.append(key)
                try:
                    import_result = c.key_import(key.key_blob)
                except Exception as e:
                    import_result = c.key_import(key.key)
                else:
                    paradox.append(keys)
                    import_result = None
        except Exception as e:
            import_result = None
    results.append(import_result)
for result in results:
    if result is not None and not hasattr(result, "considered"):  
        print("@{0}@ for @{1}@".format(result.decode(), k))
    elif result is not None and hasattr(result, "considered"):  
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""
            The total number of keys considered for import was:  @{0}@"
        )
        for i in range(num_keys):
            print(result.imports[i].fpr)
            print(""
    elif result is None:
        pass
@end example
@end enumerate

@end node Exporting keys
@end section Exporting keys

Exporting keys remains a reasonably simple task, but has been
separated into three different functions for the OpenPGP cryptographic
ingine. Two of those functions are for exporting public keys and the
third is for exporting secret keys.

@menu
* Exporting public keys::
* Exporting secret keys::
* Sending public keys to the SKS Keyservers::
There are two methods of exporting public keys, both of which are very similar to the other. The default method, \texttt{key\_export()}, will export a public key or keys matching a specified pattern as normal. The alternative, the \texttt{key\_export\_minimal()} method, will do the same thing except producing a minimised output with extra signatures and third party signatures or certifications removed.

```python
import gpg
import os.path
import sys

print("This script exports one or more public keys.
")

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("~")::
    if os.path.exists(os.path.expanduser(homedir)) is True:
        c.home_dir = os.path.expanduser(homedir)
    else:
        pass
elif os.path.exists(homedir) is True:
    c.home_dir = homedir
else:
    pass
```
try:
    result = c.key_export(pattern=logrus)
except:
    result = c.key_export(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
else:
    pass
@end example

It should be noted that the result will only return @samp{None} when a search pattern has been entered, but has not matched any keys. When the search pattern itself is set to @samp{None} this triggers the exporting of the entire public keybox.

@example
import gpg
import os.path
import sys

print("This script exports one or more public keys in minimised form.
"
"\n")

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("~"): 

if os.path.exists(os.path.expanduser(homedir)) is True:
    c.home_dir = os.path.expanduser(homedir)
else:
    pass
elif os.path.exists(homedir) is True:
    c.home_dir = homedir
else:
    pass
try:
    result = c.key_export_minimal(pattern=logrus)
except:
    result = c.key_export_minimal(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
else:
    pass
@end example

@example
import gpg
import os
import os.path
import sys

print("This script exports one or more secret keys."

The gpg-agent and pinentry are invoked to authorise the export.

The following example exports the secret key to a file which is then
set with the same permissions as the output files created by the
command line secret key export options.

@example
import gpg
import os
import os.path
import sys

print("This script exports one or more secret keys."

The gpg-agent and pinentry are invoked to authorise the export.

```python
c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
logrus = sys.argv[2]
homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if len(homedir) == 0:
    homedir = None
elif homedir.startswith("~");
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = os.path.realpath(homedir)

if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass

if homedir is not None:
    c.home_dir = homedir
else:
    pass

try:
    result = c.key_export_secret(pattern=logrus)
except:
    result = c.key_export_secret(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
os.chmod(keyfile, 0o600)
Alternatively the approach of the following script can be used. This longer example saves the exported secret key(s) in files in the GnuPG home directory, in addition to setting the file permissions as only readable and writable by the user. It also exports the secret key(s) twice in order to output both GPG binary (@samp{.gpg}) and ASCII armoured (@samp{.asc}) files.

@example
import gpg
import os
import os.path
import subprocess
import sys

print("This script exports one or more secret keys as both ASCII armored and binary file formats, saved in files within the user's GPG home directory.

The gpg-agent and pinentry are invoked to authorise the export.

")

if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-dirs homedir"
else:
    gpgconfcmd = "gpgconf --list-dirs homedir"

a = gpg.Context(armor=True)
b = gpg.Context()
c = gpg.Context()

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the filename to save the secret key to: ")
logrus = input("Enter the UID matching the secret key(s) to export: ")
homedir = input("Enter the GPG configuration directory path (optional): ")

if len(homedir) == 0:
    homedir = None
elif homedir.startswith("~"):
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = os.path.realpath(homedir)

if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass

if homedir is not None:
    c.home_dir = homedir
else:
    pass

if c.home_dir is not None:
    if c.home_dir.endswith("/"):
        gpgfile = "@{0}@{1}.gpg".format(c.home_dir, keyfile)
        ascfile = "@{0}@{1}.asc".format(c.home_dir, keyfile)
    else:
        gpgfile = "@{0}@/#@{1}.gpg".format(c.home_dir, keyfile)
        ascfile = "@{0}@/#@{1}.asc".format(c.home_dir, keyfile)
else:
    if os.path.exists(os.environ["GNUPGHOME"])) is True:
        hd = os.environ["GNUPGHOME"]
    else:
        try:
            hd = subprocess.getoutput(gpgconfcmd)
        except:
            process = subprocess.Popen(gpgconfcmd.split(),
                                      stdout=subprocess.PIPE)
            procom = process.communicate()
            if sys.version_info[0] == 2:
                hd = procom[0].strip()
            else:
                hd = procom[0].decode().strip()
gpgfile = "@{0}@/@{1}@.gpg".format(hd, keyfile)
ascfile = "@{0}@/@{1}@.asc".format(hd, keyfile)

try:
a_result = a.key_export_secret(pattern=logrus)
b_result = b.key_export_secret(pattern=logrus)
except:
a_result = a.key_export_secret(pattern=None)
b_result = b.key_export_secret(pattern=None)

if a_result is not None:
    with open(ascfile, "wb") as f:
        f.write(a_result)
    os.chmod(ascfile, 0o600)
else:
    pass

if b_result is not None:
    with open(gpgfile, "wb") as f:
        f.write(b_result)
    os.chmod(gpgfile, 0o600)
else:
    pass
@end example

@node Sending public keys to the SKS Keyservers
@subsection Sending public keys to the SKS Keyservers

As with the previous section on importing keys, the @samp{hkp4py} module adds another option with exporting keys in order to send them to the public keyservers.

The following example demonstrates how this may be done.

@example
import gpg
import hkp4py
import os.path
import sys

print("***
This script sends one or more public keys to the SKS keyservers and is essentially a slight variation on the export-key.py script.
***")

c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://hkps.pool.sks-keyservers.net")
if len(sys.argv) > 2:
    logrus = " ".join(sys.argv[1:1])
elif len(sys.argv) == 2:
    logrus = sys.argv[1]
else:
    logrus = input("Enter the UID matching the key(s) to send: ")

if len(logrus) > 0:
    try:
        export_result = c.key_export(pattern=logrus)
    except Exception as e:
        print(e)
        export_result = None
    else:
        export_result = c.key_export(pattern=None)

if export_result is not None:
    try:
        try:
            send_result = server.add(export_result)
        except:
            send_result = server.add(export_result.decode())
        if send_result is not None:
            print(send_result)
        else:
            pass
        except Exception as e:
            print(e)
    else:
        pass
@end example

An expanded version of this script with additional functions for specifying an alternative homedir location is in the examples directory as @samp{send-key-to-keyserver.py}.

The @samp{hkp4py} module appears to handle both string and byte literal text data equally well, but the GPGME bindings deal primarily with byte literal data only and so this script sends in that format first, then tries the string literal form.

@node Basic Functions
@chapter Basic Functions

The most frequently called features of any cryptographic library will be the most fundamental tasks for encryption software. In this section we will look at how to programmatically encrypt data, decrypt it, sign it and verify signatures.
Encrypting is very straightforward. In the first example below the message, @samp{text}, is encrypted to a single recipient's key. In the second example the message will be encrypted to multiple recipients.

Those keyword arguments are: @samp{recipients}, a list of keys encrypted to (covered in greater detail in the following section); @samp{sign}, whether or not to sign the plaintext data, see subsequent sections on signing and verifying signatures below (defaults to @samp{True}); @samp{sink}, to write results or partial results to a secure sink instead of returning it (defaults to @samp{None}); @samp{passphrase}, only used when utilising symmetric encryption (defaults to @samp{None}); @samp{always_trust}, used to override the trust model settings for recipient keys (defaults to @samp{False}); @samp{add_encrypt_to}, utilises any preconfigured @samp{encrypt-to} or @samp{default-key} settings in the user's @samp{gpg.conf} file (defaults to @samp{False}); @samp{prepare}, prepare for encryption (defaults to @samp{False}); @samp{expect_sign}, prepare for signing (defaults to @samp{False}); @samp{compress}, compresses the plaintext prior to encryption (defaults to @samp{True}).

```python
import gpg
a_key = "0x12345678DEADBEEF"
text = b"""Some text to test with.
```

Since the text in this case must be bytes, it is most likely that
the input form will be a separate file which is opened with "rb" as this is the simplest method of obtaining the correct data format.

```python
c = gpg.Context(armor=True)
rkey = list(c.keylist(pattern=a_key, secret=False))
ciphertext, result, sign_result = c.encrypt(text, recipients=rkey, sign=False)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
@end example
```

Though this is even more likely to be used like this; with the plaintext input read from a file, the recipient keys used for encryption regardless of key trust status and the encrypted output also encrypted to any preconfigured keys set in the @samp{gpg.conf} file:

```python
import gpg

a_key = "0x12345678DEADBEEF"

with open("secret_plans.txt", "rb") as afile:
    text = afile.read()

c = gpg.Context(armor=True)
rkey = list(c.keylist(pattern=a_key, secret=False))
ciphertext, result, sign_result = c.encrypt(text, recipients=rkey, sign=True,
                                            always_trust=True,
                                            add_encrypt_to=True)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
@end example
```

If the @samp{recipients} parameter is empty then the plaintext is encrypted symmetrically. If no @samp{passphrase} is supplied as a parameter or via a callback registered with the @samp{Context()} then an out-of-band prompt for the passphrase via pinentry will be invoked.

@node Encrypting to multiple keys
@subsection Encrypting to multiple keys

Encrypting to multiple keys essentially just expands upon the key selection process and the recipients from the previous examples.

The following example encrypts a message (@samp{text}) to everyone with an email address on the @samp{gnupg.org} domain, searching
the keyservers for "gnupg.org" produces over 400 results, the majority of which aren't actually at the gnupg.org domain, but just included a comment regarding the project in their key somewhere.) but does @emph{not} encrypt to a default key or other key which is configured to normally encrypt to.

@example
import gpg

text = b"""Oh look, another test message.

The same rules apply as with the previous example and more likely than not, the message will actually be drawn from reading the contents of a file or, maybe, from entering data at an input() prompt.

Since the text in this case must be bytes, it is most likely that the input form will be a separate file which is opened with "rb" as this is the simplest method of obtaining the correct data format.

```python
c = gpg.Context(armor=True)
rpattern = list(c.keylist(pattern="@@gnupg.org", secret=False))
logrus = []

for i in range(len(rpattern)):
    if rpattern[i].can_encrypt == 1:
        logrus.append(rpattern[i])

ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
                                             sign=False, always_trust=True)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
@end example
```

All it would take to change the above example to sign the message and also encrypt the message to any configured default keys would be to change the @samp{c.encrypt} line to this:

```python
ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
                                             always_trust=True,
                                             add_encrypt_to=True)
@end example
```
The only keyword arguments requiring modification are those for which
the default values are changing. The default value of @samp{sign} is
@samp{True}, the default of @samp{always_trust} is @samp{False}, the default of
@samp{add_encrypt_to} is @samp{False}.

If @samp{always_trust} is not set to @samp{True} and any of the recipient keys
are not trusted (e.g. not signed or locally signed) then the
encryption will raise an error. It is possible to mitigate this
somewhat with something more like this:

@example
import gpg

with open("secret_plans.txt.asc", "rb") as afile:
    text = afile.read()

c = gpg.Context(armor=True)
rpattern = list(c.keylist(pattern="@@gnupg.org", secret=False))
logrus = []

for i in range(len(rpattern)):
    if rpattern[i].can_encrypt == 1:
        logrus.append(rpattern[i])

    try:
        ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
                                                    add_encrypt_to=True)
    except gpg.errors.InvalidRecipients as e:
        for i in range(len(e.recipients)):
            for n in range(len(logrus)):
                if logrus[n].fpr == e.recipients[i].fpr:
                    logrus.remove(logrus[n])
            else:
                pass

        try:
            ciphertext, result, sign_result = c.encrypt(text,
                                                        recipients=logrus,
                                                        add_encrypt_to=True)
        except:
            pass
@end example

This will attempt to encrypt to all the keys searched for, then remove
invalid recipients if it fails and try again.

@node Decryption
@section Decryption

Decrypting something encrypted to a key in one's secret keyring is fairly straight forward.

In this example code, however, preconfiguring either @samp{gpg.Context()} or @samp{gpg.core.Context()} as @samp{c} is unnecessary because there is no need to modify the Context prior to conducting the decryption and since the Context is only used once, setting it to @samp{c} simply adds lines for no gain.

@example
import gpg
ciphertext = input("Enter path and filename of encrypted file: ")
newfile = input("Enter path and filename of file to save decrypted data to: ")

with open(ciphertext, "rb") as cfile:
    try:
        plaintext, result, verify_result = gpg.Context().decrypt(cfile)
    except gpg.errors.GPGMEError as e:
        plaintext = None
        print(e)

if plaintext is not None:
    with open(newfile, "wb") as nfile:
        nfile.write(plaintext)
    else:
        pass
@end example

The data available in @samp{plaintext} in this example is the decrypted content as a byte object, the recipient key IDs and algorithms in @samp{result} and the results of verifying any signatures of the data in @samp{verify_result}.

If @samp{gpg.Context().decrypt(cfile, verify=False)} is called instead, then @samp{verify_result} will be returned as @samp{None} and the rest remains as described here.

@node Signing text and files
@section Signing text and files

The following sections demonstrate how to specify keys to sign with.

@menu
* Signing key selection::
* Normal or default signing messages or files::
By default GPGME and the Python bindings will use the default key configured for the user invoking the GPGME API. If there is no default key specified and there is more than one secret key available it may be necessary to specify the key or keys with which to sign messages and files.

```
import gpg

logrus = input("Enter the email address or string to match signing keys to: ")
hancock = gpg.Context().keylist(pattern=logrus, secret=True)
sig_src = list(hancock)
```

The signing examples in the following sections include the explicitly designated `@samp{signers}` parameter in two of the five examples; once where the resulting signature would be ASCII armoured and once where it would not be armoured.

While it would be possible to enter a key ID or fingerprint here to match a specific key, it is not possible to enter two fingerprints and match two keys since the pattern expects a string, bytes or None and not a list. A string with two fingerprints won't match any single key.

The normal or default signing process is essentially the same as is most often invoked when also encrypting a message or file. So when the encryption component is not utilised, the result is to produce an encoded and signed output which may or may not be ASCII armoured and which may or may not also be compressed.

By default compression will be used unless GnuPG detects that the plaintext is already compressed. ASCII armouring will be determined according to the value of `@samp{gpg.Context().armor}`.

The compression algorithm is selected in much the same way as the symmetric encryption algorithm or the hash digest algorithm is when multiple keys are involved; from the preferences saved into the key
itself or by comparison with the preferences with all other keys involved.

@example
import gpg

text0 = """"Declaration of ... something.

===

text = text0.encode()

c = gpg.Context(armor=True, signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.asc", "w") as afile:
   afile.write(signed_data.decode())
@end example

Though everything in this example is accurate, it is more likely that reading the input data from another file and writing the result to a new file will be performed more like the way it is done in the next example. Even if the output format is ASCII armoured.

@example
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
   text = tfile.read()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.sig", "wb") as afile:
   afile.write(signed_data)
@end example

@node Detached signing messages and files
@subsection Detached signing messages and files

Detached signatures will often be needed in programmatic uses of GPGME, either for signing files (e.g. tarballs of code releases) or as a component of message signing (e.g. PGP/MIME encoded email).

@example
import gpg

text0 = """"Declaration of ... something.
text = text0.encode()

c = gpg.Context(armor=True)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
@end example

As with normal signatures, detached signatures are best handled as byte literals, even when the output is ASCII armoured.

@example
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context(signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.sig", "wb") as afile:
    afile.write(signed_data)
@end example

@node Clearsigning messages or text
@subsection Clearsigning messages or text

Though PGP/in-line messages are no longer encouraged in favour of PGP/MIME, there is still sometimes value in utilising in-line signatures. This is where clear-signed messages or text is of value.

@example
import gpg

text0 = """"Declaration of ... something.

==
text = text0.encode()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.CLEAR)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
@end example
In spite of the appearance of a clear-signed message, the data handled by GPGME in signing it must still be byte literals.

```python
import gpg

text = tfile.read()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.CLEAR)

afile.write(signed_data)
```

Essentially there are two principal methods of verification of a signature. The first of these is for use with the normal or default signing method and for clear-signed messages. The second is for use with files and data with detached signatures.

The following example is intended for use with the default signing method where the file was not ASCII armoured:

```python
import gpg
import time

filename = "statement.txt"
gpg_file = "statement.txt.gpg"

c = gpg.Context()

try:
    data, result = c.verify(open(gpg_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
@{0@")
whereas this next example, which is almost identical would work with normal ASCII armoured files and with clear-signed files:

```python
@example
import gpg
import time

filename = "statement.txt"
asc_file = "statement.txt.asc"

c = gpg.Context()

try:
data, result = c.verify(open(asc_file))
verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
            with key @{0@} with key @{1@}
            made at @{2@} made at @{2@}
        ".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
            time.ctime(sign.timestamp))))
else:
    pass
@end example
```

in both of the previous examples it is also possible to compare the original data that was signed against the signed data in @samp{data} to see if it matches with something like this:

```python
@example
with open(filename, "rb") as afile:
text = afile.read()
```
if text == data:
    print("Good signature.")
else:
    pass
@end example

The following two examples, however, deal with detached signatures. With his method of verification the data that was signed does not get returned since it is already being explicitly referenced in the first argument of @samp{c.verify}. So @samp{data} is @samp{None} and only the information in @samp{result} is available.

@example
import gpg
import time

filename = "statement.txt"
sig_file = "statement.txt.sig"

c = gpg.Context()

try:
    data, result = c.verify(open(filename), open(sig_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:

@{0@}
with key @{1@}
made at @{2@}

".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
            time.ctime(sign.timestamp)))
else:
    pass
@end example

@example
import gpg
import time

filename = "statement.txt"
asc_file = "statement.txt.asc"
c = gpg.Context()

try:
    data, result = c.verify(open(filename), open(asc_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("""Good signature from:
@{0}@ with key @{1@} made at @{2@}
***.format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
           time.ctime(sign.timestamp)))
else:
    pass
@end example

@node Creating keys and subkeys
@chapter Creating keys and subkeys

The one thing, aside from GnuPG itself, that GPGME depends on, of course, is the keys themselves. So it is necessary to be able to generate them and modify them by adding subkeys, revoking or disabling them, sometimes deleting them and doing the same for user IDs.

In the following examples a key will be created for the world's greatest secret agent, Danger Mouse. Since Danger Mouse is a secret agent he needs to be able to protect information to @samp{SECRET} level clearance, so his keys will be 3072-bit keys.

The pre-configured @samp{gpg.conf} file which sets cipher, digest and other preferences contains the following configuration parameters:

@example
expert
allow-freeform-uid
allow-secret-key-import
trust-model tofu+pgp
tofu-default-policy unknown
enable-large-rsa
enable-dsa2
cert-digest-algo SHA512
default-preference-list TWOFISH CAMELLIA256 AES256 CAMELLIA192 AES192 CAMELLIA128 AES
Generating a primary key uses the `create_key` method in a Context. It contains multiple arguments and keyword arguments, including:

- `userid`
- `algorithm`
- `expires_in`
- `expires`
- `sign`
- `encrypt`
- `certify`
- `authenticate`
- `passphrase`
- `force`

The defaults for all of those except `userid`, `algorithm`, `expires_in`, `expires` and `passphrase` is `False`. The default for `algorithm` and `passphrase` is `None`. The default for `expires_in` is `0`. The default for `expires` is `True`. There is no default for `userid`.

If `passphrase` is left as `None` then the key will not be generated with a passphrase, if `passphrase` is set to a string then that will be the passphrase and if `passphrase` is set to `True` then gpg-agent will launch pinentry to prompt for a passphrase. For the sake of convenience, these examples will keep `passphrase` set to `None`.

```python
import gpg
c = gpg.Context()
c.home_dir = "~/gnupg-dm"
userid = "Danger Mouse <dm@secret.example.net>"
dmkey = c.create_key(userid, algorithm="rsa3072", expires_in=31536000,
                   sign=True, certify=True)
```

One thing to note here is the use of setting the ``home_dir`` parameter. This enables generating the key or keys in a different location. In this case to keep the new key data created for this
example in a separate location rather than adding it to existing and active key store data. As with the default directory, @samp{~/.gnupg}, any temporary or separate directory needs the permissions set to only permit access by the directory owner. On posix systems this means setting the directory permissions to 700.

The @samp{temp-homedir-config.py} script in the HOWTO examples directory will create an alternative homedir with these configuration options already set and the correct directory and file permissions.

The successful generation of the key can be confirmed via the returned @samp{GenkeyResult} object, which includes the following data:

@example
print(""
Fingerprint:  @{0@}
Primary Key:  @{1@}
Public Key:  @{2@}
Secret Key:  @{3@}
Sub Key:  @{4@}
User IDs:  @{5@}
"").format(dmkey.fpr, dmkey.primary, dmkey.pubkey, dmkey.seckey, dmkey.sub, dmkey.uid))
@end example

Alternatively the information can be confirmed using the command line program:

@example
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
~/gnupg-dm/pubring.kbx
----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid           [ultimate] Danger Mouse <dm@@secret.example.net>

bash-4.4$
@end example

As with generating keys manually, to preconfigure expanded preferences for the cipher, digest and compression algorithms, the @samp{gpg.conf} file must contain those details in the home directory in which the new key is being generated. I used a cut down version of my own @samp{gpg.conf} file in order to be able to generate this:

@example
bash-4.4$ gpg --homedir ~/.gnupg-dm --edit-key 177B7C25DB99745EE2EE13ED026D2F19E99E63AA showpref quit
@end example
Secret key is available.

```plaintext
sec rsa3072/026D2F19E99E63AA
    trust: ultimate  validity: ultimate
[ultimate] (1). Danger Mouse <dm@secret.example.net>
```

```plaintext
[ultimate] (1). Danger Mouse <dm@secret.example.net>
    Cipher: TWOFISH, CAMELLIA256, AES256, CAMELLIA192, AES192, CAMELLIA128, AES, BLOWFISH, IDEA, CAST5, 3DES
    Digest: SHA512, SHA384, SHA256, SHA224, RIPEMD160, SHA1
    Compression: ZLIB, BZIP2, ZIP, Uncompressed
    Features: MDC, Keyserver no-modify
```

bash-4.4$
@end example

@node Subkeys
@section Subkeys

Adding subkeys to a primary key is fairly similar to creating the primary key with the `create_subkey` method. Most of the arguments are the same, but not quite all. Instead of the `userid` argument there is now a `key` argument for selecting which primary key to add the subkey to.

In the following example an encryption subkey will be added to the primary key. Since Danger Mouse is a security conscious secret agent, this subkey will only be valid for about six months, half the length of the primary key.

```plaintext
@example
import gpg
c = gpg.Context()
c.home_dir = "~/.gnupg-dm"

key = c.get_key(dmkey.fpr, secret=True)
dmsub = c.create_subkey(key, algorithm="rsa3072", expires_in=15768000, encrypt=True)
@end example
```

As with the primary key, the results here can be checked with:

```plaintext
@example
print(""
Fingerprint: @[0@] Primary Key: @[1@]"
```

```
Public Key: @{2@}
Secret Key: @{3@}
Sub Key: @{4@}
User IDs: @{5@}

@example
import gpg
c = gpg.Context()
c.home_dir = "~/.gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
uid = "Danger Mouse <danger.mouse@secret.example.net>"

As well as on the command line with:

@example
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
~/.gnupg-dm/pubring.kbx
----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
  177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid           [ultimate] Danger Mouse <dm@@secret.example.net>
ssb   rsa3072 2018-03-15 [E] [expires: 2018-09-13]
bash-4.4$
@end example

@node User IDs
@section User IDs

@menu
* Adding User IDs::
* Revoking User IDs::
@end menu

@node Adding User IDs
@subsection Adding User IDs

By comparison to creating primary keys and subkeys, adding a new user ID to an existing key is much simpler. The method used to do this is @samp{key_add_uid} and the only arguments it takes are for the @samp{key} and the new @samp{uid}.

@example
import gpg
c = gpg.Context()
c.home_dir = "~/.gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
uid = "Danger Mouse <danger.mouse@secret.example.net>"
c.key_add_uid(key, uid)
@end example

Unsurprisingly the result of this is:

@example
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
~/.gnupg-dm/pubring.kbx
----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
   177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid           [ultimate] Danger Mouse <danger.mouse@@secret.example.net>
uid           [ultimate] Danger Mouse <dm@@secret.example.net>
ssb   rsa3072 2018-03-15 [E] [expires: 2018-09-13]

bash-4.4$
@end example

@node Revoking User IDs
@subsection Revoking User IDs

Revoking a user ID is a fairly similar process, except that it uses the @samp{key_revoke_uid} method.

@example
import gpg
c = gpg.Context()
c.home_dir = "~/.gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
uuid = "Danger Mouse <danger.mouse@@secret.example.net>"

c.key_revoke_uid(key, uuid)
@end example

@node Key certification
@section Key certification

Since key certification is more frequently referred to as key signing, the method used to perform this function is @samp{key_sign}.

The @samp{key_sign} method takes four arguments: @samp{key}, @samp{uids}, @samp{expires_in} and @samp{local}. The default value of @samp{uids} is @samp{None} and which results in all user IDs being selected. The default value of both @samp{expires_in} and @samp{local} is @samp{False}; which results in the signature never expiring and being able to be exported.
The `@samp{key}` is the key being signed rather than the key doing the signing. To change the key doing the signing refer to the signing key selection above for signing messages and files.

If the `@samp{uids}` value is not `@samp{None}` then it must either be a string to match a single user ID or a list of strings to match multiple user IDs. In this case the matching of those strings must be precise and it is case sensitive.

To sign Danger Mouse's key for just the initial user ID with a signature which will last a little over a month, do this:

```python
import gpg
c = gpg.Context()
uid = "Danger Mouse <dm@secret.example.net>"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)
```

```python
@menu
* Verifying key certifications::
@end menu
```

```python
@node Verifying key certifications
@subsection Verifying key certifications
@example
import gpg
import time
c = gpg.Context()
dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
keys = list(c.keylist(pattern=dmuid, mode=gpg.constants.keylist.mode.SIGS))
key = keys[0]
for user in key.uids:
    for sig in user.signatures:
        print("0x@{0}@", format(sig.keyid), ",", time.ctime(sig.timestamp), ",", sig.uid)
@end example
```

Which for Danger Mouse displays the following:
The two key signatures listed are for the self-certification of Danger Mouse's key made when the key was created in March, 2018; and the second is a signature made by the author and set to expire at the end of the year. Note that the second signature was made with the following code (including the preceding code to display the output of the certifications or key signatures):

```python
import gpg
import math
import pendulum
import time
hd = "/home/dm/.gnupg"
c = gpg.Context()
d = gpg.Context(home_dir=hd)
dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
dmuid = "Danger Mouse <dm@secret.example.net>"
dkeys = list(c.keylist(pattern=dmuid))
dmkey = dkeys[0]
c.key_import(d.key_export(pattern=None))

tp = pendulum.period(pendulum.now(tz="local")), pendulum.datetime(2019, 1, 1))
ts = tp.total_seconds()
total_secs = math.ceil(ts)
c.key_sign(dmkey, uids=dmuid, expires_in=total_secs)

for user in key.uids:
    for sig in user.signatures:
        print("0x@{0}@", format(sig.keyid), ",", time.ctime(sig.timestamp), ",", sig.uid)
@end example
```

Note that this final code block includes the use of a module which is `not` part of Python's standard library, the @uref{https://pendulum.eustace.io/, pendulum module}. Unlike the standard datetime module, pendulum makes working with dates and times significantly easier in Python; just as the requests module makes working with HTTP and HTTPS easier than the builtin modules do.
Though neither requests nor pendulum are required modules for using the GPGME Python bindings, they are both highly recommended more generally.

@node Advanced or Experimental Use Cases
@chapter Advanced or Experimental Use Cases

@menu
*C plus Python plus SWIG plus Cython::
@end menu

@node C plus Python plus SWIG plus Cython
@section C plus Python plus SWIG plus Cython

In spite of the apparent incongruence of using Python bindings to a C interface only to generate more C from the Python; it is in fact quite possible to use the GPGME bindings with @uref{http://docs.cython.org/en/latest/index.html, Cython}. Though in many cases the benefits may not be obvious since the most computationally intensive work never leaves the level of the C code with which GPGME itself is interacting with.

Nevertheless, there are some situations where the benefits are demonstrable. One of the better and easier examples being the one of the early examples in this HOWTO, the @ref{Counting keys, , key counting} code. Running that example as an executable Python script, @samp{keycount.py} (available in the @samp{examples/howto/} directory), will take a noticeable amount of time to run on most systems where the public keybox or keyring contains a few thousand public keys.

Earlier in the evening, prior to starting this section, I ran that script on my laptop; as I tend to do periodically and timed it using @samp{time} utility, with the following results:

@example
bash-4.4$ time keycount.py
Number of secret keys: 23
Number of public keys: 12112

real 11m52.945s
user 0m0.913s
sys 0m0.752s

bash-4.4$
@end example
Sometime after that I imported another key and followed it with a little test of Cython. This test was kept fairly basic, essentially lifting the material from the Cython Basic Tutorial to demonstrate compiling Python code to C. The first step was to take the example key counting code quoted previously, essentially from the importing of the `gpg` module to the end of the script:

```python
import gpg
c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)

seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

print("Number of secret keys:  @0@
Number of public keys:  @1@
".format(secnum, pubnum))
```

Save that into a file called `keycount.pyx` and then create a `setup.py` file which contains this:

```python
from distutils.core import setup
from Cython.Build import cythonize

setup(
    ext_modules = cythonize("keycount.pyx")
)
```

Compile it:

```bash
bash-4.4$ python setup.py build_ext --inplace
bash-4.4$
```
Then run it in a similar manner to `sample{keycount.py}`:

```
@example
bash-4.4$ time python3.7 -c "import keycount"
Number of secret keys:  23
Number of public keys:  12113
real        6m47.905s
user        0m0.785s
sys        0m0.331s
bash-4.4$
@end example
```

Cython turned `sample{keycount.pyx}` into an 81KB `sample{keycount.o}` file in the `sample{build/}` directory, a 24KB `sample{keycount.cpython-37m-darwin.so}` file to be imported into Python 3.7 and a 113KB `sample{keycount.c}` generated C source code file of nearly three thousand lines. Quite a bit bigger than the 314 bytes of the `sample{keycount.pyx}` file or the full 1,452 bytes of the full executable `sample{keycount.py}` example script.

On the other hand it ran in nearly half the time; taking 6 minutes and 47.905 seconds to run. As opposed to the 11 minutes and 52.945 seconds which the CPython script alone took.

The `sample{keycount.pyx}` and `sample{setup.py}` files used to generate this example have been added to the `sample{examples/howto/advanced/cython/}` directory. The example versions include some additional options to annotate the existing code and to detect Cython's use. The latter comes from the `uref{http://docs.cython.org/en/latest/src/tutorial/pure.html#magic-attributes-within-the-pxd, Magic Attributes}` section of the Cython documentation.

@node Miscellaneous extras and work-arounds
@chapter Miscellaneous extras and work-arounds

Most of the things in the following sections are here simply because there was no better place to put them, even though some are only peripherally related to the GPGME Python bindings. Some are also workarounds for functions not integrated with GPGME as yet. This is especially true of the first of these, dealing with `uref{Group lines, , group lines}`.

@menu
* Group lines::
  * Keyserver access for Python::
  * GPGME version checking::
@end menu
There is not yet an easy way to access groups configured in the gpg.conf file from within GPGME. As a consequence these central groupings of keys cannot be shared amongst multiple programs, such as MUAs readily.

The following code, however, provides a work-around for obtaining this information in Python.

```python
import subprocess
import sys

if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-options gpg"
else:
    gpgconfcmd = "gpgconf --list-options gpg"

process = subprocess.Popen(gpgconfcmd.split(), stdout=subprocess.PIPE)
procom = process.communicate()

if sys.version_info[0] == 2:
    lines = procom[0].splitlines()
else:
    lines = procom[0].decode().splitlines()

for line in lines:
    if line.startswith("group") is True:
        break

groups = line.split(";")[1].replace("", ").split("")

group_lines = []
group_lists = []

for group in groups:
    group_lines.append(group.split("="))
group_lists.append(group.split("="))

for glist in group_lists:
    glist[1] = glist[1].split()

The result of that code is that @samp{group_lines} is a list of lists where @samp{group_lines[i][0]} is the name of the group and @samp{group_lines[i][1]}
is the key IDs of the group as a string.

The @samp{group_lists} result is very similar in that it is a list of lists. The first part, @samp{group_lists[i][0]} matches @samp{group_lines[i][0]} as the name of the group, but @samp{group_lists[i][1]} is the key IDs of the group as a list.

A demonstration of using the @samp{groups.py} module is also available in the form of the executable @samp{mutt-groups.py} script. This second script reads all the group entries in a user's @samp{gpg.conf} file and converts them into crypt-hooks suitable for use with the Mutt and Neomutt mail clients.

@node Keyserver access for Python
@section Keyserver access for Python

The @uref{https://github.com/Selfnet/hkp4py, hkp4py} module by Marcel Fest was originally a port of the old @uref{https://github.com/dgladkov/python-hkp, python-hkp} module from Python 2 to Python 3 and updated to use the @uref{http://docs.python-requests.org/en/latest/index.html, requests} module instead. It has since been modified to provide support for Python 2.7 as well and is available via PyPI.

Since it rewrites the @samp{hkp} protocol prefix as @samp{http} and @samp{hkps} as @samp{https}, the module is able to be used even with servers which do not support the full scope of keyserver functions.\footnote{Such as with ProtonMail servers. This also means that restricted servers which only advertise either HTTP or HTTPS endpoints and not HKP or HKPS endpoints must still be identified as as HKP or HKPS within the Python Code. The @samp{hkp4py} module will rewrite these appropriately when the connection is made to the server.} It also works quite readily when incorporated into a @ref{C plus Python plus SWIG plus Cython, Cython} generated and compiled version of any code.

@menu
* Key import format::
@end menu

@node Key import format
@section Key import format

The hkp4py module returns key data via requests as string literals (@samp{r.text}) instead of byte literals (@samp{r.content}). This means that the returned key data must be encoded to UTF-8 when importing that key material using a @samp{gpg.Context().key_import()} method.

For this reason an alternative method has been added to the @samp{search} function of @samp{hkp4py.KeyServer()} which returns the key in the correct
format as expected by @samp{key_import}. When importing using this module, it is now possible to import with this:

@example
for key in keys:
    if key.revoked is False:
        gpg.Context().key_import(key.key_blob)
    else:
        pass
@end example

Without that recent addition it would have been necessary to encode the contents of each @samp{hkp4py.KeyServer().search()[i].key} in @samp{hkp4py.KeyServer().search()} before trying to import it.

An example of this is included in the @ref{Importing keys, , Importing Keys} section of this HOWTO and the corresponding executable version of that example is available in the @samp{lang/python/examples/howto} directory as normal; the executable version is the @samp{import-keys-hkp.py} file.

@node GPGME version checking
@section GPGME version checking

For various reasons it may be necessary to check which version of GPGME the bindings have been built against; including whether a minimum required version of GPGME is in use.

For the most part the @samp{gpg.version.versionstr} and @samp{gpg.version.versionlist} methods have been quite sufficient. The former returns the same string as @samp{gpgme-config --version}, while the latter returns the major, minor and patch values in a list.

To check if the installed bindings have actually been built against the current installed libgpgme version, this check can be performed:

@example
import gpg
import subprocess
import sys

  gpgme_version_str = gpgme_version_call.communicate()

  if sys.version_info[0] == 2:
      gpgme_version = gpgme_version_str[0].strip()
  elif sys.version_info[0] >= 3:
  ...
gpgme_version = gpgme_version_str[0].decode().strip()
else:
gpgme_version = None

if gpgme_version is not None:
    if gpgme_version == gpg.version.versionstr:
        print("The GPGME Python bindings match libgpgme."")
    else:
        print("The GPGME Python bindings do NOT match libgpgme."")
else:
    print("Upgrade Python and reinstall the GPGME Python bindings.")
@end example

For many developers, however, the preferred checking means checking for a minimum version or point release. This is now readily available via the @samp{gpg.version.versionintlist} method (added in version @samp{1.12.1-beta79}). It is also now possible to easily check whether the installed GPGME Python bindings were built from a development or beta branch of the GPGME source code.

The following code demonstrates how both of those methods may be used:

@example
import gpg

try:
    if gpg.version.is_beta is True:
        print("The installed GPGME Python bindings were built from beta code.")
    else:
        print("The installed GPGME Python bindings are a released version.")
except Exception as e:
    print(e)

try:
    if gpg.version.versionintlist[0] == 1:
        if gpg.version.versionintlist[1] == 12:
            if gpg.version.versionintlist[2] == 1:
                print("This is the minimum version for using versionintlist.")
            elif gpg.version.versionintlist[2] > 1:
                print("The versionintlist method is available.")
            else:
                pass
        elif gpg.version.versionintlist[1] > 12:
            print("The versionintlist method is available.")
        else:
            pass
    elif gpg.version.versionintlist[0] > 1:
        print("The versionintlist method is available.")
else:
    pass
except Exception as e:
    print(e)
@end example

The points where @samp{pass} is used in the above example will most likely also produce an @samp{Exception} error since those results should only occur in versions which do not have the @samp{gpgme.version.is_beta} and @samp{gpgme.version.versionintlist} methods available.

@node Copyright and Licensing
@chapter Copyright and Licensing

@menu
* Copyright::
* Draft Editions of this HOWTO::
* License GPL compatible::
@end menu

@node Copyright
@section Copyright

Copyright  The GnuPG Project, 2018.

@node Draft Editions of this HOWTO
@section Draft Editions of this HOWTO

Draft editions of this HOWTO may be periodically available directly from the author at any of the following URLs:

@itemize
@item
@uref{https://files.au.adversary.org/crypto/gpgme-python-howto.html, GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 SSL)}
@item
@uref{http://files.au.adversary.org/crypto/gpgme-python-howto.html, GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 no SSL)}
@item
@uref{https://files.au.adversary.org/crypto/gpgme-python-howto-split/index.html, GPGME Python Bindings HOWTO draft (HTML multiple files, AWS S3 SSL)}
@item
@uref{http://files.au.adversary.org/crypto/gpgme-python-howto/index.html, GPGME Python Bindings HOWTO draft (HTML multiple files, AWS S3 no SSL)}
@end itemize

These draft versions have been generated from this document via GNU Emacs @uref{https://orgmode.org/, Org mode} to @samp{.texi} and @uref{https://www.gnu.org/software/texinfo/,
GNU Texinfo} to HTML. Though it is likely that the specific @uref{https://files.au.adversary.org/crypto/gpgme-python-howto, file} used will be on the same server with the generated output formats. Occasionally I may include the Org mode generated XHTML versions:

@itemize
@item
@uref{https://files.au.adversary.org/crypto/gpgme-python-howto.xhtml, GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 SSL)}
@item
@uref{http://files.au.adversary.org/crypto/gpgme-python-howto.xhtml, GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 no SSL)}
@end itemize

That XHTML version, however, is exported in a way which inherits a colour scheme from @uref{https://github.com/holomorph/emacs-zenburn, the author's Emacs theme} (which is a higher contrast version of @uref{http://kippura.org/zenburnpage/, Zenburn} ported by @uref{https://github.com/holomorph, Holomorph}). So it's fine for people who prefer dark themed web pages, but not so great for everyone else.

The GNU Texinfo and reStructured Text versions ship with the software, while the GNU Emacs Info version is generated from the Texinfo version using GNU Texinfo or GNU Makeinfo. The Texinfo format is generated from the original Org mode source file in Org mode itself either within GNU Emacs or via the command line by invoking Emacs in batch mode:

@example
emacs gpgme-python-howto.org --batch -f org-texinfo-export-to-texinfo --kill
emacs gpgme-python-howto --batch -f org-texinfo-export-to-texinfo --kill
@end example

The reStructuredText format is also generated from the Org mode source file, except it is generated using @uref{https://pandoc.org, Pandoc} with either of the following commands (depending on the filename):

@example
pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto.org
pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto
@end example

Note that the Org mode source files are identified as such via a mode line at the top of each file and have had their @samp{.org} file extensions dropped in order to make scripted generation of output formats easier and not require renaming files post-conversion.
Due to a bug in Org mode's texinfo conversion method, the recommended steps for generating the Texinfo files for all the files in the @samp{lang/python/doc/src/} directory are as follows:

```bash
@example
for x in * ; do
  emacs $x --batch -f org-texinfo-export-to-texinfo --kill
  cat $x.texi | sed -e 's/@\(@documentencoding UTF-8/\@@documentencoding utf-8/g' > ../texinfo/$x.texi
  pandoc -f org -t rst+smart -o ../rst/$x.rst $x
done ;
rm -fv *.texi
cd ../texinfo
mkdir info
mkdir html
for x in *.texi ; do
  makeinfo -v $x
  makeinfo --html --no-split $x
done ;
mv *.info info/
mv *.html html/
@end example
```

This code snippet includes the generation of the reStructuredText files and would be expected to be run from the @samp{doc/src/} directory containing the Org mode source files. It also assumes that the commands are being run on POSIX compliant systems with basic tools like sed, the Bourne shell and GNU Emacs\footnote{Okay, Emacs might not necessarily qualify as a basic tool, but it is common enough that having it installed on a system isn't too great an expectation, nor is it difficult to add to most POSIX systems, even if the users of those systems do not personally use it.} available. The code snippet also includes the steps for generating the Emacs Info files and HTML files from the Texinfo files. Using reStructuredText files with Sphinx is best left for the documentation of that project.

In addition to these there is a significantly less frequently updated version as a HTML @uref{https://files.au.adversary.org/crypto/gpgme-python/dita/webhelp/index.html, WebHelp site} (AWS S3 SSL); generated from DITA XML source files, which can be found in @uref{https://dev.gnupg.org/source/gpgme/browse/ben%252Fhowto-dita/, an alternative branch} of the GPGME git repository.

directory contains output files generated with Sphinx and may include a considerable number of its possible output formats, but there are no guarantees as to how recent these are or even if they are present.

These draft editions are not official documents and the version of documentation in the master branch or which ships with released versions is the only official documentation. Nevertheless, these draft editions may occasionally be of use by providing more accessible web versions which are updated between releases. They are provided on the understanding that they may contain errors or may contain content subject to change prior to an official release.

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@bye

# -*- mode: org -*-
#+TITLE: What Was New in the GPGME Python Bindings and Documentation
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xlttra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* What Was New
:PROPERTIES:
:CUSTOM_ID: new-stuff
:END:

| Version: | 0.0.1 |
| GPGME Version: | 1.13.0 |
| Author: | Ben McGinnes <ben@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language: | Australian English, British English |
| xml:lang: | en-AU, en-GB, en |
The following are all the past /What's New/ sections for the Python Bindings HOWTO and other documentation.

** What Was New in GPGME 1.120

The most obviously new point for those reading this guide is this section on other new things, but that's hardly important. Not given all the other things which spurred the need for adding this section and its subsections.

*** New in GPGME 1120

There have been quite a number of additions to GPGME and the Python bindings to it since the last release of GPGME with versions 1.11.0 and 1.11.1 in April, 2018.

The bullet points of new additions are:

- an expanded section on [[file:gpgme-python-howto#installation][installing]] and [[file:gpgme-python-howto#snafu][troubleshooting]] the Python bindings.
- The release of Python 3.7.0; which appears to be working just fine with our bindings, in spite of intermittent reports of problems for many other Python projects with that new release.
- Python 3.7 has been moved to the head of the specified python versions list in the build process.
- In order to fix some other issues, there are certain underlying functions which are more exposed through the [[file:gpgme-python-howto#howto-get-context][gpg.Context()]], but ongoing documentation ought to clarify that or otherwise provide the best means of using the bindings. Some additions to =gpg.core= and the =Context(), however, were intended (see below).
- Continuing work in identifying and confirming the cause of oft-reported [[file:gpgme-python-howto#snafu-runtime-not-funtime][problems installing the Python bindings on Windows]].
- GSOC: Google's Surreptitiously Ordered Conscription ... erm ... oh, right; Google's Summer of Code. Though there were two hopeful candidates this year; only one ended up involved with the GnuPG Project directly, the other concentrated on an unrelated third party project with closer ties to one of the GNU/Linux distributions than
to the GnuPG Project. Thus the Python bindings benefited from GSOC participant Jacob Adams, who added the key_import function; building on prior work by Tobias Mueller.

- Several new methods functions were added to the gpg.Context(), including: \[[file:gpgme-python-howto#howto-import-key][key_import]\], \[[file:gpgme-python-howto#howto-export-key][key_export]\], \[[file:gpgme-python-howto#howto-export-public-key][key_export_minimal]\] and \[[file:gpgme-python-howto#howto-export-secret-key][key_export_secret]\].
- Importing and exporting examples include versions integrated with Marcel Fest's recently released [[https://github.com/Selfnet/hkp4py][HKP for Python]] module. Some [[file:gpgme-python-howto#hkp4py][additional notes on this module]] are included at the end of the HOWTO.
- Instructions for dealing with semi-walled garden implementations like ProtonMail are also included. This is intended to make things a little easier when communicating with users of ProtonMail's services and should not be construed as an endorsement of said service. The GnuPG Project neither favours, nor disfavours ProtonMail and the majority of this deals with interacting with the ProtonMail keyserver.
- Semi-formalised the location where [[file:gpgme-python-howto#draft-editions][draft versions]] of this HOWTO may periodically be accessible. This is both for the reference of others and testing the publishing of the document itself. Renamed this file at around the same time.
- The Texinfo documentation build configuration has been replicated from the parent project in order to make to maintain consistency with that project (and actually ship with each release).
- A reStructuredText (=.rst=) version is also generated for Python developers more used to and comfortable with that format as it is the standard Python documentation format and Python developers may wish to use it with Sphinx. Please note that there has been no testing of the reStructuredText version with Sphinx at all. The reST file was generated by the simple expedient of using [[https://pandoc.org/][Pandoc]].
- Added a new section for [[file:gpgme-python-howto#advanced-use][advanced or experimental use]].
- Began the advanced use cases with [[file:gpgme-python-howto#cython][a section]] on using the module with [[https://cython.org/][Cython]].
- Added a number of new scripts to the =example/howto/= directory; some of which may be in advance of their planned sections of the HOWTO (and some are just there because it seemed like a good idea at the time).
- Cleaned up a lot of things under the hood.

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Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0*H
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certify@pca.dfn.de0*0
1.258 libpython-stdlib 2.7.13-2

1.258.1 Available under license:

The Debian packaging is 2010, Piotr Oarowski <piotr@debian.org> and is licensed under the MIT License.

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

Copyright notice (as found in LICENSE in the original source).

A. HISTORY OF THE SOFTWARE

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

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

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

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

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Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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dh_python2, pycompile, pyclean and debpython module:

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

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1.259 linux-headers 5.16.7-r1

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
  * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
  *
  * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
  * http://www.hypermall.com/
  * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
  * interrupts us (except possibly for removal/insertion of the cable?)
  * 10/4/97 - began heavy inline documentation of the code. Corrected typos
  * and spelling mistakes.
  * 10/5/97 - added code to handle PHY interrupts, disable PHY on
  * loss of link, and correctly re-enable PHY when link is
  * re-established. (put back CFG_PHYIE)
  *
  * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
  *
  * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
  *
  * Linux driver for the IDT77201 NICStAR PCI ATM controller.
  * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
  *
  * Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
  *     combined, allow nicstar_free_rx_skb to be called to
  *     recycle large data buffers
  * 2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
  * details.
  *
  *
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M. Welsh, 6 July 1996

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1.263 pgdg-keyring 2018.2

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1.264 curl 7.61.1-22.el8

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

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1.265 hdrhistogram 2.1.11

1.266 libretls 3.3.4-r3
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1.267 siddhi-extension-map 3.2.3
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- `lib/gssapi/mechglue/g_compare_name.c`
- `lib/gssapi/mechglue/g_context_time.c`
- `lib/gssapi/mechglue/g_delete_sec_context.c`
- `lib/gssapi/mechglue/g_dsp_name.c`
- `lib/gssapi/mechglue/g_dsp_status.c`
- `lib/gssapi/mechglue/g_dup_name.c`
- `lib/gssapi/mechglue/g_exp_sec_context.c`
- `lib/gssapi/mechglue/g_glue.c`
- `lib/gssapi/mechglue/g_imp_name.c`
- `lib/gssapi/mechglue/g_imp_imp_name.c`
and the initial implementation of incremental propagation, including
the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
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   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g init_sec_context.c
lib/gssapi/mechglue/g initialize.c
lib/gssapi/mechglue/g inquire_context.c
lib/gssapi/mechglue/g inquire_cred.c
lib/gssapi/mechglue/g inquire_names.c
lib/gssapi/mechglue/g process_context.c
lib/gssapi/mechglue/g rel_buffer.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/kerb5/error_tables/kdb5_err.et
kprop/kpropd.rpc.c
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import os
import sys
import re

def warn(fname, ln, msg):

print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*- ' and we don't want to change them.
    if line != '' and line != '- ':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\*([^ \*]*)( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\W*\*?\*\*?', '', line)
        line = line.strip()
if not in_comment and '/*' in line:
    (line, sep, comment_part) = line.partition('/*/')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*/').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                              code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != '':
    code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
.. _mitK5license:

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

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   :hidden:

   copyright.rst

   .. include:: notice.rst

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1.278 url-to-options 1.0.1

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1.279 cryptography 2.6.1

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1.284 json-c 0.13.1-0.4.el8

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* /opt/cola/permits/1283600554_1646732502.54/0/kafka-oauth-client-0-9-0-sources-
  jar/io/strimzi/kafka/oauth/client/ClientConfig.java
* /opt/cola/permits/1283600554_1646732502.54/0/kafka-oauth-client-0-9-0-sources-
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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java
* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/Cache.java
* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java

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* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java
* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
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* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java
* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/DnsCacheEntry.java
* /opt/cola/permits/1271008377_1644868655.02/0/netty-resolver-dns-4-1-32-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java
1.298 beevik-ntp 0.2.0

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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-9adb-92bd746eeb27

1.303 make 4.1-9.1

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Version 2, June 1991
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* /opt/cola/permits/1274596141_1645218372.83/0/vertx-service-discovery-3-9-1-sources-jar/io/vertx/servicediscovery/impl/ServiceTypes.java
* /opt/cola/permits/1274596141_1645218372.83/0/vertx-service-discovery-3-9-1-sources-jar/io/vertx/servicediscovery/spi/ServiceImporter.java
* /opt/cola/permits/1274596141_1645218372.83/0/vertx-service-discovery-3-9-1-sources-jar/io/vertx/servicediscovery/types/RedisDataSource.java
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io.vertx.servicediscovery.types.impl.MessageSourceImpl
io.vertx.servicediscovery.types.impl.HttpEndpointImpl
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1.306 x-sys 0.0.0-20210915083310-ed5796bab164

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# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
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#
#   http://code.google.com/legal/individual-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.
#
# Names should be added to this file like so:
#   Individual's name <submission email address>
#   Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
#
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* https://github.com/eclipse-ee4j/jws-api
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[subs="normal"]

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Specification: {doctitle}

Version: {reversion}

ifeval: ["{revremark}" != "]"

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/ /opt/cola/permits/1344982361_1655293790.326259/0/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/validation/Saml11TicketValidator.java
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/ /opt/cola/permits/1344982361_1655293790.326259/0/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/authentication/Saml11AuthenticationFilter.java
1.316 masterminds-semver 3.0.3

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1.317 cacheable-request 2.1.4

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  jar/io/strimzi/kafka/oauth/server/plain/JaasServerOauthOverPlainValidatorCallbackHandler.java
* /opt/cola/permits/1274552167_1645214672.52/0/kafka-oauth-server-plain-0-8-1-sources-
  jar/io/strimzi/kafka/oauth/server/plain/ServerPlainConfig.java

1.319 golang-snappy 0.0.3
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/internal/JavaVersion.java

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  jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonParseException.java
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jar/com/google/gson/annotations/JsonAdapter.java
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jar/com/google/gson/internal/bind/JsonAdapterFactory.java
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jar/com/google/gson/stream/JsonReader.java
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>

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1.344 x-oauth2 v0.0.0-20220411215720-9780585627b5

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

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

*** System features ***

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

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

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

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

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

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

*** Portability issues ***

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

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

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

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

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

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

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

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

The decompressor library contains the following main elements:

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

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

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.
There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

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

*** Poor man's object-oriented programming ***

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

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

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

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

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

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

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

*** Overall control structure ***

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

1. Master control for module selection and initialization. This has two responsibilities:
1A.  Startup initialization at the beginning of image processing.
    The individual processing modules to be used in this run are selected
    and given initialization calls.

1B.  Per-pass control.  This determines how many passes will be performed
    and calls each active processing module to configure itself
    appropriately at the beginning of each pass.  End-of-pass processing,
    where necessary, is also invoked from the master control module.

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

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

    Each buffer controller sees the world as follows:

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

    The controller knows the dataflow requirements of steps A and B: how much data
    they want to accept in one chunk and how much they output in one chunk.  Its
    function is to manage its buffer and call A and B at the proper times.

    A data buffer control module may itself be viewed as a processing step by a
    higher-level control module; thus the control modules form a binary tree with
    elementary processing steps at the leaves of the tree.

    The control modules are objects.  A considerable amount of flexibility can
    be had by replacing implementations of a control module.  For example:
    * Merging of adjacent steps in the pipeline is done by replacing a control
      module and its pair of processing-step modules with a single processing-
      step module.  (Hence the possible merges are determined by the tree of
      control modules.)
    * In some processing modes, a given interstep buffer need only be a "strip"
      buffer large enough to accommodate the desired data chunk sizes.  In other
      modes, a full-image buffer is needed and several passes are required.
      The control module determines which kind of buffer is used and manipulates
      virtual array buffers as needed.  One or both processing steps may be
      unaware of the multi-pass behavior.

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

*** Compression object structure ***

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

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

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

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

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

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

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

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

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

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

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

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

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

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

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

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

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

*** Decompression object structure ***

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

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

As before, this diagram also represents typical control flow. The objects shown are:

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

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.
* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

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

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

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

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

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

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

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).
In addition to the above objects, the decompression library includes these objects:

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

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

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

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

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

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

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

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.
A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

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

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

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

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays
```

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

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to
0..255. (NB: different values are required when 12-bit samples are in use.
The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be
declared as 255 and 128 respectively in an 8-bit implementation, and as 4095
and 2048 in a 12-bit implementation.)

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

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

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[COLOR component][row][col])
where col is measured from the image left edge, but row is measured from the
first sample row currently in memory. Either of the first two indexings can
be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which
the components of a pixel are stored together, the data passed to or from the
surrounding application uses the traditional convention: a single pixel is
represented by N consecutive JSAMPLE values, and an image row is an array of
(# of color components)*(image width) JSAMPLEs. One or more rows of data can
be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is
converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend
with component-wise storage.)

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

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZEx2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBROW *JBARRAY; ptr to a list of such rows
typedef JBARRAY *JIMAGE; ptr to a list of color component arrays

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

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

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

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

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

*** Suspendable processing ***

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

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.
The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

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

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

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

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

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

*** Memory manager services ***

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

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

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

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

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

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

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

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

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

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

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

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

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

*** Memory manager internal structure ***

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

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

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

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

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

*** Implications of DNL marker ***

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

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

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

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

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

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's
Huffman decoder; this implies a speed penalty whether the feature is used or not.

2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/structure.txt

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcparam.c

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

/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
This file exists to provide a single place to fix any problems with
including the wrong system include files. (Common problems are taken
care of by the standard jconfig symbols, but on really weird systems
you may have to edit this file.)

NOTE: this file is NOT intended to be included by applications using the
JPEG library. Most applications need only include jpeglib.h.

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdapimin.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdatadst.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcapimin.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
  /opt/cola/permits/112677588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jmemnobs.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
The Independent JPEG Group's JPEG software

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README for release 9c of 14-Jan-2018

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

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

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

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

DOCUMENTATION ROADMAP

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

This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

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

OVERVIEW
========

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

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

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.
In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

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

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

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

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

In plain English:

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

In legalese:

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

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

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

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

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

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

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

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

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

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

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

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


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/
The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

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

ARCHIVE LOCATIONS

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr9c.zip.


ACKNOWLEDGMENTS

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

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

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

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

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

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

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

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

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

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

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

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.
We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

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

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations. IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was.

The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must
be fully transparent, accountable, and liable.
IJG has secured the value for all concerned free people of the planet.

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

TO DO
=====

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/README
No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011-2012 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the
 *     virtual arrays;
 * * control logic for swapping virtual arrays between main memory and
 *     backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
 * memory so that backing storage will never be used, much of the virtual
 * array control logic could be removed. (Of course, if you have that much
 * memory then you shouldn't care about a little bit of unused code...)
 */
Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jmemmgr.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

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

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

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

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

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

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

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
which is used like this:
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
Note the set of parentheses surrounding the parameter list.

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

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

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

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.
2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

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

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

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/coderules.txt
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jccolor.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
* jddctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
* 
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdctmgr.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/ckconfig.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
 * we must exit back to the application. On resumption, we reprocess
 * the marker.
 */

Found in path(s):
 * /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdmarker.c

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

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
 * /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/wrrle.c

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdinput.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jpegint.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jchuff.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

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

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

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

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

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

OVERVIEW
========

Functions provided by the library

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

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

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

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

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

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

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

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

The rough outline of a JPEG compression operation is:

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

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can
provide its own destination manager to do something else.

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

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

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

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

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

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

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

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

BASIC LIBRARY USAGE
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Data formats
-----------
Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). **PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.** A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

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

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

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

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)
The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (i.e., at most 256 colors for an 8-bit JPEG library).

Compression details
--------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail
if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically...
RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
        cinfo.image_width = Width; /* image width and height, in pixels */
        cinfo.image_height = Height;
        cinfo.input_components = 3; /* # of color components per pixel */
        cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

        jpeg_set_defaults(&cinfo);
        /* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
        jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.
5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

   Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

   Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

   The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

   Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

   JSAMPROW row_pointer[1]; /* pointer to a single row */
   int row_stride; /* physical row width in buffer */

   row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

   while (cinfo.next_scanline < cinfo.image_height) {
      row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
      jpeg_write_scanlines(&cinfo, row_pointer, 1);
   }

   jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
   * If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
   * If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
   In any case, the return value is the same as the change in the value of
next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy()
should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call
  jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details

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

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.
Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

```
jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.
```

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.
Typical code is just

```
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

```
output_width output_height
out_color_components output_color_components
output_components out_color_components
colormap actual_number_of_colors
```

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling `jpeg_start_decompress()`. This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling `jpeg_calc_output_dimensions()` after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
```
jpeg_read_scanlines(...);
```

Now you can read the decompressed image data by calling `jpeg_read_scanlines()` one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); `jpeg_read_scanlines()` will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!
Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.
8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary
compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorsplash (j_compress_ptr cinfo, _COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified,
and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colors() before rather than after.

jpeg_default_colors() (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colors(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values (see below).
jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling jpeg_set_colorspace(), because entropy table assignment in jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorsace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLs]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLs]
Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage. Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling(). Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLs]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLs]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Decompression parameter selection

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width
  Width and height of image
JDIMENSION image_height
int num_components
  Number of color components
J_COLOR_SPACE jpeg_color_space
  Colorspace of image
boolean saw_JFIF_marker
  TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version
  Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit
  Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker
  TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform
  Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
  Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale.
  The application can change this field to request output in a different
colors. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE
no dithering: fast, very low quality
JDITHER_ORDERED
ordered dither: moderate speed and quality
JDITHER_FS
Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)
When quantize_colors is TRUE, the target color map is described by the next
two fields. colormap is set to NULL by jpeg_read_header(). The application
can supply a color map by setting colormap non-NULL and setting
actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress()
selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is
only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components
rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage
pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same
as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding
progressive JPEG files; if FALSE, not. Default is TRUE. Early
progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few
AC coefficients are known to full accuracy, so it is relevant only
when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass.quant
These are significant only in buffered-image mode, which is
described in its own section below.
The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

```
JDIMENSION output_width	Actual dimensions of output image.
JDIMENSION output_height
int out_color_components	Number of color components in out_color_space.
int output_components	Number of color components returned.
int rec_outbuf_height	Recommended height of scanline buffer.
```

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

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

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.
For compression, the source data's color space is specified by field
in_color_space. This is transformed to the JPEG file's color space given
by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color
space depending on in_color_space, but you can override this by calling
jpeg_set_colorsgrasspace(). Of course you must select a supported transformation.
jccolor.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
RGB => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers
that indicate the color space of the JPEG file. It is important to ensure
that these are written correctly, or omitted if the JPEG file's color space
is not one of the ones supported by the interchange standards.
jpeg_set_colorsgrassape() will set the compression parameters to include or omit
the APPn markers properly, so long as it is told the truth about the JPEG
color space. For example, if you are writing some random 3-component color
space without conversion, don't try to fake out the library by setting
in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.
You may want to write an APPn marker of your own devising to identify
the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using
luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for
jpeg_set_colorsgrassape(), in jccparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.
jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.
This is arguably a bug in Photoshop, but if you need to work with Photoshop
CMYK files, you will have to deal with it in your application. We cannot
"fix" this in the library by inverting the data during the CMYK<=>YCCK
transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK
data in the same inverted-YCCK representation used in bare JPEG files, but
the surrounding PostScript code performs an inversion using the PS image
operator. I am told that Photoshop 3.0 will write uninverted YCCK in
EPS/JPEG files, and will omit the PS-level inversion. (But the data
polarity used in bare JPEG files will not change in 3.0.) In either case,
the JPEG library must not invert the data itself, or else Ghostscript would
read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG
routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior
and to control the treatment of nonfatal warnings and trace/debug messages.
The file example.c illustrates the most common case, which is to have the
application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through
the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating
  the importance of the message; you can control the verbosity of the
  program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by
only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.
Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but
that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte;    /* => next byte to write in buffer */
size_t free_in_buffer;        /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

- **init_destination (j_compress_ptr cinfo)**
  Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

- **empty_output_buffer (j_compress_ptr cinfo)**
  This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

- **term_destination (j_compress_ptr cinfo)**
  Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.
term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```c
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

- **init_source (j_decompress_ptr cinfo)**
  Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

- **fill_input_buffer (j_decompress_ptr cinfo)**
  This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

- **skip_input_data (j_decompress_ptr cinfo, long num_bytes)**
  Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RStn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
-------------

Some applications need to use the JPEG library as an incremental memory-to-
memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.
The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new
byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by
having empty_output_buffer() or fill_input_buffer() set the pointer and count
to reference the next available buffer; FALSE is returned only if no more
buffers are available. Although seemingly straightforward, there is a
pitfall in this approach: the backtrack that occurs when FALSE is returned
could back up into an earlier buffer. For example, when fill_input_buffer()
is called, the current pointer & count indicate the backtrack restart point.
Since fill_input_buffer() will set the pointer and count to refer to a new
buffer, the restart position must be saved somewhere else. Suppose a second
call to fill_input_buffer() occurs in the same library call, and no
additional input data is available, so fill_input_buffer must return FALSE.
If the JPEG library has not moved the pointer/count forward in the current
buffer, then *the correct restart point is the saved position in the prior
buffer*. Prior buffers may be discarded only after the library establishes
a restart point within a later buffer. Similar remarks apply for output into
a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call,
so any skipped data can be permanently discarded. You still have to deal
with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is
called, move any unconsumed data (beyond the current pointer/count) down to
the beginning of this buffer and then load new data into the remaining buffer
space. This approach requires a little more data copying but is far easier
to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of
increasing quality. In situations where a JPEG file is transmitted across a
slow communications link, a decoder can generate a low-quality image very
quickly from the first scan, then gradually improve the displayed quality as
more scans are received. The final image after all scans are complete is
identical to that of a regular (sequential) JPEG file of the same quality
setting. Progressive JPEG files are often slightly smaller than equivalent
sequential JPEG files, but the possibility of incremental display is the main
reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a
suitable "scan script" defining how to divide the data into scans.
Creation of progressive JPEG files is otherwise transparent to the encoder.
Progressive JPEG files can also be read transparently by the decoder library.
If the decoding application simply uses the library as defined above, it
will receive a final decoded image without any indication that the file was
progressive. Of course, this approach does not allow incremental display.
To perform incremental display, an application needs to use the decoder
library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.
Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is:

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```c
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this
purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.
The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower
part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you’ve skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you’ll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (cinfo.input_scan_number == cinfo.output_scan_number)
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don’t want to use special parameters for the final pass, the right loop logic is like this:

```c
do {
    final_pass = jpeg_input_complete(&cinfo);
    if (final_pass)
        break;
    ...
    jpeg_finish_output()
} while (! final_pass);
```

In this case you don’t need to know in advance whether an output pass is to be the last one, so it’s not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().
A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very
limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
  of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image.
  During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below.
  You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.
  When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display.
  The library allows you to change among its three quantization methods:
  1. Single-pass quantization to a fixed color cube.
     Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
  2. Single-pass quantization to an application-supplied colormap.
     Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
  3. Two-pass quantization to a colormap chosen specifically for the image.
     Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
     (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)
  These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:
enable_1pass_quant IEEE fixed color cube colormap
enable_external_quant IEEE externally-supplied colormap
enable_2pass_quantTwo-pass custom colormap
All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following
special rules apply:
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass
   or 2-pass mode from a different mode, or when you want the 2-pass
   quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external
   colormap than was used on the prior pass, you must call
   jpeg_new_colormap() after setting cinfo.colormap.
   NOTE: if you want to use the same colormap as was used in the prior pass,
   you should not do either of these things. This will save some nontrivial
   switchover costs.
   (These requirements exist because cinfo.colormap will always be non-NULL
   after completing a prior output pass, since both the 1-pass and 2-pass
   quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also
important to realize that if the specified target scan number is greater than
or equal to the current input scan number, jpeg_start_output() will attempt
to consume input as it makes this pass. If you use a suspending data source,
you need to check for a FALSE return from jpeg_start_output() under these
conditions. The combination of 2-pass quantization and a not-yet-fully-read
target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it
for all JPEG images, even single-scan ones. This will work, but it is
inefficient: there is no need to create an image-sized coefficient buffer for
single-scan images. Requesting buffered-image mode for such an image wastes
memory. Worse, it can cost time on large images, since the buffered data has
to be swapped out or written to a temporary file. If you are concerned about
maximum performance on baseline JPEG files, you should use buffered-image
mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (i.e., if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
-------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or
all of the tables needed to decode that image.

* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer’s responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization
and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n."

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL * */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr *)&cinfo);
    huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
    for (i = 1; i <= 16; i++) {
        /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
        huff_ptr->bits[i] = counts[i];
    }
    for (i = 0; i < 256; i++) {
        /* symbols[] is the list of Huffman symbols, in code-length order */
        huff_ptr->huffval[i] = symbols[i];
    }
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence...
without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and
Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a
decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call jpeg_save_markers(cinfo, marker_code, length_limit) where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the
effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
---------------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used
in the JPEG file (please read the earlier section on Special color spaces) and
downsampled to the sampling factors specified in the JPEG parameters.
You must supply the data in the format used internally by the JPEG library,
namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional
arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one
color component. This structure is necessary since the components are of
different sizes. If the image dimensions are not a multiple of the MCU size,
you must also pad the data correctly (usually, this is done by replicating
the last column and/or row). The data must be padded to a multiple of a DCT
block in each component: that is, each downsampled row must contain a
multiple of block_size valid samples, and there must be a multiple of
block_size sample rows for each component. (For applications such as
conversion of digital TV images, the standard image size is usually a
multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal
compression, except that you call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do
the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().)
  This notifies the library that you will be supplying raw data.
  Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use
  real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorsapce()
  call is a good idea. Note that since color conversion is bypassed,
  in_color_space is ignored, except that jpeg_set_defaults() uses it to
  choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and
  cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the
dimensions of the data you are supplying, it's wise to set them
explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). The two routines work similarly except that
jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY.
The scanlines count passed to and returned from jpeg_write_raw_data is
measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say
v_samp_factor*block_size sample rows of each component. The passed num_lines
value must be at least max_v_samp_factor*block_size, and the return value
will be exactly that amount (or possibly some multiple of that amount, in
future library versions). This is true even on the last call at the bottom
of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each
component as
cinfo->comp_info[i].width_in_blocks*block_size samples per row
cinfo->comp_info[i].height_in_blocks*block_size rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than block_size samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is

cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2

cinfo->comp_info[1].h_samp_factor = 1 for Cb

cinfo->comp_info[1].v_samp_factor = 1

cinfo->comp_info[2].h_samp_factor = 1 for Cr

cinfo->comp_info[2].v_samp_factor = 1

and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same
for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The
MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16
scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual
sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed,
so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row
of Y data is dummy, so it doesn't matter what you pass for it in the data
arrays, but the scanlines count must total up to 112 so that all of the Cb
and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data
destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing.
You must deal with the color space and sampling factors present in the
incoming file. If your application only handles, say, 2h1v YCbCr data,
you must check for and fail on other color spaces or other sampling factors.
The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to
verify that the color space and sampling factors are ones you can handle.
Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real
downscaled data (it is set TRUE by jpeg_read_header()).
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*block_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------
It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful
completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This framework might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables’ individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)
--------------------------------------------
total_passes
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
-------------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.
The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (e.g., two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending
on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.

2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.

3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.

4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------
A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats...
to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more
information about that.)

Run-time selection and conversion of data precision are currently not
supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a
single instance, since it operates on the level of DCT coefficients and
not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for
compression or decompression in a single application, you could probably do
it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd
have to access the 8-bit and the 9-bit to 12-bit copies from separate
application source files. This is untested ... if you try it, we'd like to
hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision.
If you selected more than 8-bit data precision, cjpeg uses arithmetic coding
by default. The Huffman encoder normally uses entropy optimization to
compute usable tables for higher precision. Otherwise, you'll have to
supply different default Huffman tables. You may also want to supply your
own DCT quantization tables; the existing quality-scaling code has been
developed for 8-bit use, and probably doesn't generate especially good tables
for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined
by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we
expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve
performance or reduce memory space by tweaking the various typedefs in
jmoptions.h. In particular, on some RISC CPUs, access to arrays of "short"s
is quite slow; consider trading memory for speed by making JCOEF, INT16, and
UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.
You probably don't want to make JSAMPLE be int unless you have lots of memory
to burn.

You can reduce the size of the library by compiling out various optional
functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library;
the standard error message table occupies about 5Kb. This is particularly
reasonable for embedded applications where there's no good way to display
a message anyway. To do this, remove the creation of the message table
(jpeg_std_message_table[]) from jerror.c, and alter format_message to do
something reasonable without it. You could output the numeric value of the
message code number, for example. If you do this, you can also save a couple
more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing;
you don't need trace capability anyway, right?
Portability considerations

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

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that:

- `char` is at least 8 bits wide
- `short` is at least 16 bits wide
- `int` is at least 16 bits wide
- `long` is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if `char` is much larger than 8 bits or `short` is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if `int` is less than 16 bits wide, since references to plain `int` abound in the code.

- `char` can be either signed or unsigned, although the code runs faster if an unsigned `char` type is available. If `char` is wider than 8 bits, you will need to redefine `JOCTET` and/or provide custom data source/destination managers so that `JOCTET` represents exactly 8 bits of data on external storage.

- The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's `select_file_type()` routine.

- The JPEG library does not rely heavily on the C library. In particular, C `stdio` is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on `stdio`.) `malloc` and `free` are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15
characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORTEXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table).

Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.
/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/rdcolmap.c

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdarith.c

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

/
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/wrbmp.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/wrppm.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

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

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

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

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

`./configure`  
`make`  
`make test`  
If that doesn't complain, do  
`make install`  
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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

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

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

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

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

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

If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files. If you're using "csh" on an old version of System V, you might need to type
sh configure
instead to prevent csh from trying to execute configure itself. Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

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

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc. To force a particular compiler to be selected, use the CC option, for example
./configure CC='cc'
The same method can be used to include any unusual compiler switches. For example, on HP-UX you probably want to say
./configure CC='cc -Aa'
to get HP's compiler to run in ANSI mode.
* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc. You can override this by saying, for example, `./configure CFLAGS='--O2'` if you want to compile without debugging support.

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

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

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

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

If you have one of these systems, you can just use the provided configuration files:

Makefile	jconfig file	System and/or compiler
makefile.manx	jconfig.manx	Amiga, Manx Aztec C
makefile.sas	jconfig.sas	Amiga, SAS C
makeproj.macc
tjconfig.mac Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st	jconfig.st	Atari ST/STE/TT, Pure C or Turbo C
makefile.bccconfig.bccMS-DOS or OS/2, Borland C
makefile.dj	jconfig.dj	MS-DOS, DJGPP (Delorie's port of GNU C)
makfile.mc6j	jconfig.mc6MS-DOS, Microsoft C (16-bit only)
makfile.batconfig.batMS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc6config.vc6Windows, MS Visual C++
makfile.vs	jconfig.vs	MS Visual C++ 6 Developer Studio
mak*vc6
makefile.vs	jconfig.vs	Windows, Visual Studio 2017 (v15)
mak*vc15
makefile.b32	jconfig.vc Borland C++ 32-bit (bcc32)
makfile.mms	jconfig.mmsDigital VMS, with MMS software
makefile.vms	jconfig.vmsDigital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see
the appropriate system-specific hints section near the end of this file.

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

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

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

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

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

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

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

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

Here are comments about some specific configuration decisions you'll need to make:
Command line style
------------------

These programs can use a Unix-like command line style which supports
redirection and piping, like this:
cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile
The simpler "two file" command line style is just
cjpeg inputfile outputfile
You may prefer the two-file style, particularly if you don't have pipes.

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

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

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

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

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

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

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

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

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

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

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

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

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

Here are some things that could go wrong:

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

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.
There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

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

Also see the system-specific hints, below.

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

As a quick test of functionality we've included a small sample image in several forms:
- testorig.jpg Starting point for the djpeg tests.
- testimg.ppm The output of djpeg testorig.jpg
- testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
- testimg.jpg The output of cjjpeg testimg.ppm
- testprog.jpg Progressive-mode equivalent of testorig.jpg.
- testimgp.jpg The output of cjjpeg -progressive -optimize testimg.ppm

(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

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

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

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

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

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

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

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

INSTALLING THE SOFTWARE

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

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

OPTIONAL STUFF
Progress monitor:

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

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won’t compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:

1. `#define RLE_SUPPORTED` in jconfig.h.
2. Add an `-I` option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add `-L... -lrle` to LDLIBS in the Makefile, where `...` specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

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

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:

1. In jmorecfg.h, define `BITS_IN_JSAMPLE` as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, `#define BMP_SUPPORTED`, `#define RLE_SUPPORTED`, and `#define TARGA_SUPPORTED`, because the code for those formats doesn’t handle deeper than 8-bit data and won’t even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don’t expect "make test" to pass, since the supplied test files are for 8-bit data.

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

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

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

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

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

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

Removing code:

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

OPTIMIZATION

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

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

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

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

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

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

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

Acorn RISC OS:

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

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

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

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

Amiga:

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

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

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

"#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

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

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

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

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

Cray:

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

"#pragma novector" just before the loop

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

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).
[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]
If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say
`./configure CC='cc -Aa'
(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add
"-Aa" to the CFLAGS line in the makefile.

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

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

**Macintosh, generic comments:**

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ecommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.


2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C.

   Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

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

   NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

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

Macintosh, Metrowerks CodeWarrior:

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

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

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

Macintosh, Think C:

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

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

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.
jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

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

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

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

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

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

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

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

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

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

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

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

MS-DOS, Borland C:

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

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

MS-DOS, Microsoft C:

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

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.mc6 already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)
Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(@FILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

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

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

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

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:
/* Define "boolean" as unsigned char, not enum, per Windows custom */
 ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
 typedef unsigned char boolean;
 endif
 ifndef FALSE /* in case these macros already exist */
 define FALSE0/* values of boolean */
 endif
 ifndef TRUE
 define TRUE1
 endif
 define HAVE_BOOLEAN/* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in jmorecfg.h. (Something like this is already in jmorecfg.h, by the way.)

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

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

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

fprintf(stderr, "\n", buffer);

with

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

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

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

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

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

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

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.
You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

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

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

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

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

```c
#define GLOBAL(type)		type _far _pascal _loadas _export
#define EXTERN(type)		extern type _far _pascal _loadas
#define METHODDEF(type)		static type _far _pascal
#define JMETHOD(type,methodname,arglist)  \
  type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```c
#define GLOBAL(type)__declspec(dllexport) type
#define EXTERN(type)__declspec(dllexport) type
```

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

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?
The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmennobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
}
Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:
-Ot -Og
-Ot -Op
-Ot -Om
So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

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

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

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

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

Microsoft Windows, Visual Studio 2017 (v15):

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

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

OS/2, Borland C++:

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

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying

`./configure RANLIB='ar -ts'

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

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

VMS:

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/install.txt

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcomapi.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

Found in path(s):

```
$ /opt/cola/permits/1126777588-1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jidctfst.c
```

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

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

Found in path(s):
  */opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/djpeg.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
  */opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdcoeft.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
  */opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jccoefct.c
No license file was found, but licenses were detected in source scan.
/**
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcinit.c
No license file was found, but licenses were detected in source scan.

/**
 * jmemansi.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a simple generic implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that you have the ANSI-standard library routine tmpfile().
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jmemansi.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

/ *
* jmemname.c
* 
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.

/ *
* jdsample.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains upsampling routines.
* 
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
* 
* An excellent reference for image resampling is
*/
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 3414

Found in path(s):
* /opt/cola/permits/1126775588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdsample.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126775588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/cdjpeg.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126775588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jctrans.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcmmaster.c
No license file was found, but licenses were detected in source scan.

*/

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

Contributed by Sam Bushell (jsam@iagu.on.net) and Dan Gildor (gyld@in-touch.com).

Contributed by Sam Bushell (jsam@iagu.on.net) and Dan Gildor (gyld@in-touch.com).

*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jmemmac.c
No license file was found, but licenses were detected in source scan.

*/

* rdtarga.c

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/rdtarga.c
No license file was found, but licenses were detected in source scan.

*/

* jaricom.c

* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in arithmetic entropy encoding and decoding routines.
*
* This data represents Table D.3 in the JPEG spec (D.2 in the draft).
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jaricom.c
No license file was found, but licenses were detected in source scan.

=*/
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* /
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/cderror.h
No license file was found, but licenses were detected in source scan.

=*/
* jcprepct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* /
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
* /
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcprepct.c
No license file was found, but licenses were detected in source scan.
* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/112677588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 */

* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctint.c
 */

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

Found in path(s):
/opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jidctint.c

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

/*
* jdapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half of the JPEG library. These are the "standard" API routines that are used in the normal full-decompression case. They are not used by a transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdapistd.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/rdrle.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/cdjpeg.h

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

IJG JPEG LIBRARY: FILE LIST

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

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

THE JPEG LIBRARY

Include files:

ejpeglib.hJPEG library's exported data and function declarations.
jconfig.hConfiguration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.hAdditional configuration declarations; need not be changed for a standard installation.
jerror.hDeclares JPEG library's error and trace message codes.
jinclude.hCentral include file used by all IJG .c files to reference system include files.
ejpegint.hJPEG library's internal data structures.
jdct.hPrivate declarations for forward & reverse DCT subsystems.
Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

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

jcapi.min.c Application program interface: core routines for compression.
jcapistd.c Application program interface: standard compression.
jdapi.min.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jparam.c Compression parameter setting helper routines.
jtrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jemaster.c Master control: setup and inter-pass sequencing logic.
jmainct.c Main buffer controller (preprocessor => JPEG compressor).
jprepcnt.c Preprocessor buffer controller.
jcoeft.c Buffer controller for DCT coefficient buffer.
jccolor.c Color space conversion.
jsample.c Downsampling.
jdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jhuff.c Huffman entropy coding.
jarith.c Arithmetic entropy coding.
jmarker.c JPEG marker writing.
datadst.c Data destination managers for memory and stdio output.

Decompression side of the library:
jdmaster.c Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
darith.c Arithmetic entropy decoding.
ddctmgr.c IDCT manager (IDCT implementation selection & control).
didctint.c Inverse DCT using slow-but-accurate integer method.
didctfst.c Inverse DCT using faster, less accurate integer method.
didctflt.c Inverse DCT using floating-point arithmetic.
dsampling.c Upsampling.
dcolor.c Color space conversion.
dmerge.c Merged upsampling/color conversion (faster, lower quality).
jqquant1.c One-pass color quantization using a fixed-spacing colormap.
jqquant2.c Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
datasrc.c Data source managers for memory and stdin input.

Support files for both compression and decompression:

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

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

jemnobs.c "No backing store": assumes adequate virtual memory exists.
jemansi.c Makes temporary files with ANSI-standard routine tmpfile().
jemname.c Makes temporary files with program-generated file names.
jemdos.c Custom implementation for MS-DOS (16-bit environment only):
can use extended and expanded memory as well as temp files.
jemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jemdos.asm 80x86 assembly code support for jemdos.c; used only in
MS-DOS-specific configurations of the JPEG library.

**CJPEG/DJPEG/JPEGTRAN**

Include files:

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

C source code files:

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

Image file reader modules for cjpeg:

- rdbmp.c: BMP file input.
- rdgif.c: GIF file input (now just a stub).
- rdppm.c: PPM/PGM file input.
- rdrle.c: Utah RLE file input.
- rdtarga.c: Targa file input.

Image file writer modules for djpeg:

- wrbmp.c: BMP file output.
- wrgif.c: GIF file output (a mere shadow of its former self).
- wrppm.c: PPM/PGM file output.
- wrrle.c: Utah RLE file output.
- wrtarga.c: Targa file output.

**RDJPGCOM/WRJPGCOM**

C source code files:

- rdjpgcom.c: Stand-alone rdjpgcom application.
- wrjpgcom.c: Stand-alone wrjpgcom application.
These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
================

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

READMEMaster documentation file.
*.txtOther documentation files.
*.1Documentation in Unix man page format.
change.logVersion-to-version change highlights.
example.cSample code for calling JPEG library.

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

configureUnix shell script to perform automatic configuration.
cconfigure.acSource file for use with Autoconf to generate configure.
ltmain.shSupport scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
ar-lib
compile
install-shInstall shell script for those Unix systems lacking one.
Makefile.inMakefile input for configure.
Makefile.amSource file for use with Automake to generate Makefile.in.
cckconfig.cProgram to generate jconfig.h on non-Unix systems.
jconfig.txtTemplate for making jconfig.h by hand.
mak/*Sample makefiles for particular systems.
jconfig.*Sample jconfig.h for particular systems.
libjpeg.mapScript to generate shared library with versioned symbols.
libjpeg.pc.inlibjpeg.pc pkg-config file input for configure.
aclocal.m4M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test/*Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/filelist.txt
No license file was found, but licenses were detected in source scan.

/*
* jerror.c
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jerror.c

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jmemdosa.asm

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdatasrc.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcarith.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/wrtarga.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
*
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
*
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jfdctint.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcmarker.c
No license file was found, but licenses were detected in source scan.

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

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

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

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
#define void char *

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

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

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

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

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

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

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

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

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

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#ifdef _WIN32
# ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#endif /* defined FALSE */ in case these macros already exist */
#define FALSE0/* values of boolean */
/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

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

#ifdef JPEG_CJPEG_DJPEG

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

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

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

# undef TWO_FILE_COMMANDLINE

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

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

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

#endif /* JPEG_CJPEGS_DJPEG */

Found in path(s):
* /opt/cola/permits/112677588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdin stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */
/* Portions of this code are based on the PBMPPLUS library, which is:
 **
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.h
*
* Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/transupp.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdhuff.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdct.h
No license file was found, but licenses were detected in source scan.
/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
 * /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

Found in path(s):
 * /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 */
NOTE: to avoid entanglements with Unisys' patent on LZW compression, the ability to read GIF files has been removed from the IJG distribution. Sorry about that.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

Found in path(s):
/opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/rdgif.c
No license file was found, but licenses were detected in source scan.

jfdctflt.c

Copyright (C) 1994-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.
This file contains a floating-point implementation of the
forward DCT (Discrete Cosine Transform).
This implementation should be more accurate than either of the integer
DCT implementations. However, it may not give the same results on all
machines because of differences in roundoff behavior. Speed will depend
on the hardware's floating point capacity.
A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
on each column. Direct algorithms are also available, but they are
much more complex and seem not to be any faster when reduced to code.
This implementation is based on Arai, Agui, and Nakajima's algorithm for
scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
Japanese, but the algorithm is described in the Pennebaker & Mitchell
JPEG textbook (see REFERENCES section in file README). The following code
is based directly on figure 4-8 in P&M.
While an 8-point DCT cannot be done in less than 11 multiplies, it is
possible to arrange the computation so that many of the multiplies are
simple scalings of the final outputs. These multiplies can then be
folded into the multiplications or divisions by the JPEG quantization
table entries. The AA&N method leaves only 5 multiplies and 29 adds
to be done in the DCT itself.
The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.620/jpegsrc-v9c-1-tar-gz/jpeg-9c/jfdctflt.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.620/jpegsrc-v9c-1-tar-gz/jpeg-9c/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.620/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
* cjpeg.c

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/ljpegsrc-v9c-1-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/ljpegsrc-v9c-1-tar-gz/jpeg-9c/jversion.h
No license file was found, but licenses were detected in source scan.

/*
* transupp.c
*
* Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains image transformation routines and other utility code used by the jpegtran sample application. These are NOT part of the core JPEG library. But we keep these routines separate from jpegtran.c to ease the task of maintaining jpegtran-like programs that have other user interfaces.

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/transupp.c
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color quantization/reduction steps; specifically, it controls the buffering between upsample/color conversion and color quantization/reduction.
 * If no color quantization/reduction is required, then this module has no work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module entirely.
 */

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains routines to write output images in GIF format.
 */

************************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.    *
************************************************************************************
* There is no trace of the LZW algorithm in this file.                      *
**************************************************************************
* These routines may need modification for non-Unix environments or      *
* specialized applications. As they stand, they assume output to       *
* an ordinary stdout stream.                                           */

/* This code is loosely based on ppmtogif from the PBMPLUS distribution 
* of Feb. 1991. That file contains the following copyright notice: 
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.    
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.                                
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* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.                                                   *
* We are also required to state that                                   
* "The Graphics Interchange Format(c) is the Copyright property of     
* CompuServe Incorporated. GIF(sm) is a Service Mark property of       
* CompuServe Incorporated."                                            */

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/wrgif.c
No license file was found, but licenses were detected in source scan.

/* 
* jdmerge.c
* 
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains code for merged upsampling/color conversion.
* 
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
* 
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* \[ R = Y + K1 \times Cr \]
\[ G = Y + K_2 \cdot C_b + K_3 \cdot C_r \]
\[ B = Y + K_4 \cdot C_b \]
* only the \( Y \) term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* \( \text{YCC} \rightarrow \text{RGB} \) color conversion only (\( \text{YCbCr} \) or \( \text{BG_YCC} \)).
* Sampling ratios of \( 2h1v \) or \( 2h2v \).
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdmerge.c

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

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

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/rdswitch.c

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

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jdtrans.c

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

/ *
* jmorecfg.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1126777588_1615454586.62/0/jpegsrc-v9c-1-tar-gz/jpeg-9c/jmorecfg.h

1.352 libx11 1.6.8-4.el8
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gdal/ogr/ogrsf_frmts/dxf/intronurbs.cpp
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This code is derived from the code associated with the book "An Introduction to NURBS" by David F. Rogers. More information on the book and the code is available at:

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http://www.nar-associates.com/nurbs/
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gdal/alg/thinplatespline.cpp

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IEEE754 log() code derived from:
@(#)e_log.c 1.3 95/01/18

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sgdal/alg/libqhull

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and

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gdal/frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())

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gdal/frmts/mrf/* (apply when MRF driver included in build)

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

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

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1.361 generex 1.0.2
1.361.1 Available under license:
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<name>MIFRAH Youssef</name>
<email>mifmif.com@gmail.com</email>
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Found in path(s):
*/opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/META-
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 */

Found in path(s):
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-
  jar/com/mifmif/common/regex/GenerexIterator.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-
  jar/com/mifmif/common/regex/Generex.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-
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  jar/com/mifmif/common/regex/util/Iterable.java

1.362 postgresql 42.2.12

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Other developers who have contributed code are:

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1.369 pg-types 2.2.0

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# pg-types

This is the code that turns all the raw text from postgres into JavaScript types for [node-postgres](https://github.com/brianc/node-postgres.git)
## use

This module is consumed and exported from the root `pg` object of node-postgres. To access it, do the following:

```
```js
var types = require('pg').types
```

Generally what you'll want to do is override how a specific data-type is parsed and turned into a JavaScript type. By default the PostgreSQL backend server returns everything as strings. Every data type corresponds to a unique `OID` within the server, and these `OIDS` are sent back with the query response. So, you need to match a particular `OID` to a function you'd like to use to take the raw text input and produce a valid JavaScript object as a result. `null` values are never parsed.

Let's do something I commonly like to do on projects: return 64-bit integers `(int8)` as JavaScript integers. Because JavaScript doesn't have support for 64-bit integers node-postgres cannot confidently parse `int8` data type results as numbers because if you have a _huge_ number it will overflow and the result you'd get back from node-postgres would not be the result in the database. That would be a __very bad thing__ so node-postgres just returns `int8` results as strings and leaves the parsing up to you. Let's say that you know you don't and won't ever have numbers greater than `int4` in your database, but you're tired of receiving results from the `COUNT(*)` function as strings (because that function returns `int8`). You would do this:

```
```js
var types = require('pg').types
types.setTypeParser(20, function(val) {
    return parseInt(val)
})
```

__boom__: now you get numbers instead of strings.

Just as another example -- not saying this is a good idea -- let's say you want to return all dates from your database as [moment](http://momentjs.com/docs/) objects. Okay, do this:

```
```js
var types = require('pg').types
var moment = require('moment')
var parseFn = function(val) {
    return val === null ? null : moment(val)
}
var moment = require('moment')
var types = require('pg').types
types.setTypeParser(types.builtins.TIMESTAMP, parseFn)
types.setTypeParser(types.builtins.TIMESTAMPTZ, parseFn)
```

__note: I've never done that with my dates, and I'm not 100% sure moment can parse all the date strings returned from postgres. It's just an example!__

If you're thinking "gee, this seems pretty handy, but how can I get a list of all the OIDs in the database and what
they correspond to?!?!?!" worry not:

```bash
$ psql -c "select typname, oid, typarray from pg_type order by oid"
```

If you want to find out the OID of a specific type:

```bash
$ psql -c "select typname, oid, typarray from pg_type where typname = 'daterange' order by oid"
```

:smile:

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1.370 geronimo-annotation 1.0

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1.371 json-parse 1.3.1

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1.376 tar 1.34+dfsg-1

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### 1.377 @babel/plugin-transform-modules-commonjs 7.18.6

#### 1.377.1 Available under license :

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### 1.378 wso2am 2.6.0-1

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```java
import java.lang.String;
import java.lang.StringBuilder;
import java.util.ArrayList;
import javax.xml.namespace.QName;
import org.apache.axiom.om.OMDataSource;
import org.apache.axiom.om.OMFactory;
import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.OMSourcedElement;
import org.apache.axiom.om.OMNamespace;
import org.apache.axis2.databinding.ADBException;
import org.apache.axis2.databinding.utils.BeanUtil;
import org.apache.axis2.databinding.utils.ConverterUtil;
import org.apache.axis2.databinding.utils.NamespaceContext;
import org.apache.axis2.databinding.utils.reader.ADBXMLStreamReaderImpl;
import org.apache.axis2.databinding.utils.reader.StubProxyXmlStreamReader;
import org.apache.axis2.databinding.utils.reader.StubProxyXmlStreamWriter;
import org.apache.axis2.databinding.utils.writer.OM serializers;
import org.apache.axiom.om.OMElementFactory;
import org.apache.axiom.om.OMFactory;
import org.apache.axiom.om.OMNamespace;
import org.apache.axis2.dataroundtrip.mapper.MediaType;
import org.apache.axiom.om.OMFactory;
import org.apache.axiom.om.OMElement;
import org.apache.axiom.om.OMSourcedElement;
import org.apache.axis2.dataroundtrip.mapper.MediaType;
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import org.apache.axiom.om.OMFactory;
import org.apache.axis2.dataroundtrip.mapper.MediaType;
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import org.apache.axis2.dataroundtrip.mapper.MediaType;
import org.apache.axion1.7.7 - Merck Connected Pharma

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23456789::ADDI
ConstantValue READREMOVELISTEN2ALL?<init>((Ljava/lang/String;)Ljava/lang/String;)V CodeLineNumberTable
LocalVariableTable this 3L com/hazelcast/security/permission/QueuePermission; name Ljava/lang/String; actions [Ljava/lang/String; initMask (Ljava/lang/String;) I action arr $len $i $mask
StackMapTable:"<
SourceFile QueuePermission.java all <= create destroy add read remove listen 1 com/hazelcast/security/permission/QueuePermission 4 com/hazelcast/security/permission/InstancePermission java/lang/String equals (Ljava/lang/Object;) Z!

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Streamprintln(Ljava/lang/String;)V
append-(Ljava/lang/String;):Ljava/lang/StringBuilder;getProperty&(Ljava/lang/String;):Ljava/lang/String;toString()Ljava/lang/String;

"Y
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2

<init>()VCodeLineNumberTableLocalVariableTablethisInnerClassesTLorg/wso2/carbon/core/internal/permission/update/PermissionUpdateServiceComponent$1;run
SourceFile%PermissionUpdateServiceComponent.javaEnclosingMethodRorg/wso2/carbon/core/internal/permission/update/PermissionUpdateServiceComponent$1java/lang/ThreadPorg/wso2/carbon/core/internal/permission/update/PermissionUpdateServiceComponent
access$0001()Ljava/util/concurrent/ScheduledExecutorService;-
java/util/concurrent/ScheduledExecutorServiceshutdownNow()Ljava/util/List;0/*
8
W
78
0equalsgetBodygetLocationgetUUIDjava/lang/Object(org/eclipse/equinox/p2/metadata/ILicense(Ljava/lang/Object;
)Z)Ljava/lang/String;tLjava/net/URI;
ILicense.java
SourceFile

2

,
InnerClasses

LOG

org/apache/commons/logging/Log

FACTORY

Lorg/apache/hadoop/io/WritableFactory;

useraction*Lorg/apache/hadoop/fs/permission/FsAction;groupactionotheractionDEPRECATED_UMASK_LABEL

Ljava/lang/String;

ConstantValue

UMASK_LABEL

DEFAULT_UMASK

Immutable1(S)Lorg/apache/hadoop/fs/permission/FsPermission;

CodeLineNumberTable

LocalVariableTable

permissionS

<init>()V

this.Lorg/apache/hadoop/fs/permission/FsPermission;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsPermission;Lorg/apache/hadoop/fs/permission/FsPermission;Lorg/apache/hadoop/fs/permission/FsPermission;Lorg/apache/hadoop/fs/permission/FsPermission;getOtherActionL

getUserAction;L

getGroupActiongetOtherActionset

fromShortnv+L

getUserAction,()Lorg/apache/hadoop/fs/permission/FsAction;getGroupActiongetOtherActionset

Exceptions

readFields(Ljava/io/DataInput;);V

getUserAction;L

getUserAction,()V

applyUMask^(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;u

maskgetUMaskV

confUmask

oldStyleValueconf&Lorg/apache/hadoop/conf/Configuration;setUMaskW(Lorg/apache/hadoop/fs/permission/FsPermission;)V

getDefault0();Lorg/apache/hadoop/fs/permission/FsPermission;valueOfB(Ljava/lang/String;);Lorg/apache/hadoop/fs/permission/FsPermission;CIunixSymbolicPermission3(Lorg/apache/hadoop/fs/permission/FsPermission$1;)Vx00L

org/apache/hadoop/fs/permission/FsPermission$1;<clinit>

SourceFile

FsPermission.java

OP

org/apache/hadoop/fs/permission/FsPermission$2OW=>?>SaW+org/apache/hadoop/fs/permission/UmaskParserO[srss.org/apache/hadoop/fs/permission/FsPermissionk1]java/lang/StringBuilderB

~]OSdfs.umask9:rdfs.umask configuration key is deprecated. Convert to dfs.umaskmode, using octal or symbolic umask specifications.

dfs.umaskmode%1$03ojava/lang/Object`}{java/lang/IllegalArgumentException$length !=10(java/lang/IllegalArgumentException=).org/apache/hadoop/fs/permission/FsPermission$1;<org/apache/hadoop/io/Writablejava/io/IOExceptionjava/lang/String(org/apache/hadoop/fs/permission/FsActionvalues-()Lorg/apache/hadoop/fs/permission/FsAction;java/io/DataOutput

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 3591
SourceFileSemaphorePermission.java all89: create acquire release destroy read 5 com/hazelcast/security/permission/SemaphorePermission4 com/hazelcast/security/permission/InstancePermission java/lang/String equals (Ljava/lang/Object;) Z!

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* jqplotToImage function based on Larry Siden's export(jqplot-to-png.js.
* Larry has generously given permission to adapt his code for inclusion
* into jqPlot.
* 
* Larry's original code can be found here:
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* https://github.com/lsiden/export-jqplot-to-png
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-->
<%@ page import="org.apache.axis2.context.ConfigurationContext" %>
<%@ page import="org.wso2.carbon.CarbonConstants" %>
//TODO null check
String backendServerURL = CarbonUIUtil.getServerURL(config.getServletContext(), session);
ConfigurationContext configContext =
(ConfigurationContext)
cfg.getServletContext().getAttribute(CarbonConstants.CONFIGURATION_CONTEXT);
String cookie = (String) session.getAttribute(ServerConstants.ADMIN_SERVICE_COOKIE); ProvisioningAdminClient provAdminClient;

LicenseInfo[] licenses;

try {
    provAdminClient = new ProvisioningAdminClient(cookie, backendServerURL, configContext, request.getLocale());
    licenses = provAdminClient.getLicensingInformation();
} catch (Exception e) {
    <p id="compMgtErrorMsg"><%=e.getMessage()%></p>
    return;
}

<fmt:bundle basename="org.wso2.carbon.feature.mgt.ui.i18n.Resources">
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</tr>
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<tbody>
<tr>
<td><font color="#707277"><i><fmt:message key="licence.agreements.description"></i></font></td>
</tr>
<%if(licenses != null) {
    for(LicenseInfo license: licenses){
        <tr><td><font color="#707277"><i><fmt:message key="licence.agreements.description"></i></font></td><tr>
    </tr>
}</%>
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**ConstantValue!**

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/*7

**PNG**

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copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
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e) Convey the object code using peer-to-peer transmission, provided
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"+
...
"0123LOCKI
ConstantValue.READALL.<init>:(Ljava/lang/String;)[Ljava/lang/String;)VCodeLineTable:LocalVariableTable:
this2:Ljava/lang/String
permissionLockPermission.<init>:(Ljava/lang/String;Ljava/lang/String;)VgetDescription():Ljava/lang/String
setPermission(Ljava/lang/String;)Z
isDefault(Z)Vvalue()Z
```

```
1*+
3o=+N-66^-2:
=4
=#
==: !"#&%'()\*+,-./0123LOCKI
permissionLjava/lang/String:description
isDefaultZ.<init>:(Ljava/lang/String;)[Ljava/lang/String;)VCodeLineTable:LocalVariableTable:
this5:org/apache/cxf/rs/security/oauth2/common/Permission;
(Ljava/lang/String;Ljava/lang/String;)VgetDescription():Ljava/lang/String
setPermission(Ljava/lang/String;Ljava/lang/String;)Z
setValue()Z
SourceFilePermission.java
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```
3org/apache/cxf/rs/security/oauth2/common/Permission.java/lang/Object!
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CodeLineNumberTable
LocalVariableTable
this6Lcom/hazelcast/security/permission/MultiMapPermission;
nameLjava/lang/String;actions[Ljava/lang/String;
SourceFileMultiMapPermission.java4com/hazelcast/security/permission/MultiMapPermission/com/hazelcast/security/permission/MapPermission;I*+

2.#
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'()*AllPermissionsCollectionInnerClasses
<init>()V
CodeLineNumberTable
LocalVariableTable
this2Lcom/hazelcast/security/permission/AllPermissions;
implies(Ljava/security/Permission;)Z
permissionLjava/security/Permission;
getActions(Ljava/lang/String;'newPermissionCollection&()Ljava/security/PermissionCollection;
toStringequals(Ljava/lang/Object;)ZobjLjava/lang/Object;hashCode()I
SourceFileAllPermissions.java<all permissions>>+<all actions>
Icom/hazelcast/security/permission/AllPermissions$AllPermissionsCollection
<allow all
permissions>Ucom/hazelcast/security/permission/AllPermissions3com/hazelcast/security/permission/ClusterPermission(Ljava/lang/String;)V
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<tr>
<td>wso2-uri-templates_1.6.5.jar</td>
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<tr>
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<tr>
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</tr>
<tr>
<td>xmlbeans-2.3.0.jar</td>
<td>jarinbundle</td>
<td>apache2</td>
<td><a href="http://www.opensource.org/licenses/apache2-2010.html">http://www.opensource.org/licenses/apache2-2010.html</a></td>
</tr>
<tr>
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<td>apache2</td>
<td><a href="http://www.opensource.org/licenses/apache2-2010.html">http://www.opensource.org/licenses/apache2-2010.html</a></td>
</tr>
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<td>xmlschema-core-2.0.3.jar</td>
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<td><a href="http://www.opensource.org/licenses/apache2-2010.html">http://www.opensource.org/licenses/apache2-2010.html</a></td>
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</tr>
<tr>
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</tr>
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<td>xmltooling-1.3.1.jar</td>
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</tbody>
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1.379 guava 29.0-jre

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/ImmutableMultiset.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/ImmutableMapKeySet.java
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  jar/com/google/common/collection/ImmutableEntry.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/Tables.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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  jar/com/google/common/collection/Table.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/TreeBasedTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/UnmodifiableIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/ImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/RegularImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/RegularImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/StandardRowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/ImmutableMapValues.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/CollectPreconditions.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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 jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
 jar/com/google/common/hash/AbstractHashFunction.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
 jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
 jar/com/google/common/util/concurrent/ForwardingCondition.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/math/Quantiles.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/eventbus/Dispatcher.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/eventbus/Subscriber.java
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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
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 */

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/*!*/
/**
* Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular
* version.
*/

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* the License.
*/
/**
* Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
* {code GwtIncompatible}. This is more accurate for {link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {code GwtIncompatible} annotation. And for {code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/Platform.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/hash/MacHashFunction.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/AggregateFutureState.java
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  jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/io/ReaderInputStream.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/InterruptibleTask.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/TransformedIterator.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/CompactHashMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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  jar/com/google/common/collection/Interners.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Functions.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/io/CountingInputStream.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Predicates.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/io/CharStreams.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Suppliers.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Supplier.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/primitives/Primitives.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/eventbus/EventBus.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Defaults.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/io/MultiInputStream.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/HashBiMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Throwables.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 *     ImmutableSortedMap#of(Comparable, Object)).</b>
 */

Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/coll/ImmutableMapEntry.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/MoreFiles.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/coll/SortedMapDifference.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/coll/ForwardingSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/coll/RowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/coll/UnmodifiableListIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/coll/ForwardingImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
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* the License.
* /
/**
* Holder for web specializations of methods of {code Ints}. Intended to be empty for regular
* version.
* /

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* /
/**
* Holder for web specializations of methods of {code Floats}. Intended to be empty for regular
* version.
* /

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    jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/reflect/TypeToken.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/annotations/VisibleForTesting.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/ImmediateFuture.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/base/CaseFormat.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/TimeoutFuture.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/FakeTimeLimiter.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/io/AppendableWriter.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/escape/CharEscaperBuilder.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/AggregateFuture.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/io/PatternFilenameFilter.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/FuturesGetChecked.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/TimeLimiter.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/escape/CharEscaper.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/FluentFuture.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/Futures.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
    jar/com/google/common/util/concurrent/CollectionFuture.java
  * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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jar/com/google/common/io/FileWriteMode.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/reflect/Invokable.java
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jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/cache/LongAddable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/reflect/TypeToInstanceMap.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/io/CharSource.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/hash/SipHashFunction.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/reflect/ClassPath.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/io/CharSink.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/reflect/Element.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/reflect/TypeCapture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/cache/LongAddables.java

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  jar/com/google/common/collab/ForwardingSortedMultiset.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws/local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws/local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws/local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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javacom/google/common/collect/JdkBackedImmutableMultiset.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/AbstractMultiset.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/AbstractMapBasedMultiset.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/ByFunctionOrdering.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/Iterables.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/HashMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/ReverseNaturalOrdering.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/ForwardingMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/ForwardingListIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/LinkedListMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/ArrayListMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/ForwardingMultiset.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/JdkBackedImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/IndexedImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/BaseImmutableMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/JdkBackedImmutableMap.java

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jar/com/google/common/collection/ImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ImmutableAsList.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/DiscreteDomain.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/SingletonImmutableList.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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 * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collection/ComputationException.java
 * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
 * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collection/ArrayTable.java
 * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collection/ComparisonChain.java
 * /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collection/AbstractIndexedListIterator.java
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*/

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/LongAdder.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/Striped64.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/LongAdder.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/graph/BaseGraph.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/graph/Traverser.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/base/CommonPattern.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/base/PatternCompiler.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/base/CommonMatcher.java

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 */
/**
 * Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
 * version.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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 */

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODONE(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/ObjectArrays.java

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* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/javaj/activation/MimeType.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/javax/activation/DataSource.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/com/sun/activation/viewers/ImageViewer.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/javaj/activation/MimeTypeParseException.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/javaj/activation/UnsupportedDataTypeException.java
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@(#)package.html 1.2 07/05/14

-->  

Found in path(s):
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/package.html

1.383 libjpeg-turbo 1.5.3 10.el8

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1.384 x11proto-xext 7.3.0-1

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1.385 readable-stream 2.3.6

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

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

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Sockets
-------

The `socket` module uses the functions `getaddrinfo` and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

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

Asynchronous socket services
-----------------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard

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import: ../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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/*

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fields:
  site: string
  author: root

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

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

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

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

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1.407 @webex/plugin-webhooks 1.80.69

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1.416 glob 7.2.3

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1.421 jackson-dataformat-smile 2.3.1

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1.424 json-schema-traverse 0.4.1

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1.425 jest-source-map 24.9.0

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1.426 apicurio-registry-utils-kafka 1.3.2.Final

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1.431 keygrip 1.1.0

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1.432 @jridgewell/set-array 1.1.1

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1.434 commons-digester 1.6

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  jar/org/apache/commons/digester/substitution/VariableAttributes.java
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jar/org/apache/commons/digester/Rules.java
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jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltMethod.java
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  jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java
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1.435 e2fsprogs 1.44.5-1+deb10u2

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Index: tdbsa/tdb.c

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

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

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Ty Coon, President of Vice

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

From the original distribution:

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDBLIB_VERSION = 1.0
# BSDBLIB_IMAGE = libce
# BSDBLIB_MYDIR = et
# BSDBLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

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

BSD_LIB = $(BSDBLIB_IMAGE).so.$(BSDBLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

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

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDBLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDBLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LD_CONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$($(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

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

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Gadi Oxman, August 1995

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1.436 pam 1.3.1 11.el8

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

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

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

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package types

import "time"

// FeatureType store features types
type FeatureType string

const (
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
    DEV = FeatureType("DEV")
    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID string `json:"arrayUUID,omitempty"
    ClusterID string `json:"clusterID,omitemempty"
    CustomerID string `json:"customerID"
    CustomerName string `json:"customerName"
    Storage int `json:"storage"
    ValidUntil time.Time `json:"validUntil"
    LicenceType string `json:"licenceType"
    Features map[FeatureType]bool `json:"features"
    Unregistered bool `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
    Key string `json:"key"
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"`  
  URL  string `json:"url,omitempty"`
}

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Protocol Buffers for Go with Gadgets

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

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin string
    Option string
    Severity string // 'deprecated', 'removed', or 'unsupported'
func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
    the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present
    in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

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**Provision feedback at the [survey](https://www.surveymonkey.com/r/JH35X82)**

- Copy files to and from Containers in a cluster

---

**Copying Container Files**

**Motivation**

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

* Tar requires that *tar* be installed in the container image.

**Local to Remote**

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

---

{% panel style="success", title="Providing Feedback" %}

**Provide feedback at the [survey](https://www.surveymonkey.com/r/JH35X82)**

{% endpanel %}

{% panel style="info", title="TL;DR" %}

- Copy files to and from Containers in a cluster

{% endpanel %

---

{% method %}

---

{% sample lang="yaml" %}

---
```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar

{% endmethod %}

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package storageos

import (   "encoding/json"

"github.com/storageos/go-api/types"
)

const (   // licenceAPIPrefix is a partial path to the HTTP endpoint.   licenceAPIPrefix = "licencing"
)


// LicenceApply applies a licence on the server.   func (c *Client) LicenceApply(licenceKey string) error {     _, err := c.do("POST", licenceAPIPrefix, doOptions{         data: &types.LicenceKeyContainer{             Key: licenceKey,         },     })     return err   }

// LicenceDelete removes the current licence.   func (c *Client) LicenceDelete() error {     resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})     if err != nil {         return err     }
return resp.Body.Close()

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import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
    }

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)
    }
}
for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:,...])
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type:  "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    //
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    EntityId:  req.EntityId,
    AssignedLicense: EvalLicense,
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info-LicenseKey = key
    info.Labels = labels

    return info
}

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tomb - support for clean goroutine termination in Go.

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= vendor/golang.org/x/xerrors/LICENSE a413d6b3884e141783f23d00d5838777

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

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* /opt/cola/permits/1151704615_1617968470.5/0/slf4j-log4j12-1-7-13-sources-4-
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1.446 apimachinery 0.15.12

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1.454 google-api-go-client 0.36.0
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package api

import (  
"bytes"  
"io/ioutil"  
"os"  
"path/filepath"  
"regexp"  
"testing"  
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(\\)\*\( All rights reserved.\)\*  
  (//|#) Use of this source code is governed by a BSD-style  
  (//|#) license that can be found in the LICENSE file.  
  `)
const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }
        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix))) {
            t.Errorf("%v: license header not at the top", path)
            err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
            return nil
        }
        if err != nil {
            t.Fatal(err)
        }
        return nil
    })
1.455 xml2js 0.4.23

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1.456 supports-color 6.1.0

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1.457 libarchive 3.3.3-1.el8

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seems to be an unavoidable mess.

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1.458 yarn 1.22.4

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HTTP/1.1 200 OK
Date: Wed, 12 Apr 2017 18:11:29 GMT
Content-Type: application/octet-stream
Content-Length: 5169
Connection: keep-alive
Set-Cookie: __cfduid=d486b95f573144a6f389235c7c49b35801492020688; expires=Thu, 12-Apr-18 18:11:28 GMT; path=/; domain=.yarnpkg.com; HttpOnly
Last-Modified: Sun, 23 Aug 2015 23:36:10 GMT
ETag: "55da58ea-1431"
Expires: Fri, 11 Nov 2016 11:23:05 GMT
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: GET
Cache-Control: max-age=21600
Accept-Ranges: bytes
Via: 1.1 varnish
Age: 17863
X-Served-By: cache-lcy1136-LCY
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HTTP/1.1 200 OK
Date: Wed, 12 Apr 2017 18:11:34 GMT
Content-Type: application/octet-stream
Content-Length: 3574
Connection: keep-alive
Set-Cookie: __cfduid=dd0dd2ddd208ff3326e40fc425a725e9c1492020694; expires=Thu, 12-Apr-18 18:11:34 GMT;
is-plain-obj@^1.1.0:
  version "1.1.0"
  resolved "https://registry.yarnpkg.com/is-plain-obj/-/is-plain-obj-1.1.0.tgz#71a50c8429dfca773c92a390a4a03b39fcd51d3e"

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// Jest Snapshot v1, https://goo.gl/fbAQLP

exports['list should show licenses of dependencies 1'] = `"{"type":"warning","data":"package.json: No license field"}
{"type":"warning","data":"No license field"}
{"type":"tree","data":{"type":"licenses","trees":[]}}`;

exports['generate-disclaimer should show license texts of dependencies 1'] = `"{"type":"warning","data":"package.json: No license field"}
{"type":"warning","data":"No license field"}
{"type":"warning","data":"package.json: No license field"}
```
```
exports['generate-disclaimer should show license texts of dependencies 2'] = `"THE FOLLOWING SETS FORTH ATTRIBUTION NOTICES FOR THIRD PARTY SOFTWARE THAT MAY BE CONTAINED IN PORTIONS OF THE PRODUCT.

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HTTP/1.1 200 OK
Date: Wed, 12 Apr 2017 18:10:56 GMT
Content-Type: application/vnd.npm.install-v1+json
Content-Length: 934
Connection: keep-alive
Set-Cookie: __cfduid=d01a5b5d367390354f6f638f1e5da5b4e1492020656; expires=Thu, 12-Apr-18 18:10:56 GMT; path=/; domain=.yarnpkg.com; HttpOnly
Last-Modified: Mon, 06 Feb 2017 08:52:09 GMT
ETag: W/"58983939-13d4"
Content-Encoding: gzip
Cache-Control: max-age=300
Accept-Ranges: bytes
Via: 1.1 varnish
Age: 0
X-Served-By: cache-lcy1141-LCY
X-Cache: MISS
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HTTP/1.1 200 OK
Server: nginx/1.10.1
Content-Type: application/octet-stream
Last-Modified: Sun, 23 Aug 2015 23:36:10 GMT
ETag: "55da58ea-1431"
Expires: Sat, 18 Mar 2017 09:24:05 GMT
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: GET
Cache-Control: max-age=21600
Content-Length: 5169
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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Yarn
Upstream-Contact: Yarn Developers <yarn@dan.cx>
Source: http://yarnpkg.com/

Files: *
Copyright: 2016-present, Yarn Contributors
License: BSD-2-clause
HTTP/1.1 200 OK
Server: nginx/1.10.1
Content-Type: application/octet-stream
Last-Modified: Tue, 26 Jul 2016 10:46:17 GMT
ETag: "57973f79-df6"
Expires: Thu, 09 Mar 2017 13:58:40 GMT
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: GET
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1.459 whatwg-url 6.5.0

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1.460 easyjson 0.0.0-20180823135443-60711f1a8329
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1.462 urlsafe-base64 1.0.0

1.462.1 Available under license:

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# URL Safe Base64

URL Safe Base64 util module for Node.js applications

[![Build Status](https://secure.travis-ci.org/RGBboy/urlsafe-base64.png)](http://travis-ci.org/RGBboy/urlsafe-base64)

### Installation

With [npm](http://npmjs.org) do:

```javascript
npm install urlsafe-base64
```

### Usage

Require it within your module:

```javascript
var URLSafeBase64 = require('urlsafe-base64');
```

##### .encode(buffer)

Encodes a buffer as a URL Safe Base64 string. This function encodes to the RFC 4648 Spec where '+' is encoded as '-' and '/' is encoded as '_'. The padding character '=' is removed.

```javascript
```
var randomURLSafeBase64;
crypto.randomBytes(32, function(err, buf) {
    if (err) {
        throw err;
        return;
    }
    randomURLSafeBase64 = URLSafeBase64.encode(buf);
});
```
### .decode(string)

Decodes a URL Safe Base64 string as a buffer.

``` javascript
var someURLSafeBase64 = ""
URLSafeBase64.decode(someURLSafeBase64); // returns a buffer
```

### .validate(string)

Validates a string if it is URL Safe Base64 encoded.

``` javascript
var validURLSafeBase64 = '/+='
URLSafeBase64.validate(validURLSafeBase64); // returns true

var invalidURLSafeBase64 = '/+=='
URLSafeBase64.validate(invalidURLSafeBase64); // returns false
```

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* /opt/ws_local/PERMITS_SQL/1087657670_1599578604.76/0/urlsafe-base64-1-0-0-tgz/package/readme.md

1.463 he 1.2.0

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1.474 pythonurllib 1.24.1-1

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* /opt/ws_local/PERMITS_SQL/1016791210_1591897084.18/0/slf4j-log4j12-1-7-0-sources-jar/org/slf4j/impl/Log4jLoggerAdapter.java
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1.478 maven-project 2.0.10
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.487 gettext 0.21-r2

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@ifex
@heading END OF TERMS AND CONDITIONS
@end ifex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo
@end ifex

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

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possible use to the public, the best way to achieve this is to make it
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@end smallexample

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@end smallexample

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How to contact the author:

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/AbstractMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ForwardingDeque.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/StandardSystemProperty.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/FilteredKeySetMultimap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ForwardingNavigableMap.java

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  jar/com/google/common/base/Preconditions.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collection/MapMaker.java
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jar/com/google/common/collection/MapMakerInternalMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collection/Cut.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collection/SparseImmutableTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collection/RegularImmutableTable.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableMap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableMultimap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/UnmodifiableIterator.java
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  jar/com/google/common/escape/CharEscaperBuilder.java
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  jar/com/google/common/io/AppendableWriter.java
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  jar/com/google/common/base/CaseFormat.java
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  jar/com/google/common/util/concurrent/InterruptibleTask.java
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* $Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/PatternOptionBuilder.java,v
1.2 2002/06/06 22:49:36 bayard Exp $
* $Revision: 1.2 $
* $Date: 2002/06/06 22:49:36 $
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 * $Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/ParseException.java,v 1.2
 * 2002/06/06 09:37:26 jstrachan Exp $
 * $Revision: 1.2 $
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jar/org/apache/commons/cli/CommandLine.java
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 * 22:59:43 jkeyes Exp $
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* $Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/Options.java,v 1.5
2002/06/06 22:32:37 bayard Exp $
* $Revision: 1.5 $
* $Date: 2002/06/06 22:32:37 $
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* /opt/cola/permits/1136279811_1613727097.48/0/commons-cli-1-0-sources-1-
  jar/org/apache/commons/cli/Options.java

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/**
 * $Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/Option.java,v 1.6 2002/06/06
 22:50:14 bayard Exp $
 * $Revision: 1.6 $
 * $Date: 2002/06/06 22:50:14 $
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* /opt/cola/permits/1136279811_1613727097.48/0/commons-cli-1-0-sources-1-
  jar/org/apache/commons/cli/Option.java

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 * $Header: /home/cvs/jakarta-commons-
  sandbox/cli/src/java/org/apache/commons/cli/UnrecognizedOptionException.java,v 1.2 2002/06/06 09:37:26
  jstrachan Exp $
 * $Revision: 1.2 $
 * $Date: 2002/06/06 09:37:26 $
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jar/org/apache/commons/cli/OptionGroup.java

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  jar/org/apache/commons/cli/MissingOptionException.java
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  22:50:45 jkeyes Exp $
* $Revision: 1.12 $
* $Date: 2002/10/15 22:50:45 $
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/collect/ImmutableSetMultimap.java
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* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/collect/AbstractMultiset.java
jar/com/google/common/collection/ForwardingSortedMap.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/collection/Constraints.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
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* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/collection/AbstractMapBasedMultiset.java
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* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
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jar/com/google/common/collection/NullsLastOrdering.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/collection/ExplicitOrdering.java
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* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/collection/Multimaps.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/collection/MapConstraints.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/collection/ForwardingCollection.java
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jar/com/google/common/eventbus/AllowConcurrentEvents.java
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jar/com/google/common/eventbus/AnnotatedSubscriberFinder.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-
jar/com/google/common/collection/MapConstraint.java
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jar/com/google/common/collection/ConcurrentHashMultiset.java
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  * /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/collect/CartesianList.java
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  jar/com/google/common/collection/ContiguousSet.java
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* As of 2010/06/11, this method is identical to the (package private) hash
* method in OpenJDK 7's java.util.HashMap class.
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* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/collections/MultimapBuilder.java

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* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1151704023_1617966544.66/0/guava-16-0-1-sources-6-jar/com/google/common/hash/Funnel.java
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Version 3, 29 June 2007

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

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If such an object file uses only numerical parameters, data
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b) Use a suitable shared library mechanism for linking with the
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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* /opt/cola/permits/1151708268_1617968523.08/0/spring-core-3-2-18-release-sources-6-jar/org/springframework/core/task/SyncTaskExecutor.java
* /opt/cola/permits/1151708268_1617968523.08/0/spring-core-3-2-18-release-sources-6-jar/org/springframework/core/task/TaskRejectedException.java
* /opt/cola/permits/1151708268_1617968523.08/0/spring-core-3-2-18-release-sources-6-jar/org/springframework/core/type/StandardClassMetadata.java
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* /opt/cola/permits/1151708268_1617968523.08/0/spring-core-3-2-18-release-sources-6-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /opt/cola/permits/1151708268_1617968523.08/0/spring-core-3-2-18-release-sources-6-jar/org/springframework/util/comparator/ComparableComparator.java
* /opt/cola/permits/1151708268_1617968523.08/0/spring-core-3-2-18-release-sources-6-jar/org/springframework/core/io/DefaultResourceLoader.java
* /opt/cola/permits/1151708268_1617968523.08/0/spring-core-3-2-18-release-sources-6-jar/org/springframework/core/ControlFlow.java
* /opt/cola/permits/1151708268_1617968523.08/0/spring-core-3-2-18-release-sources-6-jar/org/springframework/core/serializer/support/SerializationFailedException.java
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* /opt/cola/permits/1151708268_1617968523.08/0/spring-core-3-2-18-release-sources-6-jar/org/springframework/util/xml/StaxStreamContentHandler.java
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1.523 jest-runner 24.9.0

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* /opt/cola/permits/1155598136_1619020153.04/0/jest-runner-24-9-0-1-tgz/package/build/testWorker.d.ts
* /opt/cola/permits/1155598136_1619020153.04/0/jest-runner-24-9-0-1-tgz/package/build/runTest.d.ts

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* /opt/cola/permits/1155598136_1619020153.04/0/jest-runner-24-9-0-1-tgz/package/build/types.d.ts
1.524 left-pad 1.3.0

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1.525 class-utils 0.3.6

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1.526 pyyaml 3.13

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1.527 libpcrecpp 8.45-r2

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End
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--------

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The basic library functions are written in C and are freestanding. Also
included in the distribution is a set of C++ wrapper functions, and a
just-in-time compiler that can be used to optimize pattern matching. These
are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS
-------------------------------

Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

University of Cambridge Computing Service,

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PCRE JUST-IN-TIME COMPILATION SUPPORT
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Email domain: freemail.hu

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THE C++ WRAPPER FUNCTIONS
--------------------------

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1.528 perl-pod-escapes 1.07-395.el8

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548111_1591901918.14/0/perl-Pod-Escapes-1.07-395.el8.src.rpm-cosi-expand-archive-AcQE8bnL/perl-Pod-Escapes.spec

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=head1 NAME

Pod::Escapes - for resolving Pod EE<lt>...E<gt> sequences

=head1 SYNOPSIS

use Pod::Escapes qw(e2char);
...la la la, parsing POD, la la la...
$text = e2char($e_node-&gt;label);
unless(defined $text) {
  print "Unknown E sequence \"", $e_node-&gt;label, "\"!
; ;
} ...else print/interpolate $text...

=head1 DESCRIPTION

This module provides things that are useful in decoding Pod EE<lt>...E<gt> sequences. Presumably, it should be used only by Pod parsers and/or formatters.

By default, Pod::Escapes exports none of its symbols. But you can request any of them to be exported. Either request them individually, as with
C&lt;use Pod::Escapes qw(symbolname symbolname2...);&gt;

or you can do C&lt;use Pod::Escapes qw(:ALL);&gt; to get all exportable symbols.

=head1 GOODIES
=item e2char($e_content)

Given a name or number that could appear in a C<EE<lt>name_or_numE<gt>> sequence, this returns the string that it stands for. For example, C<e2char('sol')>, C<e2char('47')>, C<e2char('0x2F')>, and C<e2char('057')> all return "/", because C<EE<lt>solE<gt>>, C<EE<lt>47E<gt>>, C<EE<lt>0x2fE<gt>>, and C<EE<lt>057E<gt>>, all mean "/". If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.

=item e2charnum($e_content)

Given a name or number that could appear in a C<EE<lt>name_or_numE<gt>> sequence, this returns the number of the Unicode character that this stands for. For example, C<e2char('sol')>, C<e2char('47')>, C<e2char('0x2F')>, and C<e2char('057')> all return 47, because C<EE<lt>solE<gt>>, C<EE<lt>47E<gt>>, C<EE<lt>0x2fE<gt>>, and C<EE<lt>057E<gt>>, all mean "/", whose Unicode number is 47. If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.

=item $Name2character{I<name>}

Maps from names (as in C<EE<lt>I<name>E<gt>>) like "eacute" or "sol" to the string that each stands for. Note that this does not include numerics (like "64" or "x981c"). Under old Perl versions (before 5.7) you get a "?" in place of characters whose Unicode value is over 255.

=item $Name2character_number{I<name>}

Maps from names (as in C<EE<lt>I<name>E<gt>>) like "eacute" or "sol" to the Unicode value that each stands for. For example, C<$Name2character_number{'eacute'}> is 201, and C<$Name2character_number{'eacute'}> is 8364. You get the correct Unicode value, regardless of the version of Perl you're using -- which differs from C<$%Name2character>'s behavior under pre-5.7 Perls.

Note that this hash does not include numerics (like "64" or "x981c").

=item $Latin1Code_to_fallback{I<integer>}

For numbers in the range 160 (0x00A0) to 255 (0x00FF), this maps
from the character code for a Latin-1 character (like 233 for lowercase e-acute) to the US-ASCII character that best approximates it (like "e"). You may find this useful if you are rendering POD in a format that you think deals well only with US-ASCII characters.

=item $Latin1Char_to_fallback{I<character>}

Just as above, but maps from characters (like "xE9", lowercase e-acute) to characters (like "e").

=item $Code2USASCII{I<integer>}

This maps from US-ASCII codes (like 32) to the corresponding character (like space, for 32). Only characters 32 to 126 are defined. This is meant for use by C<e2char($x)> when it senses that it's running on a non-ASCII platform (where chr(32) doesn't get you a space -- but $Code2USASCII{32} will). It's documented here just in case you might find it useful.

=back

=head1 CAVEATS

On Perl versions before 5.7, Unicode characters with a value over 255 (like lambda or emdash) can't be conveyed. This module does work under such early Perl versions, but in the place of each such character, you get a "?". Latin-1 characters (characters 160-255) are unaffected.

Under EBCDIC platforms, C<e2char($n)> may not always be the same as C<chr(e2charnum($n))>, and ditto for C<$Name2character{$name}> and C<chr($Name2character_number{$name})>, because the strings are returned as native, and the numbers are returned as Unicode. However, for Perls starting with v5.8, C<e2char($n)> is the same as C<chr(utf8::unicode_to_native(e2charnum($n))>>, and ditto for C<$Name2character{$name}> and C<chr(utf8::unicode_to_native($Name2character_number{$name}))>.

=head1 SEE ALSO

L<Pod::Browser> - a pod web server based on L<Catalyst>.

L<Pod::Checker> - check pod documents for syntax errors.

L<Pod::Coverage> - check if the documentation for a module is comprehensive.
L<perlpod> - description of pod format (for people documenting with pod).
L<perlpodspec> - specification of pod format (for people processing it).
L<Text::Unidecode> - ASCII transliteration of Unicode text.

=head1 REPOSITORY
L<https://github.com/neilbowers/Pod-Escapes>

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merchantability or fitness for a particular purpose.

Portions of the data tables in this module are derived from the
entity declarations in the W3C XHTML specification.

Currently (October 2001), that's these three:

http://www.w3.org/TR/xhtml1/DTD/xhtml-lat1.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-special.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-symbol.ent

=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

Now being maintained by Neil Bowers E<lt>neilb@cpan.orgE<gt>

=cut

#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
# What I used for reading the XHTML .ent files:

my(@norms, @good, @bad);
my $dir = 'c:/sgml/docbook/';
my %escapes;
foreach my $file (qw(
xhtml-symbol.ent
xhtml-lat1.ent
xhtml-special.ent

---
1.529 inflection 1.12.0

1.529.1 Available under license:
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# inflection

A port of inflection-js to node.js module

## Description

[inflection-js](http://code.google.com/p/inflection-js/) is a port of the functionality from Ruby on Rails’ Active Support Inflection classes into Javascript. ‘inflection’ is a port of `inflection-js` to node.js npm package. Instead of [extending JavaScript native](http://wonko.com/post/extending-javascript-natives) String object like `inflection-js` does, ‘inflection’ separate the methods to a independent package to avoid unexpected behaviors.

Note: This library uses [Wiktionary](http://en.wiktionary.org) as its reference.
## Requires

Checkout `package.json` for dependencies.

## Angular Support

Checkout [ngInflection](https://github.com/konsumer/ngInflection) from [konsumer](https://github.com/konsumer)

## Meteor Support

Checkout [Meteor Inflector](https://github.com/katrotz/meteor-inflector) from [Veaceslav Cotruta](https://github.com/katrotz)

## Installation

Install inflection through npm

```
npm install inflection
```

## API

- `inflection.indexOf( arr, item, from_index, compare_func );`
- `inflection.pluralize( str, plural );`
- `inflection.singularize( str, singular );`
- `inflection.inflect( str, count, singular, plural );`
- `inflection.camelize( str, low_first_letter );`
- `inflection.underscore( str, all_upper_case );`
- `inflection.humanize( str, low_first_letter );`
- `inflection.capitalize( str );`
- `inflection.dasherize( str );`
- `inflection.titleize( str );`
- `inflection.demodulize( str );`
- `inflection.tableize( str );`
- `inflection.classify( str );`
- `inflection.foreign_key( str, drop_id_ubar );`
- `inflection.ordinalize( str );`
- `inflection.transform( str, arr );`
## Usage

> Require the module before using

```javascript
var inflection = require( 'inflection' );
```

```javascript
### inflection.indexOf( arr, item, from_index, compare_func );
```

This lets us detect if an Array contains a given element.

### Arguments

> arr

type: Array
desc: The subject array.

> item

type: Object
desc: Object to locate in the Array.

> from_index

type: Number
desc: Starts checking from this position in the Array.(optional)

> compare_func

type: Function
desc: Function used to compare Array item vs passed item.(optional)

### Example code

```javascript
var inflection = require( 'inflection' );

inflection.indexOf( [ 'hi','there' ], 'guys' ); // === -1
inflection.indexOf( [ 'hi','there' ], 'hi' ); // === 0
```

```javascript
### inflection.pluralize( str, plural );
```

This function adds pluralization support to every String object.

### Arguments
> str

type: String
desc: The subject string.

> plural

type: String
desc: Overrides normal output with said String.(optional)

#### Example code

```javascript
var inflection = require( 'inflection' );

inflection.pluralize( 'person' ); // === 'people'
inflection.pluralize( 'octopus' ); // === "octopi"
inflection.pluralize( 'Hat' ); // === 'Hats'
inflection.pluralize( 'person', 'guys' ); // === 'guys'
```

#### inflection.singularize( str, singular );

This function adds singularization support to every String object.

#### Arguments

> str

type: String
desc: The subject string.

> singular

type: String
desc:Overrides normal output with said String.(optional)

#### Example code

```javascript
var inflection = require( 'inflection' );

inflection.singularize( 'people' ); // === 'person'
inflection.singularize( 'octopi' ); // === "octopus"
inflection.singularize( 'Hats' ); // === 'Hat'
inflection.singularize( 'guys', 'person' ); // === 'person'
```
This function will pluralize or singularize a String appropriately based on an integer value.

#### Arguments

> str

type: String
desc: The subject string.

> count

type: Number
desc: The number to base pluralization off of.

> singular

type: String
desc: Overrides normal output with said String.(optional)

> plural

type: String
desc: Overrides normal output with said String.(optional)

#### Example code

```javascript
var inflection = require( 'inflection' );

inflection.inflect( 'people' 1 ); // === 'person'
inflection.inflect( 'octopi' 1 ); // === 'octopus'
inflection.inflect( 'Hats' 1 ); // === 'Hat'
inflection.inflect( 'guys', 1 , 'person' ); // === 'person'
inflection.inflect( 'person', 2 ); // === 'people'
inflection.inflect( 'octopus', 2 ); // === 'octopi'
inflection.inflect( 'Hat', 2 ); // === 'Hats'
inflection.inflect( 'person', 2, null, 'guys' ); // === 'guys'
```

This function transforms String object from underscore to camelcase.

#### Arguments

> str
type: String
desc: The subject string.

> low_first_letter

type: Boolean
desc: Default is to capitalize the first letter of the results. Passing true will lowercase it. (optional)

#### Example code

```javascript
var inflection = require( 'inflection' );

inflection.camelize( 'message_properties' ); // === 'MessageProperties'
inflection.camelize( 'message_properties', true ); // === 'messageProperties'
```

#### inflection.underscore( str, all_upper_case );

This function transforms String object from camelcase to underscore.

#### Arguments

> str

type: String
desc: The subject string.

> all_upper_case

type: Boolean
desc: Default is to lowercase and add underscore prefix

#### Example code

```javascript
var inflection = require( 'inflection' );

inflection.underscore( 'MessageProperties' ); // === 'message_properties'
infection.underscore( 'messageProperties' ); // === 'message_properties'
infection.underscore( 'MP' ); // === 'm_p'
infection.underscore( 'MP', true ); // === 'MP'
```

#### inflection.humanize( str, low_first_letter );
This function adds humanize support to every String object.

#### Arguments

> str  
  type: String  
  desc: The subject string.

> low_first_letter  
  type: Boolean  
  desc: Default is to capitalize the first letter of the results. Passing true will lowercase it. (optional)

#### Example code

var inflection = require('inflection');

inflection.humanize('message_properties'); // === 'Message properties'
inflection.humanize('message_properties', true); // === 'message properties'

#### inflection.capitalize( str );

This function adds capitalization support to every String object.

#### Arguments

> str  
  type: String  
  desc: The subject string.

#### Example code

var inflection = require('inflection');

inflection.capitalize('message_properties'); // === 'Message_properties'
inflection.capitalize('message_properties', true); // === 'Message properties'

#### inflection.dasherize( str );

This function replaces underscores with dashes in the string.
### Arguments

> str

type: String
desc: The subject string.

#### Example code

```javascript
var inflection = require( 'inflection' );

inflection.dasherize( 'message_properties' ); // === 'message-properties'
inflection.dasherize( 'Message Properties' ); // === 'Message-Properties'
```

```javascript
### inflection.titleize( str );

This function adds titleize support to every String object.

#### Arguments

> str

type: String
desc: The subject string.

#### Example code

```javascript
var inflection = require( 'inflection' );

inflection.titleize( 'message_properties' ); // === 'Message Properties'
inflection.titleize( 'message properties to keep' ); // === 'Message Properties to Keep'
```

### inflection.demodulize( str );

This function adds demodulize support to every String object.

#### Arguments

> str

type: String
desc: The subject string.

#### Example code
var inflection = require( 'inflection' );

inflection.demodulize( 'Message::Bus::Properties' ); // === 'Properties'

### inflection.tableize( str );

This function adds tableize support to every String object.

#### Arguments

> str

type: String
desc: The subject string.

#### Example code

var inflection = require( 'inflection' );

inflection.tableize( 'MessageBusProperty' ); // === 'message_bus_properties'

### inflection.classify( str );

This function adds classification support to every String object.

#### Arguments

> str

type: String
desc: The subject string.

#### Example code

var inflection = require( 'inflection' );

inflection.classify( 'message_bus_properties' ); // === 'MessageBusProperty'

### inflection.foreign_key( str, drop_id_ubar );

This function adds foreign key support to every String object.
### Arguments

> str

type: String
desc: The subject string.

> low_first_letter

type: Boolean
desc: Default is to separate id with an underscore at the end of the class name, you can pass true to skip it. (optional)

### Example code

var inflection = require( 'inflection' );

inflection.foreign_key( 'MessageBusProperty' ); // === 'message_bus_property_id'
inflection.foreign_key( 'MessageBusProperty', true ); // === 'message_bus_propertyid'

### inflection.ordinalize( str );

This function adds ordinalize support to every String object.

### Arguments

> str

type: String
desc: The subject string.

### Example code

var inflection = require( 'inflection' );

inflection.ordinalize( 'the 1 pitch' ); // === 'the 1st pitch'

### inflection.transform( str, arr );

This function performs multiple inflection methods on a string.

### Arguments

> str
type: String
desc: The subject string.

> arr

type: Array
desc: An array of inflection methods.

#### Example code

```javascript
var inflection = require('inflection');

inflection.transform('all job', ['pluralize', 'capitalize', 'dasherize']); // === 'All-jobs'
```

## Credit

- Ryan Schuft <ryan.schuft@gmail.com>
- Lance Pollard <lancejpollard@gmail.com> (Browser support)
- Dane O'Connor <dane.oconnor@gmail.com>
- brandonewitt
- luk3thomas
- Marcel Klehr
- Raymond Feng
- Kane Cohen <kanecohen@gmail.com>
- Gianni Chiappetta <gianni@runlevel6.org>
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/*! 
* inflection 
* Copyright(c) 2011 Ben Lin <ben@dreamerslab.com> 
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* 
* @fileoverview 
* A port of inflection-js to node.js module. 
* */

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Found in path(s):
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/stream/ChunkedNioStream.java
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jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SniCompletionEvent.java
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jar/io/netty/handler/ssl/AbstractSniHandler.java
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jar/io/netty/handler/ssl/SslClientHelloHandler.java
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jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
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  jar/io/netty/handler/ipfilter/IpFilterRule.java
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  jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
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  jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
  jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
  jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
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  jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
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  jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
  jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
  jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
  jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
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  jar/io/netty/handler/ssl/PlainSsl.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
  jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
  jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
  jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
  jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
  jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
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  jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
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  jar/io/netty/handler/address/package-info.java
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  jar/io/netty/handler/ssl/PseudoRandomFunction.java
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jar/io/netty/handler/address/ResolveAddressHandler.java
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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java

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1.544 selinux 2.9-5.el8

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#
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#
/

tmp/HTX-IOX(/.*)? gen_context(system_u:object_r:polaris_htx_iox_tmp_t,s0)

# /dev/sppi_memif htx works with
/dev/sppi_memif -c gen_context(system_u:object_r:polaris_sppi_memif_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarishtx.fc
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#
#
## <summary>Polaris GR Manager Policy Rules.</summary>

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisgrmgr.if
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Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_if.m4
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_fc.m4
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_process_fc.m4
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#
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### <summary>Polaris polarispvp Policy Rules.</summary>

###################################
### <summary>
### Execute a domain transition to run pvp.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
interface(`polaris_pvp_domtrans',`
    gen_require(`
        type polaris_pvp_t, polaris_pvp_exec_t;
    `)
    domtrans_pattern($1, polaris_pvp_exec_t, polaris_pvp_t)
`)

###################################
### <summary>
### Manage pvp temporary files and directories in /tmp.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_pvp_manage_tmp_files',`
    gen_require(`
        type polaris_pvp_tmp_t;
    `)
    manage_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
    manage_dirs_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
    manage_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
`)

###################################
### <summary>
### Manage pvp process_state files and directories in /tmp/[rpf|fp|cc]/pvp/process_state.
### </summary>
### <param name="domain">

# <summary>
# Domain allowed access.
# </summary>
#
interface('polaris_pvp_manage_process_state_files',
    gen_require('type polaris_process_state_t;
    ')

    manage_files_pattern($1, polaris_process_state_t, polaris_process_state_t)
    ')

########################################
# <summary>
# Getattr dirs pvp temporary files and directories in /tmp.
# </summary>
# <param name="domain">
# <summary>
# Domain allowed access.
# </summary>
#
interface('polaris_pvp_getattrs_tmp_dirs',
    gen_require('type tmp_t;
    type polaris_pvp_tmp_t;
    ')

    getattr_dirs_pattern($1, tmp_t, polaris_pvp_tmp_t)
    ')

########################################
# <summary>
# Read from pvp stdin. Should be granted to scripts spawned
# from pvp with domain transition. pvp stdin (0) points to fifo
# file like /tmp/rp/pvp/work/inot_fifo
# </summary>
# <param name="domain">
# <summary>
# Domain allowed access.
# </summary>
#
interface('polaris_pvp_stdin_read',
    gen_require('type polaris_pvp_tmp_t;
    ')

    stdin_read_pattern($1, polaris_pvp_tmp_t)
    ')
read_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
)

########################################################################
## <summary>
## Read pvp temporary files and directories in /tmp.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_pvp_read_tmp_files',
  gen_require(
    type tmp_t;
    type polaris_pvp_tmp_t;
  )
  rw_files_pattern($1, { tmp_t polaris_pvp_tmp_t }, polaris_pvp_tmp_t)
)

########################################################################
## <summary>
## Read pvp SAI files under /tmp/[rp|fp|cc/*]/pvp/sai_process.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_pvp_read_sai_files',
  gen_require(
    type polaris_pvp_sai_t;
  )
  read_files_pattern($1, polaris_pvp_sai_t, polaris_pvp_sai_t)
  list_dirs_pattern($1, polaris_pvp_sai_t, polaris_pvp_sai_t)
  allow $1 polaris_pvp_sai_t:dir watch;
)

########################################################################
## <summary>
## Delete pvp SAI dirs and files under /tmp/[rp|fp|cc/*]/pvp/sai_process.
## </summary>
### <param name="domain">
###   <summary>
###   Domain allowed access.
###   </summary>
### </param>
#
interface('polaris_pvp_delete_sai_files',
   gen_require(
      type polaris_pvp_sai_t;
   )
   allow $1 polaris_pvp_sai_t:dir { remove_name rmdir write };
   allow $1 polaris_pvp_sai_t:file unlink;
   )

#######################################
### <summary>
###   Watch pvp process_state directories
### </summary>
### <param name="domain">
###   <summary>
###   Domain allowed access.
###   </summary>
### </param>
### <rolebase/>
#
interface('polaris_process_state_watch',
   gen_require(
      type polaris_process_state_t;
   )
   allow $1 polaris_process_state_t:dir watch;
   )

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispvp.if
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### <summary>Polaris fman_fp Policy Rules.</summary>

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## <summary>Polaris smd Policy Rules.</summary>

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissmd.if

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## <summary>Polaris JVM Policy Rules.</summary>

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#  
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#  
/boottflash/dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdbm.fc

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policy_module(polarisstorage, 1.0);

# Persistent storage policy

attribute polaris_disk;

# Default disk types

type polaris_disk_bootflash_t;
polaris_disk_type(polaris_disk_bootflash_t)

type polaris_disk_varied_t;
polaris_disk_type(polaris_disk_varied_t)

type polaris_disk_harddisk_t;
polaris_disk_type(polaris_disk_harddisk_t)

type polaris_disk_csl_p_t;
polaris_disk_type(polaris_disk_csl_p_t)

type polaris_disk_csl_s_t;
polaris_disk_type(polaris_disk_csl_s_t)

type polaris_disk_objstore_t;
polaris_disk_type(polaris_disk_objstore_t)

type polaris_disk_crashinfo_t;
polaris_disk_type(polaris_disk_crashinfo_t)

type polaris_disk_license_t;
polaris_disk_type(polaris_disk_license_t)

type polaris_disk_ucode_t;
polaris_disk_type(polaris_disk_ucode_t)

type polaris_disk_recovery_t;
polaris_disk_type(polaris_disk_recovery_t)

type polaris_disk_config_t;
polaris_disk_type(polaris_disk_config_t)

# Persistent files types

type polaris_system_report_t;
polaris_pfile_type(polaris_system_report_t)

type polaris_core_file_t;
polaris_pfile_type(polaris_core_file_t)
type polaris_debug_conf_t;
polaris_pfile_type(polaris_debug_conf_t)

type polaris_packages_conf_t;
polaris_pfile_type(polaris_packages_conf_t)

type polaris_grub_efi_t;
polaris_pfile_type(polaris_grub_efi_t)

# we label .ssh files residing on persistent storage as ssh_home_t
# and sshd_key_t
#
# below statement could/should be moved into ssh te file?
gen_require(
    type ssh_home_t;
    type sshd_key_t;
')
polaris_disk_type(ssh_home_t)
polaris_disk_type(sshd_key_t)

# handling /bootflash directory - created by systemd unit, note normally
# something will be mounted on top of it, but in some cases like RP2 line
# cards it will be ramfs directory.
gen_require(
    type root_t;
    type unconfined_service_t;
')
filetrans_pattern(unconfined_service_t, root_t, polaris_disk_bootflash_t, dir, "bootflash")

# nfsd accesses different persistent storage directories and it needs getattr
gen_require(
    type nfsd_t;
')
polaris_persistent_getattr(nfsd_t)

# on qwlc /misc/scratch symbolic link created by systemd-tmpfile, but then
# removed and recreated by harddisk mount systemd unit
gen_require(
    type unconfined_service_t;
    type mnt_t;
')
filetrans_pattern(unconfined_service_t, mnt_t, polaris_disk_bootflash_t, lnk_file, "scratch")

gen_require(
    type polaris_confd_t;
    type tmp_t;
')
filetrans_pattern(polaris_confid_t tmp_t, polaris_packages_conf_t file, "packages.conf")

# first time creation of /bootflash/core directory

gen_require(
    type initrc_t;
    type init_t;
)

filetrans_pattern({initre_t init_t unconfined_service_t}, {polaris_disk_bootflash_t polaris_disk_harddisk_t} ,
    polaris_core_file_t dir, "core")

gen_require(
    type init_t;
)

files_tmp_filetrans(init_t, polaris_packages_conf_t file, "packages.conf")

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisstorage.te
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#
/usr/binos/conf/auto_upgrade_client.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/binos/conf/auto_upgrade_helper.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/binos/conf/auto_upgrade_trigger.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/binos/conf/auto_upgrade_client_helper.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)

/tmp/etc/installer gen_context(system_u:object_r:polaris_autoupgrade_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisautoupgrade.fc
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dnl
define(`lipc_stem', `translit(patsubst($1, `-lipc$', `'), `-', `_')')

define(`lipc_label', `format(`polaris_%s_lipc_t', lipc_stem($1))')

dnl Lipc Type Map: track that type declations unique
define(`lipc_type_map', `defn(format(``lipc_type_map[%s]"', `$1'))')
define(`lipc_type_map_set', `define(format(``lipc_type_map[%s]', `$1'), `$2'))

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_lipc.m4

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### <summary>Polaris Btrace Policy Rules.</summary>

# Obfl policy

### <summary>
###      Read obfl files (under /obfl, /varied/obfl, etc)
### </summary>
### <param name="domain">
###      Domain allowed access.
### </param>
### <rolebase/>
#
interface(`polaris_obfl_data_read',`
  gen_require(`
    type polaris_obfl_data_t;
    type root_t;
  ')

  read_lnk_files_pattern($1, root_t, polaris_obfl_data_t)
read_files_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
  list_dirs_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
  allow $1 polaris_obfl_data_t:file map;
  ')

### <summary>
###      Manage obfl files (under /obfl, /varied/obfl, etc
### </summary>
### <param name="domain">
###      Domain allowed access.
### </param>
### <rolebase/>

## Domain allowed access.

```c
#<param>
#<rolebase/>
#
interface(polaris_obfl_data_manage',
    gen_require(
        type polaris_obfl_data_t;
        type root_t;
        type var_t;
    )
)
read_lnk_files_pattern($1, root_t, polaris_obfl_data_t)
manage_files_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
manage_dirs_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
allow $1 polaris_obfl_data_t:file map;
')
```

Found in path(s):
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```c
policy_module(polarsvpv, 1.0);
polars_process_domain_template(pvp)

# transition to pman domain, once pman is invoked by pvp
polaris_pman_domtrans(polaris_pvp_t)

corecmd_exec_bin(polaris_pvp_t)
corecmd_exec_shell(polaris_pvp_t)
# can execute hostname in pvp domain
hostname_exec(polaris_pvp_t)
# can execute process in polaris domain
polaris_exec(polaris_pvp_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_pvp_t)

# allow to get getattr of /proc file system during find over it
kernel_getattr_proc(polaris_pvp_t)
```
# allow read of /etc/passwd
auth_use_nsswitch(polaris_pvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_pvp_t)

# all to read sysctl files in /proc directory
kernel_read_all_sysctls(polaris_pvp_t)

# work with /tmp files

type polaris_pvp_tmp_t;
files_tmp_file(polaris_pvp_tmp_t)
manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_pvp_tmp_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
manage_fifo_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
files_tmp_filetrans(polaris_pvp_t, polaris_pvp_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, dir, "pvp")

# /tmp/silent_roll_select.log handling on Macallan
filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, file, "silent_roll_select.log")

# work with /tmp/[rp|fp|cc]/pvp/process_state files

type polaris_process_state_t;
files_tmp_file(polaris_process_state_t)
manage_dirs_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t)
manage_fifo_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t)
filetrans_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t, dir, "process_state")

# LOOK AT ME now all polaris process can change each other process
# state. Need to fix it with more process specific labels in case
# when polaris_domain_process becomes template.
gen_require(
    'attribute polaris_domain;
')
polaris_pvp_manage_process_state_files(polaris_domain)

allow polaris_pvp_t self:capability sys_resource;

# readlink access to /proc/<pid>/fd/0 triggers sys_ptrace capability need
allow polaris_pvp_t self:capability { sys_ptrace };
dmidecode_domtrans(polaris_pvp_t)

# on some ngwc pvp has to code-sign-verify silent roll packages
ifdef(`ngwc_family',`
  polaris_code_verify_domtrans(polaris_pvp_t)
')
polaris_btrace_data_manage_all(polaris_pvp_t)
polaris_chasfs_manage(polaris_pvp_t)
polaris_cpld_read(polaris_pvp_t)
polaris_cpld_write(polaris_pvp_t)
polaris_proc_rmonbifo_read(polaris_pvp_t)
polaris_rmonbifo_tmp_read(polaris_pvp_t)
polaris_tldldb_list_dirs(polaris_pvp_t)
polaris_boot_tmp_read(polaris_pvp_t)
polaris_read_debug_conf(polaris_pvp_t)

# LOOK AT ME pvp.sh runs find over /proc. Needs access
to state of all processes
domain_read_all_domains_state(polaris_pvp_t)

# pvp.sh can call logger command
logging_send_syslog_msg(polaris_pvp_t)

# should it not be moved to dmidecode module or better
change script to call dmidecode with stdin redirected
from /dev/null (i.e dmidecode < /dev/null)
gen_require(
    type dmidecode_t;
')
polaris_pvp_stdin_read(dmidecode_t)

# read pman stdin files
polaris_pman_read_tmp_files(polaris_pvp_t)

#allow polaris_pvp_t polaris_udev_tmp_files_t:dir { getattr search };
polaris_udev_tmp_list_dirs(polaris_pvp_t)

gen_require(
    type initrc_t;
    type init_t;
')
#init_script_tmp_filetrans(initrc_t, polaris_pvp_tmp_t, file, "iosd_memory_share")
files_tmp_filetrans({ initrc_t init_t }, polaris_pvp_tmp_t, file, "iosd_memory_share")
polaris_systemd_tmpfiles_tmp_filetrans(polaris_pvp_tmp_t, dir, "max_elastic_bays")

# direct access to serial TTY devices like /dev/ttyS1
term_write_unallocated_ttys(polaris_pvp_t)

# For Cabo, allow access to GNSS device
ifdef(`cabo_platform',`
polaris_cabo_gnss_dev_use(polaris_pvp_t)
')
# on ultra pvp calls hv_ttyprobe utility to figure out what terminal
# to use as console, and this one need read access to terminal. There is
# no separate macro for read only. But since we granting write to everyone
# let use 'use' which means read/write
ifdef('vxe_family',
    term_use_unallocated_ttys(polaris_pvp_t)
')
ifdef('wlc_family',
    term_use_unallocated_ttys(polaris_pvp_t)
')

# pvp's linux_iosd_image_env.sh will check /dev/ttyUSB* ports with hv_ttyprobe too.
term_use_usb_ttys(polaris_pvp_t)

# allow access and modify files in /tftp directory, cannot use tftp_manage_rw_content
# since it does not cover link files
gen_require(''
    type tftpdir_rw_t;
')
manage_dirs_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
manage_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
manage_lnk_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)

# ASR1K modular platforms create /tftp/inv/inventory_$fru_$slot.bin
# /tftp/inv is not a softlink but a directory for asr1k Modular platforms.
# So it needs a file transition to polaris_chasfs_t for accessing it.
ifdef('mcp_family',
    filetrans_pattern(domain, tftpdir_rw_t, polaris_chasfs_t, dir, "inv")
')

# on ultra platform hv_ttyprobe utility that runs under polaris_pvp_t label
# checks for existence of /boot/ttyS0_ignore file; and since /boot is symlink
# to /varied it need dir search permission over polaris_disk_varied_t
ifdef('vxe_family',
    polaris_disk_varied_search(polaris_pvp_t)
')
ifdef('wlc_family',
    polaris_disk_varied_search(polaris_pvp_t)
')

# pvp.sh calls cp utility with -a option that should preserve files
# attributes as result cp needs to perform set_process_security_ctx call
# which in turns calls setfscreatecon
allow polaris_pvp_t self:process setfscreate;

# pvp.sh calls pidof utility and it needs read access to sysfs_t
#
# When resetting a partner, pvp writes to the PCIe switch global
# reset register using the i2c driver, which is also sysfs_t
# LOOK AT ME should we create a new type for the PCIe switch reg
dev_rw_sysfs(polaris_pvp_t)

# wants to execute /bin/dmesg
dmesg_domtrans(polaris_pvp_t)

# wants to read from /tmp/rp/pvp/work/inot_fifo
gen_require(''
    type dmesg_t;
')
rw_fifo_files_pattern(dmesg_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)

# wants to write into /bootflash/prst_sync
polaris_persistent_manage(polaris_pvp_t)

# pvp tried to find all except hman polaris process with
# 'find /tmp/rp/process -name *.pid ! -name *hman* -printf %p' command
# should be able to read pman tmp files
polaris_pman_read_tmp_files(polaris_pvp_t)

# on way down pvp.sh call 'workon.sh rp 0 rotate force' so we
# need to transition and run it in btrace_rotate domain
polaris_btrace_rotate_domtrans(polaris_pvp_t)

# on way down pvp.sh checks for *.TEMP_IN_PROGRESS in /misc/scratch/core
# need to be able read /misc/scratch link
polaris_disk_bootflash_read_lnk(polaris_pvp_t)

# implode.sh things, should we run them in its own domain?

# removes /etc/exports, create a new empty one and runs 'exportfs -ua'
# this action also needs kernel_rw_rpc_sysctls to flush
files_manage_etc_files(polaris_pvp_t)

gen_require(''
    type exports_t;
')
allow polaris_pvp_t exports_t:file delete_file_perms;
rpc_writeExports(polaris_pvp_t)
rpc_manage_nfs_state_data(polaris_pvp_t)
kernal_rw_rpc_sysctls(polaris_pvp_t)

# calls 'systemctl reboot'
systemd_start_power_services(polaris_pvp_t)

# pvp on lng attempts to rm readonly fpd firmware file, not sure why
polaris_firmware_getattr(polaris_pvp_t)

# pvp reads /tmp/iosd_level
polaris_lnm_tmp_read(polaris_pvp_t)
allow polaris_pvp_t self:capability dac_override;

# in some image pvp needs to monut /tmp/tdldb, in other images
# it got mount by chasfs_boottime.sh systemd unit
polaris_tldldb_manage_dirs(polaris_pvp_t)
mount_domtrans(polaris_pvp_t)

# in some cases pvp script creates /tmp/xx/process directory
polaris_pman_tmp_filetrans(polaris_pvp_t, dir, "process")
polaris_pman_manage_tmp_files(polaris_pvp_t)

# on ngwc pvp creates /flash1/NVRAM directory
gen_require(
    type polaris_nvram_file_t;
    type root_t;
    )
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "flash1")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)

# obtain access to rommon vars which live in flashlib
polaris_flashlib_read(polaris_pvp_t)
polaris_flashlib_write(polaris_pvp_t)

# on ngwc platforms pvp creates a /obfl_cc directory and soft links it
to the correct vbd device
ifdef(`ngwc_family',`
    gen_require(
        type polaris_obfl_data_t;
        type root_t;
        )
    filetrans_pattern(polaris_pvp_t, root_t, polaris_obfl_data_t, dir, "obfl_cc")
    )
# on ngwc platforms pvp needs to be able to determine if the the vbd devices
# exist. The types may be slightly different depending on whether the cc's
device node is managed by udev or not
ifdef(`ngwc_family',`
    dev_getattr_generic_blk_files(polaris_pvp_t)
    storage_getattr_fixed_disk_dev(polaris_pvp_t)
    udev_read_db(polaris_pvp_t)
    )
# on ngwc platforms pvp soft links the /tmp/sw/cc_srdriver/<slot> directory
to the correct silent roll software package via vbd_sr_app_init()
ifdef(`ngwc_family',`
polaris_sw_data_manage(polaris_pvp_t)
    )
# on blackheart pvp creates /blackheart_config directory
ifdef('blackheart_platform',
    gen_require(
        type polaris_nvram_file_t;
        type root_t;
    )
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "blackheart_config")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
)

# on sparrow pvp creates /sparrow_config directory
ifdef('sparrow_platform',
    gen_require(
        type polaris_nvram_file_t;
        type root_t;
    )
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "sparrow_config")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
)

# on Aventus pvp creates /aventus_config directory
ifdef('aventus_platform',
    gen_require(
        type polaris_nvram_file_t;
        type root_t;
    )
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "aventus_config")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
    fs_manage_configfs_files(polaris_pvp_t)
)

# on utah for cc and on lng cyan_init.sh is executed by pvp
polaris_dyncfg_domtrans(polaris_pvp_t)
# should it not be moved to cyan module or better
# change script to call cyan_init.sh with stdin redirected
# from /dev/null (i.e cyan_init.sh < /dev/null)
    gen_require(
        type polaris_dyncfg_t;
    )
polaris_pvp_stdin_read(polaris_dyncfg_t)

# mktmpfd checks /tmp file system attributes
fs_getattr_tmpfs(polaris_pvp_t)

optional_policy(
    # pvp on nyquist ls /tmp/ufs/crashinfo
    polaris_ncd_tmp_read(polaris_pvp_t)
)
# transition to polaris_load_usbnet_t, once load_usbnet.sh is invoked by pvp
# crankshaft platforms need access to configfs
ifdef('crankshaft_family',
    polaris_load_usbnet_domtrans(polaris_pvp_t)
gen_require(''
    type configfs_t;
')
allow polaris_pvp_t configfs_t:dir getattr;
')

# runs rsync -ptgoDLq /bootflash/installer/issu_crash/fru_crash rsync://rp0-0/bootflash/installer/... rsync_entry_type(type(polaris_pvp_t)
ifdef('ngwc_family',
    polaris_chvrf_domtrans(polaris_pvp_t)
gen_require(''
    type rsync_t;
')
allow rsync_t polaris_pvp_t:process sigchld;

# pvp_tmp file descriptor leaks into mcp_chvrf.sh
gen_require(''
    type polaris_chvrf_t;
    type polaris_pvp_tmp_t;
')
allow polaris_chvrf_t polaris_pvp_tmp_t:fifo_file { ioctl read };')

# statfs64 over /tmp
fs_getattr_xattr_fs(polaris_pvp_t)
polaris_tdlresolve_read(polaris_pvp_t)
corenets_tcp_connect_rsync_port(polaris_pvp_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pvp_t)

# runs over /proc/
kerneld_read_network_state_symlinks(polaris_pvp_t)

# work with mounts
mount_domtrans(polaris_pvp_t)

optional_policy(''
# pvp.sh may mark or clear bits in /proc/exiting_bays
polaris_rw_exiting_bays(polaris_pvp_t)
optional_policy('container_runtime_domtrans(polaris_pvp_t)
')

# LOOK AT ME /usr/binos/conf/dockerd_env.sh not only sets environment
# it also does quite a bit of action in context of pvp when it got
# sourced before dockerd start
optional_policy('fs_getattr_all_fs(polaris_pvp_t)
files_getattr_all_dirs(polaris_pvp_t)
s_read_nsfs_files(polaris_pvp_t)
container_manager_config_files(polaris_pvp_t)
polaris_caf_files_read(polaris_pvp_t)
# creates /var/log/docker/docker.log
logging_manager_generic_logs(polaris_pvp_t)
gen_require('type var_log_t;
')
allow polaris_pvp_t var_log_t:dir create;
')

# support uswap feature.
# pvp script create and deletes
# the /bootflash/.uswap/... folder.
type polaris_uswap_files_t;
files_type(polaris_uswap_files_t)
polaris_pfile_type(polaris_uswap_files_t)
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_uswap_files_t, dir, ".USWAP")
manage_dirs_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_lnk_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)

# support for pvp to create /harddisk/.CRFT directory
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_crft_data_t, dir, ".CRFT")

# Support SAI
type polaris_pvp_sai_t;
files_tmp_file(polaris_pvp_sai_t)
filetrans_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t, dir, "sai_process")
manage_dirs_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)
# all processes controlled by pchort require access to sai files
gen_require('attribute polaris_domain;
')
polaris_pvp_read_sai_files(polaris_domain)
ifdef(`ngwc_family`,

# ngmod_vbd_handle_mount@.service started by pvp on macallan
systemd_config_generic_services(polaris_pvp_t)
')

type polaris_pvp_var_run_t;
files_pid_file(polaris_pvp_var_run_t)
gen_require('  
type var_run_t;
')
manage_files_pattern(polaris_pvp_t, var_run_t, polaris_pvp_var_run_t)
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ".uswap_clr_rp")
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ".uswap_clr_fp")
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ".uswap_clr_cc")

# watch over /tmp/rp/pvp/control
allow polaris_pvp_t polaris_pvp_tmp_t:dir watch;

## permissions required during shutdown

# implode.sh 'systemctl reboot' uses dbus
dbus_system_bus_client(polaris_pvp_t)

# and checks reboot.target
systemd_status_power_services(polaris_pvp_t)

# writes sysctrl_i2c.lck file
gen_require('  
type polaris_cm_rp_tmp_t;
')
files_tmp_filetrans(polaris_pvp_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_pvp_t)

# journalctl and ifconfig are used when gathering logs during a punt-inject
# crash
journalctlDomtrans(polaris_pvp_t)
sysnet_domtrans_ifconfig(polaris_pvp_t)
# and allow it to write to our shutdown log
gen_require('  
type ifconfig_t;
')
polaris_btrace_data_manage_all(ifconfig_t)

# implode.sh checks ip interfaces before ifconfig
polaris_socketat_nsfs_read(polaris_pvp_t)

# cedge uses logrotate
polaris_ripc_confld_ipc_connect(polaris_pvp_t)
# logrotate perms
polaris_confld_var_log_manage(polaris_pvp_t)
allow polaris_pvp_t self:capability { chown fowner };
# var_lib stuff
files_manage_urandom_seed(polaris_pvp_t)

# vconfd_script_admin_tech.sh is invoked by pvp.sh. This requires a domain
# transition from pvp to admin tech context.
polaris_admin_tech_domtrans(polaris_pvp_t)

## systemreport related permissions
# pd_info collection when triggering systemreport
# fdisk permissions
storage_raw_read_fixed_disk( polaris_pvp_t );
fstools_manage_entry_files( polaris_pvp_t );
fstools_exec( polaris_pvp_t );
polaris_rommon_device_read(polaris_pvp_t)
# dmesg writes to pd_info path
write_files_pattern(dmesg_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t )
gen_require(
  type admin_home_t;
')
# top creates/writes dir /.config
allow polaris_pvp_t admin_home_t:dir { add_name create write };
# drop-caches
kernel_rw_vm_sysctls( polaris_pvp_t );

# systemreport collection reads all sorts of files
# but also deletes those files afterwards...
logging_manage_audit_log(polaris_pvp_t)

# report collects maroon data
polaris_maroon_data_manage_all(polaris_pvp_t);
polaris_tdlresolve_manage(polaris_pvp_t);

# collect udev log
polaris_udev_tmp_manage(polaris_pvp_t)

init_status(polaris_pvp_t);

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispvp.te
No license file was found, but licenses were detected in source scan.
policy_module(polaristamdrp, 1.0);

gen_require('  
    type polaris_tamd_rp_t;
  ')

polaris_btrace_data_manage(polaris_tamd_rp_t)
polaris_crft_data_manage(polaris_tamd_rp_t)
polaris_chasfs_manager(polaris_tamd_rp_t)
polaris_tdlresolve_read(polaris_tamd_rp_t)
polaris_tdlmdb_list_dirs(polaris_tamd_rp_t)
polaris_flashlib_read(polaris_tamd_rp_t)
logging_send_syslog_msg(polaris_tamd_rp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_tamd_rp_t)

polaris_cpld_read(polaris_tamd_rp_t)
polaris_cpld_write(polaris_tamd_rp_t)

polaris_quack_dev_use(polaris_tamd_rp_t)

# tmp file for udi authentication
type polaris_tamd_rp_tmp_t;
files_tmp_file(polaris_tamd_rp_tmp_t);
files_tmp_filetrans(polaris_tamd_rp_t, polaris_tamd_rp_tmp_t, file, "tam_uid_validation")
manage_files_pattern(polaris_tamd_rp_t, polaris_tamd_rp_tmp_t, polaris_tamd_rp_tmp_t)
polaris_cm_rp_tmp_manage(polaris_tamd_rp_t)

# hybrid tam needs access to /objstore/swtam
gen_require('  
    type polaris_disk_objstore_t;
    type root_t;
  ')
filetrans_pattern(polaris_tamd_rp_t, root_t, polaris_disk_objstore_t, dir, "objstore")
manage_dirs_pattern(polaris_tamd_rp_t, polaris_disk_objstore_t, polaris_disk_objstore_t)
polaris_disk_objstore_manage(polaris_tamd_rp_t)

# need access to dash fpga to read/write TAM
optional_policy('  
    polaris_dash_dev_use(polaris_tamd_rp_t)
  ')

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#
#access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform`,
    polaris_dash_dev_mcp_use(polaris_tamd_rp_t)
')

allow polaris_tamd_rp_t self:capability net_admin;

# LOOK AT ME tamd_rp needs shell access to do something like this
# sh -c "echo 0x04 > /sys/devices/platform/cpld/reg_rp_reset_control"
# need to rework into simple open,write,close
corecmd_exec_shell(polaris_tamd_rp_t)

# LOOK AT ME access should be restricted after /flash/dummy_check is removed,
# which is tracked under CSCvh68866. Allow access to bootflash till then.
polaris_bootflash_read(polaris_tamd_rp_t)

optional_policy(
    # Allow /dev/dmammap access
    polaris_dmammap_dev_use(polaris_tamd_rp_t)
')

# LOOK AT ME: /dev/mem access restriction
polaris_dev_mem_use(polaris_tamd_rp_t)

optional_policy(
    polaris_ngwc_shm_manage(polaris_tamd_rp_t)
')

optional_policy(
    polaris_remap_mem_dev_use(polaris_tamd_rp_t)
')

polaris_cpld_dev_use(polaris_tamd_rp_t)

optional_policy(
    # allow access to /sys/devices/virtual/misc/ggpio/gpio_out_assert
    polaris_ggpio_dev_read_write(polaris_tamd_rp_t)
')

optional_policy(
    polaris_quake_i2c_manage(polaris_tamd_rp_t)
')

# /dev/aikido access
polaris_aikido_dev_use(polaris_tamd_rp_t)

# tamlib debug file access
polaris_tamlib_dbg_file_manage(polaris_tamd_rp_t)

# tam gpio sysfs access
optional_policy(
  dev_rw_sysfs(polaris_tamd_rp_t)
')

#ifdef('petra_platform',
    #allow access to /dev/i2c-0 for hash value
    polaris_i2c_use(polaris_tamd_rp_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristamdrp.te
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/usr/cpp/bin/cpp_cdm_svr -- gen_context(system_u:object_r:polaris_cpp_cdm_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppcdm.fc
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#
## <summary>Polaris NVRAM Policy Rules.</summary>
### Domain allowed access.
### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### <rolebase/>
#
interface('polaris_nvram_manage',"manage_blk_files_pattern($1, device_t, polaris_nvram_file_t)
manage_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
manage_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')

#######################################
### <summary>
### Read nvram files (location varies by platform)
### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### <rolebase/>
#
interface('polaris_nvram_read',"read_blk_files_pattern($1, device_t, polaris_nvram_file_t)
read_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
read_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')

#######################################
### <summary>
### getattr for nvram files (location varies by platform)
### <param name="domain">
### Domain allowed access.
### </summary>
### <rolebase/>
interface('polaris_nvram_getattr',
gen_require(''
    type polaris_nvram_file_t;
    type device_t;
')

    getattr_blk_files_pattern($1, device_t, polaris_nvram_file_t)
    getattr_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
    getattr_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisnvram.if
No license file was found, but licenses were detected in source scan.

## <summary>Polaris CYAN Policy Rules.</summary>

### <summary>
###Execute dyncfg in the dyncfg domain.
###</summary>
### <param name="domain">
###Domain allowed to transition.
###</param>
#

interface('polaris_dyncfg_domtrans',
gen_require(''
    type polaris_dyncfg_t, polaris_dyncfg_exec_t;
')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_dyncfg_exec_t, polaris_dyncfg_t)
')

## <summary>
## Make the specified domain able to read tmp file created by

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 5871
interface("polaris_dyncfg_tmp_read","
    gen_require("
        type polaris_dyncfg_tmp_t;
        type tmp_t;
    ")

    read_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
    read_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
    allow $1 polaris_dyncfg_tmp_t:file map;

    # need by shell that is called from luajit script
    auth_read_passwd($1)
")

interface("polaris_dyncfg_tmp_manage","
    gen_require("
        type polaris_dyncfg_tmp_t;
        type tmp_t;
    ")

    manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
    manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
    allow $1 polaris_dyncfg_tmp_t:file map;
")
## Effectively one need this if it needs to run dyncfg_db_run_init_script, dyncfg_db_init functions within domain context.

## Note it involves lua execution that leads to execmem. Also lua script may execve shell and some other simple bin processes like mkdir or ln.

### <summary>
### <param name="type">
### Domain allowed access.
### </summary>
### </param>

```c
interface('polaris_dyncfg_setup',

    gen_require(
        type polaris_dyncfg_tmp_t;
        type tmp_t;
    )

    files_tmp_filetrans($1, polaris_dyncfg_tmp_t, dir, "cyan")
    manage_dirs_pattern($1, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
    manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
    manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
    allow $1 polaris_dyncfg_tmp_t:file map;

    # dyncfg_setup calls luajit and luajit needs execute JIT generated code
    allow $1 self:process execmem;

    # LOOK AT ME lua initialization code still uses system function call do some
    # trivial things like mkdir. But because of that we need to grant shell and
    # bin access to all callers of
    corecmd_exec_shell($1)
    corecmd_exec_bin($1)

    # In chassis attrs.lua method THIS.WIRELESS checks whether wireless package is installed
    # by opening (why open, not stat) wnconfig binary.
    optional_policy(
        gen_require(
            type polaris_wncmgrd_exec_t;
            type bin_t;
        )
        read_files_pattern($1, bin_t, polaris_wncmgrd_exec_t)
    )

    # lua code reads /tmp/sw/boot/rmonbifo/boardtype
    polaris_rmonbifo_tmp_read($1)
)
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscyan.if
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#

# polarisnvram file contexts place holder

Found in path(s):

* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisnvram.fc

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

#
# August 2017, Shawn Lu
#
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#

policy_module(polarisodm, 1.0);

gen_require(' type polaris_odm_t;
')

polaris_btrace_data_manage(polaris_odm_t)
polaris_crft_data_manage(polaris_odm_t)
polaris_chasfs_manage(polaris_odm_t)
polaris_tdlresolve_read(polaris_odm_t)
polaris_tdlldb_list_dirs(polaris_odm_t)
polaris_cp.ld_read(polaris_odm_t)
polaris_lua_read(polaris_odm_t)
polaris_flashlib_read(polaris_odm_t)
polaris_ripc_sman_ui_serv_connect(polaris_odm_t)
polaris_db_tdl.db_dir_use(polaris_odm_t)

# allow setrlimit
allow polaris_odm_t self:capability sys_resource;
allow polaris_odm_t self:process setrlimit;
allow polaris_odm_t self:capability dac_override;

# odm_svr2clnt_data uses subdirectory for channels needs explicit rule
# to allow it. ODM elastic value is 2 now, add more if need in the
# future.
gen_require(
    type polaris_odm_server2client_data_mqipc_t;
')
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data-b1)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data-b0)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data)
logging_send_syslog_msg(polaris_odm_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisodm.te
No license file was found, but licenses were detected in source scan.

# August 2017, Shawn Lu
#
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#

policy_module(polarisrifmgr, 1.0);

gen_require(
    type polaris_rif_mgr_t;
')
polaris_btrace_data_manage(polaris_rif_mgr_t)
polaris_crtft_data_manage(polaris_rif_mgr_t)
polaris_chasfs_manage(polaris_rif_mgr_t)
polaris_tdlresolve_read(polaris_rif_mgr_t)
polaris_tdlldb_list_dirs(polaris_rif_mgr_t)
polaris_cpld_read(polaris_rif_mgr_t)
polaris_lua_read(polaris_rif_mgr_t)
polaris_flashlib_read(polaris_rif_mgr_t)
polaris_lfts_dev_use(polaris_rif_mgr_t)
logging_send_syslog_msg(polaris_rif_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_rif_mgr_t)

allow polaris_rif_mgr_t self:capability { sys_nice dac_override };
allow polaris_rif_mgr_t self:process { setsched };
# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_rif_mgr_t)

# work with /dev/hanet device
polaris_hanet_dev_use(polaris_rif_mgr_t)
# update/read chassis serial numer /csl_p_0/vudi.pri
polaris_disk_csl_manage(polaris_rif_mgr_t)

# monitors native interfaces flap over /proc and netlink
kernel_read_network_state(polaris_rif_mgr_t)
allow polaris_rif_mgr_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_rif_mgr_t self:unix_dgram_socket create_socket_perms;

# pidof and /proc usage
dev_read_sysfs(polaris_rif_mgr_t)
kernell_read_system_state(polaris_rif_mgr_t)
domain_read_all_domains_state(polaris_rif_mgr_t)
corecmd_exec_bin(polaris_rif_mgr_t)

kernel_dontaudit_request_load_module(polaris_rif_mgr_t)
# rifmgr creates udp socket to get interface flags in rif_rp_init
allow polaris_rif_mgr_t self:udp_socket create_socket_perms;
corennet_tcp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corennet_tcp_connect_polaris_rif_mgr_port(polaris_rif_mgr_t)
corennet_udp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corennet_udp_bind_generic_node(polaris_rif_mgr_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrifmgr.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris cmm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmm.if
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#
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 5877

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polarisortfiles.fc

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

#
# October 2019, Patrick O'Halloran
#
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#

/usr/binos/conf/mcp_crft_request.sh -- gen_context(system_u:object_r:polaris_crft_request_exec_t,s0)

#NGWC - nyquist, edison, bigbang
/mnt/sd3/user/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/mnt/sd3/user/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/mnt/sd3/user/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)

#NGWC - macallan, starfleet
/flash1/user/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/flash1/user/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/flash1/user/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)

#MCP, QWLC
/vol/harddisk/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/vol/harddisk/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/vol/harddisk/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)

#VXE, WLC, CRANKSHAFT, MCP
/bootflash/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/bootflash/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/bootflash/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)

#CRANKSHAFT - blackheart, sparrow
/flash1/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/flash1/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/flash1/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)

#PETRA - petra
# USER is a reserved selinux keyword - escape it like this
/flash10/USE[R]/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/flash10/USE[R]/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)
/flash10/USE[R]/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscrft.fc
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#  
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#
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#

### <summary>Polaris ncd Policy Rules.</summary>

##########################################################################
### <summary>
### Make the specified domain able to manage tmp file created by
### ncd.sh like /tmp/etc/ncd_work_dir
### </summary>
### <param name="type">
### Domain allowed access.
### </param>

interface(`polaris_ncd_tmp_manage`,
    gen_require(`
        type polaris_ncd_tmp_t;
    `)
    manage_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    manage_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    manage_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    )

##########################################################################
### <summary>
### Make the specified domain able to read tmp file created by
### ncd.sh like /tmp/ufs/crashinfo
### </summary>
### <param name="type">
### Domain allowed access.
### </param>

# interface(`polaris_ncd_tmp_read`,
    gen_require(`
        type polaris_ncd_tmp_t;
    `)
    list_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
read_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
read_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
''

########################################################################
## <summary>
## Make the specified domain able to read etc file created by
## ncd.sh like /etc/conf/unifiedfs/mount_data
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_ncd_etc_read`,
         gen_require(`
                     type polaris_ncd_etc_t;
                   
                   read_files_pattern($1, polaris_ncd_etc_t, polaris_ncd_etc_t)
                   ')
         )

########################################################################
## <summary>
## Execute a domain transition to run ncd.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_ncd_domtrans`,
         gen_require(`
                     type polaris_ncd_t, polaris_ncd_exec_t;
                   
                   domtrans_pattern($1, polaris_ncd_exec_t, polaris_ncd_t)
                   ')
         )

########################################################################
## <summary>
## Execute a domain transition to run unifiedfs_helper.sh.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
### <param>
#
interface('polaris_ufs_helper_domtrans',
    gen_require(
        type polaris_ufs_helper_t, polaris_ufs_helper_exec_t;
    )
)

domtrans_pattern($1, polaris_ufs_helper_exec_t, polaris_ufs_helper_t)
')

#############################################################################
## <summary>
##      Run rpcinfo in a domain, grant proper network permissions.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_ncd_rpcinfo_net',
    corenet_tcp_bind_generic_node($1)
    corenet_tcp_bind_all_rpc_ports($1)
    corenet_tcp_connect_all_rpc_ports($1)
    corenet_tcp_connect_unreserved_ports($1)
    allow $1 self:tcp_socket { bind connect create getattr getopt setopt };

    corenet_udp_bind_generic_node($1)
    corenet_udp_bind_all_rpc_ports($1)
    allow $1 self:udp_socket { bind create getattr getopt setopt };

    corenet_tcp_connect_portmap_port($1)

ifdef('passport_platform',
    # invoked rpcinfo which connects to port 2049 (nfs server)
    # port is incorrectly labelled due to falling in range of TDL define
    # of IOSd gold ripc service
    polaris_ripc_iosd_gold_connect($1)
')

ifdef('starfleet_platform',
    # invoked rpcinfo which connects to port 2049 (nfs server)
    # port is incorrectly labelled due to falling in range of TDL define
    # of IOSd gold ripc service
    polaris_ripc_iosd_gold_connect($1)
')
ifdef('bigbang_platform',
    nfs server port 2049 is labelled as ripc_emd_ui_port_t based on TDL define
    polars_ripc_emd_ui_connect($1)
')

')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisncd.if
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#

policy_module(polars.rollbacktimer, 1.0);

polaris_process_domain_template(rbtimer)

corecmd_exec_bin(polaris_rbtimer_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_rbtimer_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_rbtimer_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_rbtimer_t)

# work with /tmp files
type polaris_rbtimer_tmp_t;
files_tmp_file(polaris_rbtimer_tmp_t)
manage_dirs_pattern(polaris_rbtimer_t, tmp_t, polaris_rbtimer_tmp_t)
manage_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
manage_fifo_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
files_tmp_filetrans(polaris_rbtimer_t, polaris_rbtimer_tmp_t, { file dir })

# work with /bootflash/.rollback_timer (RBT_CONTROL_DIR) file
type polaris_rbtimer_bootflash_t;
polaris_disk_type(polaris_rbtimer_bootflash_t)
polaris_rbtimer_bootflash_manage(polaris_rbtimer_t)

allow polaris_rbtimer_t self:capability sys_resource;
allow polaris_rbtimer_t self:capability dac_override;
allow polaris_rbtimer_t self:process setpgid;

polaris_btrace_data_manage(polaris_rbtimer_t)
polaris_chasfs_manage(polaris_rbtimer_t)
polaris_cpld_read(polaris_rbtimer_t)
polaris_boot_tmp_read(polaris_rbtimer_t)
polaris_read_debug_conf(polaris_rbtimer_t)
polaris_proc_rmonbifo_read(polaris_rbtimer_t)
polaris_rmonbifo_tmp_read(polaris_rbtimer_t)
polaris_disk_crashinfo_getattr(polaris_rbtimer_t)
polaris_disk_harddisk_read_lnk(polaris_rbtimer_t)
polaris_bootflash_manage(polaris_rbtimer_t)

logging_send_syslog_msg(polaris_rbtimer_t)

# uses pidof
domain_read_all_domains_state(polaris_rbtimer_t)
dev_read_sysfs(polaris_rbtimer_t)

#rollbacktimer runs install_engine.sh
polaris_install_engine_domtrans(polaris_rbtimer_t)

polaris_script_errmsg_use(polaris_rbtimer_t)

# watch over /bootflash/rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_bootflash_t:dir watch;
# watch over /tmp/rp/rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_tmp_t:dir watch;

# access to /tmp/ufs//crashinfo
optional_policy(`
polaris_ncd_tmp_read(polaris_rbtimer_t)
`)
# access to read packages.conf
polaris_read_packages_conf(polaris_rbtimer_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_rbtimer_t)

# access to "/bootflash/installer/install_abort_timer_val"
polaris_disk_install_read(polaris_rbtimer_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/selinux-tar/selinux/polarisrollbacktimer.te
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#

### <summary>Polaris ngwc_plfm_mg Policy Rules.</summary>

########################################################################
### <summary>
###      Read /tmp/installer files and directories
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_ngwc_plfm_mgt_tmp',
  gen_require(
    type polaris_ngwc_plfm_mgt_tmp_t;
    
    manage_dirs_pattern($1, polaris_ngwc_plfm_mgt_tmp_t, polaris_ngwc_plfm_mgt_tmp_t)
    manage_files_pattern($1, polaris_ngwc_plfm_mgt_tmp_t, polaris_ngwc_plfm_mgt_tmp_t)
  )
)

Found in path(s):  
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwcplfmmgr.if
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### <summary>Polaris cli_agent Policy Rules.</summary>

Found in path(s):  
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscliagent.if
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#
# July 2020, Victor Kamensky
#
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policy_module(polarishtx, 1.0);

gen_require(
    type polaris_hxt_t;
)
polaris_chasfs_read(polaris_hxt_t)
polaris_cpld_read(polaris_hxt_t)
polaris_tdlresolve_read(polaris_hxt_t)
polaris_ripc_sman_ui_serv_connect(polaris_hxt_t)

logging_send_syslog_msg(polaris_hxt_t)

# LOOK AT ME uses shell and mkdir just to create /tmp/HTX-IOX directory
# should be single mkdir system call, in fact even this may not
# be needed since it is created by system-tempfiles
corecmd_exec_shell(polaris_hxt_t)
corecmd_exec_bin(polaris_hxt_t)
auth_use_nsswitch(polaris_hxt_t)

dev_read_sysfs(polaris_hxt_t)

# create threads
allow polaris_hxt_t self:process setsched;
allow polaris_hxt_t self:capability sys_nice;

optional_policy(
    polaris_qfp_dgram_send(polaris_hxt_t)
)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_hxt_t)

type polaris_hxt_iox_tmp_t;
files_tmp_file(polaris_hxt_iox_tmp_t)
polaris_hxt_iox_tmp_manage(polaris_hxt_t)

# htx logs files like /tmp/nwaas_log_sslproxy.log

type polaris_hxt_tmp_t;
files_tmp_file(polaris_hxt_tmp_t)
polaris_hxt_tmpl_manage(polaris_hxt_t)

# handle /dev/shm/tcpproxy_debug_shm

type polaris_hxt_tmpfs_t;
files_tmpfs_file(polaris htx_tmpfs_t)
fs_tmpfs_filetrans(polaris htx_t, polaris htx_tmpfs_t, file)
fs_getattr_tmpfs(polaris htx_t)
gen_require(
    type tmpfs_t;
)
manage_files_pattern(polaris htx_t, tmpfs_t, polaris htx_tmpfs_t)
allow polaris_htx_t polaris_htx_tmpfs_t:file map;

# work with /tmp/memif
optional_policy(
    polaris_qfp_memif_manage(polaris_htx_t)
)

# sppi_memif
type polaris_sppi_memif_device_t;
dev_node(polaris_sppi_memif_device_t)
polaris_sppi_memif_dev_use(polaris_htx_t)

# packet_socket uinet_if_sppi_channel_init
allow polaris_htx_t self:packet_socket { create_socket_perms recv_msg send_msg};
allow polaris_htx_t self:capability net_raw;

# read and write /bootflash/cacert-ssl.pem
polaris_bootflash_manage(polaris_htx_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarishtx.te
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#

# polariseml file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisemd.fc
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#

# ngio devices
/dev/ngio[0-9]* -c gen_context(system_u:object_r:polaris_ngio_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisiomd.fc
No license file was found, but licenses were detected in source scan.

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#

## <summary>Polaris tamd_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristamdrp.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisreflector, 1.0);

polaris_process_domain_template(reflector)

corecmd_exec_bin(polaris_reflector_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_reflector_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_reflector_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_reflector_t)

# read /etc/hosts file
sysnet_read_config(polaris_reflector_t)
# work with /tmp files

type polaris_reflector_tmp_t;
files_tmp_file(polaris_reflector_tmp_t)
manage_dirs_pattern(polaris_reflector_t, tmp_t, polaris_reflector_tmp_t)
manage_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
manage_fifo_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
files_tmp_filetrans(polaris_reflector_t, polaris_reflector_tmp_t, { file dir })

# reflector can work with droputil tmp files
polaris_droputil_manage_tmp_files(polaris_reflector_t)

#rsync_exec(polaris_reflector_t)
gen_require(
    type rsync_t;
)
rsync_entry_domtrans(polaris_reflector_t, rsync_t)
allow rsync_t polaris_reflector_t:process sigchld;
# upon exec rsync inherits reflector.sh stdout/stderr which are
# polaris_reflector_t fifo_files
allow rsync_t polaris_reflector_t:fifo_file write;

allow polaris_reflector_t self:capability { sys_resource dac_override };
allow polaris_reflector_t self:process setpgid;

polaris_btrace_data_manage(polaris_reflector_t)
polaris_cpld_read(polaris_reflector_t)
polaris_chasfs_manage(polaris_reflector_t)
polaris_boot_tmp_read(polaris_reflector_t)
polaris_read_debug_conf(polaris_reflector_t)
polaris_disk_crashinfo_getattr(polaris_reflector_t)
polaris_monbifo_tmp_read(polaris_reflector_t)

# watch over /tmp/rp/dropbox
polaris_droputil_tmp_watch(polaris_reflector_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
optional_policy(
    polaris_ncd_tmp_read(polaris_reflector_t)
)

# 'rm -rf /tmp/rp/reflector'
fs_getattr_tmpfs(polaris_reflector_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisreflector.te
No license file was found, but licenses were detected in source scan.
policy_module(polariscmcc, 1.0);

gen_require('\n    type polaris_cm_cc_t;
')

polaris_btrace_data_manage(polaris_cm_cc_t)
polaris_crft_data_manage(polaris_cm_cc_t)
polaris_chasfs_manage(polaris_cm_cc_t)
polaris_tdlresolve_read(polaris_cm_cc_t)
polaris_tlddb_list_dirs(polaris_cm_cc_t)
polaris_cpld_read(polaris_cm_cc_t)
polaris_lua_read(polaris_cm_cc_t)
polaris_flashlib_read(polaris_cm_cc_t)
polaris_cpld_dev_use(polaris_cm_cc_t)
polaris_proc_rmonbifo_read(polaris_cm_cc_t)
polaris_ripc_sman_ui_serv_connect(polaris_cm_cc_t)

optional_policy('\n    # access to /dev/iocp0
    polaris_spa_dev_use(polaris_cm_cc_t)
')

optional_policy('\n    # access to /dev/htdb[0-9]*
    polaris_htdp_dev_use(polaris_cm_cc_t)
')

# read /proc/cmdline
kernel_read_system_state(polaris_cm_cc_t)
# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_cc_t)

polaris_obfl_data_read(polaris_cm_cc_t)
# cmcc module as part of init calls cmem_obfl_write_voltage_log(),
# which writes to obfl device.
polaris_obfl_data_manage(polaris_cm_cc_t)
# on vxe platform /obfl is symlink to /varied
ifdef('vxe_family','
polaris_disk_varied_list(polaris_cm_cc_t)
')
# on lng works with /dev/cpld-virtual-cc
polaris_cpp_dev_use(polaris_cm_cc_t)

polaris_i2c_use(polaris_cm_cc_t)
dev_rw_sysfs(polaris_cm_cc_t)

ifdef(`crankshaft_family',`
# read,getattr, map access to /firmware/ files for Switzer-CC
polaris_firmware_read(polaris_cm_cc_t)
polaris_firmware_getattr(polaris_cm_cc_t)
polaris_firmware_map(polaris_cm_cc_t)
')

# allow objstore access
polaris_disk_objstore_read(polaris_cm_cc_t)

# get interface address cmlib_if_config_addr at cman/lib/cmlib_msgs/src/cmlib_eobc.c
allow polaris_cm_cc_t self:udp_socket { create ioctl };

# on utah need to get model info
optional_policy(`
    polaris_dash_dev_use(polaris_cm_cc_t)
')

# access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform',`
    polaris_dash_dev_mcp_use(polaris_cm_cc_t)
')

# access to /dev/nutella_fpga device on nutella platform
optional_policy(`
polaris_nutella_fpga_dev_use(polaris_cm_cc_t)
')

# handle /tmp/pci files on utah
type polaris_pci_tmp_t;
files_tmp_file(polaris_pci_tmp_t)
# /tmp/pci/bus, /tmp/pci/vendor, /tmp/pci/device created by systemd unit
gen_require(`
    type initrc_t;
    type unconfined_service_t;
    type tmp_t;
')
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_pci_tmp_t, dir, "pci")
manage_dirs_pattern(initrc_t, tmp_t, polaris_pci_tmp_t)
manage_files_pattern(initrc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)
manage_files_pattern(polaris_cm_cc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)
logging_send_syslog_msg(polaris_cm_cc_t)

# cmcc module creates the PCI rescan shm mutex.
# /dev/shm/rescan_shm file.
type polaris_cm_cc_tmpfs_t;
files_tmpfs_file(polaris_cm_cc_tmpfs_t)
fs_tmpfs_filetrans(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t, file)
manage_files_pattern(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t)
mmmap_files_pattern(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t)
dev_read_sysfs(polaris_cm_cc_t)
dev_getattr_sysfs_fs(polaris_cm_cc_t)
fs_getattr_tmpfs(polaris_cm_cc_t)

# /tmp/udev-cc should it not be polaris_udev_tmp_t

type polaris_cm_cc_tmp_t;
files_tmp_file(polaris_cm_cc_tmp_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_cm_cc_tmp_t, dir, "udev-cc")
manage_files_pattern(polaris_cm_cc_t, polaris_cm_cc_tmp_t, polaris_cm_cc_tmp_t)
gen_require(
    type tmp_t;
')
manage_dirs_pattern(polaris_cm_cc_t, { tmp_t polaris_cm_cc_tmp_t }, polaris_cm_cc_tmp_t)

# on tsn need access to /dev/moka_fpga
optional_policy(
    polaris_mokafpga_dev_use(polaris_cm_cc_t)
')

optional_policy(
    polaris_sirius_fpga_dev_use(polaris_cm_cc_t)
')

# on macallan need access to /dev/quack
optional_policy(
    polaris_quack_dev_use(polaris_cm_cc_t)
')

polaris_cpld_write(polaris_cm_cc_t)

optional_policy(
    polaris_gettysburg_fpga_dev_use(polaris_cm_cc_t)
')

# /dev/epactrlN on qwlc
optional_policy(
    polaris_epa_dev_use(polaris_cm_cc_t)
)


`) 

# /dev/luna_fpga on qwlc 
optional_policy(' 
polaris_luna_mbfpga_dev_use(polaris_cm_cc_t) 
') 

# /dev/astro on qwlc 
optional_policy(' 
polaris_astro_dev_use(polaris_cm_cc_t) 
') 

# /dev/huron_fpga on Sumatra 
optional_policy(' 
polaris_huron_dev_use(polaris_cm_cc_t) 
') 

type polaris_nim_xxd_tmp_t; 
files_tmp_file(polaris_nim_xxd_tmp_t) 
files_tmp_filetrans(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, file, "nim_xxd_present") 
manage_files_pattern(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, polaris_nim_xxd_tmp_t) 
ifdef(`starfleet_platform', 
  # In cman_cc 
  # cmcc_starfleet_act2_authentication_udi in cman/cc/src/cmcc_starfleet.c 
  # cmcc_starfleet_cpuboard_act2_authentication_udi cman/cc/src/cmcc_starfleet.c 
  # tam_lib_device_open infra/act2/tam_act2/tam_lib/src/tam_lib_device.c: 
  polaris_act2_dev_use(polaris_cm_cc_t) 
') 

ifdef(`crankshaft_family', 
# modprobe sm_nim_adpt.ko for Switzer-CC 
modutils_domtrans_insmod(polaris_cm_cc_t) 
# /dev/sm_nim_adpt device files for Switzer-CC 
polaris_sm_nim_adpt_dev_use(polaris_cm_cc_t) 
') 

# Mapping permission for /dev/shm/<name> 
ifdef(`crankshaft_family', 
gen_require(' 
  type systemd_tmpfiles_t; 
') 
mmap_files_pattern(systemd_tmpfiles_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t) 
') 

# on ngwc cmcc needs to access /dev/chdrvmmmap for asic memory mapping 
optional_policy(' 
polaris_chdrvmmmap_dev_use(polaris_cm_cc_t) 

')
ifdef('vxe_family',

# allow /usr/binos/bin/cmcc to access /tmp/hd_sz
gen_require('type udev_tmp_t;
')
read_files_pattern(polaris_cm_cc_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
fstools_exec(polaris_cm_cc_t)

# using existing interface "polaris_cm_rp_tmp_manage" for polaris_cm_cc_t
# to access /tmp/cmlib_eeprom_sim_smartctl.out
polaris_cm_rp_tmp_manage(polaris_cm_cc_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_cm_rp_tmp_t, file, "cmlib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
dev_nvme_chr_files_manage(polaris_cm_cc_t)
dev_nvme_blk_files_manage(polaris_cm_cc_t)

# access to /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_cc_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmcc.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/usr/binos/conf/issu_stack.sh -- gen_context(system_u:object_r:polaris_issu_stack_exec_t,s0)
/tmp/issu_stk(/.*)? gen_context(system_u:object_r:polaris_issu_stack_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisissustack.fc
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#
# July 2017, Victor Kamensky
#
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#

### <summary>Polaris esg_tamCfg Policy Rules.</summary>

########################################################################
### <summary>
###      Getattr dirs pvp temporary directories in /tmp.
### </summary>
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
### </summary>
### </param>
#
interface('polaris_tam_getattrs_tmp_dirs',
    gen_require(
        type tmp_t;
        type polaris_tam_tmp_t;
    )
)

gattr_dirs_pattern($1, tmp_t, polaris_tam_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisesgtamcfg.if
No license file was found, but licenses were detected in source scan.

#
# July 2020, Swati Kumari
#
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#

policy_module(polarisptpdrv, 1.0);

gen_require(
    type polaris_ptpd_rp_t;
')
polaris_chasfs_read(polaris_ptpd_rp_t)
polaris_cpld_read(polaris_ptpd_rp_t)
polaris_tdlresolve_read(polaris_ptpd_rp_t)
polaris_lsmpli_dev_use(polaris_ptpd_rp_t)
# pt pd needs to have open,read,write access with /dev/ds31408
polaris_ds31408_dev_use(polaris_ptpd_rp_t)

# blzi device
polaris_blzi_dev_use(polaris_ptpd_rp_t)

allow polaris_ptpd_rp_t self:capability sys_nice;
allow polaris_ptpd_rp_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisptpdrp.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

policy_module(polarisissumonitor, 1.0);

########################################################################
# install_issu_monitor
########################################################################
polaris_process_domain_template(issu_monitor)
corecmd_exec_bin(polaris_issu_monitor_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_issu_monitor_t)
polaris_btrace_data_manage(polaris_issu_monitor_t)
polaris_chasfs_manage(polaris_issu_monitor_t)
polaris_cpld_read(polaris_issu_monitor_t)
polaris_proc_rmonbifo_read(polaris_issu_monitor_t)
polaris_boot_tmp_read(polaris_issu_monitor_t)
polaris_read_debug_conf(polaris_issu_monitor_t)

# read and possibly create /bootflash/.installer/issu_crash dir
polaris_bootflash_manage(polaris_issu_monitor_t)

allow polaris_issu_monitor_t self:capability sys_resource;
allow polaris_issu_monitor_t self:process setpgid;

type polaris_issu_monitor_tmp_t;
files_tmp_file(polaris_issu_monitor_tmp_t)
files_tmp_filetrans(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, dir, "issu_mon_dir")
manage_files_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_dirs_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_fifo_files_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)

#access to /tmp/ufs/harddisk
optional_policy(
    polaris_ncd_tmp_read(polaris_issu_monitor_t)
')

# access to /bootflash/installer/issu_crash
polaris_disk_install_read(polaris_issu_monitor_t)

# access to /tmp/sw/boot/rmonbifo/env_var.sh
polaris_rmonbifo_tmp_read(polaris_issu_monitor_t)

# read /proc/cmdline
kernel_read_system_state(polaris_issu_monitor_t)

# rm -rf /tmp/rp/issu_mon_dir
fs_getattr_tmpfs(polaris_issu_monitor_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisissumonitor.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polariskeyman, 1.0);

gen_require(
    type polaris_keyman_t;
')

polaris_btrace_data_manage(polaris_keyman_t)
polaris_crft_data_manage(polaris_keyman_t)
polaris_chasfs_manage(polaris_keyman_t)
polaris_tdlresolve_read(polaris_keyman_t)
polaris_tdldb_list_dirs(polaris_keyman_t)
polaris_flashlib_read(polaris_keyman_t)
polaris_ripc_sman_ui_serv_connect(polaris_keyman_t)
allow polaris_keyman_t self:capability net_admin;
# keyman utilizes secure memory via ciscossl libcrypto.so (mlock)
allow polaris_keyman_t self:capability ipc_lock;
polaris_cpld_read(polaris_keyman_t)

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`quake_platform',`
    dev_read_sysfs(polaris_keyman_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`supernova_platform',`
    dev_read_sysfs(polaris_keyman_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariskeyman.te
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#
# July 2018, Victor Kamensky
#
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#
/tmp/idope_svr  gen_context(system_u:object_r:polaris_fed_debug_sock_t,s0)
/tmp/shfwd_svr  gen_context(system_u:object_r:polaris_fed_debug_sock_t,s0)

/tmp/pktgen.txt gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/tmp/DopeElam.sh gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/tmp/MemDumpElam.sh gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)

/dcmlog.txt  -- gen_context(system_u:object_r:polaris_fed_debug_dcmlog_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwcfeddebug.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris wncd Policy Rules.</summary>
### <summary>
### Read files under /mnt/images/...these are related to AccessPoint images
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_wlc_ap_images_read',
  gen_require(
    type polaris_wlc_ap_images_t;
  )
read_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
read_lnk_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
list_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
allow $1 polaris_wlc_ap_images_t:file map;
')

### <summary>
### Manage files under /mnt/images/...these are related to AccessPoint images
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_wlc_ap_images_manage',
  gen_require(
    type polaris_wlc_ap_images_t;
    type mnt_t;
  )
manage_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_lnk_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
#
filetrans_pattern($1, mnt_t, polaris_wlc_ap_images_t, dir, "images")
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariswned.if
No license file was found, but licenses were detected in source scan.
dnl
July 2020, Victor Kamensky
dnl
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dnl
ISRV Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 3)
max_bay_ripc_map_set(`fp', `global', 0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/isrvmaps.m4
No license file was found, but licenses were detected in source scan.

#
# November 2017, Victor Kamensky
#
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#

# polarisgnmib file contexts place holder
/flash1/gNOI_iosxe_* gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
/bootflash/gNOI_iosxe_* gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
/mnt/sd3/user/gNOI_iosxe_* gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisgnmib.fc
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dnl
April 2018, Victor Kamensky
dnl
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dnl
# polarisvxeipcbaseauto file contexts place holder

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#

/usr/cpp/bin/cpp_sp_svr -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_us_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_vwlc -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppsp.fc
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# OWNERS - Code Ownership
# For information on the purpose and format of this file see:
#
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#

* @csg/polaris-selinux-dev

#iox team related files
polariscontainer*   @csg/polaris-selinux-dev @csg/iox-selinux
polariscraf*        @csg/polaris-selinux-dev @csg/iox-selinux
polarisgsdrp*       @csg/polaris-selinux-dev @csg/iox-selinux
polarisioxman*      @csg/polaris-selinux-dev @csg/iox-selinux
polarisvman*        @csg/polaris-selinux-dev @csg/iox-selinux

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/OWNERS
No license file was found, but licenses were detected in source scan.

# February 2020, Victor Kamensky
#
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## <summary>Polaris cedge Policy Rules.</summary>

------------------------------------------
## <summary>
## Manage /tmp/xml files and directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cedge_xml_tmp_manage',
    gen_require(
        type polaris_cedge_xml_tmp_t;
    )
    manage_dirs_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
    manage_files_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
    files_tmp_filetrans($1, polaris_cedge_xml_tmp_t, dir, "xml")

    allow $1 polaris_cedge_xml_tmp_t:dir { watch mounton ;
    allow $1 polaris_cedge_xml_tmp_t:file map;
    }
)

------------------------------------------
## <summary>
## Manage /tmp/tmp files and directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cedge_tmp_manage',
    gen_require(
        type polaris_cedge_tmp_t;
    )
    manage_dirs_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
    manage_files_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
    files_tmp_filetrans($1, polaris_cedge_tmp_t, dir, "tmp")

    )
## Manage /etc/viptela files and directories

### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>

```
interface('polaris_cedge_etc_manage',
   gen_require(
      type polaris_cedge_etc_t;
   )
manage_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
manage_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
manage_lnk_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
)

```

### Read /etc/viptela files and directories

### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>

```
interface('polaris_cedge_etc_read',
   gen_require(
      type polaris_cedge_etc_t;
   )
search_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
read_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
read_lnk_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
)

```

### Watch cedge_etc directories and files

### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>

```
```

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 5901
#
interface('polaris_cedge_etc_watch',
gen_require(
    type polaris_cedge_etc_t;
    )
    allow $1 polaris_cedge_etc_t:{ dir file } watch;
    )

######################################
## <summary>
##      Read access /var/run/netns/* performed from vip_util_set_ns
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_set_ns',
    init_read_state($1)
    fs_read_nsfs_files($1)
    sysnet_manage_ifconfig_run($1)
    )

######################################
## <summary>
##      Read access /proc/1/ns/net performed from vip_util_reset_ns
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_reset_ns',
    init_read_state($1)
    )

######################################
## <summary>
##      Manage /dev/shm viptela files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_tmpfs_manage','
    gen_require(
        type polaris_cedge_tmpfs_t;
        type tmpfs_t;
    ')
    fs_tmpfs_filetrans($1, polaris_cedge_tmpfs_t, file)
    manage_files_pattern($1, tmpfs_t, polaris_cedge_tmpfs_t)
    allow $1 polaris_cedge_tmpfs_t:file map;
')

######################################
## <summary>
##      Manage /tmp/.econfd2sysmgr-ipc files and directories
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_econfd2sysmgr_tmp_manage','
    gen_require(
        type polaris_econfd2sysmgr_tmp_t;
    ')
    manage_dirs_pattern($1, polaris_econfd2sysmgr_tmp_t, polaris_econfd2sysmgr_tmp_t)
    manage_files_pattern($1, polaris_econfd2sysmgr_tmp_t, polaris_econfd2sysmgr_tmp_t)
    files_tmp_filetrans($1, polaris_econfd2sysmgr_tmp_t, dir, ".econfd2sysmgr-ipc")
    allow $1 polaris_econfd2sysmgr_tmp_t:dir watch;
')

######################################
## <summary>
##      Manage /tmp/* labeled with polaris_vconfd_cert_tmp_t
##             for vconfd_script_upload_root_ca_crt_chain.sh to access
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_vconfd_cert_tmp_manage','
    gen_require(
        type polaris_vconfd_cert_tmp_t;
    ')
    manage_dirs_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
    manage_files_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
policy_module(polarisjvm, 1.0);

gen_require(
  type polaris_jvm_t;
  
)

# access /etc/passwd
auth_use_nsswitch(polaris_jvm_t)

# java through posix_sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_jvm_t)

# checks whether IPV6 is configured accessing /proc/pid/net/if_inet6
kernel_read_network_state(polaris_jvm_t)

# handling ~/.oracle_jre_usage
filetrans_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t, dir, ".oracle_jre_usage")
manage_dirs_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t)
manage_files_pattern(polaris_jvm_t, polaris_jvm_home_t, polaris_jvm_home_t)

# handling /tmp/hsperfdata_root
files_type(polaris_jvm_tmp_t)

gen_require(
  type tmp_t;
  
)
files_tmp_filetrans(polaris_jvm_t, polaris_jvm_tmp_t, dir, "hsperfdata_root")
manage_dirs_pattern(polaris_jvm_t, tmp_t, polaris_jvm_tmp_t)
manage_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)
mmap_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)
# listen on 9093 websocket tcp port
corenet_tcp_bind_polaris_poljvm_websocket_port(polaris_jvm_t)
corenet_tcp_bind_generic_node(polaris_jvm_t)
allow polaris_jvm_t self:tcp_socket create_stream_socket_perms;

# java uses jit and needs executable anonymous mapping
allow polaris_jvm_t self:process execmem;

# Allow JDK access to read cpu and memory utilization data on start up
gen_require(''
  type proc_t;
')

allow polaris_jvm_t proc_t:file { getattr open read };
fs_read_cgroup_files(polaris_jvm_t)
fs_search_cgroup_dirs(polaris_jvm_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisjvm.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

copyright_module(polarisquack, 1.0);

###########################################################################
# Quack Driver policy
###########################################################################

type polaris_quack_device_t;
dev_node(polaris_quack_device_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisquack.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved

dnl
define(`mqipc_interface_map', `defn(format(``mqipc_interface_map[%s]', `$1'))')
define(`mqipc_interface_map_set', `define(format(``mqipc_interface_map[%s]', `$1'), `$2')')

define(`polaris_mqipc_service_server_many',
  `ifelse($3, `',
    polaris_mqipc_create_name(dollarsone, $1, $2),
    polaris_mqipc_create_name(dollarsone, $1, $2-b$3)
  `ifelse($3, 0, `polaris_mqipc_create_name(dollarsone, $1, $2)', `polaris_mqipc_service_server_many($1, $2, eval($3 - 1)))'))')

define(`polaris_mqipc_service_server_aux_full', `dnl
  ########################################
  ## <summary>
  ##	Create $2 mqipc chanell.
  ## </summary>
  ## <param name="domain">
  ##	<summary>
  ##	Domain allowed access.
  ##	</summary>
  ## </param>
  ## <infoflow type="none"/>
  #
  gen_require(``polaris_mqipc_$1_create_name'',``
    type $2;
    ')
    $3
  ')

  ########################################
  ## <summary>
  ##	Use $2 mqipc chanell.
  ## </summary>
  ## <param name="domain">
  ##	<summary>
  ##	Domain allowed access.
  ##	</summary>
  ## </param>
  ## <infoflow type="none"/>
  #
  gen_require(``polaris_mqipc_$1_use'',``
    type $2;
    ')
    polaris_mqipc_use(dollarsone, $2)
  ')
define('polaris_mqipc_service_server_aux','
ifelse(mqipc_interface_map($1), `', `polaris_mqipc_service_server_aux_full($1, $2, $3)')
mqipc_interface_map_set($1, 1)
')

define('polaris_mqipc_service_server','dnl
polaris_mqipc_service_server_aux(mqipc_stem($1), mqipc_label($1),
    polaris_mqipc_service_server_many(mqipc_label($1), $5, max_scope_map($3, $4, $2)))')

define('polaris_mqipc_service_client','

define('polaris_mqipc_service_server_elastic_client','dnl
polaris_mqipc_service_server_aux(mqipc_stem($1), mqipc_label($1),
    polaris_mqipc_service_server_many(mqipc_label($1), $5, max_scope_map($4, elastic, $3)))')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_if.m4
No license file was found, but licenses were detected in source scan.

# # June 2017, Victor Kamensky
# # Copyright (c) 2017-2020 by Cisco Systems, Inc.
# # All rights reserved
#

# polarisioxman file contexts place holder
/usr/binos/conf/shell_exec.sh -- gen_context(system_u:object_r:polaris_iox_shell_exec_t,s0)
/usr/binos/conf/run_ioxn_secure_dir.sh -- gen_context(system_u:object_r:polaris_iox_secure_dir_exec_t,s0)
/bin/cat9k_ssd_auth_cmds.sh -- gen_context(system_u:object_r:polaris_ssd_auth_exec_t,s0)
/tmp/trace/resource.log     -- gen_context(system_u:object_r:polaris_iox_tmp_t,s0)
/tmp/screens(/.*)           -- gen_context(system_u:object_r:screen_var_run_t,s0)
/tmp/.shell_exec(/.*) -- gen_context(system_u:object_r:polaris_iox2iosd_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisioxman.fc
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
#
## <summary>Polaris hm Policy Rules.</summary>

### <summary>
Write into fifo file created by hman, typical case when hman starts script under popen.
</summary>

### <param name="domain">
Domain allowed access.
</param>

interface(`polaris_hman_use_fifo',
  gen_require(`
    type polaris_hm_t;
    ')

  write_fifo_files_pattern($1, polaris_hm_t, polaris_hm_t)
')

### <summary>
Read tmp files created by hman. I.e /tmp/myhostname.
</summary>

### <param name="domain">
Domain allowed access.
</param>

interface(`polaris_hm_tmp_read',
  gen_require(`
    type polaris_hm_tmp_t;
    ')

  read_files_pattern($1, polaris_hm_tmp_t, polaris_hm_tmp_t)
')

### <summary>
Execute pkg_summary.sh in its own domain
interface('polaris_pkg_summary_domtrans',
    gen_require(
        type polaris_pkg_summary_t;
        type polaris_pkg_summary_exec_t;
    )
)

corecmd_search_bin($1)
    domtrans_pattern($1, polaris_pkg_summary_exec_t, polaris_pkg_summary_t)
')

### Execute pkg_to_tree.sh in its own domain

interface('polaris_pkg_to_tree_domtrans',
    gen_require(
        type polaris_pkg_to_tree_t;
        type polaris_pkg_to_tree_exec_t;
    )
)

corecmd_search_bin($1)
    domtrans_pattern($1, polaris_pkg_to_tree_exec_t, polaris_pkg_to_tree_t)
')

### Execute hman in the polaris_cli_fs_cmds domain.


#
interface('polaris_cli_fs_cmds_domtrans',
    gen_require('type polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_exec_t;
')
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_cli_fs_cmds_exec_t, polaris_cli_fs_cmds_t)
')

##########################################
## <summary>
##      Read file /tmp/pkg_summary.txt file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_pkg_summary_tmp_read',
    gen_require('type polaris_pkg_summary_tmp_t;
')
    read_files_pattern($1, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t)
')

##########################################
## <summary>
##      read the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_show_provision_temp_read',
    gen_require('type polaris_show_provision_tmp_t;
')
    read_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
')

##########################################
## <summary>
##      manage the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_show_provision_temp_manage',
#       gen_require(
#               type polaris_show_provision_tmp_t;
#       )
# manage_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
# manage_link_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
# manage_dirs_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
# files_tmp_filetrans($1, polaris_show_provision_tmp_t, { file dir })
# )

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarishm.if
No license file was found, but licenses were detected in source scan.

dnl
dnl May 2019
dnl
dnl Copyright (c) 2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl confined and permissive domain maps
divert(-1)
define('permissive_domain', `defn(format(``permissive_domain[%s]'' , `$1'))')
define('permissive_domain_set', `define(format(``permissive_domain[%s]'' , `$1''), `$2')')

define('confined_domain', `defn(format(``confined_domain[%s]'' , `$1'))')
define('confined_domain_set', `define(format(``confined_domain[%s]'' , `$1''), `$2')')

dnl
dnl list of all subjects that should be in confined mode
dnl
confined_domain_set('polaris_iosd_t', 'polaris_iosd_t')

dnl
dnl list of all subjects that should be placed in permissive mode
dnl
permissive_domain_set('polaris_nginx_t', 'polaris_nginx_t')
permissive_domain_set('polaris_nginx_webui_t', 'polaris_nginx_webui_t')
permissive_domain_set(‘polaris_nginx_webui_install_t’, ‘polaris_nginx_webui_install_t’)
divert(0)dnl

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-selinux/m4/domainmaps.m4
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisoctdplogrp, 1.0);

gen_require(‘
    type polaris_oct_dp_log_rp_t;
’)

polaris_btrace_data_manage(polaris_oct_dp_log_rp_t)
polaris_chasfs_manage(polaris_oct_dp_log_rp_t)
polaris_tdlresolve_read(polaris_oct_dp_log_rp_t)
polaris_tdlldb_list_dirs(polaris_oct_dp_log_rp_t)
polaris_cpld_read(polaris_oct_dp_log_rp_t)
polaris_flashlib_read(polaris_oct_dp_log_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_oct_dp_log_rp_t)

# direct access to serial TTY devices
# (octeon_dp_logger needs to acces /dev/ttyDASH7)
term_open_unallocated_ttys(polaris_oct_dp_log_rp_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-selinux/polarisoctdplogrp.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#
	/tmp/.DMI_FIFO
gen_context(system_u:object_r:polaris_dmi_vtyserverutild_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-selinux/polarisdmivtyserverutild.fc
No license file was found, but licenses were detected in source scan.

# June 2020, Cuiyan Ma
#
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# All rights reserved
#

policy_module(polaris_issu_compcheck, 1.0);
polaris_process_domain_template(issu_comp_check)

corecmd_exec_bin(polaris_issu_comp_check_t)
corecmd_exec_shell(polaris_issu_comp_check_t)
polaris_chasfs_manage(polaris_issu_comp_check_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_issu_comp_check_t)

# For reading tracekey from /tmp/mppub/tracekey_cache/usr/bin/rotee
polaris_btrace_mppub_read(polaris_issu_comp_check_t)

# For reading /sys/devices/platform/cpld/platform_type
polaris_cpld_read(polaris_issu_comp_check_t)

# For reading /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_issu_comp_check_t)

# For ls on /tmp/ufs/crashinfo
optional_policy(`
polaris_ncd_tmp_read(polaris_issu_comp_check_t)
`)

# work with /tmp files

type polaris_issu_comp_check_tmp_t;
files_tmp_file(polaris_issu_comp_check_tmp_t)
manage_dirs_pattern(polaris_issu_comp_check_tmp_t, tmp_t, polaris_issu_comp_check_tmp_t)
manage_files_pattern(polaris_issu_comp_check_tmp_t, polaris_issu_comp_check_tmp_t,
polaris_issu_comp_check_tmp_t)
files_tmp_filetrans(polaris_issu_comp_check_tmp_t, polaris_issu_comp_check_tmp_t, { file dir })

# For using push_using_rsync
polaris_chvrf_domtrans(polaris_issu_comp_check_t)

gen_require(`
    type rsync_t;
`)

rsync_entry_domtrans(polaris_issu_comp_check_t, rsync_t)
polaris_manage_rsync_tmplog_dir(polaris_issu_comp_check_t)

# rsync inherits issu_comp_check.sh's stdout/stderr fifo files
allow rsync_t polaris_issu_comp_check_t:fifo_file write;

allow polaris_issu_comp_check_t self:capability sys_resource;

# reads /tmp/remote_sw_verinfo.txt
gen_require('  
    type rsync_tmp_t;
' )
read_files_pattern(polaris_issu_comp_check_t, rsync_tmp_t, rsync_tmp_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_comp_check_t)

# hwutil modifies /sys/bus/i2c/drivers/pca9548/1-0076/reg_control
# TODO: label sysfs so that reg control gets its own label
dev_rw_sysfs(polaris_issu_comp_check_t)

# allow locking of /tmp/sysctrl_i2c.lck
# TODO: this file probably deserves its own label when created by cm_rp
polaris_cm_rp_tmp_manage(polaris_issu_comp_check_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisissucompcheck.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#

taxpolicy_module(polarisnginx, 1.0);

gen_require('  
    type polaris_nginx_t;
' )
polaris_btrace_data_manage(polaris_nginx_t)
polaris_chasfs_manage(polaris_nginx_t)
polaris_tdlresolve_read(polaris_nginx_t)
polaris_tdldb_list_dirs(polaris_nginx_t)
polaris_cpld_read(polaris_nginx_t)
polaris_lua_read(polaris_nginx_t)
polaris_flashlib_read(polaris_nginx_t)
polaris_crft_data_manage(polaris_nginx_t)

polaris_ripc_sman_ui_serv_connect(polaris_nginx_t)

polaris_lua_read(polaris_nginx_t)
polaris_disk_harddisk_read_lnk(polaris_nginx_t)

allow polaris_nginx_t self:tcp_socket { bind create listen accept setopt getsockopt shutdown};
allow polaris_nginx_t self:capability2 block_suspend;
allow polaris_nginx_t self:capability { setgid setuid sys_resource };
polaris_lfts_dev_use(polaris_nginx_t)
logging_send_syslog_msg(polaris_nginx_t)
corenets_tcp_connect_http_port(polaris_nginx_t)
corenets_tcp_bind_generic_node(polaris_nginx_t)
corenets_tcp_bind_http_port(polaris_nginx_t)
corenets_tcp_connect_pkiserver_port(polaris_nginx_t)

# FIXME: allow bind to port 1025-65535

corenets_tcp_bind_all_ports(polaris_nginx_t)

# Allow the nginx to search/read the web servers config files
apache_read_config(polaris_nginx_t)
apache_search_config(polaris_nginx_t)

# allow read httpd_sys_content_t (/var/www/...)
apache_read_sys_content(polaris_nginx_t)
gen_require(
    type httpd_var_run_t;
    type syslogd_var_run_t;
')
setattr_dirs_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_files_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_sock_files_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
files_pid_filetrans(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t, { file sock_file dir unix_stream_socket })
polaris_socketat_nsfs_read(polaris_nginx_t)

# socketat does setsockopt SO_VRF
allow polaris_nginx_t self:capability net_admin;
auth_use_nsswitch(polaris_nginx_t)

allow polaris_nginx_t tmp_t:dir create_dir_perms;
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "ngx_access.log")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "ngx_error.log")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.pid")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.accept")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.cookie_tbl")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.login_count")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "openresty.log")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "ngxcsrf.log")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "ngxtest.log")
create_dirs_pattern(polaris_nginx_t, httpd_log_t, httpd_log_t)
manage_files_pattern(polaris_nginx_t, httpd_log_t, httpd_log_t)
apache_read_log(polaris_nginx_t)
apache_write_log(polaris_nginx_t)

polaris_restconf_tmp_use(polaris_nginx_t)
dev_read_sysfs(polaris_nginx_t)

# dev/zram0 needs fs_t:filesystem getattr
ifdef('quake_platform',
    fs_getattr_xattr_fs(polaris_nginx_t)
')

type polaris_nginx_tmp_t;
files_tmp_file(polaris_nginx_tmp_t)
manage_files_pattern(polaris_nginx_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_dirs_pattern(polaris_nginx_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_aaa")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_master")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_session")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "ciscosdwan.cfg")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "proxy_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "client_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "fastcgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "scgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "uwsgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "pki")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "auth")
polaris_restconf_read(polaris_nginx_t)

# webui_helper.sh/webui_helper_upgrade.sh

polaris_process_domain_template(nginx_webui)
polaris_process_domain_template(nginx_webui_install)
polaris_nginx_exec_domain(polaris_nginx_webui_t, polaris_nginx_webui_exec_t)
polaris_nginx_exec_domain(polaris_nginx_webui_install_t, polaris_nginx_webui_install_exec_t)

corecmd_exec_bin(polaris_nginx_webui_t)
corecmd_exec_bin(polaris_nginx_webui_install_t)
# allow read of /etc/passwd
auth_use_nsswitch(polaris.nginx_webui_t)
auth_use_nsswitch(polaris.nginx_webui_install_t)

# allow polaris.nginx_webui_t/polaris.nginx_webui_install_t access to nginx webui /tmp base folder
# /tmp/nginx/webui_tmp
manage_files_pattern(polaris.nginx_webui_t, polaris.nginx_tmp_t, polaris.nginx_tmp_t)
manage_files_pattern(polaris.nginx_webui_install_t, polaris.nginx_tmp_t, polaris.nginx_tmp_t)

# allow polaris_file_transfer_client_t to access nginx webui /tmp base folder
# /tmp/nginx/webui_tmp. We also need to allow chvrf to use the FIFO in cases
# where we use the VRF interface

gen_require(
  type polaris_file_transfer_client_t;
  type polaris_chvrf_t;
)
manage_files_pattern(polaris_file_transfer_client_t, polaris.nginx_tmp_t, polaris.nginx_tmp_t)
manage_fifo_files_pattern(polaris_file_transfer_client_t, polaris.nginx_t, polaris.nginx_t)
manage_fifo_files_pattern(polaris_chvrf_t, polaris.nginx_t, polaris.nginx_t)

# fts_client binary requires access to chassis, tdlresolve and cpld
polaris.tdlresolve_read(polaris_file_transfer_client_t)
polaris.chasfs_manage(polaris_file_transfer_client_t)
polaris.cpld_read(polaris_file_transfer_client_t, polaris.sysfs_cpld_t, polaris.sysfs_cpld_t)

gen_require(
  type polaris_file_transfer_client_exec_t;
)
polaris.bexecute_domain(polaris_file_transfer_client_t, polaris_file_transfer_client_exec_t)

type polaris_fts_client_tmp_t;
files_tmp_file(polaris_fts_client_tmp_t)
polaris_fts_client_tmp_manage(polaris_file_transfer_client_t)

# on ultra /var/www directory created by systemd unit that runs /mount_packages.sh
# under unconfined_service_t domain

gen_require(
  type unconfined_service_t;
)
files_var_filetrans(unconfined_service_t, httpd_sys_content_t, dir, "www")

allow polaris.nginx_t self:capability dac_override;

# iox local mgr in webui connects to caf service on port 8098
corenent_tcp_connect_polaris_caf_api_port(polaris.nginx_t)

# IOx downloads the application package using network protocol (e.g http)
gen_require("
type fifo_var_run_t;
)
allow polaris_file_transfer_client_t fifo_var_run_t:fifo_file read;

# webui connects to dbm backend service on port 9090
corennet_tcp_connect_polaris_wnc_mgrd_port(polaris_nginx_t)

# webui connects to poljvm service on port 9093
corennet_tcp_connect_polaris_poljvm_websocket_port(polaris_nginx_t)

# remote docker workflow
corennet_tcp_connect_us_cli_port(polaris_nginx_t)

# webui sw mgmt app which does install and smu, invokes webui helper shell
# scripts which inturn invoke installer scripts. Hence need to provide transition
# rule to polaris_install_engine_t domain
polaris_install_engine_domtrans(polaris_nginx_webui_install_t)
polaris_install_show_domtrans(polaris_nginx_webui_install_t)

# Allow pipe operations during install command invocation
polaris_nginx_manage_fifo_files(polaris_bexecute_t)
polaris_nginx_manage_fifo_files(polaris_code_verify_t)
polaris_nginx_manage_fifo_files(polaris_install_engine_t)
polaris_nginx_manage_fifo_files(polaris_install_show_t)
polaris_nginx_manage_fifo_files(rsync_t)

# During install-add via WebUI, code_sign_verify generates a file:map denial
# "/usr/bin/code_sign_verify package
# /tmp/patch/smus/10_vwlc_apsp_ap3g3_17.6.bin/mount/C9800-CL-mono-patch.2021-01-11_11.31_radonep"
require {
    type etc_runtime_t;
}
allow polaris_code_verify_t etc_runtime_t:file map;

# Provide sys_resource capability to webui install scripts for sys_pipe calls.
allow polaris_nginx_webui_install_t self:capability sys_resource;

# nginx/webui File-manager app provides bootflash file-mgmt facility.
# as part of this it needs RW access to bootflash.
# TODO: Bug CSCvp83328 to isolate the access to another utility, which
# can have its own domain and nginx_t can transition to it.
polaris_bootflash_manage(polaris_nginx_t)

# allow nginx to manage core files
polaris_core_file_manage(polaris_nginx_t)

# luajit module for nginx triggers execmem denial due to mprotect call.
# TODO: cdets CSCvp70095 is used to track this vulnerability in
# current nginx component.
allow polaris_nginx_t self:process execmem;

# FIXME : allow shell/binary execution
# Elevated privilege needs to be addressed
# Tracked by Bugid : CSCvp93448
corecmd_exec_bin(polaris_nginx_t)
corecmd_exec_shell(polaris_nginx_t)

#FIXME
# Need to re-evaluate these privileges
# Tracked by Bugid : CSCvp92908, CSCvt81963(fts_client)
polaris_file_transfer_client_domtrans(polaris_nginx_webui_install_t)

# nginx need access btrace fifo file:
polaris_use_btrace_fifo(polaris_nginx_t)
gen_require('  
  type proc_t;
')
manage_files_pattern(polaris_nginx_t, polaris_nginx_t, polaris_nginx_t)
allow polaris_nginx_t proc_t:filesystem { associate };
# nginx needs access to /dev/stdout which is owned by pman
allow polaris_nginx_t polaris_pman_t:fifo_file open;

############################################################################
# aireos_translate_helper.sh
# Invokes a python library that converts aireos config to ewlc config.
############################################################################
type polaris_aireos_translator_scripts_t;
files_type(polaris_aireos_translator_scripts_t)
polaris_process_domain_template(nginx_webui_aireos_translator)
polaris_nginx_exec_domain(polaris_nginx_webui_aireos_translator_t,
polaris_nginx_webui_aireos_translator_exec_t)
allow polaris_nginx_t polaris_aireos_translator_scripts_t:dir { getattribute open read search };
allow polaris_nginx_t polaris_aireos_translator_scripts_t:file { getattribute ioctl open read };
allow polaris_nginx_t polaris_nginx_webui_aireos_translator_exec_t:file ioctl;
allow polaris_nginx_t self:process setfscreate;
files_list_var(polaris_nginx_t)

############################################################################
# ra_trace_webui_helper.sh
# Invokes mcp_trace_filter.sh to perform radio active tracing.
############################################################################
polaris_process_domain_template(nginx_webui_trace_filter)
polaris_nginx_exec_domain(polaris_nginx_webui_trace_filter_t, polaris_nginx_webui_trace_filter_exec_t)
corecmd_exec_bin(polaris_nginx_webui_trace_filter_t)
manage_files_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_dirs_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
auth_use_nsswitch(polaris_nginx_webui_trace_filter_t)
polaris_trace_filter_domtrans(polaris_nginx_webui_trace_filter_t)
polaris_nginx_manage_fifo_files(polaris_trace_filter_t)

#########################################################################
# nginx_helper.sh
#nginx show command helper run by pman invoking curl
#########################################################################
polaris_utility_domain_template(nginx_helper)
polaris_pman_entry(polaris_nginx_helper_t, polaris_nginx_helper_exec_t)

#allow execution of nginx_helper.sh
corecmd_exec_bin(polaris_nginx_helper_t)

#allow read of /etc/passwd
auth_use_nsswitch(polaris_nginx_helper_t)

#allow access to the tmp fifo file
polaris_use_btrace_fifo(polaris_nginx_helper_t)

# nginx_helper.sh reads from chasfs
polaris_chasfs_manage(polaris_nginx_helper_t)

gen_require(`
  type polaris_curl_t;
`)

# allow execution of /usr/bin/curl on the pkiserver port
polaris_curl_domtrans(polaris_nginx_helper_t)
corenent_tcp_connect_pkiserver_port(polaris_curl_t)

#allow curl to write into chasfs
polaris_chasfs_manage(polaris_curl_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisnginx.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarissortfiles, 1.0);

gen_require(`
type polaris_sort_files_t;
')
corecmd_exec_bin(polaris_sort_files_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_sort_files_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_sort_files_t)

polaris_btrace_data_manage(polaris_sort_files_t)
polaris_chasfs_manage(polaris_sort_files_t)
polaris_rmonbifo_tmp_read(polaris_sort_files_t)
polaris_read_debug_conf(polaris_sort_files_t)
polaris_persistent_getattr(polaris_sort_files_t)
polaris_persistent_list_dirs(polaris_sort_files_t)
polaris_cpld_read(polaris_sort_files_t)
polaris_capsule_upgrade_log_use(polaris_sort_files_t)
optional_policy('polaris_gnmib_gnoi_images_read(polaris_sort_files_t)
')

# Dontaudit /bootflash/#lost+found avc denials
dontaudit polaris_sort_files_t polaris_disk:chr_file { getattr };
dontaudit polaris_sort_files_t polaris_disk:blk_file { getattr };

#allow polaris_sort_files_t polaris_udev_tmp_files_t:dir { getattr search };
polaris_udev_tmp_list_dirs(polaris_sort_files_t)

optional_policy('polaris_iox_dir_list(polaris_sort_files_t)
')
polaris_sandbox_file_dir_list(polaris_sort_files_t)
polaris_disk_bootflash_readmlink(polaris_sort_files_t)
polaris_disk_bootflash_fifo_file_getattr(polaris_sort_files_t)
polaris_disk_bootflash_sock_file_getattr(polaris_sort_files_t)

# allow search and read under /tmp/boot directory
polaris_boot_tmp_read(polaris_sort_files_t)

#allow manage the files under /tmp/sort
type polaris_sort_files_tmp_t;
files_tmp_file(polaris_sort_files_tmp_t)
files_tmp_filetrans(polaris_sort_files_t, polaris_sort_files_tmp_t, file)
manage_files_pattern(polaris_sort_files_t, polaris_sort_files_tmp_t, polaris_sort_files_tmp_t)

# for pluggable FS, allow sort to access files on them.
polaris_getattr_removable(polaris_sort_files_t)
polaris_removable_manage(polaris_sort_files_t)
fs_read_removable_symlinks(polaris_sort_files_t)

# to look at files sort_file sometime needs to violate DAC permissions
allow polaris_sort_files_t self:capability dac_read_search;

optional_policy(')
# LOOK AT ME memif sock_file interface present in /bootflash as
# /bootflash/SHARED-IOX/memif/memif-dp-svr, since class of the
# object is sock_file adding it to polaris_disk does not make much
# sense
gen_require('  
    type polaris_qfp_memif_t;
  ')  
getattr_sock_files_pattern(polaris_sort_files_t, polaris_qfp_memif_t, polaris_qfp_memif_t)
')

# find runs fstatfs
fs_getattr_xattr_fs(polaris_sort_files_t)

# allow polaris_sort_files_t fs_t:filesystem getattr
fs_getattr_all_fs(polaris_sort_files_t)

# with "/bootflash"...this needs attr to access for logfile
polaris_user_file_getattr(polaris_sort_files_t)

optional_policy(')
gen_require('  
    type polaris_efi_files_t;
  ')  
#find /bootflash/ -printf %i %p
allow polaris_sort_files_t polaris_efi_files_t:dir { getattr open read search };

#stat -c %i %f %s %n /bootflash/EFI/UpdateCapsule/UpdateCapsuleFile.bin
allow polaris_sort_files_t polaris_efi_files_t:file getattr;
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissortfiles.te
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#
# March 2017, Victor Kamensky
#
policy_module(polarissifmgr, 1.0);

gen_require('  
    type polaris_sif_mgr_t;
')

polaris_btrace_data_manage(polaris_sif_mgr_t)
polaris_crft_data_manage(polaris_sif_mgr_t)
polaris_chasfs_manage(polaris_sif_mgr_t)
polaris_tdlresolve_read(polaris_sif_mgr_t)
polaris_tdlldb_list_dirs(polaris_sif_mgr_t)
polaris_cpld_read(polaris_sif_mgr_t)
polaris_lua_read(polaris_sif_mgr_t)
polaris_flashlib_read(polaris_sif_mgr_t)

#if romvar is not set, Set Rommon env varaible needs write permission
polaris_flashlib_write(polaris_sif_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_sif_mgr_t)

corecmd_exec_bin(polaris_sif_mgr_t)
corecmd_exec_shell(polaris_sif_mgr_t)

#if allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_sif_mgr_t)

#if allow to read /proc/mtd
kernel_read_system_state(polaris_sif_mgr_t)

#if allow write /proc/dplr_sesa
optional_policy('  
    polaris_proc_sesa_create_write(polaris_sif_mgr_t)
')

#if access SERDES /tmp/serdes_asic_key_dir/*
polaris_serdes_asic_key_tmp_manage(polaris_sif_mgr_t)

#if allow read/write to /proc/irq/N/irq files
kernel_rw_irq_sysctls(polaris_sif_mgr_t)

#if work with /tmp files (/tmp/sm_post_result)
type polaris_sif_mgr_tmp_t;
files_tmp_file(polaris_sif_mgr_tmp_t)
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sm_post_result")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "fips_status")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sif_regdump_0")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sif_regdump_1")
manage_files_pattern(polaris_sif_mgr_t, tmp_t, polaris_sif_mgr_tmp_t)
polaris_cm_rp_tmp_manage(polaris_sif_mgr_t)

#allow ipc_lock when mmap64(..) a shared mememoy with MAP_LOCKED in dplr_pkt_drv_oob.c
allow polaris_sif_mgr_t self:capability { ipc_owner dac_override ipc_lock };

#allow read from /tmp/hw_entropy
polaris_hw_entropy_read(polaris_sif_mgr_t)
polaris_obfl_data_manage(polaris_sif_mgr_t)

#/dev/dplr_intrpt usage
polaris_dplr_dev_use(polaris_sif_mgr_t)

#/dev/dmammap usage
polaris_dmammap_dev_use(polaris_sif_mgr_t)

#/dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_sif_mgr_t)
polaris_lsmpi_dev_use(polaris_sif_mgr_t)

#/open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_sif_mgr_t)
polaris_socketat_nsfs_read(polaris_sif_mgr_t)

allow polaris_sif_mgr_t self:process setsched;

#/ work with /dev/msi/Slot0/Doppler0/GroupN files
dev_rw_generic_chr_files(polaris_sif_mgr_t)
#/ /dev/msi/Slot0/Doppler0/GroupN gets polaris_dplr_device_t label
# at some point, but need above generic chr permision by some
# reason, not clear need to look a bit more
polaris_dplr_dev_use(polaris_sif_mgr_t)

#/ set out of band interface mac set_oobndif_mac
allow polaris_sif_mgr_t self:tcp_socket ioctl;

#/ LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_sif_mgr_t)

#/ /dev/shm/sdm access
optional_policy(`
polaris_sdm_shm_manage(polaris_sif_mgr_t)
')

# LOOK AT ME: unsolicited creation of file in /bootflash
# by CSCvm43512. Backout when CSCvm99282 is fixed
polaris_bootflash_manage(polaris_sif_mgr_t)
polaris_disk_bootflash_read_lnk(polaris_sif_mgr_t)

optional_policy(^
    polaris_quake_i2c_manage(polaris_sif_mgr_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef('quake_platform',^
    dev_read_sysfs(polaris_sif_mgr_t)
')

optional_policy(^
polaris_ngwc_scc_shm_manage(polaris_sif_mgr_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissifmgr.te
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#
# August 2017, Shawn Lu
#
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#

# polarissrmmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissrmmgr.fc
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#
# December 2019, Victor Kamensky
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### <summary>Polaris service_mgr Policy Rules.</summary>

Found in path(s):
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#
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#

policy_module(polarispman, 1.0);

polaris_process_domain_template(pman)

# reassess all permissions granted here for new pman
# - do we clone this domain to pmanc, or replace it?

gen_require('  
type polaris_psvp_t;  
    type polaris_pvp_t;  
  )

corecmd_exec_bin(polaris_pman_t)
corecmd_exec_shell(polaris_pman_t)
# can execute process in polaris domain
polaris_exec(polaris_pman_t)

# LOOK AT ME start-stop-daemon from busy box iterates all
# /proc/<pid> directories and reads /proc/<pid>/cmdline
# /proc/<pid>/exe. I.e it need quite a bit of priviledges
domain_read_all_domains_state(polaris_pman_t)

# pman wants to write to /proc/<pid>/oom_adj of each process
# it started. Now oom_adj is under label of process that owns
# it, so for now let pman to be able to write into any file
# in polaris_domain. Latter try to clean it up by transitioning
# oom_adj into separate domain?
gen_require('    attribute polaris_domain;  
  )
manage_files_pattern(polaris_pman_t, polaris_domain, polaris_domain)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_pman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pman_t)
# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_pman_t)

# read /proc/sys/vm/hr_hugepages
kernel_read_vm_sysctls(polaris_pman_t)

# read/write cgroups files
fs_rw_cgroup_files(polaris_pman_t)

dmidecode_domtrans(polaris_pman_t)

allow polaris_pman_t self:capability { sys_nice sys_resource dac_override sys_rawio sys_admin };

polaris_btrace_data_manage(polaris_pman_t)
polaris_chasfs_manage(polaris_pman_t)
polaris_cpld_read(polaris_pman_t)
ifdef('ngwc_family','
polaris_cpld_write(polaris_pman_t)
')
polaris_proc_rmonbifo_read(polaris_pman_t)
polaris_rmonbifo_tmp_read(polaris_pman_t)
polaris_boot_tmp_read(polaris_pman_t)
polaris_read_debug_conf(polaris_pman_t)
polaris_disk_crashinfo_getattr(polaris_pman_t)

# work with /tmp files
type polaris_pman_tmp_t;
files_tmp_file(polaris_pman_tmp_t)
manage_dirs_pattern(polaris_pman_t, tmp_t, polaris_pman_tmp_t)
manage_files_pattern(polaris_pman_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
manage_fifo_files_pattern(polaris_pman_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
files_tmp_filetrans(polaris_pman_t, polaris_pman_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "process")
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "pman_ports")

# pcohort reads files in /tmp/rp/process directory
gen_require(' 
    attribute polaris_extended_domain;
')
read_files_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)
list_dirs_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)

# bash needs setpgid in its make_child function
allow polaris_pman_t self:process { setpgid };

# pmanlite uses getsid
allow polaris_pman_t self:process { getsession };

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 5927
# pman call renice utility to change process nice level
allow polaris_pman_t self:process { setsched }

# pman needs to work with pvp tmp files
polaris_pvp_manage_tmp_files(polaris_pman_t)

# on ultra pman waits for /tmp/cpp_ifdev_rep pipes appearence before
# proceeding further before it starts iosd
optional_policy(
  polairis_cpp_tmp_ifdev_getattr(polaris_pman_t)
)

# /tmp/vxe_uode_image created by some systemd units and accessed
# by pman, lets transition it into polaris_pman_tmp_t domain
gen_require(
  type initrc_t;
  type init_t;
)
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "vxe_uode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "wlc_uode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "utah_uode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "fugazi_uode_image")

# pman needs to manage cgroups membership of different processes
# See move_to_cgroup pman function. It needs setsched permission
domain_setpriority_all_domains(polaris_pman_t)

# pman.sh can call logger command
logging_send_syslog_msg(polaris_pman_t)

# pman can receive signals from any polaris domain process
polaris_receive_signal_from_domain(polaris_pman_t)

# pman.sh calls pidof command (similar to ps)
# pidof needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_pman_t)
# pidof commands wants sys_ptrace
allow polaris_pman_t self:capability sys_ptrace;

# pman can send signal to anything
domain_signal_all_domains(polaris_pman_t)

# pmanlite can getpgid to its child group processes
domain_getpgid_all_domains(polaris_pman_t)

# pmanlite uses killpg(child pid,SIGNULL) to test its child processes
domain_signull_all_domains(polaris_pman_t)

term_use_unallocated_ttys(polaris_pman_t)
optional_policy(
    polaris_repm_tmp_manage(polaris_pman_t)
)

optional_policy(
    # pman on nyquist ls /tmp/ufs/crashinfo
    polaris_ncd_tmp_read(polaris_pman_t)
)

# runs find over /proc
kernel_getattr_proc(polaris_pman_t)

# PLEASE LOOK AT ME: pman removes /tmp/subpkg directory after CSCvm14562 commit
# back out and change properly after CSCvm51181 is fixed
polaris_install_tmp_manage(polaris_pman_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr__tmpfs(polaris_pman_t)
fs_getattr_xattr_fs(polaris_pman_t)

# domain for gdbserver started by pman
polaris_utility_domain_template(gdb)

domtrans_pattern(polaris_pman_t, polaris_gdb_exec_t, polaris_gdb_t)

# pman starts gdbserver with stdout pointing to btrace fifo
polaris_use_btrace_fifo(polaris_gdb_t)

# gdbserver reads /proc/$pid/exe of a process it gets attached to.
# Allow to read state of all processes for now.
domain_read_all_domains_state(polaris_gdb_t)

# allow gdbserver to bind to all unreserved ports for now
corenets_tcp_bind_unreserved_ports(polaris_gdb_t)
corenets_tcp_bind_generic_node(polaris_gdb_t)

allow polaris_gdb_t self:process { ptrace setpgid };
allow polaris_gdb_t self:tcp_socket { accept bind create getattr listen setopt };

# pman update iosxe_control_processes/iosxe_mgmt_processes/tasks
fs_manage_cgroup_dirs(polaris_pman_t)
fs_manage_cgroup_files(polaris_pman_t)

optional_policy(
    container_runtimeDomtrans(polaris_pman_t)
)
# pman calls show_version for dockerd executable
optional_policy(
    polaris_container_runtime_show_version(polaris_pman_t)
)

# needs to access nsfs file during killall invocation
fs_read_nsfs_files(polaris_pman_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pman_t)

# runs over /proc/<pid>/net/stat
kernel_read_network_state_symlinks(polaris_pman_t)

# runs over /proc/<pid>/net/rpc
kernel_read_rpc_sysctls(polaris_pman_t)

# LOOK AT ME: why pman doing it
# from mgmt/confd/confd/sec/confd_startup_sh_post_exit.sh archive_errlog function
polaris_btrace_persistent_data_manage(polaris_pman_t)
polaris_confd_log_manage(polaris_pman_t)
allow polaris_pman_t self:process setfscreate;

# access /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_pman_t)

# /usr/binos/conf/umbrella_init.sh that runs under pman
# copies into /bootflash/ios_core.p7b
polaris_bootflash_manage(polaris_pman_t)

optional_policy(
# we may write bits to the exiting_bays file in /proc
polaris_rw_exiting_bays(polaris_pman_t)
)

ifdef(`ngwc_family`,
# linux_iosd_image_post_exit.sh restores the slot-based address
# for the management ethernet should be restored on dual RP system.
polaris_chvrf_domtrans(polaris_pman_t)
sysnet_domtrans_ifconfig(polaris_pman_t)

# For use of flashutil preparing for reload
polaris_flashlib_read(polaris_pman_t)
polaris_flashlib_write(polaris_pman_t)
')

# File description leaks for TDL db lock files as processes are managed by
# pman.
# TODO Eventually these fd leaks should be fixed in the calling processes
#
# Note that TDL db lock file interfaces are typically generated by TDL and
# are not found in our local .if files
polaris_tdlresolve_read(polaris_pman_t)
polaris_db_tdlmdb_ios_oper_use(polaris_pman_t)

ifdef(`nyquist_platform',`
polaris_db_tdlmdb_ewlc_operational_use(polaris_pman_t)
polaris_db_tdlmdb_rogued_use(polaris_pman_t)
polaris_db_tdlmdb_ewlc_config_use(polaris_pman_t)
polaris_db_tdlmdb_wstatsd_use(polaris_pman_t)
polaris_db_tdlmdb_client_global_use(polaris_pman_t)
')

# delete /tmp/booted from linux_iosd_image_post_exit.sh when iosd goes down.
# For example: preparing for reload.
gen_require(`
    type polaris_iosd_tmp_files_t;
')
allow polaris_pman_t polaris_iosd_tmp_files_t:file { delete_file_perms open };;

# Upon exit of a process, pman needs to remove sai directory and files
# associated with the process
polaris_pvp_delete_sai_files(polaris_pman_t)
#rsync port want to establish Tcp connection
# runs over /usr/bin/rsync
corenetscp_node_connect_rsync_port(polaris_pman_t)
rsync_entry_type(polaris_pman_t)

ifdef(`crankshaft_family',`
# Provide process signal perms to pman.
polaris_caf_proc_signal_perms(polaris_pman_t)
')

# open connections from processes managed by pman can leak. The selinux
# errors associated with these typically come from a forked and renamed
# elastic process like wncd_0. During process forking/startup, node
# binds may cause denials as they are brought up by pman
ifdef(`ngwc_family',`
corenetscp_node_bind_generic_node(polaris_pman_t)
corenetscp_udp_node_bind_generic_node(polaris_pman_t)
corenetscp_node_connect_lisp_cons_control_port(polaris_pman_t)
')

# pman can stop itself on reload
allow polaris_pman_t self:capability kill;
# For pmanlite, allow pman's grand-children rsync to be able to operate on pipe created by pman.
gen_require(''
    type rsync_t;
')
polaris_use_pman_fifo(rsync_t)

ifdef('sumatra_platform';'
    # Allow pman to execute cman_fp in the polaris_cm_fp_t domain
    polaris_cm_fp_domtrans(polaris_pman_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispman.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#

policy_module(polariscrankshaft, 1.0);

# spa devices i.e sys_platform_module_1ng
type polaris_spa_device_t;
dev_node(polaris_spa_device_t)

# htdp device
type polaris_htdp_device_t;
dev_node(polaris_htdp_device_t)

# bde device (/dev/linux-user-bde)
type polaris_bde_device_t;
dev_node(polaris_bde_device_t)

# dash fpga device (/dev/dash_fpga)
type polaris_dash_device_t;
dev_node(polaris_dash_device_t)

# nios device (/dev/nios)
type polaris_nios_device_t;
dev_node(polaris_nios_device_t)

# qae device (/dev/qae_mem)
type polaris_qae_device_t;
dev_node(polaris_qae_device_t)
# moka fpga device (/dev/moka_fpga)
type polaris_mokafpga_device_t;
dev_node(polaris_mokafpga_device_t)

# sirius fpga device (/dev/sirius_fpga)
type polaris_siriusfpga_device_t;
dev_node(polaris_siriusfpga_device_t);

# moka nim device (/dev/nim_dm*)
type polaris_nim_dm_device_t;
dev_node(polaris_nim_dm_device_t)

# /dev/bp_async device on nanook platform
type polaris_bp_async_device_t;
dev_node(polaris_bp_async_device_t)

# /dev/sparrow_psu device on sparrow platform
type polaris_sparrow_psu_device_t;
dev_node(polaris_sparrow_psu_device_t)

# /dev/nutella_fpga device on nutella platform
type polaris_nutella_fpga_device_t;
dev_node(polaris_nutella_fpga_device_t)

# /dev/huron_fpga on Sumatra platform
type polaris_huron_device_t;
dev_node(polaris_huron_device_t)

# /dev/dplr_sumatra on Sumatra platform
type polaris_sumatra_doppler_device_t;
dev_node(polaris_sumatra_doppler_device_t)

# /tmp/sata_status for mSATA
type polaris_sata_status_tmp_t;
files_tmp_file(polaris_sata_status_tmp_t)

# TSN tsn_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_NGWC_FED - crankshaft_platform.tdl refers it but
# tsn_platform.tdl does not contain such definition.
ifdef(‘tsn_platform’,
  type polaris_ngwc_fed_t;
)

# Supernova supernova_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_FM_RP - crankshaft_platform.tdl refers it but
# supernova_platform.tdl does not contain such definition.
ifdef('supernova_platform',
  type polaris_fman_rp_t;
')

# Nanook
# The Nanook platform does not support SDWAN and so the SDWAN processes are not
# defined in the nanook_platform.tdl. However, it uses the database_def's from
# the crankshaft_platform.tdl, which do have the SDWAN databases. So we need to
# add the processes to the SELinux policy
ifdef('nanook_platform',
  type polaris_cfmgr_t;
  type polaris_cxp_t;
  type polaris_dbgd_t;
  type polaris_fpm_t;
  type polaris_ftm_t;
  type polaris_omp_t;
  type polaris_sdavc_proxy_t;
  type polaris_ttm_t;
  type polaris_vdaemon_t;
  type polaris_htx_t;
')

EDITORIAL_ANNOTATION
This code snippet includes definitions for various processes related to the Nanook platform, which do not support SDWAN. The processes required for SDWAN are defined in the crankshaft_platform.tdl, which have SDWAN databases. The code adds these processes to the SELinux policy to ensure proper integration with the Nanook platform.

# load_usbnet policies start
# /usr/bin/os/conf/load_usbnet.sh is invoked to load usb network driver module
# kernel/drivers/net/usb/usbnet.ko is invoked to load usb network driver module
# kernel/drivers/net/usb/usbnet.ko for TSN.

template(load_usbnet)

  # allow polaris_load_usbnet_t access to execute programs in system bin dirs, load
  # usbnet.ko for USB network interface for TSN and allow read access
  # to /sys/class/net and /proc/cmdline
  # LOOK AT ME: /tmp/rp/pvp/work/inot_fifo inotifywait fd leak to child
  corecmd_exec_bin(polaris_load_usbnet_t)
  modutils_exec_insmod(polaris_load_usbnet_t)
  modutils_list_module_config(polaris_load_usbnet_t)
  modutils_read_module_config(polaris_load_usbnet_t)
  sysnet_manage_config_dirs(polaris_load_usbnet_t)
  polaris_pvp_stdin_read(polaris_load_usbnet_t)
  files_read_kernel_modules(polaris_load_usbnet_t)
  dev_rw_sysfs(polaris_load_usbnet_t)
  kernel_read_system_state(polaris_load_usbnet_t)

  # stdout inherited from unconfined_service that might call it
polaris_unconfined_service_fifo_file_manage(polaris_load_usbnet_t)

# handle /tmp/load_usbnet_intf
type polaris_load_usbnet_tmp_t;
files_tmp_file(polaris_load_usbnet_tmp_t);
files_tmp_filetrans(polaris_load_usbnet_t, polaris_load_usbnet_tmp_t, file);
manage_files_pattern(polaris_load_usbnet_t, polaris_load_usbnet_tmp_t, polaris_load_usbnet_tmp_t)

# allow read of /etc/passwd
# allow map permission
# passwd_file_t.file { getattr open read };
auth_map_passwd(polaris_load_usbnet_t)

*****************************************************************************
# load_usbnet policies end
*****************************************************************************

*****************************************************************************
# CLI: show platform hardware msata <status/info>
*****************************************************************************
ifdef(`crankshaft_family',`

gen_require(`
     type polaris_sysfs_ggpio_t;
     type polaris_msata_info_t;
``)

polaris_utility_domain_template(msata_info)
polaris_bexecute_domain(polaris_msata_info_t, polaris_msata_info_exec_t)
# need write for pipes like "pipe:[70623]"
corecmd_exec_bin(polaris_msata_info_t)
# need write/getattr for pipes like "pipe:[71322]"
polaris_cmrp_use_fifo(polaris_msata_info_t)
fstools_domtrans(polaris_msata_info_t)
# allow use of mSATA device
polaris_nvram_manage(polaris_msata_info_t)
# allow self
allow polaris_msata_info_t self:capability sys_rawio;
allow polaris_msata_info_t self:process setfscreate;
# allow /usr/sbin/smartctl to access /sys/devices/platform/cpn-110-master/
# cpn-110-master:config-space/f2540000.sata/ata2/host1/scsi_host/host1/proc_name and
# /sys/devices/platform/cpn-110-master/cpn-110-master:config-space/f2540000.sata/
# ata2/host1/target1:0:0
read_files_pattern(polaris_msata_info_t, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
dev_list_sysfs(polaris_msata_info_t)
# allow smartctl to access to /dev/sda to determine its lifetime
storage_raw_read_fixed_disk(polaris_msata_info_t)

# CLI: show platform hardware slot p[x] fan eeprom
polaris_utility_domain_template(smart_fan)
polaris_bexecute_domain(polaris_smart_fan_t, polaris_smart_fan_exec_t)
# allow /ls command
corecmd_exec_bin(polaris_smart_fan_t)
# allow read of /etc/passwd
auth_map_passwd(polaris_smart_fan_t)
# allow read of /sys/devices/platform/nios/*
dev_read_sysfs(polaris_smart_fan_t)
# need write/getattr access for pipes like "pipe:[86004]"
polaris_cmrp_use_fifo(polaris_smart_fan_t)

# sumatra and sparrow platforms need map access for "show platform hardware msata status | lifetime"
auth_map_passwd(polaris_msata_info_t)
)

ifdef(`sumatra_platform`,
# During "show platform hardware msata status | lifetime" - msata_info.sh accesses /tmp/sata_status
files_tmp_filetrans(polaris_msata_info_t, polaris_sata_status_tmp_t, file)
manage_files_pattern(polaris_msata_info_t, polaris_sata_status_tmp_t, polaris_sata_status_tmp_t)
')

###############################################################################
# show platform hardware msata end
###############################################################################

#type for /dev/qcqmiX
type qcqmi_device_t;
dev_node(qcqmi_device_t);

# sm_nim_adpt device (/dev/sm_nim_adpt_xxx )
type polaris_sm_nim_adpt_device_t;
dev_node(polaris_sm_nim_adpt_device_t)

# dio device
type polaris_dio_device_t;
dev_node(polaris_dio_device_t)

# tty NMEA device
type polaris tty_NMEA_device_t;
dev_node(polaris tty_NMEA_device_t)

# memory blocks and gpp on Nutella-XE platform
type polaris_nutella_memory_block_p7_t;
dev_node(polaris_nutella_memory_block_p7_t)

  type polaris_nutella_memory_block_p1_t;
dev_node(polaris_nutella_memory_block_p1_t)
type polaris_nutella_memory_block_boot_t;
dev_node(polaris_nutella_memory_block_boot_t)

type polaris_nutella_gp0_t;
dev_node(polaris_nutella_gp0_t)

type polaris_nutella_gpp_t;
dev_node(polaris_nutella_gpp_t)

# nim device (/dev/nim_phy)
type polaris_nim_phy_device_t;
dev_node(polaris_nim_phy_device_t)

type polaris_cwan_svr_var_run_t;
files_pid_file(polaris_cwan_svr_var_run_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscrankshaft.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/cpp/bin/cpp_ha_top_level_server -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_us_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vwl -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vwl_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscpphha.fc
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#
# October 2017, Victor Kamensky
#
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#
# polariswstatsd file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariswstatsfc
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#
# March 2017, Victor Kamensky
#
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#

/var/tmp/trace/ngx_access.log gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/ngx_error.log gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.pid gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.accept gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.cookie_tbl gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.login_count gen_context(system_u:object_r:httpd_log_t, s0)
/tmp/nginx_aaa gen_context(system_u:object_r:polaris/nginx_tmp_t, s0)
/tmp/nginx_master gen_context(system_u:object_r:polaris/nginx_tmp_t, s0)
/tmp/nginx_session gen_context(system_u:object_r:polaris/nginx_tmp_t, s0)

#/tmp base folder for nginx apps to create temporary files.
/tmp/nginx_webui -d gen_context(system_u:object_r:polaris/nginx_tmp_t, s0)
/tmp/nginx -d gen_context(system_u:object_r:polaris/nginx_tmp_t, s0)

# Polaris WebUI Aireos translator files
/usr/bin/conf/aireos_translate_helper.sh
   gen_context(system_u:object_r:polaris/nginx_webui/aireos_translator_exec_t, s0)
/var/scripts/python/aireosConfigTranslator(/.*)? --
   gen_context(system_u:object_r:polaris/aireos_translator_scripts_t,s0)

/var/scripts/webui_install.sh gen_context(system_u:object_r:polaris/nginx_webui/exec_t, s0)
/usr/bin/conf/webui_upgrade_helper.sh gen_context(system_u:object_r:polaris/nginx_webui/upgrade_exec_t, s0)
/usr/bin/conf/webui_smu_helper.sh gen_context(system_u:object_r:polaris/nginx_webui/smu_exec_t, s0)
/usr/bin/conf/ra_trace_webui_helper.sh gen_context(system_u:object_r:polaris/nginx_webui/trace_exec_t, s0)
/usr/bin/conf/nginx-conf gen_context(system_u:object_r:nginx_conf, s0)
/usr/bin/conf/nginx-conf/servers gen_context(system_u:object_r:httpd_conf, s0)

/tmp/fts_client gen_context(system_u:object_r:polaris/nginx_webui/fts_client_exec_t, s0)
/usr/bin/conf/nginx_helper.sh gen_context(system_u:object_r:polaris/nginx_webui_helper_exec_t, s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaris/nginx.fc
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#
# February 2020, Victor Kamensky
#
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## <summary>Polaris omp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisomp.if

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

#
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#
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#

# polaristamsrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristamsrp.fc

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#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris WLC Platform Policy Rules.</summary>

    #interface(`polaris_hanet_dev_use',`
    gen_require(`
      type device_t;
      type polaris_hanet_device_t;
      `)
    write_chr_files_pattern($1, device_t, polaris_hanet_device_t)
    read_chr_files_pattern($1, device_t, polaris_hanet_device_t)
### <summary>
### Work (read, write, ioctl) with /dev/epa[0-9]* and
### /dev/epactrl[0-9]*
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_epa_dev_use',
  gen_require(
    type device_t;
    type polaris_epa_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_epa_device_t)
  read_chr_files_pattern($1, device_t, polaris_epa_device_t)
  allow $1 polaris_epa_device_t:chr_file map;
)

### <summary>
### Work (read, write, ioctl) with /dev/luna_mbfpga device
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_luna_mbfpga_dev_use',
  gen_require(
    type device_t;
    type polaris_luna_mbfpga_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_luna_mbfpga_device_t)
  read_chr_files_pattern($1, device_t, polaris_luna_mbfpga_device_t)
)

### <summary>
### Work (read, write, ioctl) with /dev/astro device
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_astro_dev_use',
gen_require('         
   type device_t;
type polaris_astro_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_astro_device_t)
    read_chr_files_pattern($1, device_t, polaris_astro_device_t)
')

##########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/cpp_il device
## </summary>
## <param name="domain">
##   Domain allowed access.
## </param>
#
interface('polaris_cpp_il_dev_use',
gen_require('        
   type device_t;
type polaris_cpp_il_device_t;
')
   write_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
   read_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
')

##########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/oob_evfc device
## </summary>
## <param name="domain">
##   Domain allowed access.
## </param>
#
interface('polaris_oob_evfc_dev_use',
gen_require('           
   type device_t;
type polaris_oob_evfc_device_t;
')
   write_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)
read_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)
')

###############################
## <summary>
## Work (read, write, ioctl) with /dev/sfp-ktr device
## </summary>
## <param name="domain">
##  Domain allowed access.
## </summary>
## <param>
#
interface('polaris_sfp_katar_dev_use',
gen_require('
  type device_t;
  type polaris_sfp_katar_device_t;
')
  write_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
  read_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
')

###############################
## <summary>
## Read vWLC install info files
## </summary>
## <param name="domain">
##  Domain allowed access.
## </summary>
## <param>
#
interface('polaris_vwlcinstall_info_read',
gen_require('
  type polaris_vwlcinstall_info_t;
')
  read_files_pattern($1, polaris_vwlcinstall_info_t, polaris_vwlcinstall_info_t)
  list_dirs_pattern($1, polaris_vwlcinstall_info_t, polaris_vwlcinstall_info_t)
')

###############################
## <summary>
## Read /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##  Domain allowed access.
## </summary>
```c

### <param>
#
interface('polaris_vwlc_grub_info_read',`
  gen_require(`
    type polaris_grubver_t;
    type polaris_grub_bios_t;
    type polaris_grub_efi_t;
    `)
  read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
  read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
  list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  `)

###########################################################################
### <summary>
### Search /dev/vda1 device the efi partition
### </summary>
### <param name="domain">
###   <summary>
###      Domain allowed access.
###   </summary>
### </param>
#
interface('polaris_vwlc_grub_efi_search',`
  gen_require(`
    type polaris_grub_efi_t;
    `)
  search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  `)

###########################################################################
### <summary>
### Work (read, write, ioctl) with /dev/vda1 device
### </summary>
### <param name="domain">
###   <summary>
###      Domain allowed access.
###   </summary>
### </param>
#
interface('polaris_vwlc_grub_efi_use',`
  gen_require(`
    type polaris_grub_efi_t;
    `)
  write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  `)
```
read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polariswlc.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/install_engine.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_assist.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_helper.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/sw_plaid_svc.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/provision.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/issu_helper.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/issu/issu_check.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/packtool.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_boottime.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/vconfd_script_upgrade.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/issu_client_comp.py -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_selinux.sh -- gen_context(system_u:object_r:polaris_install_selinux_exec_t,s0)
/usr/bin/os/conf/install_show.sh -- gen_context(system_u:object_r:polaris_install_show_exec_t,s0)
/usr/bin/os/conf/install_issu_show.py -- gen_context(system_u:object_r:polaris_install_show_exec_t,s0)
/usr/bin/vconfd_script_show_installerfs.sh -- gen_context(system_u:object_r:polaris_install_show_exec_t,s0)
/usr/bin/os/conf/calcsha.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/C9800-Wireless_startup_script.sh --
gen_context(system_u:object_r:polaris_install_wireless_exec_t,s0)
/usr/bin/os/conf/C9800-Wireless_stop_script.sh --
gen_context(system_u:object_r:polaris_install_wireless_exec_t,s0)

/bootflash/.issu_loc_lock -- gen_context(system_u:object_r:polaris_issu_files_t,s0)
/tmp/issu(/.*)? -- gen_context(system_u:object_r:polaris_issu_tmp_files_t,s0)

/bootflash/.installer(/.*)? -- gen_context(system_u:object_r:polaris_disk_install_t,s0)
/bootflash/images(/.*)? -- gen_context(system_u:object_r:polaris_install_images_t,s0)
/tmp/installer_tmplog(/.*)? -- gen_context(system_u:object_r:polaris_install_tmp_log_t,s0)
/tmp/installer(/.*)? -- gen_context(system_u:object_r:polaris_install_tmp_t,s0)
# The following labels are specific to hot patch a SMUs shared objects
# using .so files). For cold patch files, the patch is subset of a package
# (it has the same structure) and therefore regular labeling rules will
# be in effect.
#
# The SMU hot patch directory hierarchy should look as follows:
#
# /RP.<ARCH>/<process>/patch(s)
# /FP.<ARCH>/<process>/patch(s)
# /CC.<ARCH>/<process>/patch(s)
#
# /RP.[^/]*[^/]*(.*)?        gen_context(system_u:object_r:lib_t,s0)
# /FP.[^/]*[^/]*(.*)?        gen_context(system_u:object_r:lib_t,s0)
# /CP.[^/]*[^/]*(.*)?        gen_context(system_u:object_r:lib_t,s0)

# bundle image/subpkg labeling
packages.conf -- gen_context(system_u:object_r:polaris_packages_conf_t,s0)
./pkginfo -- gen_context(system_u:object_r:polaris_sw_data_t,s0)
/(*).pkg -- gen_context(system_u:object_r:polaris_sw_data_t,s0)

/tmp/pkg_cs_debug(/.*)? gen_context(system_u:object_r:polaris_pkg_cs_debug_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisinstall.fc
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#
# July 2018, Victor Kamensky
#
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#

policy_module(polarisngwcfeddebug, 1.0);

gen_require('  
    type polaris_ngwc_fed_debug_mgr_t;  
')

polaris_bootflash_manage(polaris_ngwc_fed_debug_mgr_t)
polaris_btrace_data_manage(polaris_ngwc_fed_debug_mgr_t)
polaris_cpld_read(polaris_ngwc_fed_debug_mgr_t)
polaris_flashlib_read(polaris_ngwc_fed_debug_mgr_t)
polaris_chasfs_read(polaris_ngwc_fed_debug_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_fed_debug_mgr_t)

polaris_disk_bootflash_read_lnk(polaris_ngwc_fed_debug_mgr_t)
polaris_dmammap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_chdrvmmmap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwc_fed_debug_mgr_t)

# opens /proc/pid/net/dev
kernel_read_network_state(polaris_ngwc_fed_debug_mgr_t)

# calls tcpdump, let it run in its own domain
netutils_domtrans(polaris_ngwc_fed_debug_mgr_t)

# calls system function
corecmd_exec_shell(polaris_ngwc_fed_debug_mgr_t)

# calls lspci and other utilities
corecmd_exec_bin(polaris_ngwc_fed_debug_mgr_t)

auth_use_nsswitch(polaris_ngwc_fed_debug_mgr_t)

# lspci needs sysfs access
dev_list_sysfs(polaris_ngwc_fed_debug_mgr_t)
dev_read_sysfs(polaris_ngwc_fed_debug_mgr_t)

# dope.py /tmp/idope_svr, /tmp/shfwd_svr socket files
type polaris_fed_debug_sock_t;  
files_tmp_file(polaris_fed_debug_sock_t)

files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "idope_svr")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "shfwd_svr")

gen_require('  
    type tmp_t;  
')
manage_sock_files_pattern(polarg_fed_debug_mgr_t, tmp_t, polarg_fed_debug_sock_t)

# allow show-forward to use following temp files in /tmp dir
type polarg_fed_debug_tmp_t;
files_tmp_file(polarg_fed_debug_tmp_t)
files_tmp_filetrans(polarg_fed_debug_mgr_t, polarg_fed_debug_tmp_t, file, "pktgen.txt")
files_tmp_filetrans(polarg_fed_debug_mgr_t, polarg_fed_debug_tmp_t, file, "DopeElam.sh")
files_tmp_filetrans(polarg_fed_debug_mgr_t, polarg_fed_debug_tmp_t, file, "MemDumpElam.sh")
gen_require(''
    type tmp_t;
)'
manage_files_pattern(polarg_fed_debug_mgr_t, { tmp_t polarg_fed_debug_tmp_t}, polarg_fed_debug_tmp_t)

# talk to fed over unix sockets
polarg_fed_sock_write(polarg_fed_debug_mgr_t)

#/dcmlog.txt
type polarg_fed_debug_dcmlog_t;
files_type(polarg_fed_debug_dcmlog_t)
gen_require(''
    type root_t;
)'
filetrans_pattern(polarg_fed_debug_mgr_t, root_t, polarg_fed_debug_dcmlog_t, file, "dcmlog.txt")
manage_files_pattern(polarg_fed_debug_mgr_t, root_t, polarg_fed_debug_dcmlog_t)

# dope.py listens on port 12255
corenet_tcp_bind_generic_node(polarg_fed_debug_mgr_t)
allow polarg_fed_debug_mgr_t self:tcp_socket { getattr setopt ioctl getopt bind create listen accept connect read write };
corenet_tcp_bind_polarg_fed_debug_trace_rpc_port(polarg_fed_debug_mgr_t)
corenet_tcp_connect_polarg_fed_debug_trace_rpc_port(polarg_fed_debug_mgr_t)

# dope.py listens on port 5389 for shfwd commands
corenet_tcp_bind_polarg_fed_debug_shfwd_command_port(polarg_fed_debug_mgr_t)

# LOOK AT ME: /dev/mem access restriction remove after fix for CSCvm07702 is committed.
#endif('nyquist_platform','
polaris_dev_mem_use(polarg_fed_debug_mgr_t)'
)'
#ifdef('starfleet_platform','
polaris_dev_mem_use(polarg_fed_debug_mgr_t)'
)'
#ifdef('quake_platform','
polaris_dev_mem_use(polarg_fed_debug_mgr_t)'
)'
}
/*# /tmp/asic_config.pickle file access
 type polaris_fed_debug_asic_config_t;
 files_tmp_file(polaris_fed_debug_asic_config_t);
 files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_asic_config_t, file, "asic_config.pickle")
 gen_require(
     type tmp_t;
 )
 manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_asic_config_t)

# dope.py invokes scapy.py for DP trace which needs to create socket to seek
# interface info via ioctl ifreq
 allow polaris_ngwc_fed_debug_mgr_t self:udp_socket { create ioctl };

# /tmp/rdope_ffi handle directory where libffi will create file with execute
# mapping. Files system should be executable and /tmp so far is. Note TMPDIR
# environment variable is the first choice where to create libffi executable
# mapped files.
 type polaris_fed_debug_ffi_t;
 files_tmp_file(polaris_fed_debug_ffi_t);
 files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_ffi_t, dir, "rdope_ffi")
 gen_require(
     type tmp_t;
 )
 manage_dirs_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_ffi_t)
 manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_ffi_t, polaris_fed_debug_ffi_t)
 allow polaris_ngwc_fed_debug_mgr_t polaris_fed_debug_ffi_t:file { execute map };

# allow to read /proc/mtd called from mcp_getmonvar
 kernel_read_system_state(polaris_ngwc_fed_debug_mgr_t)
 polaris_remap_mem_dev_use(polaris_ngwc_fed_debug_mgr_t)
 allow polaris_ngwc_fed_debug_mgr_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwcfeddebug.te
No license file was found, but licenses were detected in source scan.

dnl
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 dnl
 dnl Nyquist Platform Max Bay Limits
 max_bay_map_set(`rp', `per_bay', 0)
 max_bay_map_set(`cc', `per_bay', 0)
 max_bay_map_set(`fp', `per_bay', 0)
dnl in elastic scope each process has its own value
max_elastic_map_set('rp', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('cc', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('fp', 'elastic', BPROC_ODM, 0)

max_elastic_map_set('rp', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('cc', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('fp', 'elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/quake2maps.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/tmpA.flashlock -- gen_context(system_u:object_r:polaris_flashlib_lock_t,s0)
/tmp/flashdev.log -- gen_context(system_u:object_r:polaris_flashlib_log_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisflashlib.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#
## <summary>Polaris cxp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscxp.if
No license file was found, but licenses were detected in source scan.

#
# September 2017, Victor Kamensky
#
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#
## <summary>Polaris polarisunconfined Policy Rules.</summary>
### <summary>
## Make the specified type usable
## to be conditionally unconfined.
### </summary>
### <param name="domain">
## Type to be used for conditionally unconfined.
### </param>
#
interface(`polaris_domain_storage_unconfined_type',`
    gen_require(`
      attribute polaris_storage_unconfined_type;
  `)
    typeattribute $1 polaris_storage_unconfined_type;
`)

### <summary>
## Mark domain unconfined, if polaris_unconfined build
## macro is defined. Or if polaris_unconfined_conditional
## macro is defined make domain unconfined only if
## polaris_unconfined_all SELinux boolean is set on.
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
#
interface(`polaris_domain_maybe_unconfined',`
    ifdef(`polaris_unconfined',`
      unconfined_domain($1)
    `)
    ifdef(`polaris_unconfined_conditional',`
      polaris_domain_storage_unconfined_type($1)
      tunable_policy(`polaris_unconfined_all',`
        polaris_unconfined_domain($1)
      `)
    `)
  `)
#implicitly confined domain being made permissive
permissive $1;
### <summary>
### Mark iosd domain unconfined, if polaris_iosd_unconfined
### build macro is defined. Or if polaris_iosd_unconfined_conditional
### macro is defined make domain unconfined only if
### polaris_unconfined_iosd SELinux boolean is set on.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_iosd_maybe_unconfined',`
  ifdef('polaris_iosd_unconfined',`
    unconfined_domain($1)
  ')
  ifdef('polaris_iosd_unconfined_conditional',`
    polaris_domain_storage_unconfined_type($1)
    tunable_policy('polaris_unconfined_iosd',`
      polaris_unconfined_domain($1)
    ')
  ')
')

### <summary>
### Unconfined access to kernel module resources.
### Like kernel_unconfined but without typeattribute use.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_kernel_unconfined',`
gen_require(`
  attribute proc_type;
  attribute syscall_type;
  type kernel_t;
  type unlabeled_t;
')
type proc_kcore_t;

type proc_kmsg_t;

allow $1 { proc_type - proc_kcore_t - proc_kmsg_t } :{ file } ~entrypoint;
allow $1 { proc_type - proc_kcore_t - proc_kmsg_t }:{ dir lnk_file } *

allow $1 sysctl_type:{ file } ~entrypoint;
allow $1 sysctl_type:{ dir lnk_file } *

allow $1 kernel_t:system *

allow $1 unlabeled_t: { dir lnk_file sock_file fifo_file chr_file blk_file } *;
allow $1 unlabeled_t:file ~entrypoint;
allow $1 unlabeled_t:filesystem *
allow $1 unlabeled_t:association *;
allow $1 unlabeled_t:packet *;
allow $1 unlabeled_t:process ~{ ptrace transition dyntransition execmem execstack execheap }

# LOOK AT ME
# kernel_load_module($1)
')

' ****************************************
  # <summary>
  ## Unconfined access to network objects.
  ## Like corenet_unconfined but without typeattribute use.
  ## </summary>
  #<summary>
  ## The domain allowed access.
  </summary>
  #<param name="domain">
  # gen_require('
    attribute node_type;
    attribute netif_type;
    attribute packet_type;
    attribute port_type;
  ')

allow $1 node_type:node *
allow $1 netif_type:netif *
allow $1 packet_type:packet *
allow $1 port_type:dccp_socket { send_msg recv_msg name_connect }
allow $1 port_type:tcp_socket { send_msg recv_msg name_connect }
allow $1 port_type:udp_socket { send_msg recv_msg }
# Bind to any network address.
allow $1 port_type: [dccp_socket tcp_socket udp_socket rawip_socket] name_bind;
allow $1 node_type: [dccp_socket tcp_socket udp_socket rawip_socket] node_bind;

')

########################################
## <summary>
## Unconfined access to devices.
## Like dev_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_dev_unconfined',
gen_require(
attribute device_node;
type memory_device_t;
type mtrr_device_t;
')
allow $1 self: capability sys_rawio;
allow $1 { device_node - memory_device_t } : { blk_file lnk_file } *;
allow $1 { device_node - memory_device_t } : { file chr_file } ~{ execmod entrypoint };
allow $1 mtrr_device_t: file ~{ execmod entrypoint };
dev_getattr_all($1)

')

########################################
## <summary>
## Unconfined access to domains.
## Like domain_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_domain_unconfined',
gen_require(
attribute domain;

# Use/sendto/connectto sockets created by any domain.
allow $1 domain:{ socket_class_set socket key_socket } *

allow $1 domain:system all_system_perms;
# Use descriptors and pipes created by any domain.
allow $1 domain:fd use;
allow $1 domain:fifo_file rw_file_perms;

allow $1 $1:dbus send_msg;

# Act upon any other process.
allow $1 domain:process ~{ ptrace transition dyntransition execmem execstack execheap setcurrent };
allow $1 domain:process ptrace;

# Create/access any System V IPC objects.
allow $1 domain:{ sem msgq shm } *
allow $1 domain:msg { send receive }

# For /proc/pid
allow $1 domain:dir list_dir_perms;
allow $1 domain:file rw_file_perms;
allow $1 domain:lnk_file { read_lnk_file_perms ioctl lock }

# act on all domains keys
allow $1 domain:key *

# pass constraints
# typeattribute $1 can_change_object_identity;
# typeattribute $1 set_curr_context;
# typeattribute $1 process_uncond_exempt;

# mcs_process_set_categories($1)

# userdom_filetrans_home_content($1)
'

########################################################################
## <summary>
##	Unconfined access to files.
## Like files_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##
## </param>
## </summary>
interface('polaris_files_unconfined',
gen_require('attribute file_type;
type shadow_t;')

# Create/access any file in a labeled filesystem;
allow $1 { file_type - shadow_t }: { file chr_file } ~ { execmod entrypoint relabelto };
allow $1 file_type: { dir lnk_file sock_file fifo_file blk_file } *
; allow $1 file_type: service *
;

# Mount/unmount any filesystem with the context= option.
allow $1 file_type: filesystem all_filesystem_perms;
)

interface('polaris_fs_unconfined',
gen_require('attribute filesystem_type;

allow $1 filesystem_type: filesystem all_filesystem_perms;

allow $1 filesystem_type: file ~ entrypoint;
allow $1 filesystem_type: { dir lnk_file sock_file fifo_file chr_file blk_file } *
;

interface('polaris_selinux_unconfined',
gen_require('attribute filesystem_type;

allow $1 filesystem_type: filesystem all_filesystem_perms;

allow $1 filesystem_type: file ~ entrypoint;
allow $1 filesystem_type: { dir lnk_file sock_file fifo_file chr_file blk_file } *
;
## <param name="domain">
##	<summary>
##	Domain allowed access.
##</summary>
## </param>
#
interface('polaris_selinux_unconfined',
gen_require(
    attribute boolean_type;
    type security_t;
    type secure_mode_policyload_t;
')
#
use SELinuxfs
allow $1 security_t:dir list_dir_perms;
allow $1 security_t:file rw_file_perms;
allow $1 boolean_type:file read_file_perms;
allow $1 { boolean_type -secure_mode_policyload_t }:file write_file_perms;

# Access the security API.
allow $1 security_t:security ~{ load_policy setenforce setbool setsecparam };

ifdef('distro_rhel4',
    # needed for systems without audit support
    auditallow $1 security_t:security setbool;
')

#selinux_set_all_booleans($1)
#selinux_load_policy($1)
#selinux_set_parameters($1)
#selinux_set_enforce_mode($1)
')

#########################################################################
## <summary>
##	Make the specified domain unconfined.
##</summary>
##<param name="domain">
##	<summary>
##	Domain to make unconfined.
##</summary>
## </param>
#
interface('polaris_unconfined_domain',
gen_require(
class dbus all_dbus_perms;
class nsqd all_nsqd_perms;
class passwd all_passwd_perms;
')

# Use any Linux capability.
allow $1 self:capability ~{ sys_module };
allow $1 self:capability2 ~{ mac_admin mac_override };
allow $1 self:fifo_file { manage_fifo_file_perms relabelfrom relabelto };

# Transition to myself, to make get_ordered_context_list happy.
allow $1 self:process { dyntransition transition };

# Write access is for setting attributes under /proc/self/attr.
allow $1 self:file rw_file_perms;
allow $1 self:dir rw_dir_perms;

# Userland object managers
allow $1 self:nsqd all_nsqd_perms;
allow $1 self:dbus all_dbus_perms;
allow $1 self:passwd all_passwd_perms;
allow $1 self:association all_association_perms;
allow $1 self:socket_class_set create_socket_perms;

polaris_kernel_unconfined($1)
polaris_corenet_unconfined($1)
polaris_dev_unconfined($1)
polaris_domain_unconfined($1)
polaris_files_unconfined($1)
polaris_fs_unconfined($1)
polaris_selinux_unconfined($1)

systemd_config_all_services($1)

    # in unconfined_domain_noaudit its under not deny_execmem
    allow $1 self:process execmem;

#domain_mmap_low($1)
#
#ubac_process_exempt($1)
#
#optional_policy`
#auth_unconfined($1)
#`
#
#optional_policy`
## Communicate via dbusd.
#dbus_system_bus_unconfined($1)
#dbus_unconfined($1)
#)
#
#optional_policy`
#ipsec_setcontext_default_spd($1)
#ipsec_match_default_spd($1)
#)
#
#optional_policy`
#nscl_unconfined($1)
#)
#
#optional_policy`
#seutil_create_bin_policy($1)
#seutil_relabelto_bin_policy($1)
#)
#
#optional_policy`
#storage_unconfined($1)
#)
#
#optional_policy`
#xserver_unconfined($1)
#)
')

########################################
## <summary>
## Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_unconfined_service_fifo_file_manage`,
   gen_require(`
      type unconfined_service_t;
   `)
   manage_fifo_files_pattern($1, unconfined_service_t, unconfined_service_t)
`)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisunconfined.if
No license file was found, but licenses were detected in source scan.

# Oct 2020, Xin Xiang
#
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#

policy_module(polarisdoppler, 1.0);

# doppler interrupt device
type polaris_dplr_device_t;
dev_node(polaris_dplr_device_t)

# dma mmap device
type polaris_dmammap_device_t;
dev_node(polaris_dmammap_device_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdoppler.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl Crankshaft (Overlord, Utah, Goldbeach, Neptune, TSN and Supernova) Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 19)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 19)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 19)
max_bay_ripc_map_set(`fp', `global', 0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/crankshaftmaps.m4
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
policy_module(polarisdmincsshdfwd, 1.0);

gen_require('  
    type polaris_dmi_ncsshd_fwd_t;
')

polaris_btrace_data_manage(polaris_dmi_ncsshd_fwd_t)
polaris_chasfs_manage(polaris_dmi_ncsshd_fwd_t)
polaris_tdlresolve_read(polaris_dmi_ncsshd_fwd_t)
polaris_tdlldb_list_dirs(polaris_dmi_ncsshd_fwd_t)
polaris_cpld_read(polaris_dmi_ncsshd_fwd_t)
polaris_flashlib_read(polaris_dmi_ncsshd_fwd_t)

polaris_ripc_sman_ui_serv_connect(polaris_dmi_ncsshd_fwd_t)

allow polaris_dmi_ncsshd_fwd_t self:unix_stream_socket create_stream_socket_perms;

type polaris_dmi_ncsshd_log_t;
files_tmp_file(polaris_dmi_ncsshd_log_t)
manage_files_pattern(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t,
    polaris_dmi_ncsshd_log_t)
manage_sock_files_pattern(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t,
    polaris_dmi_ncsshd_log_t)
files_tmp_filetrans(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t, { file sock_file })

logging_send_syslog_msg(polaris_dmi_ncsshd_fwd_t)

polaris_cpld_read(polaris_dmi_ncsshd_fwd_t)

# allow to execute execute_confd_cli.sh under confd domain
polaris_confd_domtrans(polaris_dmi_ncsshd_fwd_t)

# starts bexec.sh
polaris_bexecute_domtrans(polaris_dmi_ncsshd_fwd_t)
polaris_send_signal_to_bexecute(polaris_dmi_ncsshd_fwd_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmincsshdfwd.te
No license file was found, but licenses were detected in source scan.

#  
# July 2017, Victor Kamensky  
#  
# Copyright (c) 2017-2019 by Cisco Systems, Inc.  
# All rights reserved
policy_module(polarisrepm, 1.0);

gen_require(
    type polaris_repm_t;
)

polaris_btrace_data_manage(polaris_repm_t)
polaris_crft_dataManage(polaris_repm_t)
polaris_chasfs_manage(polaris_repm_t)
polaris_tdlresolve_read(polaris_repm_t)
polaris_tdlldb_list_dirs(polaris_repm_t)
polaris_cpld_read(polaris_repm_t)
polaris_lua_read(polaris_repm_t)
polaris_flashlib_read(polaris_repm_t)
polaris_ripc_sman_ui_serv_connect(polaris_repm_t)
polaris_db_tlldb_dir_use(polaris_repm_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_repm_t)

allow polaris_repm_t self:capability { sys_resource dac_override };
allow polaris_repm_t self:process setrlimit;

# temporary files created for repm in /tmp/replication
type polaris_repm_tmp_t;
files_tmp_file(polaris_repm_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_repm_tmp_t, dir, "replication")
manage_files_pattern(polaris_repm_t, polaris_repm_tmp_t, polaris_repm_tmp_t)
polaris_dyncfg_tmp_read(polaris_repm_t)
polaris_tl ldbpersist_setup(polaris_repm_t)

polaris_tmp_t l db persist_setup(polaris_repm_t)

# send syslog
logging_send_syslog_msg(polaris_repm_t)

# mq.-local_rp_1_0
  type polaris_repm_local_rp_mqipc_t;
polaris_mqipc_type(polaris_repm_local_rp_mqipc_t)

  polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_1_0)
polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_0_0)

# repm peer mqipc queues under /dev/shm/repm_peer_mq folder
  type polaris_repm_peer_mqipc_t;
polaris_mqipc_type(polaris_repm_peer_mqipc_t)
  polaris_mqipc_create_name_dir(polaris_repm_t, polaris_repm_peer_mqipc_t, repm_peer_mq)

# repm invokes installer_api_* api's which need access to /bootflash/installer/install issu_state
polaris_install_disk_read(polaris_repm_t)

ifdef(`petra_platform',
#allow access to polaris_cm_rp sem for chasfs
  polaris_cm_rp_sem_use(polaris_repm_t)
#allow access to /flash12/moncfg/cfg.dat for config
  polaris_swipedrive_file_manage(polaris_repm_t)

  )

# execute /bin/tar
corecmd_exec_bin(polaris_repm_t)
  # tar reads /etc/passwd
auth_use_nsswitch(polaris_repm_t)

Found in path(s):
  */opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrepm.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#
## <summary>Polaris dmi_vtyserverutil Policy Rules.</summary>
Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismivtyserverutil.id

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

# March 2017, Victor Kamensky
#
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#

## <summary>Polaris polarisboothelper Policy Rules.</summary>

### #summary Read any regular file/directory from /tmp/udev.
### </summary>
### <param name="domain">
###   <summary>
###   Domain allowed access.
###   </summary>
### </param>
#
interface('polaris_udev_tmp_read',
    gen_require(
        type polaris_udev_tmp_files_t;
    )
    read_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
    list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
)

### #summary Manage any regular file/directory from /tmp/udev.
### </summary>
### <param name="domain">
###   <summary>
###   Domain allowed access.
###   </summary>
### </param>
#
interface('polaris_udev_tmp_manage',
    gen_require(
        type polaris_udev_tmp_files_t;
    )
    manage_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
    manage_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
)
### <summary>
## Listdir of any regular directory from /tmp/udev.
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
#
# interface('polaris_udev_tmp_list_dirs','
gen_require('
    type polaris_udev_tmp_files_t;
')
    list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
')

### <summary>
## Watch udev_tmp_files directories and files
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
### <rolebase/>
#
# interface('polaris_udev_tmp_watch','
gen_require('
type polaris_udev_tmp_files_t;
')
    allow $1 polaris_udev_tmp_files_t:{dir file} watch;
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisboothelper.if
No license file was found, but licenses were detected in source scan.

# # August 2017, Shawn Lu
# # Copyright (c) 2017-2020 by Cisco Systems, Inc.
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#

policy_module(polarisrogued, 1.0);
gen_require(
    type polaris_rogued_t;
)

polaris_btrace_data_manage(polaris_rogued_t)
polaris_chasfs_manage(polaris_rogued_t)
polaris_tdlresolve_read(polaris_rogued_t)
polaris_tdldb_list_dirs(polaris_rogued_t)
polaris_cpld_read(polaris_rogued_t)
polaris_lua_read(polaris_rogued_t)
polaris_flashlib_read(polaris_rogued_t)

polaris_ripc_sman_ui_serv_connect(polaris_rogued_t)

polaris_db_tdlmdb_dir_use(polaris_rogued_t)

# allow to use setrlimit
allow polaris_rogued_t self:process setrlimit;
allow polaris_rogued_t self:capability sys_resource;
allow polaris_rogued_t self:capability dac_override;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_rogued_t)
polaris_socketat_nsfs_read(polaris_rogued_t)

## allow to open udp socket on RDLP port 6532
corenet_udp_bind_polaris_rdlp_port(polaris_rogued_t)
corenet_udp_bind_generic_node(polaris_rogued_t)
allow polaris_rogued_t self:udp_socket { create_socket_perms recv_msg send_msg };

# reading images/ap_capabilities.xml
polaris_wlc_ap_images_read(polaris_rogued_t)

# syslogs in RLDP
logging_send_syslog_msg(polaris_rogued_t)

#DB persistence
polaris_tdlodbpersist_setup(polaris_rogued_t)
polaris_tmp_tdlmdb_persist_setup(polaris_rogued_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrogued.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
## <summary>Polaris bsm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbsm.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

policy_module(polarisiptbl, 1.0);

# iptbl.sh manual

polaris_process_domain_template(iptbl)

corecmd_exec_bin(polaris_iptbl_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_iptbl_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_iptbl_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_iptbl_t)

# work with /tmp files

type polaris_iptbl_tmp_t;
files_tmp_file(polaris_iptbl_tmp_t)
manage_dirs_pattern(polaris_iptbl_t, tmp_t, polaris_iptbl_tmp_t)
manage_files_pattern(polaris_iptbl_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
manage_fifo_files_pattern(polaris_iptbl_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
files_tmp_filetrans(polaris_iptbl_t, polaris_iptbl_tmp_t, { file dir })

allow polaris_iptbl_t self:capability sys_resource;
allow polaris_iptbl_t self:process setpgid;
polaris_btrace_data_manager(polaris_iptbl_t)
polaris_cpld_read(polaris_iptbl_t)
polaris_chasfs_manage(polaris_iptbl_t)
polaris_boot_tmp_read(polaris_iptbl_t)
polaris_rmonbifo_tmp_read(polaris_iptbl_t)
polaris_proc_rmonbifo_getattr(polaris_iptbl_t)
polaris_proc_rmonbifo_read(polaris_iptbl_t)
polaris_disk_crashinfo_getattr(polaris_iptbl_t)

# execute /etc/init.d/iptables in its own domain
iptables_initrc_domtrans(polaris_iptbl_t)

# LOOK AT ME iptbl.sh puts symbolic links into /sbin directory
# need to fix manifest instead, so it will be static
gen_require('type bin_t;
')
manage_lnk_files_pattern(polaris_iptbl_t, bin_t, bin_t)

modutils_domtrans_insmod(polaris_iptbl_t)
iptables_domtrans(polaris_iptbl_t)

# iptbl.sh calls /etc/init.d/iptables restart and that needs
# read /proc/pid/net/ip_tables_names file
kernel_read_network_state(polaris_iptbl_t)
# creates /var/lock/subsys/iptables
type polaris_iptables_lock_t;
files_lock_file(polaris_iptables_lock_t)
manage_files_pattern(polaris_iptbl_t, polaris_iptables_lock_t, polaris_iptables_lock_t)
files_lock_filetrans(polaris_iptbl_t, polaris_iptables_lock_t, file)

# needs access to /run/netns as part of chvrf invocation
fs_read_nsfs_files(polaris_iptbl_t)
# iptbl.sh invokes iptable command which runs in iptables_t label and needs
# access to meta files created by iptbl.sh with label polaris_iptbl_tmp_t
allow iptables_t polaris_iptbl_tmp_t:fifo_file read_file_perms;
allow iptables_t polaris_iptbl_tmp_t:file read_file_perms;

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
ifdef(`vwlc_platform',`
optional_policy(`
polaris_ncd_tmp_read(polaris_iptbl_t)
')
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisiptbl.te
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#
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#

### <summary>Polaris gnmib Policy Rules.</summary>

### <summary>
### Create rule for ndbutils file ".l.schema_use.gnmib" under /var/lock/ndbutil
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_gnmib_ndbutil_lock',
    gen_require(`
        type polaris_confd_ndbutil_lock_t;
        type polaris_gnmib_ndbutil_t;
    ')
    filetrans_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t, file, $2)
    manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t)
    allow $1 polaris_gnmib_ndbutil_t:file { watch watch_reads };
')

### <summary>
### Allow reading gnoi image files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_gnmib_gnoi_images_read',
    gen_require(`
        type polaris_gnmib_gnoi_images_t;
    ')
read_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
mmap_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
')

########################################################################
## <summary>
## Allow manage gnoi image files
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface(\"polaris_gnmib_gnoi_images_manage\",
   gen_require(\n      type polaris_gnmib_gnoi_images_t;
   )

manage_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
mmap_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisgnmib.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polariscpld, 1.0);

########################################################################
# CPLD Driver policy
########################################################################

# note polaris_sysfs_cpld_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

type polaris_cpld_device_t;
dev_node(polaris_cpld_device_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscpld.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

# polarisngwctblmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwctblmgr.fc
No license file was found, but licenses were detected in source scan.

#
# March 2019, Shikhar Dogra
#
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#

# polarisfmancc file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisfmancc.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#

/usr/binos/conf/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisflashcheck.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
policy_module(polaris_stackmgr, 1.0);

    gen_require(
        type polaris_stack_mgr_t;
    )

polaris_btrace_data_manage(polaris_stack_mgr_t)
polaris_crft_data_manage(polaris_stack_mgr_t)
polaris_chasfs_manage(polaris_stack_mgr_t)
polaris_tdlresolve_read(polaris_stack_mgr_t)
polaris_tdlldb_list_dirs(polaris_stack_mgr_t)
polaris_cpld_read(polaris_stack_mgr_t)
polaris_lua_read(polaris_stack_mgr_t)
polaris_flashlib_read(polaris_stack_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_stack_mgr_t)
polaris_db_tdlldb_dir_use(polaris_stack_mgr_t)

    # allow to send message to /dev/log
    logging_send_syslog_msg(polaris_stack_mgr_t)

    allow polaris_stack_mgr_t self:capability { dac_override };
polaris_dyncfg_tmp_read(polaris_stack_mgr_t)
corecmd_exec_bin(polaris_stack_mgr_t)
corecmd_exec_shell(polaris_stack_mgr_t)

    # allow read of /etc/passwd
    auth_use_nsswitch(polaris_stack_mgr_t)

    # read /proc/cmdline
    kernel_read_system_state(polaris_stack_mgr_t)

    # open /dev/ttyS0 console in stack_console_write_init
    term_use_unallocated_ttys(polaris_stack_mgr_t)

    # on ngwc/vwlc FIPS code reads /tmp/hw_entropy
    polaris_hw_entropy_use(polaris_stack_mgr_t)

    #stackmgr runs mcp_trace_request.sh
    polaris_trace_request_domtrans(polaris_stack_mgr_t)

    #stack_mgr needs to be able to access /tmp/issu_stk/prst_sync_rld_info_prcsd
    polaris_issu_stack_tmp_manage(polaris_stack_mgr_t)

    # may use mcp_chvrf.sh to access other nodes in system.
    # Note that we do not actually need to transition to the chvrf domain, however
# a file descriptor leak can occur and the domain transition permission macro
# expands to allow polaris_chvrf_t to access the fifo
polaris_chvrf_domtrans(polaris_stack_mgr_t)

# Allow read on bootflash to be able to read reload_history
polaris_bootflash_read(polaris_stack_mgr_t)

# stackmgr tmp files
type polaris_stack_mgr_tmp_t;
files_tmp_file(polaris_stack_mgr_tmp_t)
files_tmp_filetrans(polaris_stack_mgr_t, polaris_stack_mgr_tmp_t, file, "ngwc_reload_reason")
manage_files_pattern(polaris_stack_mgr_t, polaris_stack_mgr_tmp_t, polaris_stack_mgr_tmp_t)

allow polaris_stack_mgr_t self:capability sys_nice;
allow polaris_stack_mgr_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisstackmgr.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl Ripc Base Interface Map: track that type declations unique
define('ripc_base_type_map', `defn(format(``ripc_base_type_map[%s]'', `$1'))')
define('ripc_base_type_map_set', `define(format(``ripc_base_type_map[%s]'', `$1'), `$2'))'

define('ripc_base_port_map', `defn(format(``ripc_base_port_map[%s]'', `$1'))')
define('ripc_base_port_map_set', `define(format(``ripc_base_port_map[%s]'', `$1'), `$2'))'

define('polaris_ripc_portcon',portcon tcp $1 gen_context(system_u:object_r:$2,s0))
define('polaris_ripc_portcon_aux',`dnl
ifelse(ripc_base_port_map($1), `', `polaris_ripc_portcon($1, $2)')
ripc_base_port_map_set($1, $2)'

)
define('polaris_ripc_portcon_many',
`polaris_ripc_portcon_aux(eval($2 + $3), $1)
ifelse($4, $3, `', `polaris_ripc_portcon_many($1, $2, eval($3 + 1), $4)')')

define('polaris_ripc_service_server_aux',`dnl
type $1, port_type, defined_port_type;
$4
define(`polaris_ripc_service_server_full','\n    polaris_ripc_service_server_aux(ripc_label($1), ripc_stem($1), process_label($2), \n        polaris_ripc_portcon_many(ripc_label($1), $5, min_scope_ripc_map($3, $4, $2), \n        max_scope_ripc_map($3, $4, $2)))

')

define(`polaris_ripc_service_server','\n    ifelse(ripc_base_type_map($1), `\n        polaris_ripc_service_server_full($1, $2, $3, $4, $5)), \n        ripc_base_type_map_set($1, 1)

')

define(`polaris_ripc_service_client','\n    ifelse(ripc_base_type_map($1), `\n        polaris_ripc_service_server_full($1, $2, $3, $4, $5)), \n        ripc_base_type_map_set($1, 1)

')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_te.m4

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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisbtrace, 1.0);

# Btrace policy

gen_require(`
    attribute domain;
    attribute polaris_extended_domain;
    attribute unconfined_domain_type;

')

# persistent btrace files stored under btrace_data
type polaris_btrace_data_t;
files_type(polaris_btrace_data_t)

# allow btrace data file reside on persistent storage
polaris_pfile_type(polaris_btrace_data_t)
type polaris_fifo_stdout_t;
files_type(polaris_fifo_stdout_t)

type polaris_fifo_stdout_base_t;
files_type(polaris_fifo_stdout_base_t)

attribute polaris_btrace_data_domain;

type polaris_btrace_base_t;
files_type(polaris_btrace_base_t)

typeattribute polaris_btrace_base_t polaris_btrace_data_domain;
typeattribute polaris_btrace_data_t polaris_btrace_data_domain;

# is "trace" in tmp_t specific enough? Maybe we would need to change it in polaris
files_tmp_filetrans(polaris_extended_domain, polaris_btrace_base_t, dir, "trace")
# udev -> cat9k-ssd.mount -> unifiedfs_rsync_udev.sh -> btrace.sh might also create this dir
files_tmp_filetrans(udev_t, polaris_btrace_base_t, dir, "trace")

gen_require('attribute polaris_extended_domain;
type polaris_pvp_tmp_t;')
filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_btrace_base_t, dir, "trace")

# filetrans_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t, dir, "fifo")
filetrans_pattern(domain, polaris_btrace_base_t, polaris_fifo_stdout_t, fifo_file)
manage_dirs_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t)

polaris_utility_domain_template(btdecode)

# any polaris process except iosd can execve btdecode utility to decode its own traces
gen_require('attribute polaris_domain;
type polaris_iosd_t;')
domtrans_pattern(polaris_domain - polaris_iosd_t, polaris_btdecode_exec_t, polaris_btdecode_t)
corecmd_check_exec_shell(polaris_domain - polaris_iosd_t)

# btdecode not only reads btrace files, but also creates copy of the file
polaris_btrace_data_manage_all(polaris_btdecode_t)
polaris_btrace_persistent_data_manage(polaris_btdecode_t)
polaris_use_btrace_fifo(polaris_btdecode_t)
polaris_tdlresolve_read(polaris_btdecode_t)
polaris_boot_tmp_read(polaris_btdecode_t)
polaris_lua_read(polaris_btdecode_t)
polaris_chasfs_read(polaris_btdecode_t)
polaris_cpld_read(polaris_btdecode_t)
polaris_bootflash_manage(polaris_btdecode_t)

# lua files need to read executables to retrieve btrace meta informations
files_mmap_all_files(polaris_btdecode_t)

# could be called on trace files on persistent storage
polaris_persistent_read(polaris_btdecode_t)

# need to read executables to retrieve btrace meta informations
polaris_read_exec_domain(polaris_btdecode_t)

corecmd_exec_bin(polaris_btdecode_t)
corecmd_exec_shell(polaris_btdecode_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btdecode_t)

# executes luajit
allow polaris_btdecode_t self:process execmem;

# tmp files created by /lua/btdecode.lua in /tmp
type polaris_btdecode_tmp_t;
files_tmp_file(polaris_btdecode_tmp_t)
files_tmp_filetrans(polaris_btdecode_t, polaris_btdecode_tmp_t, file)
manage_files_pattern(polaris_btdecode_t, polaris_btdecode_tmp_t, polaris_btdecode_tmp_t)

# /lua/btdecode.lua may call create_luid_file_db on demand
polaris_create_ldb_domtrans(polaris_btdecode_t)

# in some cases it runs with telnet /dev/ptyN as stdin/stdout
# example when executed on other node, or "monitor log profile"
# command
telnet_use_ptys(polaris_btdecode_t)

# Allow btdecode to read/write /dev/pts/*
term_use_generic_ptys(polaris_BTdecode_t)

polaris_btrace_ldb_tmp_read(polaris_btdecode_t)

# Allow btdecode to watch over /bootflash/tracelogs, /vol/harddisk/tarcelsogs and /flash2/CRASH/tracelogs
polaris_btrace_data_watch(polaris_btdecode_t)

# Allow btdecode to watch over /usr/binos/conf
files_watch_usr_dirs(polaris_btdecode_t)
# Allow btdecode to access UFS mounted directories for other members

```
optional_policy(
  polaris_ncd_tmp_read(polaris_btdecode_t)
)
```

# bttrace_rotate calls ftw function through create_luid_file_db utility
# that walks whole file tree in order to create bttrace_luids_file.cdb
# let's have separate domain for this utility
polaris_utility_domain_template(create ldb)

files_read_all_files(polaris_create ldb_t)
files_getattr_all_dirs(polaris_create ldb_t)
files_read_all_symlinks(polaris_create ldb_t)
files_list_non_security(polaris_create ldb_t)
files_dontaudit_list_security_dirs(polaris_create ldb_t)
files_mmap_all_files(polaris_create ldb_t)

# allow luid database scripts to read/write /dev/pts/*
term_use_generic_ptys(polaris_create ldb_t)

# creates files like bttrace_luids_file.cdb_20170907160108.tmp, bttrace_luids_file.cdb
# type polaris ldb tmp t;
files_tmp_file(polaris ldb tmp t)
files_tmp_filetrans(polaris create ldb t, polaris ldb tmp t, file)
files_tmp_filetrans(polaris btdecode t, polaris ldb tmp t, file, "bttrace_luids_file.cdb")
manage_files_pattern(polaris create ldb_t, polaris ldb tmp t, file, "bttrace_luids_file.cdb")
mmmap_files_pattern(polaris create ldb t, polaris create ldb t, polaris create ldb t)
polaris_use_bttrace_fifo(polaris create ldb t)

# in some cases it runs with telnet /dev/ptyN as stdin/stdout
# example when executed on other node, or "monitor log profile"
# command
telnet_use_ptys(polaris_create ldb t)

# Allowing permission to read/open/getattr/ on
#   /tmp/sw/mount/*universalk9.*.SSA.pkg/usr/binos/sbin/in.telnetd
gen_require(
  type telnetd_exec_t;
  )
allow polaris btdecode t telnetd_exec_t:file { getattr open read };

******************************************************************************
# CLI: show platform software trace filter-binary wired
# invokes.../bin/sh /usr/binos/conf/mcp_trace_filter.sh --binary wired
******************************************************************************

polaris_utility_domain_template(trace_filter)
polaris_bexecute_domtrans(polaris_trace_filter_t)
polaris_bexecute_domain(polaris_trace_filter_t, polaris_trace_filter_exec_t)
# mcp_trace_filter.sh runs with telnet /dev/ptyN as
# stdin/stdout if on standby
telnet_use_ptys(polaris_trace_filter_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_trace_filter_t)

allow polaris_trace_filter_t self:capability { dac_override sys_resource };

# access /tmp/sw/boot/pkginfo
#   awk -v what=^.BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_trace_filter_t)

polaris_chasfs_read(polaris_trace_filter_t)
polaris_disk_bootflash_read_lnk(polaris_trace_filter_t)
polaris_disk_crashinfo_getattr(polaris_trace_filter_t)
polaris_use_btman_fifo(polaris_trace_filter_t)
polaris_use_btrace_fifo(polaris_trace_filter_t)
polaris_use_btrace_fifo(polaris_trace_filter_t)
polaris_smand_use_fifo(polaris_trace_filter_t)
polaris_cpld_read(polaris_trace_filter_t)
polaris_ddmdb_list_dirs(polaris_trace_filter_t)
polaris_disk_harddisk_read_lnk(polaris_trace_filter_t)
kernl_read_system_state(polaris_trace_filter_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_trace_filter_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(fs(polaris_trace_filter_t)

# Allow mcp_trace_request.sh to access UFS mounted directories for other members
optional_policy("
polaris_ncd_tmp_read(polaris_trace_filter_t)
")

# allow creation/access of temporary files created by bash such as
# /tmp/sh-thd-1499428203 etc
type polaris_trace_filter_tmp_t;
files_tmp_file(polaris_trace_filter_tmp_t)
files_tmp_filetrans(polaris_trace_filter_t, polaris_trace_filter_tmp_t, file)
manage_files_pattern(polaris_trace_filter_t, polaris_trace_filter_tmp_t, polaris_trace_filter_tmp_t, file)

# mcp_trace_filter.sh invokes: "df /tmp/rdldb" and "df /dev/shm"
fs_getattr_tmpfs(polaris_trace_filter_t)
# allow accesses to polaris lua files
polaris_lua_read(polaris_trace_filter_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_trace_filter_t)

corecmd_exec_bin(polaris_trace_filter_t)

# why does btrace show command needs to write into btrace state?
polaris_btrace_data_manage_all(polaris_trace_filter_t)
polaris_btrace_persistent_data_manage(polaris_trace_filter_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/harddisk/10.130.1.0
fs_getattr_nfs(polaris_trace_filter_t)

#########################################################################
# CLI: monitor log profile <iwan | wireless | wired ..>
# invokes.../bin/sh /usr/bin/os/conf/mcp_trace_request.sh --operation monitor
#########################################################################
polaris_utility_domain_template(trace_request)
polaris_bexecute_domtrans(polaris_trace_request_t)
polaris_bexecute_domain(polaris_trace_request_t, polaris_trace_request_exec_t)

# Provide sys_resource capability for sys_pipe calls
allow polaris_trace_request_t self:capability sys_resource;
polaris_cpld_read(polaris_trace_request_t)
polaris_disk_crashinfo_getattr(polaris_trace_request_t)
polaris_disk_bootflash_read_lnk(polaris_trace_request_t)
polaris_disk_harddisk_read_lnk(polaris_trace_request_t)
polaris_chasfs_manage(polaris_trace_request_t)

fs_getattr_xattr_fs(polaris_trace_request_t)

# can execute hostname
hostname_exec(polaris_trace_request_t)

# can execute dmesg
dmesg_domtrans(polaris_trace_request_t)

# creates archives under /crashinfo
polaris_disk_crashinfo_manage(polaris_trace_request_t)

# can tar logs to persistent all file systems (including removable file systems)
polaris_persistent_manage(polaris_trace_request_t)
polaris removable manage(polaris_trace_request_t)

# read and write all btrace fifo file as standard input/output.
polaris use btrace fifo(polaris_trace_request_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris rmbonbifo tmp read(polaris_trace_request_t)

# copies /tmp/silent_roll_select.log into /crashinfo so that it can be tar'd into an
# archive
polaris pvp read tmp files(polaris_trace_request_t)

# read /tmp/sw/boot/base_pkg
polaris boot tmp read(polaris_trace_request_t)

# in some cases mcp_trace_request.sh runs with telnet /dev/ttyN as
# stdin/stdout
telnet use ptys(polaris_trace_request_t)

# allow read of /etc/group and /etc/passwd
auth use nsswitch(polaris_trace_request_t)

# read /proc/cmdline
kernel read system state(polaris_trace_request_t)

corecmd exec bin(polaris_trace_request_t)

ifdef(`ngwc_family',`
optional_policy(`
polaris ncd tmp read(polaris_trace_request_t)
')
')

# mcp_trace_request.sh can read all btrace files both in temp storage
# as well as in persistent storage
polaris btrace data manage all(polaris_trace_request_t)
polaris btrace persistent data manage(polaris_trace_request_t)

# Allow mcp_trace_request.sh to create and manage temporary files under /tmp
# such as /tmp/mtr cntrl
type polaris_trace_request_tmp_t;
files tmp file(polaris_trace_request_tmp_t)
files tmp filetrans(polaris_trace_request_tmp_t, polaris_trace_request_tmp_t, file)
manage files pattern(polaris_trace_request_tmp_t, polaris_trace_request_tmp_t, polaris_trace_request_tmp_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/crashinfo/10.1.1.1
fs getattr nfs(polaris_trace_request_t)
# mcp_trace_request.sh invokes dmesg, which runs in dmesg_t domain needs access
# to btrace data store

gen_require(
    type dmesg_t;
')
polaris_btrace_persistent_data_manage(dmesg_t)

# dmesg invocation in case of disk being full,
# results in writing to area of disk that
# requires the sys_resource capability.
allow dmesg_t self:capability sys_resource;

# Set /tmp/udev_ng4k.vbd.log to be under polaris_udev_tmp_files_t label

gen_require(
    type udev_t;
    type polaris_udev_tmp_files_t;
    type init_t;
')

files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
files_tmp_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")

# Add permission for mcp_trace_request to access polaris_udev_tmp_files_t files
polaris_udev_tmp_manage(polaris_trace_request_t)

# Allow ls /tmp/ufs/harddisk
optional_policy(
    polaris_ncd_tmp_read(polaris_trace_request_t)
')

# Allow mcp_trace_request to get tmpfs attributes
fs_getattr_tmpfs(polaris_trace_request_t)

# allow mcp_trace_request to execute tar
allow polaris_trace_request_t self:capability { chown fowner fsetid };
# Allow polaris processes to manage level config files in tracelogs persistent directory like /bootflash/tracelogs/level_config
type polaris_btrace_lvl_config_t;
files_type(polaris_btrace_lvl_config_t)
gen_require(
    attribute polaris_domain;
)
polaris_btrace_lvl_config_manage(polaris_domain)
optional_policy(
    polaris_cedge_tanman_tmp_manage(polaris_btdecode_t)
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbtrace.te
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# # March 2017, Victor Kamensky # # Copyright (c) 2017-2021 by Cisco Systems, Inc. # All rights reserved #

policy_module(polarisncd, 1.0);

gen_require(
    type polaris_ncd_t;
)

# allow sntp transition in its own domain when started by ncd ntp_domtrans_ntpdate(polaris_ncd_t)
corecmd_exec_bin(polaris_ncd_t)
corecmd_exec_shell(polaris_ncd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_ncd_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ncd_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ncd_t)

# work with /tmp files (/tmp/ncd)
type polaris_ncd_tmp_t;
files_tmp_file(polaris_ncd_tmp_t)
manage_dirs_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)
manage_files_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)
manage_fifo_files_pattern(polaris_ncd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, file)

# create /tmp/ncd and /tmp/etc/ncd_work_dir directories
gen_require(`
   type polaris_etc_t;
`)
manage_dirs_pattern(polaris_ncd_t, { tmp_t polaris_etc_t }, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, dir, "ncd")
# /tmp/etc/ncd_work_dir
filetrans_pattern(polaris_ncd_t, polaris_etc_t, polaris_ncd_tmp_t, dir, "ncd_work_dir")

# work with /tmp/ncd/inot_fifo
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, fifo_file, "inot_fifo")
manage_fifo_files_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)

# allow sntp to read out fifo file
gen_require(`
   type ntpd_t;
`)
read_fifo_files_pattern(ntpd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)

# work with /tmp/ufs directory. the ufs directory can be created
# by both polaris_ncd_t and udev_t subjects (depending upon platform
# logic)
gen_require(`
   type udev_t;
   type unconfined_service_t;
`)
files_tmp_filetrans( { polaris_ncd_t udev_t unconfined_service_t }, polaris_ncd_tmp_t, dir, "ufs")

polaris_btrace_data_manage(polaris_ncd_t)
polaris_chasfs_manage(polaris_ncd_t)
polaris_cpld_read(polaris_ncd_t)
polaris_proc_rmonbifo_read(polaris_ncd_t)
polaris_rmonbifo_tmp_read(polaris_ncd_t)
polaris_boot_tmp_read(polaris_ncd_t)
polaris_disk_crashinfo_getattr(polaris_ncd_t)
polaris_disk_bootflash_read_lnk(polaris_ncd_t)
polaris_flashlib_lock(polaris_ncd_t)
polaris_flashlib_read(polaris_ncd_t)
polaris_read_debug_conf(polaris_ncd_t)
polaris_read_packages_conf(polaris_ncd_t)
brctl_domtrans(polaris_ncd_t)
sysnet_domtrans_ifconfig(polaris_ncd_t)
ncd.sh invokes ifup which in turn is calling dhclient
sysnet_domtrans_dhcpc(polaris_ncd_t)

type polaris_ncd_etc_t;
files_config_file(polaris_ncd_etc_t)
gen_require(''
   attribute domain;
')
files_etc_filetrans(domain, polaris_ncd_etc_t, file, "mount_data")
manage_dirs_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)
manage_files_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)

# runs exportsfs command
rpc_read_exports(polaris_ncd_t)
 rpc_write_exports(polaris_ncd_t)
 rpc_manage_nfs_state_data_dir(polaris_ncd_t)
 rpc_manage_nfs_state_data(polaris_ncd_t)
 fs_rw_nfsd_fs(polaris_ncd_t)
 kernel_rw_rpc_sysctls(polaris_ncd_t)
 fs_getattr_xattr_fs(polaris_ncd_t)

# reloads xinetd@/tmp/etc/xinetd.conf.consolidated.service and
# systemctl reload xinetd_brelay@eobc.service
systemd_exec_systemctl(polaris_ncd_t)
 systemmd_reload_all_services(polaris_ncd_t)
 systemd_status_all_unit_files(polaris_ncd_t)

polaris_chvrf_domtrans(polaris_ncd_t)
# ncd process calls ifconfig and route and mcp_chvrf
gen_require(''
    type polaris_chvrf_t;
')
sysnet_domtrans_ifconfig(polaris_chvrf_t)
allow polaris_chvrf_t self:capability net_admin;
allow polaris_chvrf_t self:udp_socket { create ioctl };
allow polaris_ncd_t self:process setpgid;

polaris_persistent_getattr(polaris_ncd_t)

# access to /etc/sysconfig/network-scripts
sysnet_read_config(polaris_ncd_t)

fs_getattr_tmpfs(polaris_ncd_t)

# manage file under /tmp/etc/ncd_work_dir
gen_require(''
    type initrc_tmp_t;
type initrc_t;
);

filetrans_pattern(polaris_nccd_t, initrc_tmp_t, polaris_nccd_tmp_t, dir,"ncd_work_dir")
polaris_nccd_tmp_manage(polaris_nccd_t)
# /tmp/root/loopback is created by initrc_t but managed by ncd.sh.
# dynamic label directory "/tmp/root/loopback" as polaris_nccd_tmp_t
files_tmp_filetrans(initrc_t, polaris_nccd_tmp_t, dir, "loopback")
# flashutil has wrong file permission
allow polaris_nccd_t self:capability { dac_override sys_resource };

# access to /tmp/etc/xinetd.conf.consolidated
init_read_script_tmp_files(polaris_nccd_t)
allow polaris_nccd_t self:capability net_admin;

# search/getattr of /tmp/udev/etc/udev
polaris_udev_tmp_list_dirs(polaris_nccd_t)

# ncd calls mount to handle nfs directories
mount_domtrans(polaris_nccd_t)

# rsync_exec(polaris_nccd_t)
gen_require(
    type rsync_t;
    type rsync_tmp_t;
    )
rsync_entry_domtrans(polaris_nccd_t, rsync_t)
allow rsync_t polaris_nccd_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t polaris_nccd_t:fifo_file write;
# PLEASE LOOK AT ME: probably /tmp/rp/active_epoch deserves its own type
# /tmp/rp/active_epoch on its way to /tmp/chassis/local/rp/chasfs/rp/0/0/epoch
manage_files_pattern(polaris_nccd_t, rsync_tmp_t, rsync_tmp_t)

# creates files under /tmp/udev/etc/udev/
polaris_udev_tmp_manage(polaris_nccd_t)
allow polaris_nccd_t self:process setfscreate;

# run /sbin/hwclock in its own domain
clock_domtrans(polaris_nccd_t)
# stdin file descriptor leak when hwclock started
gen_require(
    type hwclock_t;
    )
allow hwclock_t polaris_nccd_tmp_t:fifo_file read;

ifdef(\"ngwc\")
    polaris_getattr_filesystem_disk_ucode(polaris_nccd_t)
endif\")


# update /tmp/etc/xinetd.conf.consolidated file
polaris_etc_append(polaris_ncd_t)

# ncd.sh adds entries to /etc/exports file
gen_require(''
  type etc_t;
')
append_files_pattern(polaris_ncd_t, etc_t, etc_t)

# create and write into /tmp/unifiedfs/unifiedfs_log
manage_files_pattern(polaris_ncd_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)

polaris_ncd_rpcinfo_net(polaris_ncd_t)

# accessing /mnt/usb0
fs_search_removable(polaris_ncd_t)
polaris_getattr_removable(polaris_ncd_t)
polaris_getattr_removable(polaris_ufs_helper_t)

# ncd.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
# write/create to "/sys/module/nfs/parameters/nfs4_unique_id"
dev_rw_sysfs(polaris_ncd_t)
dev_manage_sysfs_dirs(polaris_ncd_t)
gen_require(''
  type sysfs_t;
')
create_files_pattern(polaris_ncd_t, sysfs_t, sysfs_t)

# ps needs access to proc_t
kernel_read_system_state(polaris_ncd_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_ncd_t)

# send signal to ntpd
ntp_signal(polaris_ncd_t)

# ncd.sh executes hostname
hostname_exec(polaris_ncd_t)

# ncd.sh runs mcp_trace_request.sh
polaris_trace_request_domtrans(polaris_ncd_t)

# handling /usr/binos/conf/iosd_console_attach.sh
polaris_utility_domain_template(console_attach)
polaris_bexecute_domain(polaris_console_attach_t, polaris_console_attach_exec_t)

corecmd_exec_bin(polaris_console_attach_t)
auth_use_nsswitch(polaris_console_attach_t)

# execute ping over liin: /usr/binos/conf/mcp_chvrf.sh liin /bin/ping -c 1 -w 300 192.168.1.6
polaris_chvrf_domtrans(polaris_console_attach_t)
# from chvrf.sh code executes ping command
gen_require(
    type polaris_chvrf_t;
)
netutils_domtrans_ping(polaris_chvrf_t)
# send sigchld when it is done
gen_require(' 
    type ping_t;
')
allow ping_t polaris_console_attach_t:process sigchld;

polaris_boot_tmp_read(polaris_console_attach_t)
polaris_btrace_data_manage(polaris_console_attach_t)
polaris_chasfs_read(polaris_console_attach_t)
polaris_cpld_read(polaris_console_attach_t)
polaris_disk_bootflash_search(polaris_console_attach_t)
polaris_disk_crashinfo_getattr(polaris_console_attach_t)
polaris_ncd_tmp_read(polaris_console_attach_t)
polaris_read_debug_conf(polaris_console_attach_t)
polaris_rmonbifo_tmp_read(polaris_console_attach_t)
polaris_use_btrace_fifo(polaris_console_attach_t)

# read /proc/cmdline
kernel_read_system_state(polaris_console_attach_t)

# read /tmp/myhostname file
polaris_hm_tmp_read(polaris_console_attach_t)

telnet_use_ptys(polaris_console_attach_t)

allow polaris_console_attach_t self:capability sys_resource;
allow polaris_console_attach_t self:process setrlimit;

# getty starts /usr/binos/conf/iosd_console_attach.sh through brelay
gen_require(
    type getty_t;
)
polaris_bconsole_domtrans(getty_t)

# console_attach.sh start btelnet.sh over chvrf and bexecute
gen_require('  
    type polaris_bexecute_t;
  ')
allow polaris_bexecute_t polaris_console_attach_t:process sigchld;
corenet_tcp_connect_telned_port(polaris_bexecute_t)

# handling /usr/binos/conf/unifiedfs/unifiedfs_helper.sh
polaris_utility_domain_template(ufs_helper)
corecmd_exec_bin(polaris_ufs_helper_t)
auth_use_nsswitch(polaris_ufs_helper_t)

# rsync calls unifiedfs_helper.sh
gen_require('  
    type rsync_t;
  ')
polaris_ufs_helper_domtrans(rsync_t);

# unifiedfs_helper.sh calls mount to handle nfs directories
mount_domtrans(polaris_ufs_helper_t)

# creates files under /tmp/udev/etc/udev/
polaris_udev_tmp_manage(polaris_ufs_helper_t)
polaris_disk_bootflash_search(polaris_ufs_helper_t)
polaris_nccd_tmp_manage(polaris_ufs_helper_t)
polaris_nccd_etc_read(polaris_ufs_helper_t)

# stat over /tmp/ufs/crashinfo/10.1.1.1
polaris_disk_crashinfo_getattr(polaris_ufs_helper_t)

# unifiedfs_helper.sh creates /tmp/unifiedfs and manages underlying dirs
  type polaris_ufs_tmp_t;
files_tmp_file(polaris_ufs_tmp_t)
files_tmp_filetrans(polaris_ufs_helper_t, polaris_ufs_tmp_t, { file dir })
manage_dirs_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_lnk_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)

# Required for /tmp/unifiedfs access on vWLC
ifdef('vwlc_platform',
  files_tmp_filetrans(unconfined_service_t, polaris_ufs_tmp_t, dir, "unifiedfs")
')
polaris_nccd_rpcinfo_net(polaris_ufs_helper_t)
polaris_persistent_getattr(polaris_ufs_helper_t)
# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_ufs_helper_t)

# ncd.sh read, search, open, creates, add_name and writes to /proc/hanet/tun_local_ip
gen_require(
  type polaris_hanet_proc_t;
  type proc_t;
  )
manage_files_pattern(polaris_ncd_t, polaris_hanet_proc_t, polaris_hanet_proc_t, polaris_hanet_proc_t)
allow polaris_hanet_proc_t proc_t:filesystem associate;

allow polaris_ufs_helper_t self:capability sys_resource;

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisncd.te
No license file was found, but licenses were detected in source scan.

#  
# November 2020, Christine Hwang
#  
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
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#  
# Map BBU TTY to correct device context
/dev/ttyS2 -c gen_context(system_u:object_r:polaris_bbu_device_t,s0)

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbbu.fc
No license file was found, but licenses were detected in source scan.

#  
# February 2020, Victor Kamensky
#  
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#  
## <summary>Polaris cedgetanman Policy Rules.</summary>
### Domain allowed access.

```c
interface('polaris_cedge_tanman_tmp_manage',
    gen_require('type polaris_cedge_tanman_tmp_t;

    read_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
    read_fifo_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
)
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscedgetanman.if

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

# March 2017, Victor Kamensky

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```
/usr/binos/conf/pman.sh -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/usr/bin/pman -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/bin/gdbserver -- gen_context(system_u:object_r:polaris_gdb_exec_t,s0)
/usr/bin/gdbserver -- gen_context(system_u:object_r:polaris_gdb_exec_t,s0)
/tmp/pman_ports(/.*)? gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/utah_ucode_image gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/wlc_ucode_image gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/vxe_ucode_image gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/fugazi_ucode_image gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispman.fc

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

# July 2017, Victor Kamensky

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#
## <summary>Polaris gsd_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisgsdrp.if

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

#
# Oct 2020, Xin Xiang
#
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#

# dma map devices
/dev/dmammap -c gen_context(system_u:object_r:polaris_dmammap_device_t,s0)

# /dev/dma_nw is introduced by Nightwatch switch module on ESG routing platform
/dev/dma_nw -c gen_context(system_u:object_r:polaris_dmammap_device_t,s0)

# dplr interrupt devices
/dev/dplr_intrpt -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

# /dev/dplr_nw is introduced by Nightwatch switch module on ESG routing platform
/dev/dplr_nw -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

# e.g., /dev/msi/Slot8/Doppler0/Group0
/dev/msi/Slot[0-9]*/Doppler[0-9]* -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)
/dev/msi/Slot[0-9]*/Doppler[0-9]*(/.*)? -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdoppler.fc

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

dnl

dnl January 2021, Vaibhav Lade
dnl
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dnl All rights reserved
dnl
dnl VPCGW Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_UEMGR, 7)
max_elastic_map_set(`cc', `elastic', BPROC_UEMGR, 7)
max_elastic_map_set(`fp', `elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set('rp', 'elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set('cc', 'elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set('fp', 'elastic', BPROC_UEMGR, 7)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/vpcgwmaps.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/binos/bin/cman_fp_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_us_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_vwlc -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_vwlc_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_sumatra_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/conf/mcp_pcie_status_cmd.sh -- gen_context(system_u:object_r:polaris_pcie_status_cmd_exec_t,s0)
/dev/hkp -c gen_context(system_u:object_r:polaris_hkp_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmfp.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#
/usr/binos/conf/install_issu_monitor.sh -- gen_context(system_u:object_r:polaris_issu_monitor_exec_t,s0)
/tmp/rp/issu_mon_dir -d gen_context(system_u:object_r:polaris_issu_monitor_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisissumonitor.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
## <summary>Polaris cpp_stats Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppstats.if
No license file was found, but licenses were detected in source scan.

#
# December 2018, Victor Kamensky
#
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#

# polarizezmancc file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisezmancc.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris rrm_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrrmmgr.if
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

policy_module(polarisdmiportsfetch, 1.0);

gen_require(`
    type polaris_dmi_ports_fetch_t;
`)

polaris_chasfs_manage(polaris_dmi_ports_fetch_t)
polaris_tdlresolve_read(polaris_dmi_ports_fetch_t)
polaris_cpld_read(polaris_dmi_ports_fetch_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmiportsfetch.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris odm Policy Rules.</summary>

#############################################################
## <summary>
## Mqipc channel in sub directory and multiple servers on TDL.
## channel is not supported by autogen code. ODM odm_clnt2svr_data
## channel is one of those. Allow domain to be one server on it.
## ODM elastic value is 2 now, add more if need in the future.
## </summary>
##<param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
##</param>
##<param name="mqipc_label">
##  <summary>
##  Mqipc channel file label.
##  </summary>
##</param>
#
interface(`polaris_odm_clnt2svr_mqipc_create',
gen_require(`
type polaris_odm_client2server_data_mqipc_t;
')
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b1)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b0)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisodm.if
No license file was found, but licenses were detected in source scan.
# June 2020, Manu Roy

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# /bootflash labels

# /bootflash(/.*)?   gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /bootflash/ssh(/{*})?   gen_context(system_u:object_r:ssh_home_t,s0)
# /bootflash/ssh/ssh_host.*_key.pub   gen_context(system_u:object_r:sshd_key_t,s0)
# /bootflash/ssh/ssh_host.*_key   gen_context(system_u:object_r:sshd_key_t,s0)
# /bootflash/core(/.*)?   gen_context(system_u:object_r:polaris_core_file_t,s0)

# /flash is symbolic link /flash10/USER

# /flash1

# /flash1(/.*)?   gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
# /flash1/CRASH(/.*)?   gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
# /flash1/CRASH/tracelogs(/.*)?   gen_context(system_u:object_r:polaris_btrace_data_t,s0)
# /flash7(/.*)?   gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /flash8(/.*)?   gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /flash9(/.*)?   gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /flash10

# USER is a reserved selinux keyword - escape it like this

# /flash10(/.*)?   gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /flash10/USE[R]/core(/.*)?   gen_context(system_u:object_r:polaris_core_file_t,s0)
# /flash10/USE[R]/nvram_config --   gen_context(system_u:object_r:polaris_nvram_file_t,s0)
# /flash10/USER/.ssh/ssh_host_rsa_key --   gen_context(system_u:object_r:sshd_key_t,s0)

# sdflash

#sdflash

#usb device

#DMA ASIC driver

# crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles

#dev
/dev/petra-gpio-pc3 -c gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
# Line card fpga driver for mmap
/dev/petra-lc-fpga -c gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)

# memory devices
/dev/tm -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
/dev/hcam -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
# vlan-virtual ethernet
/dev/petra-krport -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
/tmp/udev/etc/udev/sdflash/udev-info gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)

# hellcat
/dev/spidev0.0 -c gen_context(system_u:object_r:polaris_iots_led_device_t,s0)
/dev/spidev0.1 -c gen_context(system_u:object_r:polaris_iots_led_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisiotswitch.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/usr/binos/conf/periodic.sh -- gen_context(system_u:object_r:polaris_periodic_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisperiodic.fc
No license file was found, but licenses were detected in source scan.

#
# February 2018, Manohar Hungund
#
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#

policy_module(polarisact2, 1.0);

#########################################
# ACT2 Chip Driver policy
#########################################

type polaris_act2_device_t;
dev_node(polaris_act2_device_t)
# /tmp/hw_entropy file.
# Certain platforms save entropy from main board ACT-2 chip in this file.

type polaris_hw_entropy_t;
files_tmp_file(polaris_hw_entropy_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisact2.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/tmp/sw/boot/monbifo(/.*)? gen_context(system_u:object_r:polaris_rmonbifo_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrmonbifo.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/dev/lsmpi -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app0 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app1 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app2 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)

/tmp/pi(/.*)? gen_context(system_u:object_r:polaris_pi_uds_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislsmpi.fc
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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policy_module(polarisdmivtyserverutild, 1.0);

gen_require(
    type polaris_dmi_vtyserverutild_t;
)

polaris_btrace_data_manage(polaris_dmi_vtyserverutild_t)
polaris_chasfs_manage(polaris_dmi_vtyserverutild_t)
polaris_tdldresolve_read(polaris_dmi_vtyserverutild_t)
polaris_tdldb_list_dirs(polaris_dmi_vtyserverutild_t)
polaris_cpld_read(polaris_dmi_vtyserverutild_t)
polaris_flashlib_read(polaris_dmi_vtyserverutild_t)

allow polaris_dmi_vtyserverutild_t self:socket { connect create read write };

type polaris_dmi_vtyserverutild_tmp_t;
files_tmp_file(polaris_dmi_vtyserverutild_tmp_t)
files_tmp_filetrans(polaris_dmi_vtyserverutild_t, polaris_dmi_vtyserverutild_tmp_t, fifo_file, ".DMI_FIFO")
manage_fifo_files_pattern(polaris_dmi_vtyserverutild_t,
polaris_dmi_vtyserverutild_tmp_t,polaris_dmi_vtyserverutild_tmp_t)

logging_send_syslog_msg(polaris_dmi_vtyserverutild_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmivtyserverutild.te
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# September 2018, Anubha Balani
#
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#

policy_module(polarismemory, 1.0);

# Polaris memory: libmaroon and such

attribute polaris_maroon_data_domain;

type polaris_maroon_base_t;
files_type(polaris_maroon_base_t)
typeattribute polaris_maroon_base_t polaris_maroon_data_domain;

gen_require(
    attribute polaris_extended_domain;
)

files_tmp_filetrans(polaris_extended_domain, polaris_maroon_base_t, dir, "maroon_stats")

type polaris_zram_device_t;
dev_node(polaris_zram_device_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismemory.te
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# February 2020, Victor Kamensky
#
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#

policy_module(polarisomp, 1.0);

gen_require(
    type polaris_omp_t;
')
polaris_chasfs_manage(polaris_omp_t)
polaris_cpld_read(polaris_omp_t)
polaris_flashlib_read(polaris_omp_t)
polaris_tdlresolve_read(polaris_omp_t)
polaris_ripc_sman_ui_serv_connect(polaris_omp_t)
polaris_db_tlddb_dir_use(polaris_omp_t)
logging_send_syslog_msg(polaris_omp_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_omp_t)

# omp_daemon_init calls posix_sysconf
dev_read_sysfs(polaris_omp_t)

# reads /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_omp_t)

# vip_util_set_fd_limits set files limits
allow polaris_omp_t self:process setrlimit;

# omp connects to omp listener tcp port 17900
corenet_tcp_connect_polaris_omp_port(polaris_omp_t)
# # vip_util_tcp_set resets opens /proc/1/ns/net
polaris_cedge_reset_ns(polaris_omp_t)
# # vip_util_set_ns opens /var/run/netns/*
polaris_cedge_set_ns(polaris_omp_t)

#omp_peer_active_connect() binds to OMP address
corenet_tcp_bind_generic_node(polaris_omp_t)
allow polaris_omp_t self:tcp_socket { bind connect create getopt setopt }

# omp starts worker thread under CPU affinity
allow polaris_omp_t self:process setsched;

# connects to ttm unix domain socket in msgq_connect_timer
polaris_ttm_var_sock_write(polaris_omp_t)
# connects to ftm unix domain socket in msgq_connect_timer
polaris_ftm_var_sock_write(polaris_omp_t)

Found in path(s):
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#
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#
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#

### <summary>Polaris Btrace Policy Rules.</summary>

# Polaris cpp (ultra)

### Work (read, write, ioctl) with /dev/cpp_dev_info and /dev/cpp_vxe_rsrc
devices.

### <summary>
### Domain allowed access.
### </summary>

## <param name="domain">
### <summary>
Make the specified domain as polaris cpp process.
</summary>

### <param name="type">
Type to be used as a cpp process.
</param>

### <summary>
Make the specified domain able to use cpp /tmp files.
</summary>

### <param name="type">
Domain allowed access.
</param>

### <param name="object">
File name in /tmp that domains creates and other cpp process access.
</param>

#
gen_require(`
    type polaris_cpp_tmp_t;
`)

files_tmp_filetrans($1, polaris_cpp_tmp_t, file, $2)
manage_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
allow $1 polaris_cpp_tmp_t:file map;
`)

########################################
## <summary>
##      Specified domain can execute polaris_cpp_tmpifs_t code
##      which resides in /dev/shm/cpp_ucode_dram
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cpp_tmpfs_exec`,
    gen_require(`
    type polaris_cpp_tmpfs_t;
`)

    allow $1 polaris_cpp_tmpfs_t:file execute;
`)

########################################
## <summary>
##      Read write from polaris_cpp_tmpfs_t file
##      Example is ifdev shared memory /dev/shm/cpp_ifdev_shmem
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cpp_tmpfs_ifdev_rw`,
    gen_require(`
    type tmpfs_t;
    type polaris_cpp_tmpfs_t;
`)

    rw_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
    allow $1 polaris_cpp_tmpfs_t:file map;
`)


## <summary>
## Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
# interface('polaris_cpp_tmp_ifdev_use',
#     gen_require(
#     type polaris_cpp_tmp_t;
# )
#
# manage_fifo_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
# allow $1 polaris_cpp_tmp_t:file map;
# )

## <summary>
## Make the specified domain able to getattr of /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
# interface('polaris_cpp_tmp_ifdev_getattr',
#     gen_require(
#     type polaris_cpp_tmp_t;
# )
#
# getattr_fifo_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
# )

## <summary>
## Allow process to use Cavium SDK sysv IPC primitives
## created by octeon_pci_dmap.c. Those could be created either
## by cpp_driver (usually) or by cpp_cdm on utah and overlord,
## and by cm_fp on neptune.
##
##
```c
# interface('polaris_cpp_cavium_sdk_ipc_use',
  ifdef('crankshaft_family',
    polaris_cpp_driver_sem_use($1)
    polaris_cpp_driver_shm_use($1)
  optional_policy(''
    polaris_cpp_cdm_sem_use($1)
    polaris_cpp_cdm_shm_use($1)
  ')
  optional_policy(''
    polaris_cm_fp_sem_use($1)
    polaris_cm_fp_shm_use($1)
  ')
  # allow scan pci/devices proc dir
  kernel_getattr_proc_files($1)
  kernel_write_proc_files($1)
  kernel_read_system_state($1)
  ')
)

# Work (read, write, ioctl) with /dev/i95 devices
# interface('polaris_i95_dev_use',
  gen_require(''
    type device_t;
    type polaris_i95_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_i95_device_t)
  read_chr_files_pattern($1, device_t, polaris_i95_device_t)
  allow $1 polaris_i95_device_t:chr_file map;
  ')
```

## Work (read, write, map) with sysfs files required by cavium library in o2_cavm_mem_map.

### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>

```
interface(`polaris_cpp_cavium_dma_map',
    gen_require(
        type sysfs_t;
    ')

    mmap_files_pattern($1, sysfs_t, sysfs_t)
    dev_rw_sysfs($1)
    ')

```

### <summary>
### Manage /dev/shm files
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>

```
interface(`polaris_cpp_tmpfs_manage',
    gen_require(
        type polaris_cpp_tmpfs_t;
        type tmpfs_t;
    ')

    fs_tmpfs_filetrans($1, polaris_cpp_tmpfs_t, file)
    manage_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
    allow $1 polaris_cpp_tmpfs_t:file map;
    ')

```

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscpp.if
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#
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#

/dev/cpld -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-ha -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-misc-int -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-fp -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-cc -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscpld.fc
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#  
# Nov 2020, Swati Kumari  
#  
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#  
## <summary>Polaris PTPD Policy Rules.</summary>  
#

### Polaris PTPD Policy Rules.</

```
# Work (read, write, ioctl) with /dev/blzi_fpga

interface('polaris_blzi_dev_use',
    gen_require(
        type device_t;
        type polaris_blzi_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_blzi_device_t)
    read_chr_files_pattern($1, device_t, polaris_blzi_device_t)
    allow $1 polaris_blzi_device_t:chr_file map;
)
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisptpd.if
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dnl

dnl April 2018, Victor Kamensky
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```
define(`ripc_stem', `translit(patsubst($1, `-ripc$', `'), `-', `_'))
define(`ripc_label', `format(`polaris_%s_ripc_port_t', ripc_stem($1)))

Ripc Type Map: track that type declarations unique
define(`ripc_type_map', `defn(format(``ripc_type_map[%s]'' , `$1')))
define(`ripc_type_map_set', `define(format(``ripc_type_map[%s]'', `$2''), `$1', `$2'))
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_ripc.m4
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#  
# March 2017, Victor Kamensky  
#  
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#

/usr/binos/conf/mcp_monitor_process_batchmode.sh --  
gen_context(system_u:object_r:polaris_monitor_process_exec_t,s0)
/usr/binos/conf/pkg_summary.sh  --  gen_context(system_u:object_r:polaris_pkg_summary_exec_t,s0)
/usr/binos/conf/pkg_to_tree.sh  --  gen_context(system_u:object_r:polaris_pkg_to_tree_exec_t,s0)

/tmp/myhostname  
gen_context(system_u:object_r:polaris_hm_tmp_t,s0)
/tmp/show_provision_temp(/.*)? 
gen_context(system_u:object_r:polaris_show_provision_tmp_t,s0)
/tmp/fs_lock_bootflash 
gen_context(system_u:object_r:polaris_cli_fs_cmds_tmp_t,s0)
# used by "sh pla so filesystem bootflash: de" CLI

/usr/binos/conf/mcp_cli_fs_cmds.sh --  gen_context(system_u:object_r:polaris_cli_fs_cmds_exec_t,s0)
# used by "show platform software yang-management process monitor" CLI
/usr/binos/conf/mcp_monitor_dmi_proc.sh --  
gen_context(system_u:object_r:polaris_monitor_dmi_process_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarishm.fc
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#  
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#  
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#

## <summary>Polaris polarisrollbacktimer Policy Rules.</summary>
## <summary>
## Manage rbtimer file on bootflash (i.e /bootflash/.rollback_timer)
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

interface(`polaris_rbtimer_bootflash_manage',`
    gen_require(`
        type polaris_disk_bootflash_t;
        type polaris_rbtimer_bootflash_t;
    `)
    manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t)
    manage_files_pattern($1, polaris_rbtimer_bootflash_t, polaris_rbtimer_bootflash_t)
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t, dir, ".rollback_timer")
    `)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrollbacktimer.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarslipc, 1.0);

# LIPC policy

gen_require(`
    type polaris_pvp_t;
    attribute polaris_extended_domain;
    `)

type polaris_lipc_t;
files_type(polaris_lipc_t)

files_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")
init_script_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")
in some cases pvp.sh creates lipc tmp directory it needs permissions for that
manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_lipc_t)

```c

gen_require(
    attribute polaris_extended_domain;
    type polaris_pvp_tmp_t;
')
filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_lipc_t, dir, "lipc")
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislipc.te
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#
# March 2017, Victor Kamensky
#
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#
### <summary>Polaris LIPC Policy Rules.</summary>

# LIPC policy

```c

interface(`polaris_lipc_manage',`
    gen_require(`
        type polaris_lipc_t;
')
    manage_dirs_pattern($1, polaris_lipc_t, polaris_lipc_t)
    manage_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
    manage_lnk_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
    manage_fifo_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
    manage_sock_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
')
```

```c

# LIPC policy
```
### <summary>
### Getattr of lipc files directories
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolebase/>
#
# interface('polaris_lipc_getattr';
gen_require(''
type polaris_lipc_t;
')
getattr_dirs_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattr_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattr_lnk_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattrfifo_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattr_sock_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
')

### <summary>
### Create lipc file
### </summary>
### <param name="domain">
### Domain allowed creating lipc channel.
### </param>
### <param name="channel_domain">
### Domain assigned to lipc channel.
### </param>
### <param name="channel_name">
### File name of lipc channel.
### </param>
#
# interface('polaris_lipc_create_name';
gen_require(''
type polaris_lipc_t;
')
type_transition $1 polaris_lipc_t : sock_file $2 $3;
manage_sock_files_pattern($1, polaris_lipc_t, $2)

polaris_socketat_nsfs_read($1)

# not specific enough
# type_transition $1 $1 : unix_stream_socket $2;
# allow $1 $2:unix_stream_socket { listen accept bind create write read };
')

############################################################
## <summary>
## Write lipc file
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to connect and write into lipc file.
## </summary>
## </param>
## <param name="channel_domain">
## <summary>
## Domain assigned to lipc channel.
## </summary>
## </param>
## <param name="server">
## <summary>
## Domain of owner of lipc channel.
## </summary>
## </param>
#
# interface('polaris_lipc_write',`
gen_require(`
type polaris_lipc_t;
')

   write_sock_files_pattern($1, polaris_lipc_t, $2)
   allow $1 $3:unix_stream_socket { connectto };

   polaris_socketat_nsfs_read($1)
')

Found in path(s):
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#
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#

### <summary>Polaris repm Policy Rules.</summary>

```
######################################
### <summary>
###  Manage /tmp/replications files.
### </summary>
### <param name="domain">
###   <summary>
###   Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_repm_tmp_manage',
  gen_require(`
    type polaris_repm_tmp_t;
  ')
    manage_files_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)
    manage_dirs_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)
')
```

```
######################################
### <summary>
###  Manage /dev/shm/mq.-repm_peer_mq/ files.
### </summary>
### <param name="domain">
###   <summary>
###   Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_repm_peer_mqipc_manage',
  gen_require(`
    type polaris_repm_peer_mqipc_t;
  ')
    manage_files_pattern($1, polaris_repm_peer_mqipc_t, polaris_repm_peer_mqipc_t)
    allow $1 polaris_repm_peer_mqipc_t:file map;
    polaris_mqipc_create_name_dir($1, polaris_repm_peer_mqipc_t, repm_peer_mq)
')
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrepm.if
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#
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#
#
# August 2018 Man-Yee Hau
#
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/usr/cpp/bin/qfp-ucode-csr -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csr-us -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csx -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-c8kv -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-wlc -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-utah -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tns -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tns-le -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-supernova -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-blackheart -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-sparrow -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-aventus -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-cabo -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-goldbeach -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-radium -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-fugazi -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-sumatra -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-nanook -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/var/run/.rte_config -- gen_context(system_u:object_r:polaris_qfp_var_run_t,s0)

/dev/netmap -c gen_context(system_u:object_r:polaris_netmap_device_t,s0)
/dev/svc_eng_punt[0-9]* -c gen_context(system_u:object_r:polaris_sep_device_t,s0)

# qfp memif interfaces
/bootflash/SHARED-IOX/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)
/tmp/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)

# CSR & C8KV infiniband devices for Azure
/dev/infiniband/uverbs[0-9]* -c gen_context(system_u:object_r:polaris_infiniband_device_t,s0)

/etc/rc.d/init.d/iodbd.sh -- gen_context(system_u:object_r:polaris_iobd_exec_t,s0)

# For Intel quickassist (qat) v1.5 - Note that mcp_family also includes this.
# fugazi uses polarismcp.fc and polarsiqfp.fc so need to exclude it here.
ifndef(`mcp_family',`
/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
# For platforms which use Intel quickassist (qat) v1.7
/dev/usdm_drv          -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_adf_ctl       -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# For platforms which use the musdk from the Marvell 10.3.x.x SDK
/dev/musdk-cma         -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisqfp.fc
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dnl
dnl April 2018, Victor Kamensky

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dnl divert(-1)

include(`polaris_process.m4')
include(`polaris_process_fc.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_fc.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_fc.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_fc.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',"")
define(`polaris_cipc_service_server',"")

include(`polaris_max_scope.m4')

divert(0)dnl

#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_fc.m4
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#

/dev/quack -c gen_context(system_u:object_r:polaris_quack_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisquack.fc
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#

## <summary>Polaris polarisoom Policy Rules.</summary>

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisoom.if
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#
# August 2017, Shawn Lu
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#

policy_module(polariswncmgrd, 1.0);

gen_require(
    type polaris_wncmgrd_t;
')
polaris_btrace_data_manage(polaris_wncmgrd_t)
polaris_chasfs_manage(polaris_wncmgrd_t)
polaris_ldresolve_read(polaris_wncmgrd_t)
polaris_tldldb_list_dirs(polaris_wncmgrd_t)
polaris_cpld_read(polaris_wncmgrd_t)
polaris_lua_read(polaris_wncmgrd_t)
polaris_flashlib_read(polaris_wncmgrd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wncmgrd_t)
polaris_db_tdlldb_dir_use(polaris_wncmgrd_t)

#allow setrlimit
allow polaris_wncmgrd_t self:process setrlimit;
allow polaris_wncmgrd_t self:capability sys_resource;
allow polaris_wncmgrd_t self:capability dac_override;
allow polaris_wncmgrd_t self:tcp_socket { shutdown };

#allow wncmgrd UDP socket operations
allow polaris_wncmgrd_t self:udp_socket { bind getattr setopt };
corenet_udp_bind_generic_node(polaris_wncmgrd_t)

#allow wncmgrd module to do ioctl,open,read,write operations on char file
polaris_lfts_dev_use(polaris_wncmgrd_t)

# it use tcp port 9090 and9091(polaris_wnc_mgrd_port)
corenet_tcp_bind_polaris_wnc_mgrd_port(polaris_wncmgrd_t)

# For ewlc, wncd and wncmgrd needs access to files under /mnt/images/...these
# are related to AccessPoint images

polaris_wlc_ap_images_read(polaris_wncmgrd_t)
polaris_odm_clnt2svr_mqipc_create(polaris_wncmgrd_t)
polaris_tdlldbpersist_setup(polaris_wncmgrd_t)
polaris_tmp_tdlldb_persist_setup(polaris_wncmgrd_t)
logging_send_syslog_msg(polaris_wncmgrd_t)

# bind CAPWAP control and data
corenet_udp_bind_polaris_capwap_ctr_port(polaris_wncmgrd_t)
corenet_udp_bind_polaris_capwap_data_port(polaris_wncmgrd_t)

# wncmgrd accessing NA certificate to push to AP
type polaris_icap_cert_t;
polaris_pfile_type(polaris_icap_cert_t)
#wncmgrd receives the certificate file from IOSd via IPC
#and writes to /bootflash for ICap feature
#and hence requires access.
gen_require('type polaris_icap_cert_t;
')
filetrans_pattern(polaris_wncmgrd_t, polaris_disk_bootflash_t, polaris_icap_cert_t, file, "NACert.pem")
allow polaris_wncmgrd_t polaris_icap_cert_t:file { write create open getattr unlink };

#allow tcp connection from http port for awips file download
#from DNAC
corenert_tcp_connect_http_port(polaris_wncmgrd_t)

#allow read/write/mmap access to awips file
gen_require('type polaris_awips_signature_file_t;
')
filetrans_pattern(polaris_wncmgrd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
allow polaris_wncmgrd_t polaris_awips_signature_file_t:file { map write create read open getattr unlink };

#allow read access to resolv.conf
sysnet_read_config(polaris_wncmgrd_t)

#ewlc_capwap_dgram_srvr_create_raw_send_socket () creates a socket
#creates sll.sll_family = AF_PACKET;
#sll.sll_ifindex = dgram_io_desc->lfts_ifindex;
#sll.sll_protocol = htons(ETH_P_ALL);

allow polaris_wncmgrd_t self:packet_socket { create_socket_perms setopt };
allow polaris_wncmgrd_t self:rawip_socket { create_socket_perms setopt ioctl };

allow polaris_wncmgrd_t self:capability net_raw;
corenert_raw_bind_generic_node(polaris_wncmgrd_t)

gen_require('type port_t;
')
allow polaris_wncmgrd_t port_t:rawip_socket name_bind;

# allow tmp symlinks
fs_read_tmpfs_symlinks(polaris_wncmgrd_t)

# allow tmp file read
polaris_install_tmp_read(polaris_wncmgrd_t)

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariswncmgrd.te
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#
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#

policy_module(polarislsmpi, 1.0);

################################################################################
# Polaris lsmpi
################################################################################

type polaris_lsmpi_device_t;
dev_node(polaris_lsmpi_device_t)

# note polaris_sysfs_contdev_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

# punt/inject working through unix domain sockets

type polaris_pi_uds_t;
files_tmp_file(polaris_pi_uds_t)

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislsmpi.te
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dnl

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#
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max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/petramaps.m4
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#

### <summary>Polaris dmi_ndbmand Policy Rules.</summary>

### <summary>
## Work with NDBLOAD_LOCK_PATH.
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>

```c
interface('polaris_ndbload_lock_use',
gen_require(`
type polaris_dmi_ndbutil_lock_t;
type tmp_t;
`)
manage_files_pattern($1, tmp_t, polaris_dmi_ndbutil_lock_t)
files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-load")
files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-use")
`)
```

### <summary>
## Manage polaris_ndbmand_ndbutil_t files
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>

```c
interface('polaris_ndbmand_ndbutil_manage',
gen_require(`
type polaris_ndbmand_ndbutil_t;
type polaris_confd_ndbutil_lock_t;
`)
manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_ndbmand_ndbutil_t)
`)
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmindbmand.if
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#

### <summary>Polaris MCP Platform Policy Rules.</summary>

### <summary>
## Work (read, write, ioctl) with /dev/scooby
## </summary>
### <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_scooby_dev_use',
gen_require(
    type device_t;
    type polaris_scooby_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_scooby_device_t)
    read_chr_files_pattern($1, device_t, polaris_scooby_device_t)
')

### <summary>
## Work (read, write, ioctl) with /dev/spa[0123]
## </summary>
### <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_spa_dev_use',
gen_require(
    type device_t;
    type polaris_spa_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_spa_device_t)
    read_chr_files_pattern($1, device_t, polaris_spa_device_t)
    allow $1 polaris_spa_device_t:chr_file map;
')

#
interface(`polaris_htdp_dev_use',``
gen_require(`
    type device_t;
    type polaris_htdp_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_htdp_device_t)
    read_chr_files_pattern($1, device_t, polaris_htdp_device_t)
    `)

interface(`polaris_sysfs_platform_dev_use',``
gen_require(`
    type polaris_sysfs_platform_t;
    `)
    manage_files_pattern($1, polaris_sysfs_platform_t, polaris_sysfs_platform_t)
    `)

interface(`polaris_ds31408_dev_use',``
gen_require(`
    type device_t;
type polaris_ds31408_device_t;

`) rw_chr_files_pattern($1, device_t, polaris_ds31408_device_t)

`) #<summary>
## Allow access to /dev/cbdma
</summary>
<p>

<param name="domain">
## Domain allowed access.
</param>
</p>

interface(`polaris_cbdma_dev_use',

gen_require(`

type device_t;

type polaris_cbdma_device_t;

`) write_chr_files_pattern($1, device_t, polaris_cbdma_device_t)
read_chr_files_pattern($1, device_t, polaris_cbdma_device_t)
allow $1 polaris_cbdma_device_t:chr_file map;

`) #<summary>
## Allow access to /dev/cpp_htdp
</summary>
<p>

<param name="domain">
## Domain allowed access.
</param>
</p>

interface(`polaris_cpp_htdp_dev_use',

gen_require(`

type polaris_cpp_htdp_device_t;

`) write_chr_files_pattern($1, device_t, polaris_cpp_htdp_device_t)
read_chr_files_pattern($1, device_t, polaris_cpp_htdp_device_t)
allow $1 polaris_cpp_htdp_device_t:chr_file map;

`) #<summary>
## Allow access to /dev/n2_device
</summary>
<p>

<param name="domain">

</p>
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_n2_dev_use',
    gen_require('type device_t;
        type polaris_n2_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_n2_device_t)
    read_chr_files_pattern($1, device_t, polaris_n2_device_t)
')

########################################
## Allow access to /dev/cy2213
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_cy2213_dev_use',
    gen_require('type device_t;
        type polaris_cy2213_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
    read_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
')

########################################
## Allow access to /dev/vega
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_vega_dev_use',
    gen_require('type device_t;
        type polaris_vega_device_t;
    ')
)
write_chr_files_pattern($1, device_t, polaris_vega_device_t)
read_chr_files_pattern($1, device_t, polaris_vega_device_t)
')

########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/dash_fpga device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_dash_dev_mcp_use',
    
    gen_require(`
    type device_t;
    type polaris_dash_device_t;
    `)
        write_chr_files_pattern($1, device_t, polaris_dash_device_t)
    read_chr_files_pattern($1, device_t, polaris_dash_device_t)
    allow $1 polaris_dash_device_t:chr_file map;
    `)

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismcp.if
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policy_module(polarisdmiodatamgrd, 1.0);

gen_require(`
    type polaris_dmi_opdatamgrd_t;
    `)

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_dmi_opdatamgrd_t)

# work with /var/log/dmi/ files
type polaris_dmi_var_log_t;
logging_log_file(polaris_dmi_var_log_t)
manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
manage_dirs_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
logging_log_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, dir, "dmi")
polaris_chasfs_manage(polaris_dmi_opdatamgrd_t)
polaris_btrace_data_manage(polaris_dmi_opdatamgrd_t)
polaris_cpld_read(polaris_dmi_opdatamgrd_t)
polaris_boot_tmp_read(polaris_dmi_opdatamgrd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_dmi_opdatamgrd_t)

# this (opdatamgrd.sh) process is shell script need permission to execute shell
# and variety of small util commands under bin_t
corecmd_exec_shell(polaris_dmi_opdatamgrd_t)
corecmd_exec_bin(polaris_dmi_opdatamgrd_t)

# allow read of /etc/passwd
# passwd_file_t:file { getattr open read };
auth_use_nsswitch(polaris_dmi_opdatamgrd_t)

# opdatamgrd.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_dmi_opdatamgrd_t)
# ps needs access to proc_t
kernel_read_system_state(polaris_dmi_opdatamgrd_t)

allow polaris_dmi_opdatamgrd_t self:capability { sys_resource dac_override };

# handling of /tmp/stream-parsers
type polaris_dmi_parser_t;
files_tmp_file(polaris_dmi_parser_t)
files_tmp_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, dir, "stream-parsers")
manage_dirs_pattern(polaris_dmi_opdatamgrd_t, tmp_t, polaris_dmi_parser_t)
manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, polaris_dmi_parser_t)
mount_domtrans(polaris_dmi_opdatamgrd_t)

# confd_cli runs under our label
allow polaris_dmi_opdatamgrd_t self:tcp_socket create_socket_perms;

# runs ps that wants to have access to containers files
optional_policy(`
polaris_disk_vman_dir_list(polaris_dmi_opdatamgrd_t)
`)
polaris_sandbox_file_dir_list(polaris_dmi_opdatamgrd_t)
polaris_sandbox_file_getattr(polaris_dmi_opdatamgrd_t)
# runs find to search all `parse.*` files
# find . -perm /111 -name parse.* -exec basename {} ;
# LOOK AT ME it seems that it does search on customer visible
directories, can and whether customer supposed to be
able give parse.* files to dmi opdatamgrd, could it
be exploited?
files_getattr_all_files(polaris_dmi_opdatamgrd_t)
files_getattr_all_dirs(polaris_dmi_opdatamgrd_t)

# access to /dev/pts/
ssh_use_ptys(polaris_dmi_opdatamgrd_t)

directly work with to /dev/ttyS1
term_use_unallocated_ttys(polaris_dmi_opdatamgrd_t)

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmiopdatamgrd.te
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#
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#
/usr/bin/os/conf/run_ioxn_caf.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)
/usr/bin/os/conf/iox_reset.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)

ifdef(`nyquist_platform',
/usr/bin/os/conf/standby_ioxcfg.sh -- gen_context(system_u:object_r:polaris_sioxcd_rp_exec_t,s0)
/tmp/app_host(/.*)? gen_context(system_u:object_r:polaris_sioxcd_rp_tmp_t,s0)
/mnt/sd3/iox_alt_hdd.disk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir(/.*)? gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox_tmpfiles(/.*)? gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_caf_data_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/guest_share(/.*)? gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/mnt/sd3/user/gs_script/sss(/.*)? gen_context(system_u:object_r:polaris_iox_ss_disk_t,s0)
)

ifdef(`passport_platform',
/flash1/iox_alt_hdd.disk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/flash1/iox_alt_hdd_mount_dir(/.*)? gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/cafs(/.*)? gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6025
# All possible accesses from /bootflash/iox_alt_hdd_mount_dir (iox_polaris.conf)

/flash1/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/guest_share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)

# All the possible IOX guestshell_dir from iox_polaris.conf

/guestshell/(.*)?/*.sh  gen_context(system_u:object_r:polaris_guestshell_exec_t,s0)
/guestshell(/.*)?  gen_context(system_u:object_r:polaris_guestshell_t,s0)

# All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf

/boottlash/iox(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash11/iox(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/harddisk/iox(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/disk0/iox(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/usb1/iox(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)

/boottlash/iox_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash11/iox_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/harddisk/iox_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/disk0/iox_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/usb1/iox_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)

/boottlash/iox_host_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_host_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_host_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash11/iox_host_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/harddisk/iox_host_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/disk0/iox_host_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/usb1/iox_host_data_share(/.*)?  gen_context(system_u:object_r:polaris_iox_files_t,s0)
policy_module(polarisfpm, 1.0);

# All the possible IOX bootflash/guest-share directory. This directory is shared between IOS and IOX
/bootflash/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/mnt/sd3/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_ios_shared_files_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscaf.fc

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#
# February 2020, Victor Kamensky
#
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#

policy_module(polarisfpm, 1.0);
gen_require(
    type polaris_fpm_t;
)
polaris_chasfs_manage(polaris_fpm_t)
polaris_cpld_read(polaris_fpm_t)
polaris_flashlib_read(polaris_fpm_t)
polaris_tdlresolve_read(polaris_fpm_t)
polaris_ripc_sman_ui_serv_connect(polaris_fpm_t)
polaris_db_tdlldb_dir_use(polaris_fpm_t)
logging_send_syslog_msg(polaris_fpm_t)

# vconfd_load_shared_schemas
polaris_confid_shared_schema_read(polaris_fpm_t)

# /var/run/.fpmd socket and pid
type polaris_fpm_var_run_t;
files_pid_file(polaris_fpm_var_run_t)
manage_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)
manage_sock_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)
files_pid_filetrans(polaris_fpm_t, polaris_fpm_var_run_t, { file sock_file })
polaris_ttm_var_sock_write(polaris_fpm_t)

# fp_scaling_init calls posix_sysconf
dev_read_sysfs(polaris_fpm_t)

# PLEASE LOOK AT ME: write access to /boot/hugepage.conf
# which on ultra translates into /varied/hugepage.conf access
# But no code in polaris uses it
polaris_disk_varied_manage(polaris_fpm_t)
files_manage_boot_files(polaris_fpm_t)
polaris_cedge_tmpfs_manage(polaris_fpm_t)
polaris_fmrp2fpm_mqipc_use(polaris_fpm_t)

# manually create mqipc channel: missing in TDL
type polaris_fpm2fmrp_mqipc_t;
polaris_mqipc_type(polaris_fpm2fmrp_mqipc_t)
polaris_mqipc_create_name(polaris_fpm_t, polaris_fpm2fmrp_mqipc_t, fpm2fmrp_vulcan_mqipc)

# fp_scaling_read_core_count accesses cgroups file at
#/sys/fs/cgroup/cpu/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_fpm_t)
No license file was found, but licenses were detected in source scan.

#  
# Sep 2020, Sridhar C  
#  
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#  
# /tmp/tlscd(/.*)? gen_context(system_u:object_r:polaris_tlscd_uds_t,s0)  

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

#  
# November 2020, Christine Hwang  
#  
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#  
### <summary>Polaris Cabo GNSS Policy Rules.</summary>  

`interface('polaris_cabo_gnss_dev_use',`  

gen_require(  
    type device_t;  
    type polaris_cabo_gnss_device_t;  
  `)
write_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
read_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
allow $1 polaris_cabo_gnss_device_t:chr_file map;
`)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscabognss.if
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dnl

dnl April 2018, Victor Kamensky

dnl

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dnl

dnl VXE Platform Max Bay Limits

max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 0)
max_bay_map_set('fp', 'per_bay', 0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/vxemaps.m4

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#  
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#  
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#  
/usr/binos/conf/btdecode -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)  
/usr/binos/conf/bttail -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)  
/usr/binos/conf/mcp_trace_filter.sh -- gen_context(system_u:object_r:polaris_trace_filter_exec_t,s0)  
/usr/binos/conf/mcp_trace_request.sh -- gen_context(system_u:object_r:polaris_trace_request_exec_t,s0)

/tmp/btrace_luids_file.cdb.tmp -- gen_context(system_u:object_r:polaris_create_ldb_tmp_t,s0)  
/tmp/btrace_luids_file.cdb -- gen_context(system_u:object_r:polaris_create_ldb_tmp_t,s0)

/tmp/cc/0/trace/(.*)? gen_context(system_u:object_r:polaris_btrace_base_t,s0)  
/tmp/cc/0/trace/fifo/(.*)? gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)  
/tmp/fp/trace/(.*)? gen_context(system_u:object_r:polaris_btrace_base_t,s0)  
/tmp/fp/trace/fifo gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)  
/tmp/rp/trace/(.*)? gen_context(system_u:object_r:polaris_btrace_base_t,s0)  
/tmp/rp/trace/fifo gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)

/dev/shm/sem.uuid_sem gen_context(system_u:object_r:polaris_btrace_tmpfs_t,s0)  
/dev/shm/oper_uuid_shm gen_context(system_u:object_r:polaris_btrace_tmpfs_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbtrace.fc
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#
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#

## <summary>Polaris cedge_start Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscedgestart.if
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#
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#

/usr/binos/conf/psvp.sh -- gen_context(system_u:object_r:polaris_psvp_exec_t,s0)
/tmp/rp/psvp -d gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/not_fifo -p gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/pvp.pid -- gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispsvp.fc
No license file was found, but licenses were detected in source scan.

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#
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#

## <summary>Polaris polarississucompcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisissucompcheck.if
No license file was found, but licenses were detected in source scan.

# November 2020, Christine Hwang
#
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#
#
### <summary>Polaris bbu Policy Rules.</summary>

#########################################################################
### <summary>
### Work (read, write, ioctl) with /dev/ttyS2
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_bbu_dev_use',
    gen_require(,
        type device_t;
        type polaris_bbu_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_bbu_device_t)
    read_chr_files_pattern($1, device_t, polaris_bbu_device_t)
    allow $1 polaris_bbu_device_t:chr_file map;
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbbu.if
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#

/tmp/lsn.log -- gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)
/tmp/epc_ws(/.*)? gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)

# CLI: show platform software wireshark
/usr/binos/conf/wireshark_show.sh -- gen_context(system_u:object_r:polaris_wireshark_show_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisepcwsliaison.fc
No license file was found, but licenses were detected in source scan.
# polarismqipc file contexts place holder

Found in path(s):
* /opt/cola/permissions/1194465592_1641580217.30/selinux-tar/selinux/polarismqipc.fc
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#
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#
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#

## <summary>Polaris dmi_dmiauthd Policy Rules.</summary>

########################################
## <summary>
##     Connect to and send messages to dmiauthd.
## tmp/.DmiAuth.sock unix datagram sockets.
## </summary>
## <param name="domain">
##     Domain allowed access.
## </param>
#
interface(`polaris_dmi_dmiauthd_dgram_send',`
gen_require(`
    type polaris_dmi_dmiauthd_tmp_t;
    type polaris_dmi_dmiauthd_t;
')
allow $1 self:unix_stream_socket { create_socket_perms);
allow $1 polaris_dmi_dmiauthd_t:unix_stream_socket { connectto };
write_sock_files_pattern($1, polaris_dmi_dmiauthd_tmp_t,polaris_dmi_dmiauthd_tmp_t)
')

########################################
## <summary>
##      Manage dmiauthd fifo files
## </summary>
## <param name="domain">
# interface('polaris_dmiauthd_tmp_manage',
    gen_require(
        type polaris_dmi_dmiauthd_tmp_t;
        tmp_t;
    )
    manage_fifo_files_pattern($1, tmp_t, polaris_dmi_dmiauthd_tmp_t)
)

# interface('polaris_dmiauthd_use_fifo',
    gen_require(
        type polaris_dmi_dmiauthd_t;
    )
    write_fifo_files_pattern($1, polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_t)
)

# interface('polaris_dmiauthd_tmp_diags_manage',
    gen_require(
        type polaris_dmi_dmiauthd_tmp_diags_t;
    )
    manage_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
    manage_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
manage_link_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
')

#######################################
## <summary>
## Read /tmp/netconf-yang-diag/ files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
# interface(`polaris_dmiauthd_tmp_diags_read',
  gen_require(
    type polaris_dmi_dmiauthd_tmp_diags_t;
  )
read_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
list_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
read_lnk_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polarisdmidmiauthd.if
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#
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#

policy_module(polaristservice, 1.0);

polaris_process_domain_template(tservice_telnet)

polaris_process_domain_template(tservice_ssh)

gen_require(
  type inetd_exec_t, inetd_t;
')
dontrans_pattern(polaris_tservice_telnet_t, inetd_exec_t, inetd_t)

polaris_chasfs_manage(polaris_tservice_telnet_t)
polaris_btrace_data_manage(polaris_tservice_telnet_t)
polaris_cpld_read(polaris_tservice_telnet_t)
polaris_boot_tmp_read(polaris_tservice_telnet_t)
polaris_rmonbifo_tmp_read(polaris_tservice_telnet_t)

corecmd_exec_shell(polaris_tservice_telnet_t)
corecmd_exec_bin(polaris_tservice_telnet_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_tservice_telnet_t)

dmidecode_domtrans(polaris_tservice_telnet_t)

allow polaris_tservice_telnet_t self:capability sys_resource;
kernel_read_system_state(polaris_tservice_telnet_t)

gen_require('  
  type initrc_exec_t, initrc_t;
')

domtrans_pattern(polaris_tservice_telnet_t, initrc_exec_t, initrc_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_tservice_telnet_t)

# /bin/sh /usr/binos/conf/mcp_chvrf.sh eobc /usr/sbin/xinetd -f
#   /tmp/chassis/local/rp/chasfs/rp/0/0/etc/telnet/xinetd_telnetd.conf
polaris_chvrf_domtrans(polaris_tservice_telnet_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristservice.te
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/tmp/.ncsshd_bp\.sock -s gen_context(system_u:object_r:polaris_dmi_ncsshd_log_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdminctsshdfwd.fc
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky # # Copyright (c) 2016-2019 by Cisco Systems, Inc. # All rights reserved
policy_module(polarisfnagg, 1.0);

generate('.
    type polaris_fnf_agg_t;
')

polaris_btrace_data_manage(polaris_fnf_agg_t)
polaris_crtf_data_manage(polaris_fnf_agg_t)
polaris_chasfs_read(polaris_fnf_agg_t)
polaris_idlresolve_read(polaris_fnf_agg_t)
polaris_lua_read(polaris_fnf_agg_t)
polaris_flashlib_read(polaris_fnf_agg_t)
polaris_cpld_read(polaris_fnf_agg_t)
polaris_ripc_sman_ui_serv_connect(polaris_fnf_agg_t)
polaris_db_tdldb_dir_use(polaris_fnf_agg_t)

allow polaris_fnf_agg_t self:capability { dac_override dac_read_search };

type polaris_fnf_agg_tmp_t;
files_tmp_file(polaris_fnf_agg_tmp_t)
files_tmp_filetrans(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, dir, "fnf_agg")
manage_files_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_t)
manage_dirs_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_t)

# allow sending files over HTTP
corenet_tcp_connect_http_port(polaris_fnf_agg_t)
sysnet_read_config(polaris_fnf_agg_t)

# allow UDP connection for punting fnf records
allow polaris_fnf_agg_t self:udp_socket { create_socket_perms recv_msg };
corenet_udp_bind_generic_node(polaris_fnf_agg_t)
# allow punting on routers/ewlc where lfts is being used
polaris_lfts_dev_use(polaris_fnf_agg_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisfnfagg.te

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#
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#

policy_module(polarisvxe, 1.0);

# hanet driver used by vpcgw platform of VXE family
ifdef(`vpcgw_platform',`
  type polaris_hanet_device_t;
  dev_node(polaris_hanet_device_t)
')

# on ultra in some cloud configuration runs dhclient utility
# receive meta information from cloud provider, /var/lib/dhcp
# directory is created by initrc_t
gen_require(`
  type dhcpc_t;
  type initrc_t;
  type dhcp_state_t;
')
files_var_lib_filetrans({ dhcpc_t initrc_t }, dhcp_state_t, dir, "dhcp")

# during boot on misc cloud environment ultra image creates directory
# in /tmp to keep information received from cloud provider. Since latter
# it is copied into /varied directory let's assigned polaris_disk_varied_t
# to them
gen_require(`
  type initrc_t;
  type polaris_disk_varied_t;
  type unconfined_service_t;
')
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "ami")
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "azure")
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "gcp")

# park policy for small polaris process umbrella_init.sh here
gen_require(`
type polaris_umbrella_init_t;

polaris_bootflash_manage(polaris_umbrella_init_t)
corecmd_exec_bin(polaris_umbrella_init_t)
auth_use_nsswitch(polaris_umbrella_init_t)

# define added to address issues related to dependency
# on mcp-platform-tdl for db defines
# Skip for vpcgw platform
ifndef(`vpcgw_platform',`

type polaris_gnmib_t;
')

type polaris_objstore_sem_t;
files_tmpfs_file(polaris_objstore_sem_t)

# semaphore created by systemd-tmpfiles needs map permission
gen_require(`
    type systemd_tmpfiles_t;
')
mmap_files_pattern(systemd_tmpfiles_t, polaris_objstore_sem_t, polaris_objstore_sem_t)

# on vxe all processes read grub_cisco_version in polaris_disk_varied_t
gen_require(`
    attribute polaris_domain;
')
polaris_disk_varied_search(polaris_domain)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

type polaris_vxeinstall_info_t;
polaris_pfile_type(polaris_vxeinstall_info_t)
gen_require(`
    type unconfined_service_t;
    type polaris_disk_varied_t;
')

# unconfined service create /boot/.install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vxeinstall_info_t, file, "./install_info")

# on C8KV all processes read grubenv in EFI disk partition
gen_require(`
    attribute polaris_domain;
')
polaris_grub_efi_search(polaris_domain)
gen_require(
    type unconfined_service_t;
    type polaris_disk_varied_t;
    type polaris_obfl_data_t;
)

# unconfined service create /boot/obfl_temp_k1/2/3 if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k1")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k2")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k3")

# handle /tmp/vxe_disk_XXX_YYY files
gen_require(
    type unconfined_service_t;
)

polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_manage(unconfined_service_t)

# /etc/init.d/sshd that runs under initrc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically bootflash, but on MBRv2/MBRv4/GPTv1/GPTv3
# partition layouts it could be separate /config partition that is
# under polaris_disk_config_t label
gen_require(
    type initrc_t;
    type ssh_home_t;
)
polaris_disk_config_filetrans(initrc_t, ssh_home_t, dir, ".ssh")

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisvxe.te
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#
# October 2019, Patrick O'Halloran
#
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#
## <summary>Polaris CRFT Policy Rules.</summary>
# CRFT policy

## <summary>
## Allow read-only access to CRFT generated files
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

## <param name="file_type">
## File type of crft that corresponds to given domain.
## </param>

# rolebase/

interface(`polaris_crft_data_read',`
    gen_require(`
            type polaris_crft_data_t;
            type polaris_crft_request_t;
            type polaris_crft_request_crft_t;
        `)
    read_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
    polaris_disk_bootflash_read_lnk($1)
    polaris_disk_harddisk_read_lnk($1)
    read_files_pattern($1, polaris_crft_request_crft_t, polaris_crft_request_crft_t)
    allow $1 polaris_crft_request_t:fifo_file { ioctl write };
    `)

## <summary>
## Manage crft persistent files
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

# rolebase/

interface(`polaris_crft_data_manage',`
    gen_require(`
            type polaris_crft_data_t;
        `)
manage_dirs_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
# Note: Based on discussion with SElinux team, we need to call this
# out specifically here for lnk file access, as:
# - NGWC /harddisk -(symlink)-> /misc/scratch -(symlink)-> /mnt/sda3/user
polaris_disk_bootflash_read_lnk($1)
polaris_disk_harddisk_read_lnk($1)
allow $1 polaris_crft_data_t:file map;
"

#######################################
## <summary>
##      Manage crft files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_crft_data_manage_all`,
    polaris_crft_data_manage($1)

    gen_require(`
        attribute polaris_crft_data_domain;
        type polaris_crft_data_t;
    `)
)
manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)
manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)
allow $1 polaris_crft_data_domain:file map;
"

#######################################
## <summary>
##	Make the specified type usable as crft data file type.
## </summary>
## <param name="type">
##	<summary>
##	Type to be used for files.
##	</summary>
## </param>
#
interface(`polaris_crft_data_type`,

# Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6042
## <summary>
##      Process to manage its own crft files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="file_type">
##      <summary>
##      File type of crft that corresponds to given domain.
##      </summary>
## </param>
#
interface('polaris_crft_data_client',
   gen_require(
      type polaris_crft_data_t;
   )
manage_dirs_pattern($1, polaris_crft_data_t, $2)
manage_files_pattern($1, polaris_crft_data_t, $2)
manage_lnk_files_pattern($1, polaris_crft_data_t, $2)
filetrans_pattern($1, polaris_crft_data_t, $2, file)
   allow $1 $2:file map;
')

## <summary>
##      Process to manage its own crft files
## </summary>
## <param name="domain_stem">
##      <summary>
##      Steam of domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_crft_data_client_template',
   gen_require(
      type polaris_crft_data_t;
   )
gen_require(`
    attribute polaris_crtf_data_domain;
    type polaris_crtf_data_t;
`)

type polaris_$1_crtf_t;
polaris_crtf_data_type(polaris_$1_crtf_t)
polaris_crtf_data_client(polaris_$1_t, polaris_$1_crtf_t)
`)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscrft.if
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#
# February 2020, Victor Kamensky
#
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#

### <summary>Polaris ttm Policy Rules.</summary>

#######################################
## <summary>
##      Write ttm /var/run socket file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_ttm_var_sock_write',`
    gen_require(`
        type polaris_ttm_t;
        type polaris_ttm_var_run_t;
        type var_run_t;
    `)
    write_sock_files_pattern($1, var_run_t, polaris_ttm_var_run_t)
    allow $1 polaris_ttm_t:unix_stream_socket { connectto };
`)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristtm.if
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#
# March 2017, Victor Kamensky
#
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#
/tmp/*.chasfs(/.*)? gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis/local/*.chasfs(/.*) gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis(/.*) gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/*.chasasync(/.*)? gen_context(system_u:object_r:polaris_chasync_tmp_t,s0)
/vol/harddisk/sys_report(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/vol/harddisk/fp_cc_crash(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/var/log/chasync(/.*)? gen_context(system_u:object_r:polaris_chasync_log_t,s0)
/usr/binos/conf/chasync.sh -- gen_context(system_u:object_r:polaris_chasync_exec_t,s0)

# real path is /etc/init.d/chasfs_boottime.sh but we need to add rc.d because
# in file_contexts.subs_dist we have substitute rule for /etc/init.d/
/etc/rc.d/init.d/chasfs_boottime.sh -- gen_context(system_u:object_r:polaris_chasfs_boottime_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarischasfs.fc
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris polarissortfiles Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissortfiles.if
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#
# July 2017, Victor Kamensky
#
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#
# polaristamdrp file contexts place holder
dnl

dnl December 2018, Victor Kamensky

dnl

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dnl Nyquist Platform Max Bay Limits

max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)


dnl in elastic scope each process has its own value

max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

# # June 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/wui-lighttpd-launch.sh -- gen_context(system_u:object_r:polaris_webui_lighttpd_exec_t,s0)
/usr/bin/os/conf/wui-app-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)
/usr/bin/os/conf/wui-tipc-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)
/webui(/*.*)? gen_context(system_u:object_r:polaris_webui_file_t,s0)

No license file was found, but licenses were detected in source scan.
### <summary>Polaris nif_mgr Policy Rules.</summary>

```
### <summary>
### Use /tmp/sv directory and files. Currently this acts as a
### chasfs root for information shared between the nif manager
### and the fed.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
```

```java
interface(`polaris_sv_tmp_use`,
  gen_require(`
    type polaris_sv_tmp_t;
    type tmp_t;
  `)

  manage_dirs_pattern($1, tmp_t, polaris_sv_tmp_t)
  manage_files_pattern($1, polaris_sv_tmp_t, polaris_sv_tmp_t)
  allow $1 polaris_sv_tmp_t:dir watch;
`)
```

### <summary>
### This is to allow creation and write to
doppler_sesa file under proc
### </summary>

```
### <param name="domain">
### Domain allowed access.
### </param>
```

```java
interface(`polaris_proc_sesa_create_write`,
  gen_require(`
    type polaris_proc_sesa_t;
  `)
```

```java
interface(`polaris_svc_if`,
  gen_require(`
    type polaris_svc_t;
  `)
```

```java
interface(`polaris_svc_if`,
  gen_require(`
    type polaris_svc_t;
  `)
```

```java
interface(`polaris_svc_if`,
  gen_require(`
    type polaris_svc_t;
  `)
```

```java
interface(`polaris_svc_if`,
  gen_require(`
    type polaris_svc_t;
  `)
```

```java
interface(`polaris_svc_if`,
  gen_require(`
    type polaris_svc_t;
  `)
```

```java
interface(`polaris_svc_if`,
  gen_require(`
    type polaris_svc_t;
  `)
```
setattr_files_pattern($1, polaris_proc_sesa_t, polaris_proc_sesa_t)
rw_files_pattern($1, polaris_proc_sesa_t, polaris_proc_sesa_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisnifmgr.if
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#
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#

##<summary>Polaris iomd Policy Rules.</summary>

########################################################
##<summary>
##      Work (read, write, ioctl) with /dev/ngio[0-9+] devices
##</summary>
##<param name="domain">
##      <summary>
##      Domain allowed access.
##</summary>
##</param>
#
# interface('polaris_ngio_dev_use',
  gen_require(
    type device_t;
type polaris_ngio_device_t;
')
  write_chr_files_pattern($1, device_t, polaris_ngio_device_t)
  read_chr_files_pattern($1, device_t, polaris_ngio_device_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisiomd.if
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#
# March 2017, Victor Kamensky
#
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#
# polarisbtlogger file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbtlogger.fc
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#
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#

## <summary>Polaris cm_rp Policy Rules.</summary>

### <summary>
### Execute cmand_fp in the polaris_cm_fp_t domain.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
interface(`polaris_cm_cm_rp_domtrans',`
gen_require(`
type polaris_cm_rp_t, polaris_cm_rp_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_cm_rp_exec_t, polaris_cm_rp_t)
')

### <summary>
### Write into fifo file created by cmrp, typical case when
### cmrp starts script under popen.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolecap/>
#
interface(`polaris_cmrp_use_fifo',`
gen_require(`
type polaris_cm_rp_t;

write_fifo_files_pattern($1, polaris_cm_rp_t, polaris_cm_rp_t)

#######################################
## <summary>
##      Write/read /tmp/pfu_oirtime.lock file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cm_rp_tmp_manage',
    gen_require(
        type polaris_cm_rp_tmp_t;
        type tmp_t;
    
    )
manage_dirs_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
manage_files_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)

#######################################
## <summary>
##      Setup policies to access dir and file
##       /vol/harddisk/.inv/inv_log_file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cm_rp_inv_log_setup',
    gen_require(
        type polaris_cm_rp_inv_log_file_t;
        type polaris_disk_harddisk_t;
        type polaris_disk_bootflash_t;
    
    )
filetrans_pattern($1, { polaris_disk_harddisk_t polaris_disk_bootflash_t }, polaris_cm_rp_inv_log_file_t, dir, ".inv")
    # allow access to /vol/harddisk/inv
manage_dirs_pattern($1, { polaris_disk_harddisk_t polaris_disk_bootflash_t}, polaris_cm_rp_inv_log_file_t)
    # allow access to /vol/harddisk/inv/inv_log_file
manage_files_pattern($1, { polaris_cm_rp_inv_log_file_t }, polaris_cm_rp_inv_log_file_t)
### Write into /tmp/codesign.txt file created by cm_rp

```c
interface(`polaris_cm_rp_tmp_write',

    gen_require(`
        type polaris_cm_rp_tmp_t;
    `)

    write_files_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
`)
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmrp.if

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#
# June 2017, Victor Kamensky
#
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#
#
# polariscontainer file contexts place holder

# All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf for docker
# Expected labels for docker as per container.fc

/bootflash/docker(/.*)? gen_context(system_u:object_r:container_var_lib_t,s0)
/bootflash/docker/*.config/env gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*.containers/.*/*.log gen_context(system_u:object_r:container_log_t,s0)
/bootflash/docker/*.containers/*/hostname gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*.containers/*/hosts gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*.containers/*/finit(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*.overlay(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*.overlay2(/.*)? gen_context(system_u:object_r:container_share_t,s0)

/bootflash/iox_alt_hdd_mount_dir/docker(/.*)? gen_context(system_u:object_r:container_var_lib_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/*.config/env gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/*.containers/.*/*.log
policy_module(polarisoom, 1.0);

polaris_process_domain_template(oom)

corecmd_exec_bin(polaris_oom_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_oom_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_oom_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_oom_t)

allow polaris_oom_t self:capability sys_resource;
allow polaris_oom_t self:process setpgid;

polaris_btrace_data_manage(polaris_oom_t)
polaris_chasfs_manage(polaris_oom_t)
polaris_cpld_read(polaris_oom_t)

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6054
polaris_boot_tmp_read(polaris_oom_t)
polaris_read_debug_conf(polaris_oom_t)
polaris_disk_crashinfo_getattr(polaris_oom_t)
polaris_rmonbifo_tmp_read(polaris_oom_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisoom.te
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#
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#

## <summary>Polaris iosd Policy Rules.</summary>

### <summary>Make the specified domain able to work with /tmp/restconf</summary>

## <param name="type">Domain allowed access.</param>

interface(`polaris_restconf_tmp_use',`
   gen_require(`
     type polaris_restconf_tmp_t;
   `)
   manage_files_pattern($1, polaris_restconf_tmp_t, polaris_restconf_tmp_t)
   manage_dirs_pattern($1, polaris_restconf_tmp_t, polaris_restconf_tmp_t)
`)

### Create domain for IOSD Polaris processes. Note depending on policy build setting it could be confined or not confined

## <param name="domain">Domain allowed access.</param>
## <summary>
## Type of the program to be used as an entry point to this domain.
## </summary>
## </param>
#
interface('polaris_iosd_domain',

    polaris_process_domain_confined($1, $2)
    
    polaris_iosd_maybe_unconfined($1)
')

###################################
## <summary>
## Make the specified domain able to work with iosd2iox files
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface('polaris_iosd2iox_tmp_manage',

    gen_require(
        type polaris_iosd2iox_tmp_t;
    )

    manage_files_pattern($1, polaris_iosd2iox_tmp_t, polaris_iosd2iox_tmp_t)
')

###################################
## <summary>
## Make the specified domain able to read iosd2iox files
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface('polaris_iosd2iox_tmp_read',

    gen_require(
        type polaris_iosd2iox_tmp_t;
    )

    read_files_pattern($1,polaris_iosd2iox_tmp_t,polaris_iosd2iox_tmp_t)
')
## <summary>
## Send messages to iosd unix datagram sockets.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_iosd_dgram_send',
  gen_require(
    type polaris_iosd_t;
  ')

allow $1 polaris_iosd_t:unix_dgram_socket sendto;
'
)

## <summary>
## Make the specified domain to read /tmp/rp/.iosp_dmiauthd
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_dmiauthd_token_read',
  gen_require(
    type polaris_dmiauthd_token_t;
  ')

  read_files_pattern($1, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)
'
)

## <summary>
## Make the specified domain to read /tmp/rp/.iosp_gnmib
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_gnmib_token_read',

gen_require(
    type polaris_gnmib_token_t;
)

manage_files_pattern($1, polaris_gnmib_token_t, polaris_gnmib_token_t)

########################################################################
## <summary>
##      Make the specified domain able to work with files
##      with polaris_iosd_tmp_files_t
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(polaris_iosd_tmp_file_use',
    gen_require(
        type polaris_iosd_tmp_files_t;
    )
    manage_files_pattern($1, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)  
    allow $1 polaris_iosd_tmp_files_t:sock_file { manage_sock_file_perms};
)

########################################################################
## <summary>
##      Manage /bootflash/geodb/ files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(polaris_geodb_files_manage',
    gen_require(
        type polaris_geodb_files_t;
    )
    manage_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)  
    manage_dirs_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)  
    manage_lnk_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)  
)
<summary>
Allow the specified domain to read /boot/vcpu_template.txt or /csl_p_0/vcpu_template.txt
</summary>

<param name="type">
Domain allowed access.
</param>

interface(`polaris_iosd_vcpu_read',
    gen_require(
        type polaris_iosd_vcpu_t;
        type polaris_disk_varied_t;
        type polaris_disk_csl_p_t;
    ')
)

read_files_pattern($1, { polaris_disk_varied_t polaris_disk_csl_p_t }, polaris_iosd_vcpu_t)
'}

<summary>
Allow the specified domain to read /tmp/usb-disable
</summary>

<param name="type">
Domain allowed access.
</param>

interface(`polaris_iosd_usb_disable_tmp_manage',
    gen_require(
        type polaris_iosd_usb_disable_tmp_t;
    ')
)

manage_files_pattern($1, polaris_iosd_usb_disable_tmp_t, polaris_iosd_usb_disable_tmp_t)
files_tmp_filetrans($1, polaris_iosd_usb_disable_tmp_t, file, "usb-disable")
'}

<summary>
Allow the specified domain to access /bootflash/EFI
</summary>

<param name="type">
Domain allowed access.
</param>
interface('polaris_efi_files_list_dirs',
    gen_require('type polaris_efi_files_t;
')

    list_dirs_pattern($1, polaris_efi_files_t, polaris_efi_files_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisiosd.if
No license file was found, but licenses were detected in source scan.

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/usr/binos/conf/ncd.sh -- gen_context(system_u:object_r:polaris_ncd_exec_t,s0)
/etc/conf/unifiedfs/mount_data gen_context(system_u:object_r:polaris_ncd_etc_t,s0)

/usr/binos/conf/iosd_console_attach.sh -- gen_context(system_u:object_r:polaris_consolect_attch_exec_t,s0)
/usr/binos/conf/unifiedfs/unifiedfs_helper.sh -- gen_context(system_u:object_r:polaris_ufs_helper_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisncd.fc
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### <summary>Polaris psd Policy Rules.</summary>

# # Read polaris_restconf_t files, effectively files # under /tmp/restconf #
### <summary>
### <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_restconf_read',
    gen_require(
        type polaris_restconf_t;
    ')
    read_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    read_link_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    list_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t)
')

########################################
## <summary>
## Manage polaris_restconf_t files, effectively files
## under /tmp/restconf
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_restconf_manage',
    gen_require(
        type polaris_restconf_t;
    ')
    manage_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    manage_link_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    manage_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t)
')

########################################
## <summary>
## Manage polaris_ncsshd_keys_t files, effectively files
## under /tmp/.ncsshd_authorized_keys
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_ncsshd_keys_manage',
    gen_require(
        type polaris_ncsshd_keys_t;
manage_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
manage_link_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
manage_dirs_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)

# <summary>
# Read polaris_psd_tmp_t files, effectively access
# /tmp/dmi.ds_config created by psd and read by confd startup
# script
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
#
interface(`polaris_psd_tmp_read',
  gen_require(`
    type polaris_psd_tmp_t;
  ')
  read_files_pattern($1, polaris_psd_tmp_t, polaris_psd_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispsd.if
No license file was found, but licenses were detected in source scan.

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#
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#
/tmp/.CRDU_COMMAND_PIPE gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
/tmp/.CRDU_RESPONSE_PIPE gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
/usr/bin/os/conf/trans_ports_helper.sh -- gen_context(system_u:object_r:polaris_trans_ports_helper_exec_t,s0)
/usr/bin/os/conf/trans_stats_helper.sh -- gen_context(system_u:object_r:polaris_trans_stats_helper_exec_t,s0)
/usr/bin/os/conf/mcp_disk_oir.sh -- gen_context(system_u:object_r:polaris_disk_oir_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissmand.fc
No license file was found, but licenses were detected in source scan.

dnl
define('polaris_database', 'polaris_database_aux(database_label($1))')

define('polaris_database_process', 'polaris_database_process_aux(database_stem($1), process_label($2))')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_database_db_te.m4
No license file was found, but licenses were detected in source scan.

#
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#

### <summary>Polaris mdt_pubd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismdt_pubd.if
No license file was found, but licenses were detected in source scan.
policy_module(polarisioxman, 1.0);

gen_require(`
   type polaris_ioxman_t;
`)

polaris_btrace_data_manage(polaris_ioxman_t)
polaris_chasfs_manage(polaris_ioxman_t)
polaris_tldresolve_read(polaris_ioxman_t)
polaris_tlddb_list_dirs(polaris_ioxman_t)
polaris_cpld_read(polaris_ioxman_t)
polaris_lua_read(polaris_ioxman_t)
polaris_flashlib_read(polaris_ioxman_t)
polaris_ripc_sman_ui_serv_connect(polaris_ioxman_t)
polaris_db_tdildb_dir_use(polaris_ioxman_t)

# allow access to /bootflash/iox/ files
polaris_iox_dir_search(polaris_ioxman_t)

corenet_tcp_connect_polaris_caf_api_port(polaris_ioxman_t)

# allow read permissions for /etc/hosts file
sysnet_read_config(polaris_ioxman_t)

# ioxman interacting with caf through api http interface and
# is uses curl library to send requests to caf. curl wants
# to do getsockopt with SOL_SOCKET;
allow polaris_ioxman_t self:tcp_socket getopt;

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_ioxman_t)

corecmd_exec_bin(polaris_ioxman_t)
corecmd_exec_shell(polaris_ioxman_t)

# allow to run mount in its own domain; guestshell_set_netns.sh
# needs it; also, read and exec the set_netns script.
# ioxman_setup_guestshell_namespace invokes the script
# using NAMESPACE_COMMAND
mount_domtrans(polaris_ioxman_t)
polaris_guestshell_files_read(polaris_ioxman_t)
polaris_guestshell_exec_files_exec(polaris_ioxman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_ioxman_t)

# guestshell_set_netns.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_ioxman_t)
# ps needs access to proc_t
kernel_read_system_state(polaris_ioxman_t)

# modifies /bootflash/iox/iox_app/guestshell_iox.json
polaris_iox_files_manage(polaris_ioxman_t)

# guestshell_set_netns.sh touches /var/run/netns/guestshell
files_pid_filetrans(polaris_ioxman_t, polaris_guestshell_var_run_t, file, "guestshell")
polaris_guestshell_var_run_files_manage(polaris_ioxman_t)

# Read and write the all pty
term_use_generic_ptys(polaris_ioxman_t)
# allow ioxman_syslib.sh to set uid/gid for screen
allow polaris_ioxman_t self:capability { dac_override setgid setuid }

# ioxman execve virsh
gen_require('
    type virsh_t;
    type virsh_exec_t;
')
domtrans_pattern(polaris_ioxman_t, virsh_exec_t, virsh_t)
# virsh needs to write into /tmp/rp/trace/iox_guestshell.log
polaris_btrace_data_manage(virsh_t)

# ioxman is vm client over @vman_domain_socket socket
optional_policy(''
    polaris_vman_use_client_socket(polaris_ioxman_t)
')

# ioxman uses VS_OPER_DB from virtual_services_tbl_init
polaris_tdldbpersist_setup(polaris_ioxman_t)
polaris_tmp_tdldb_persist_setup(polaris_ioxman_t)

# ioxman through libcurl library hit c-ares DNS code needs
# udp sockets access
allow polaris_ioxman_t self:udp_socket connect;

logging_send_syslog_msg(polaris_ioxman_t)

# read /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_ioxman_t)

virt_manage_sandbox_files(polaris_ioxman_t)

# handle ioxman /tmp files like /tmp/iox_xml.dat
type polaris_iox_tmp_t;
files_tmp_file(polaris_iox_tmp_t)
polaris_iox_manage_tmp_files(polaris_ioxman_t)

# by some strange reason ioxman munges files in /bootflash/tracelogs
# please see iox_tracefile_restore in ioxman/src/im_serial.c
polaris_btrace_persistent_data_manage(polaris_ioxman_t)

# virsh execved from ioxman inherits stdout from ioxman
gen_require(''
    type polaris_ioxman_bt_t;
    type virsh_t;
')
allow virsh_t polaris_ioxman_bt_t:file write;

optional_policy('gen_require('attribute polaris_domain;
attribute polaris_extended_domain;
type container_runtime_t;
')
typeattribute container_runtime_t polaris_domain;
typeattribute container_runtime_t polaris_extended_domain;
')

# /usr/binos/conf/shell_exec.sh policy

polaris_utility_domain_template(iox_shell)

polaris_bexecute_domain(polaris_iox_shell_t, polaris_iox_shell_exec_t)
# shell_exec call bexec.sh
polaris_bexecute_domtrans(polaris_iox_shell_t)
corecmd_exec_bin(polaris_iox_shell_t)
polaris_chasfs_read(polaris_iox_shell_t)
auth_use_nsswitch(polaris_iox_shell_t)
fs_getattr_tmpfs(polaris_iox_shell_t)

mount_domtrans(polaris_iox_shell_t)

# inherit stdin from telnetd
telnet_use_ptys(polaris_iox_shell_t)

# create files under /bootflash/iox
polaris_iox_files_manage(polaris_iox_shell_t)

# executing guestshell.sh
polaris_guestshell_exec_files_exec(polaris_iox_shell_t)
polaris_guestshell_files_read(polaris_iox_shell_t)

# executing "ip netns exec guestshell /usr/bin/ssh ..."
sysnet_exec_ifconfig(polaris_iox_shell_t)
fs_read_nsfs_files(polaris_iox_shell_t)
files_mounton_rootfs(polaris_iox_shell_t)
dev_mounton_sysfs(polaris_iox_shell_t)
allow polaris_iox_shell_t self:netlink_route_socket rw_netlink_socket_perms;
dev_mounton_sysfs_fs(polaris_iox_shell_t)
dev_unmounton_sysfs_fs(polaris_iox_shell_t)

# executing ssh
corenet_tcp_connect_ssh_port(polaris_iox_shell_t)
ssh_exec(polaris_iox_shell_t)
allow polaris_iox_shell_t self:tcp_socket { connect create getattrib getopt setopt shutdown };

# ssh creates /root/.ssh directory
userdom_create_user_home_dirs(polaris_iox_shell_t)

# read /etc/guestshell_rsa_key
polaris_guestshell_key_read(polaris_iox_shell_t)

# work with sandbox files
polaris_sandbox_file_dir_list(polaris_iox_shell_t)

polaris_caf_var_run_files_manage(polaris_iox_shell_t)

# shell_exec.sh invokes:
#  mkdir /tmp/.shell_exec
#  create /tmp/.shell_exec/*
type polaris_iox2iosd_tmp_t;
files_tmp_file(polaris_iox2iosd_tmp_t)
files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t, dir, "/tmp/.shell_exec")
files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t, file)
# allow shell_exec to manage /tmp/nsshd Authorized_keys
polaris_nsshd_keys_manage(polaris_iox_shell_t)
# allow shell_exec to manage /tmp/.shell_exec/* files
polaris_iox2iosd_tmp_manage(polaris_iox_shell_t)
# allow shell_exec to work with files created by iosd
polaris_iosd2iox_tmp_manage(polaris_iox_shell_t)
ifdef(`nyquist_platform',"
# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_iox_shell_t)
"
ifdef(`passport_platform',"
# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_iox_shell_t)
"

allow polaris_iox_shell_t self:capability { chown dacoverride fowner fsetid fsetuid dac_read_search };
allow polaris_iox_shell_t self:cap_userss sys_admin;
allow polaris_iox_shell_t self:process setfscreate;

# LOOK AT ME very fishy iox_shell executes
#/bootflash/iox/repo-lxc/guestshell/rootfs_mnt/cisco/shell_exec.sh that
# actually can be modified from container itself. File is recreated
# each guestshell activation and it seems not executed afterwards.
# Grant access for now. Need to look closely whether it could be exploited
# in some way
virt_exec_sandbox_files(polaris_iox_shell_t)

# ip command called from iox_shell, running it under
# iox_shell domain, add required mounton on unlabled_t
files_mounton_isid(polaris_iox_shell_t)

# read guestshell net namespace file
fs_read_nsfs_files(polaris_ioxman_t)

# need to create /bootflash/gs_script/db.ini file
polaris_bootflash_manage(polaris_ioxman_t)
polaris_harddisk_manage(polaris_ioxman_t)

# run ioxn_secure_dir.sh policy
gen_require(`
    type polaris_iox_secure_dir_t;
`)
corecmd_exec_bin(polaris_iox_secure_dir_t)
auth_use_nsswitch(polaris_iox_secure_dir_t)
polaris_caf_files_read(polaris_iox_secure_dir_t)
polaris_chasfs_manage(polaris_iox_secure_dir_t)
polaris_bootflash_manage(polaris_iox_secure_dir_t)
polaris_harddisk_manage(polaris_iox_secure_dir_t)
polaris_iox_files Manage(polaris_iox_secure_dir_t)

# /bin/cat9k_ssd_auth_cmds.sh
polaris_utility_domain_template(ssd_auth)
corecmd_exec_bin(polaris_ssd_auth_t)
storage_getattr_fixed_disk_dev(polaris_ssd_auth_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_ssd_auth_t)

fs_getattr_tmpfs(polaris_ssd_auth_t)

# execute hdparam in its own domain
fstools_domtrans(polaris_ssd_auth_t)
polaris_use_btrace_fifo(polaris_ssd_auth_t)

type polaris_ssd_auth_tmp_t;
files_tmp_file(polaris_ssd_auth_tmp_t)
# bash tmp files like /tmp/sh-thd.kxX3sc
files_tmp_filetrans(polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t, file)
manage_files_pattern(polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t)

# /tmp/ssd_blk_device created by udev
gen_require(`
    type udev_t;
    type tmpfs_t;
`
type tmp_t;

')
filetrans_pattern(udev_t, {tmpfs_t tmp_t}, polaris_ssd_auth_tmp_t, file, "ssd_blk_device")
polaris_getattr_harddisk(polaris_ssd_auth_t)

fs_read_cgroup_files(polaris_ioxman_t)

# Allow ioxman to download package files using url
polaris_caf_tmp_files_manage(polaris_ioxman_t)
polaris_cli_fs_cmds_domtrans(polaris_ioxman_t)
# ufs information captured by the chasfs utils
optional_policy(
  polaris_ncd_tmp_read(polaris_ioxman_t)
)
gen_require(
  type polaris_fts_client_tmp_t;
  )

manage_files_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
manage_dirs_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
allow polaris_ioxman_t tmp_t:file { create open unlink write }

# get_orchestration_template in cgroup_init_common.sh reads
# ovf-env.xml file from removable and varied
fs_read_removable_files(polaris_ioxman_t)
polaris_disk_varied_read(polaris_ioxman_t)

# writes into /tmp/trace/resource.log
optional_policy(
  polaris_vman_tmp_manage(polaris_ioxman_t)
  )

# watch over /tmp/udev/etc/udev/usbflash1 in iox_media_chasfs_watch
polaris_udev_tmp_read(polaris_ioxman_t)
polaris_udev_tmp_watch(polaris_ioxman_t)

ifdef(`nyquist_platform',
# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_ioxman_t)
')

dev_getattr_fs(polaris_iox_shell_t)
kernal_read_system_state(polaris_iox_shell_t)

gen_require(
  type virt_lxc_var_run_t;
  )
read_files_pattern(polaris_ioxman_t, virt_lxc_var_run_t,virt_lxc_var_run_t)
#sys_resource denial is seen even on factory reset
allow polaris_ioxman_t self:capability sys_resource;

ifdef(`passport_platform',`
# Manage alternate hdd files
polaris_ioc_alt_hdd_manage(polaris_ioxman_t)
')

polaris_iosd_vcpu_read(polaris_ioxman_t)

# work with files like /tmp/guestinfo_status.txt
polaris_iosd2iox_tmp_manage(polaris_ioxman_t)

gen_require(
    type screen_var_run_t;
    type screen_exec_t;
    '
')

# allow ioxman to set up ttys for screen
polaris_caf_tty_lnk_manage(polaris_ioxman_t)

# allow ioxman_syslib.sh to invoke screen
screen_exec(polaris_ioxman_t)

# add entrypoint to screen_exec/can_exec permissions
allow polaris_ioxman_t screen_exec_t:file entrypoint;

# make sure /tmp/screens is labeled correctly
files_tmp_filetrans(polaris_ioxman_t, screen_var_run_t, dir, "screens")

# allow ioxman to manage /tmp/screens/<appname>_con/aux.sid
manage_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to manage sock_files and unix_stream_socket on screen
allow polaris_ioxman_t self:unix_stream_socket { create_socket_perms connectto };
manage_dirs_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)
manage_sock_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to transition into bexecute domain
polaris_bexecute_domtrans(polaris_ioxman_t)
polaris_bexecute_domain(polaris_ioxman_t, screen_exec_t)
# allow bexecute to access the /tmp/screens/*.sid files
gen_require(
    type polaris_bexecute_t;
    '
)
manage_files_pattern(polaris_bexecute_t, screen_var_run_t, screen_var_run_t)
# allow shell_exec to manage /tmp/.ncsshd_authorized_keys
polaris_ncsshd_keys_manage(polaris_iox_shell_t)
polaris_iox2iosd_tmp_manage(polaris_iox_shell_t)

# allow shell_exec to manage guestshell files
gen_require('  
    type container_file_t;
')
manage_files_pattern(polaris_iox_shell_t, container_file_t, container_file_t)

# allow ioxman to setattr for /dev/pts relating to screen
gen_require('  
    type telnetd_devpts_t;
')
allow polaris_ioxman_t telnetd_devpts_t:chr_file setattr_chr_file_perms;

# allow ioxman to access the /tmp/ttyF*. files
gen_require('  
    type fifo_var_run_t;
')
files_tmp_filetrans(polaris_ioxman_t, fifo_var_run_t, fifo_file)
manage_fifo_files_pattern(polaris_ioxman_t, fifo_var_run_t, fifo_var_run_t)

# allow ioxman to access rootfs and sysfs
# The same is needed when guestshell uses a passwordless SSH, when users do
# like "guestshell run bash" from IOS and it provides a bash shell screen
# in IOS.

gen_require('  
    type ssh_home_t;
')

ssh_filetrans_admin_home_content(polaris_iox_shell_t)
allow polaris_iox_shell_t ssh_home_t:dir {create search getattr};
dev_getattr Sysfs Fs (polaris_iox_shell_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisioxman.te
No license file was found, but licenses were detected in source scan.

#
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#
#
# polarismobilityd file contexts place holder
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6073

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismobilityd.fc
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#

### <summary>Polaris TDLResolve Policy Rules.</summary>

# TDLresolve policy

### <summary>Open tdlresolve files</summary>

### <summary>Manage tdlresolve files</summary>

```
interface(`polaris_tdlresolve_read',`
  gen_require(`
  type polaris_tdlresolve_t;
  `)
  read_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  read_link_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  list_dirs_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  allow $1 polaris_tdlresolve_t:file map;
  gen_require(`
  type polaris_global_service_t;
  `)
  read_files_pattern($1, polaris_global_service_t, polaris_global_service_t)
  allow $1 polaris_global_service_t:file map;
  `)
```

```
```
interface('polaris_tdlresolve_manage',
    gen_require(''
        type polaris_tdlresolve_t;
    ')
    manage_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
    manage_link_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
    manage_dirs_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
    allow $1 polaris_tdlresolve_t:file map;
    gen_require(''
        type polaris_global_service_t;
    ')
    manage_files_pattern($1, polaris_global_service_t, polaris_global_service_t)
    allow $1 polaris_global_service_t:file map;
)

interface('polaris_tdlresolve_watch',
    gen_require(''
        type polaris_tdlresolve_t;
    ')
    allow $1 polaris_tdlresolve_t:dir watch;
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristdlresolve.if
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#
#
## <summary>Polaris emd Policy Rules.</summary>

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#

## <summary>Polaris issu_stack Policy Rules.</summary>

############################################
## <summary>
##      Manage tmp files created by issu_stack.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_issu_stack_tmp_manage',
    gen_require(
        type polaris_issu_stack_tmp_t;
    )

    manage_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
    manage_lnk_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
    )

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisissustack.if
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#
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#
### <summary>Polaris lm Policy Rules.</summary>

###################################################################
### <summary>
### Read files of type polaris_lm_tmp_t (e.g., /tmp/iosd_level)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_lm_tmp_read',`
    gen_require(`
    type polaris_lm_tmp_t;
`)
    read_files_pattern($1, polaris_lm_tmp_t, polaris_lm_tmp_t)
`)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislm.if
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#
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#
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#
policy_module(polariscfgmgr, 1.0);

gen_require(`
    type polaris_cfgmgr_t;
`)
polaris_chasfs_manage(polaris_cfgmgr_t)
# read day0_oper.xml and write local.data.tmp
polaris_bootflash_manage(polaris_cfgmgr_t)
polaris_boot_tmp_read(polaris_cfgmgr_t)
polaris_cpld_read(polaris_cfgmgr_t)
polaris_tdlresolve_read(polaris_cfgmgr_t)
polaris_flashlib_read(polaris_cfgmgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_cfgmgr_t)
polaris_db_tdldb_dir_use(polaris_cfgmgr_t)
logging_send_syslog_msg(polaris_cfgmgr_t)

# vconfd_load_shared_schemas
polaris_confid_shared_schema_read(polaris_cfgmgr_t)

polaris_cedge_reset_ns(polaris_cfgmgr_t)

polaris_cedge_etc_manage(polaris_cfgmgr_t)

# /etc/version is opened via "show sdwan version"
polaris_confid_etc_read(polaris_cfgmgr_t)

# /var/run/.cfgmgr socket and pid
type polaris_cfgmgr_var_run_t;
files_pid_file(polaris_cfgmgr_var_run_t)
manage_files_pattern(polaris_cfgmgr_t, polaris_cfgmgr_var_run_t, polaris_cfgmgr_var_run_t)
manage_sock_files_pattern(polaris_cfgmgr_t, polaris_cfgmgr_var_run_t, polaris_cfgmgr_var_run_t)
files_pid_filetrans(polaris_cfgmgr_t, polaris_cfgmgr_var_run_t, { file sock_file })

# sets up symbloc link /var/run/netns/default to pid 1 nets
sysnet_manage_ifconfig_run(polaris_cfgmgr_t)

# PLEASE LOOK AT ME create_syslog_conf_file function in
# viptela/cfgmgr/cfgmgr_logging.c creates /etc/syslog.conf.sysklogd file
# that nobody uses in polaris
files_manage_etc_files(polaris_cfgmgr_t)

# in cfgmgr_vpn_namespace_add creates udp socket
allow polaris_cfgmgr_t self:udp_socket create_socket_perms;

# watch /bootflash/sdwan/day0_oper.xml
polaris_persistent_watch(polaris_cfgmgr_t)

# compute_available_memory executes '/bin/df /dev/shm'
corecmd_exec_bin(polaris_cfgmgr_t)
# vip_binos_cpuinfo calls sysconf
dev_read_sysfs(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem collects SDWAN_DISK_MOUNT (/bootflash) fs info
fs_getattr_xattr_fs(polaris_cfgmgr_t)
# crashlist_refresh collects info about corefiles
polaris_core_file_read(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem collects info about /bootflash/.installer fs
polaris_disk_install_read(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem() collects available mem info by executing
# '/bin/df /tmp/rp/tlddb'
polaris_tlddb_list_dirs(polaris_cfgmgr_t)

# vip_binos_cpuinfo() performs file operations on PROC_CPUSTAT_FILE (/proc/stat)
polaris_disk_install_fs_getattr(polarisCfgmgr_t)

#vip_binos_meminfo() reads PROC_MEMINFO_PATH (/proc/meminfo)
kernell_read_system_state(polarisCfgmgr_t)

# configure ip address on system interface on vrf 1
sysnet_domtrans_ifconfig(polarisCfgmgr_t)

# create tunnel interface in cfmgr_tun_alloc function
corenet_rw_tun_tap_dev(polarisCfgmgr_t)
allow polarisCfgmgr_t self:tun_socket create;

# works if /proc accept_source_route file of system interface
kernell_rw_net_sysctls(polarisCfgmgr_t)

# work with /tmp/xml/geostats
polaris_cedge_xml_tmp_manage(polarisCfgmgr_t)

# work with /tmp/tmp/geostats
polaris_cedge_tmp_manage(polarisCfgmgr_t)
allow polarisCfgmgr_t self:process setpgid;

# map on /etc/passwd
auth_map_passwd(polarisCfgmgr_t)

# give read permissions for /tmp/GPS_supported file created by iosd
polaris_iosd2iox_tmp_read(polarisCfgmgr_t)

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#

# polarissmd file contexts place holder

# dc_profile_dir
/mnt/sd3/user/dc_profile_dir(/.*)?  gen_context(system_u:object_r:polaris_smd_disk_t,s0)
/flash1/user/dc_profile_dir(/.*)?  gen_context(system_u:object_r:polaris_smd_disk_t,s0)
/bootFlash/dc_profile_dir(/.*)?  gen_context(system_u:object_r:polaris_smd_disk_t,s0)

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissmd.fc
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dnl

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dnl
define(`mqipc_stem', `translit(patsubst($1, `-mqipc$', `'), `-', `_'))
define(`mqipc_label', `format(`polaris_%s_mqipc_t', mqipc_stem($1)))

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_mqipc.m4

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dnl
dnl Place holder to let selinux-policy makefile know that this module
dnl is autigenerated, but we have different rules for it

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplatformdbauto.fc.in
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplatformipcauto.fc.in
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplatformipcauto.te.in
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplatformdbauto.te.in
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplatformdbauto.fc.in
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplatformdbauto.te.in
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplatformipcauto.fc.in
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplatformipcauto.te.in
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplatformdbauto.fc.in
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplatformdbauto.te.in

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dnl

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dnl
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dnl
dnl divert(-1)

include(`polaris_process.m4')
include(`polaris_process.te.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc.te.m4')
include('polaris_ipc_ripc.m4')
include('polaris_ipc_ripc_te.m4')

include('polaris_ipc_lipc.m4')
include('polaris_ipc_lipc_te.m4')

dnl Stub out non existent one
define('polaris_websocket_service_server',"")
define('polaris_cipc_service_server',"")

include('polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformipcauto, 1.0);

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_te.m4
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dnl
define('polaris_ripc_service_server',"")
define('polaris_ripc_service_client',"")

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_ripc_if.m4
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_ripc_fc.m4
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dnl
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dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set(‘rp’, ‘per_bay’, 0)
max_bay_map_set(‘cc’, ‘per_bay’, 0)
max_bay_map_set(‘fp’, ‘per_bay’, 0)
dnl in elastic scope each process has its own value
max_elastic_map_set(\'rp\', \'elastic\', BPROC_ODM, 0)
max_elastic_map_set(\'cc\', \'elastic\', BPROC_ODM, 0)
max_elastic_map_set(\'fp\', \'elastic\', BPROC_ODM, 0)

max_elastic_map_set(\'rp\', \'elastic\', BPROC_WNCD, 0)
max_elastic_map_set(\'cc\', \'elastic\', BPROC_WNCD, 0)
max_elastic_map_set(\'fp\', \'elastic\', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/nyquistmaps.m4
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#

policy_module(polarisgsdrp, 1.0);

gen_require(
    type polaris_gsd_rp_t;
)

#allow to run readlink /dev/loop0 & /bin/date
corecmd_exec_bin(polaris_gsd_rp_t)

#run ldd, which in turn exec "ld.so --verify"
libs_exec_ld_so(polaris_gsd_rp_t)

# allow to run mount in its own domain
mount_domtrans(polaris_gsd_rp_t)
#  awk -v what=~.BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_gsd_rp_t)
polaris_btrace_data_manage(polaris_gsd_rp_t)
polaris_chasfsmanage(polaris_gsd_rp_t)
polaris_read_debug_conf(polaris_gsd_rp_t)
polaris_disk_crashinfo_getattr(polaris_gsd_rp_t)
polaris_guestshell_exec_files_exec(polaris_gsd_rp_t)
polaris_guestshell_files_read(polaris_gsd_rp_t)
polaris_ncd_tmp_read(polaris_gsd_rp_t)
polaris_proc_rmonbifo_read(polaris_gsd_rp_t)
polaris_cpld_read(polaris_gsd_rp_t)
polaris_bootflash_read(polaris_gsd_rp_t)
polaris_harddisk_read(polaris_gsd_rp_t)
# read /proc/cmdline
kernel_read_system_state(polaris_gsd_rp_t)

auth_use_nsswitch(polaris_gsd_rp_t)
polaris_monibifo_tmp_read(polaris_gsd_rp_t)

allow polaris_gsd_rp_t self:capability { dac_override sys_resource }
allow polaris_gsd_rp_t self:process setpgid;

type polaris_gsd_rp_tmp_t;
files_tmp_file(polaris_gsd_rp_tmp_t)
manage_dirs_pattern(polaris_gsd_rp_t, tmp_t, polaris_gsd_rp_tmp_t)
manage_files_pattern(polaris_gsd_rp_t, tmp_t, polaris_gsd_rp_tmp_t)
manage_fifo_files_pattern(polaris_gsd_rp_t, polaris_gsd_rp_tmp_t, polaris_gsd_rp_tmp_t)

# work with /tmp/guestshell_stk directory
files_tmp_filetrans(polaris_gsd_rp_t, polaris_gsd_rp_tmp_t, dir, "guestshell_stk")

gen_require(
    type rsync_t;
')
rsync_entry_domtrans(polaris_gsd_rp_t, rsync_t)
allow rsync_t polaris_gsd_rp_t:process sigchld;

# read /opt/cisco/caf directory
polaris_caf_files_read(polaris_gsd_rp_t)

gen_require(
    type polaris_caf_api_port_t;
    type polaris_caf_exec_t;
')
allow polaris_gsd_rp_t polaris_caf_api_port_t:tcp_socket name_connect;
allow polaris_gsd_rp_t polaris_caf_exec_t:file { getattr open read };
allow polaris_gsd_rp_t tmp_t:dir { create rmdir };

polaris_flashlib_read(polaris_gsd_rp_t)
polaris_flashlib_write(polaris_gsd_rp_t)

# watch over /tmp/udev/etc/udev
polaris_udev_tmp_read(polaris_gsd_rp_t)
polaris_udev_tmp_watch(polaris_gsd_rp_t)

# watch over /bootflash/gs_script
polaris.persistent_watch(polaris_gsd_rp_t)

# allow iox_ha_utils.sh to read /etc/docker/daemon.json.
gen_require(
    type container_config_t;
')
read_files_pattern(polaris_gsd_rp_t, container_config_t, container_config_t)
# allow guestshell_ha.sh to log messages
logging_send_syslog_msg(polaris_gsd_rp_t)

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* /opt/cola/permits/1194465592_1641580217.3/selinux-tar/selinux/polarisgsdrp.te
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## <summary>Polaris fman_rp Policy Rules.</summary>

### <summary> Manage mqipc fmrp2fpm shared memory file in /dev/shm directory </summary>

### <param name="domain">
### Domain allowed access.
### </param>

interface(`polaris_fmrp2fpm_mqipc_use',
  gen_require(`
  type polaris_fmrp2fpm_mqipc_t;
  ')
  polaris_mqipc_use($1, polaris_fmrp2fpm_mqipc_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/selinux-tar/selinux/polarisfmanrp.if
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#

policy_module(polaristldldb, 1.0);

########################################################################
# Polaris tdldb (infra/tdllib)

```c
type polaris_tdldb_t;
polaris_tdldb_type(polaris_tdldb_t)

attribute polaris_tdldb;

# any process creating tdldb in /tmp/rp/tdlldb should transition into its domain

gen_require('"
    attribute domain;
"
)
files_tmp_filetrans(domain, polaris_tdldb_t, dir, "tdldb")

# DB_DIR database is not described in TDL

type polaris_dir_db_tdldb_t;
polaris_tdldb_type(polaris_dir_db_tdldb_t)

type polaris_tdldbPersist_t;
polaris_tdldb_type(polaris_tdldbPersist_t)
```

Found in path(s):
* /opt/cola/permits/1194465892_1641580217.3/0/selinux-tar/selinux/polaristdldb.te

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#
#
/tmp/tam_cfg_done(/.*)? gen_context(system_u:object_r:polaris_tam_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465892_1641580217.3/0/selinux-tar/selinux/polarisesgtamcfg.fc

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#
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#
#
policy_module(polarisemdm, 1.0);

gen_require('"
    type polaris_emd_t;
"
polaris_btrace_data_manage(polaris_emd_t)
polaris_crft_data_manage(polaris_emd_t)
polaris_chasfs_manage(polaris_emd_t)
polaris_tdlresolve_read(polaris_emd_t)
polaris_tdldb_list_dirs(polaris_emd_t)
polaris_cpld_read(polaris_emd_t)
polaris_flashlib_read(polaris_emd_t)

polaris_ripc_sman_ui_serv_connect(polaris_emd_t)

polaris_cpld_dev_use(polaris_emd_t)
dev_read_sysfs(polaris_emd_t)
polaris_obfl_data_manage(polaris_emd_t)
polaris_persistent_read(polaris_emd_t)

allow polaris_emd_t self:capability dac_override;

ifdef('mcp_family',
polaris_scooby_dev_use(polaris_emd_t)
#ifdef('mcp_family',
# read/write /sys/bus/i2c/drivers/pca9544/2-0077/reg_control and others
dev_getattr Sysfs_Sysfs(polaris_emd_t)
dev_rw_sysfs(polaris_emd_t)

logging_send_syslog_msg(polaris_emd_t)

ifdef('qwlc_platform',
# on qwlc read eeprom through i2c like /sys/devices/i2c-12/12-0050/eeprom
dev_rw_sysfs(polaris_emd_t)
dev_getattr Sysfs_Sysfs(polaris_emd_t)

#sparrow needs access to /dev/i2c*
define('sparrow_platform',
gen_require('type polaris_cm_cc_tmpfs_t;

polaris_i2c_use(polaris_emd_t)
polaris_i2c_sem_manager(polaris_emd_t)
mmap_files_pattern(polaris_emd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)

ifdef('sparrow_platform',

dev_rw_sysfs(polaris_emd_t)
dev_getattr Sysfs_Sysfs(polaris_emd_t)

')
# emd creates udp socket
allow polaris_emd_t self:udp_socket create_socket_perms;

Found in path(s):
* /opt/cola/permits/1194466592_1641580217.3/0/selinux-tar/selinux/polarisemd.te
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#

policy_module(polariswebui, 1.0);

type polaris_webui_file_t;
files_type(polaris_webui_file_t)
polaris_pfile_type(polaris_webui_file_t)

polaris_process_domain_template(webui_lighttpd)
polaris_process_domain_template(webui)

gen_require(' type initrc_t;
')
manage_dirs_pattern(initrc_t, polaris_webui_file_t, polaris_webui_file_t)

Found in path(s):
* /opt/cola/permits/1194466592_1641580217.3/0/selinux-tar/selinux/polariswebui.te
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#

## <summary>Polaris tservice Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194466592_1641580217.3/0/selinux-tar/selinux/polaristservice.if
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#

/usr/bin/os/conf/mcp_smartctl_cmds.sh -- gen_context(system_u:object_r:polaris_smartctl_exec_t,s0)
/tmp/smart.pid -- gen_context(system_u:object_r:polaris_smartctl_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngiolite.fc
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# March 2017, Victor Kamensky
#
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#

### <summary>Polaris VXE Platform Policy Rules.</summary>

interface(`polaris_objstore_sem_use',`
    gen_require(`
        type polaris_objstore_sem_t;
    ')
    allow $1 polaris_objstore_sem_t:sem rw_sem_perms;
    mmap_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
    manage_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
')

####################################
### <summary>Work (read, write, ioctl) with /dev/vda1 device</summary>
### </summary>
### <param name="domain">`Domain allowed access.
### </param>
### </summary>
### <param>
interface(`polaris_grub_efi_use',`
    gen_require(`
        type polaris_grub_efi_t;
    ')
    write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
    read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
## <summary>
## Search /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_grub_efi_search',
  gen_require(
    type polaris_grub_efi_t;
  ')
search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

## <summary>
## Read VXE install info files
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_vxeinstall_info_read',
  gen_require(
    type polaris_vxeinstall_info_t;
  ')
read_files_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)
list_dirs_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)
')

## <summary>
## Read /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_grub_info_read',

gen_require(''
type polaris_grubver_t;
type polaris_grub_bios_t;
type polaris_grub_efi_t;
')
read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

########################################################################
## <summary>
## Manage /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##   <summary>
##       Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_grubcfg_manage',
    gen_require(''
type polaris_grub_bios_t;
type polaris_grub_efi_t;
')
manage_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
manage_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
manage_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
manage_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

########################################################################
## <summary>
##  Manage regular files/directories under /varied/grub
##  CSR manages files in legacy grub disk location
##  also allow run readlink -f /dev/bootflash
## </summary>
## <param name="domain">
##   <summary>
##       Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_legacy_grub_manage',
    gen_require(''

type boot_t;
type fixed_disk_device_t;

manage_files_pattern($1, boot_t, boot_t)
manage_dirs_pattern($1, boot_t, boot_t)
storage_getattr_fixed_disk_dev($1)

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/hanet
##      hanet driver used by vpcgw platform of VXE family
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
# ifdef(`vpcgw_platform',`
interface(`polaris_hanet_dev_use',`
gen_require(`
   type device_t;
type polaris_hanet_device_t;
')
   write_chr_files_pattern($1, device_t, polaris_hanet_device_t)
   read_chr_files_pattern($1, device_t, polaris_hanet_device_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisvxe.if
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#
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#

# polarisplogd file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplogd.fc
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#
### <summary>Polaris CPLD Policy Rules.</summary>

# CPLD Driver policy

### <summary>
#      Read cpld files in /sys directory
### </summary>
### <param name="domain">
#      Domain allowed access.
### </param>

```
interface('polaris_cpld_read',
gen_require('`
type polaris_sysfs_cpld_t;
  type sysfs_t;
`)
  read_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
  # genfscon statement specifically excludes symbolic links from
  # genfscon path specific entries. To workaround, let us allow
  # to follow sysfs_t symbolic links
  allow $1 sysfs_t:lnk_file { read getattr };
  list_dirs_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
`)
```

### <summary>
#      Write cpld files in /sys directory
### </summary>
### <param name="domain">
#      Domain allowed access.
### </param>

```
interface('polaris_cpld_write',
gen_require('`
type polaris_sysfs_cpld_t;
```

---
type sysfs_t;

')
manage_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
manage_dirs_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file { read getattr };
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/cpld
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cpld_dev_use`,
  gen_require(`
    type device_t;
    type polaris_cpld_device_t;
  `)
)
  write_chr_files_pattern($1, device_t, polaris_cpld_device_t)
  read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
allow $1 polaris_cpld_device_t:chr_file map;
')

######################################
## <summary>
##      Work (read,ioctl) with /dev/cpld
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cpld_dev_read`,
  gen_require(`
    type device_t;
    type polaris_cpld_device_t;
  `)
)
  read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
')
Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscpld.if
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#
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#
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#

## <summary>Polaris dmi_opdatamgrd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmiopdatamgrd.if
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#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris rif_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrifmgr.if
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#
# November 2020, Christine Hwang
#
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#

policy_module(polariscabognss, 1.0);

gen_require(`
    type polaris_cabo_gnss_t;
`)

polaris_btrace_data_manage(polaris_cabo_gnss_t)
polaris_chasfs_manage(polaris_cabo_gnss_t)
polaris_tdlresolve_read(polaris_cabo_gnss_t)
polaris_cpld_read(polaris_cabo_gnss_t)
polaris_ripc_sman_ui_serv_connect(polaris_cabo_gnss_t)

# Allow sysfs read for platform ID and  
# r/w on /sys/class/gpio/export  
polarisSysfs Manage(polaris_cabo_gnss_t)  
devmanageSysfs dirs(polaris_cabo_gnss_t)

# Allow Cabo GNSS to access/modify GPS GPIO  
polaris_ggpio_dev_read_write(polaris_cabo_gnss_t)

# Allow Cabo GNSS access to /dev/pps0  
dev_rw realtime_clock(polaris_cabo_gnss_t)

# allow system time capability to check for system timeout  
allow polaris_cabo_gnss_t self:capability sys_time;

# Label Cabo GNSS TTY device  
type polaris_cabo_gnss_device_t;  
dev_node(polaris_cabo_gnss_device_t)

polaris_cabo_gnss_dev_use(polaris_cabo_gnss_t)

Found in path(s):  
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscabognss.te  
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#
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#
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#

## <summary>Polaris pttd Policy Rules.</summary>

Found in path(s):  
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispttcd.if  
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dnl
dnl April 2018, Victor Kamensky  
dnl
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dnl
define(`polaris_lpipc_service_server_many',  
`ifelse($3, `,`,

polaris_lipc_create_name(dollarsone, $1, "$2"),
polaris_lipc_create_name(dollarsone, $1, "$2-b$3")
`ifelse($3, 0, `polaris_lipc_create_name(dollarsone, $1, "$2")`, `polaris_lipc_service_server_many($1, $2, eval($3 - 1))`)')

define(`polaris_lipc_service_server_aux',`dnl
##########################################################################
## <summary>
##	Create $2 lipc channel.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <infoflow type="none"/>
#
interface(`polaris_lipc_$1_create_name'',``
gen_require(`
    type $2;
')
$3
``)

##########################################################################
## <summary>
##	Write $2 lipc channel.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <param name="server">
##	<summary>
##	Domain of owner of lipc channel.
##	</summary>
## </param>
## <infoflow type="none"/>
#
interface(`polaris_lipc_$1_write'',``
gen_require(`
    type $2;
')
    polaris_lipc_write(dollarsone, $2, dollarstwo)
``)
')
define('polaris_lipc_service_server',`dnl
polaris_lipc_service_server_aux(lipc_stem($1), lipc_label($1),
  polaris_lipc_service_server_many(lipc_label($1), $5, max_scope_map($3, $4, $2)))')

define('polaris_lipc_service_client',`')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_lipc_if.m4
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#
# December 2018, Victor Kamensky
#
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#

policy_module(polarisezmancc, 1.0);

gen_require('type polaris_ezman_cc_t;
')
polaris_chasfs_read(polaris_ezman_cc_t)
polaris_cpld_read(polaris_ezman_cc_t)
polaris_tdlresolve_read(polaris_ezman_cc_t)
polaris_ripc_sman_ui_serv_connect(polaris_ezman_cc_t)

allow polaris_ezman_cc_t self:capability dac_override;
polaris_oob_evfc_dev_use(polaris_ezman_cc_t)
# LOOK AT ME by some reason relabeling of /dev/ezlkm
# device files does not work
dev_rw_generic_chr_files(polaris_ezman_cc_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisezmancc.te
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#
# July 2017, Victor Kamensky
#
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#
# pci rescan shm file
/dev/shm/rescan_shm gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmcc.fc

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# March 2017, Victor Kamensky
#
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#

policy_module(polarissmand, 1.0);

gen_require('
    type polaris_smand_t;
    type polaris_smand_exec_t;
')

polaris_btrace_data_manage(polaris_smand_t)
polaris_crft_data_manage(polaris_smand_t)
polaris_chasfs_manage(polaris_smand_t)
polaris_tdlresolve_read(polaris_smand_t)
polaris_tdlldb_list_dirs(polaris_smand_t)
polaris_cpld_read(polaris_smand_t)
polaris_lua_read(polaris_smand_t)
polaris_flashlib_read(polaris_smand_t)
polaris_send_signal_to_bexecute(polaris_smand_t)
polaris_ripc_sman_ui_serv_connect(polaris_smand_t)
polaris_db_tdlldb_dir_use(polaris_smand_t)

type polaris_crdu_pipe_tmp_t;
files_tmp_file(polaris_crdu_pipe_tmp_t)
files_tmp_filetrans(polaris_smand_t, polaris_crdu_pipe_tmp_t, fifo_file, ".CRDU_COMMAND_PIPE")
files_tmp_filetrans(polaris_smand_t, polaris_crdu_pipe_tmp_t, fifo_file, ".CRDU_RESPONSE_PIPE")
polaris_smand_crdu_pipe_manage(polaris_smand_t)

# work with /tmp/sman files

type polaris_smand_tmp_t;
files_tmp_file(polaris_smand_tmp_t)
manage_dirs_pattern(polaris_smand_t, polaris_smand_tmp_t, polaris_smand_tmp_t)
manage_files_pattern(polaris_smand_t, polaris_smand_tmp_t, polaris_smand_tmp_t)
files_tmp_filetrans(polaris_smand_t, polaris_smand_tmp_t, { file dir })
# allow read of /etc/group
auth_use_nsswitch(polaris_smand_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_smand_t)

# allow objstore access
polaris_disk_objstore_read(polaris_smand_t)

# on edison smand shares sysv semaphore with iosd, why sem got initrc_t label
# is not clear.
gen_require(')
type initrc_t;
\)
allow polaris_smand_t initrc_t:sem { read write unix_write associate };

# why smand needs all these capability?
allow polaris_smand_t self:capability { dac_override chown fsetid };  
allow polaris_smand_t self:capability2 block_suspend;  
allow polaris_smand_t self:capability sys_resource;

# on edison smand wants to read /proc/mtd which is proc_t
# type=AVC msg=audit(1478481219.216:6): avc: denied { read } for pid=5410 comm="smand" name="mtd" dev="proc" ino=4026535811 scontext=system_u:system_r:polaris_smand_t:s0 tcontext=system_u:object_r:proc_t:s0 tclass=file
# try to drop it latter
kernel_read_system_state(polaris_smand_t)

# on edison silent roll package is still in iso format
# type=AVC msg=audit(1478497356.229:7): avc: denied { getattr } for pid=5816 comm="smand" path="/tmp/sw/mount/cat3k_caa-srdriver.2016-11-06_21.10_kamensky.SSA.pkg/usr/binos/lib64" dev="loop7" ino=3456 scontext=system_u:system_r:polaris_smand_t:s0 tcontext=system_u:object_r:proc_t:s0 tclass=dir
# try to drop it latter
kernel_read_system_state(polaris_smand_t)

corecmd_exec_shell(polaris_smand_t)

# CLI "Show install issu history" invokes /usr/binos/conf/install_issu_show.py which
# needs /usr/bin/python3(bin file) execution
corecmd_exec_bin(polaris_smand_t)

# smand execute install_show.sh in its own domain need read results
polaris_install_show_tmp_read(polaris_smand_t)
# during boot issu_boottime.sh calls smand to obtain some information
gen_require('type unconfined_service_t;')
domtrans_pattern(unconfined_service_t, polaris_smand_exec_t, polaris_smand_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# ioctl(fd, SIOCGIFADDR, &ifr); on "system" interface name, which normally
# does not exist in Polaris platforms
kernel_dontaudit_request_load_module(polaris_smand_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# statfs64 for /flash directory
fs_getattr_xattr_fs(polaris_smand_t)
polaris_disk_bootflash_read_link(polaris_smand_t)
polaris_disk_bootflash_search(polaris_smand_t)

gen_require('type rsync_t;')
# upon exec rsync inherits smand's stdout/stderr fifo files
allow rsync_t polaris_smand_t:fifo_file write;

gen_require('type polaris_bshell_t;')
polaris_chasfs_read(polaris_bshell_t)
polaris_tdlresolve_read(polaris_bshell_t)

# bshell memory logs related
type polaris_memmon_tmp_files_t;
files_tmp_file(polaris_memmon_tmp_files_t)
files_tmp_filetrans(unconfined_service_t, polaris_memmon_tmp_files_t, dir, "memmon_logs")
## give bshell permissions
manage_files_pattern(polaris_bshell_t, polaris_memmon_tmp_files_t, polaris_memmon_tmp_files_t)

# sman needs to access gnmib gnoi images
optional_policy('polaris_gnmib_gnoi_images_read(polaris_smand_t)')

# CLI "Show install issu history" access to "/bootflash/installer/install_issu_history"
# and "/tmp/show_install_output.txt"
polaris_install_engine_domtrans(polaris_smand_t)
polaris_install_show_domtrans(polaris_smand_t)

# xcopy_script gets called for xcopy RPC data model
polaris_xcopy_script_domtrans(polaris_smand_t)

#
=================================================================================================

=
# "sh ip ports" CLI policies, execute trans_ports_helper.sh script
polaris_utility_domain_template(trans_ports_helper)
# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_ports_helper_exec_t, polaris_trans_ports_helper_t)
# binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_ports_helper_t)
# execute "tail" command
corecmd_exec_bin(polaris_trans_ports_helper_t)
corecmd_exec_shell(polaris_trans_ports_helper_t)
polaris_proc_fd_all_getattr(polaris_trans_ports_helper_t)
# getattr all polaris_domain
domain_getattr_all_domains(polaris_trans_ports_helper_t)
# run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_ports_helper_t)
fs_read_nsfs_files(polaris_trans_ports_helper_t)

# lsol options tcp reads /proc/net/raw
kernel_read_network_state(polaris_trans_ports_helper_t)
# ls access to /proc/3792/fd/6 triggers sys_ptrace capability
allow polaris_trans_ports_helper_t self:capability { sys_ptrace };

# allow file and directory read and execute permission checks
allow polaris_trans_ports_helper_t self:capability dac_read_search;

# map /etc/passwd
auth_use_nsswitch(polaris_trans_ports_helper_t)

type polaris_trans_ports_tmp_t;
files_tmp_file(polaris_trans_ports_tmp_t)
# create /tmp/trans_ports_tmp and /tmp/trans_ports_result
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_tmp")
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_result")
polaris_trans_ports_tmp_manage(polaris_trans_ports_helper_t)
# smand open and unlinks /tmp/trans_ports_tmp
polaris_trans_ports_tmp_manage(polaris_smand_t)
#
=================================================================================================

=
# "show platform software kernel ... " CLI executes trans_stats_helper.sh. Need domain
# transition
#
polaris_utility_domain_template(trans_stats_helper)
# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_stats_helper_exec_t, polaris_trans_stats_helper_t)
  #binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_stats_helper_t)
  #execute lsof in helper script
corecmd_exec_bin(polaris_trans_stats_helper_t)
corecmd_exec_shell(polaris_trans_stats_helper_t)
auth_use_nsswitch(polaris_trans_stats_helper_t)
  # lsof reads /proc/*/fd/* attributes
polaris_proc_fd_all_getattr(polaris_trans_stats_helper_t)

  # lsof options tcp reads /proc/net/raw
kernel_read_network_state(polaris_trans_stats_helper_t)

  # lsof reads /proc/locks
kernel_read_system_state(polaris_trans_stats_helper_t)

  # lsf readmnt
fs_read_nsfs_files(polaris_trans_stats_helper_t)

  # ls access to /proc/3792/fd/6 triggers sys_ptrace capability
  # and dac_read_search as well.
allow polaris_trans_stats_helper_t self:capability { sys_ptrace dac_read_search };

  type polaris_trans_stats_tmp_t;
files_tmp_file(polaris_trans_stats_tmp_t)
  # create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output
files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp")
files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp.1")
polaris_trans_stats_tmp_manage(polaris_trans_stats_helper_t)
  # smand open and unlinks /tmp/trans_tmp
polaris_trans_stats_tmp_manage(polaris_smand_t)

  # run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_stats_helper_t)

  
  #======================================================================
  # CLI "request platform hardware filesystem harddisk: offline | online" which runs mcp_disk_oir.sh
polaris_utility_domain_template(disk_oir)
polaris_bexecute_domain(polaris_disk_oir_t, polaris_disk_oir_exec_t)

  #execute lsof
corecmd_exec_bin(polaris_disk_oir_t)

  # This is a CLI script that access types and /proc/pid/fd/*
polaris_proc_fd_all_getattr(polaris_disk_oir_t)


# access sysctl_rpc_t
kernel_read_rpc_sysctls(polaris_disk_oir_t)

# reads /proc/net/*
kernel_read_network_state(polaris_disk_oir_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_disk_oir_t)

# ls/of readmnt
fs_read_nsfs_files(polaris_disk_oir_t)

# inherits stdin/stdout of pty opened by telnetd
telnet_use_ptys(polaris_disk_oir_t)

allow polaris_disk_oir_t self:capability { dac_read_search sys_nice sys_rawio }; allow polaris_disk_oir_t self:process { setfscreate setsched }

# execute lvm commands
lvm_domtrans(polaris_disk_oir_t)

# "ls/of -nP" read /dev/sda1 (/csl_p_0) and other operations when disk is destroyed.
storage_manage_fixed_disk(polaris_disk_oir_t)

# access /tmp/chassis/cpld/chasfs
polaris_chasfs_read(polaris_disk_oir_t)

# cat /tmp/chassis/cpld/chasfs/platform_type'
polaris_cpld_read(polaris_disk_oir_t)

# /bin/rm -rf /tmp/udev/etc/udev/harddisk'
fs_getattr_tmpfs(polaris_disk_oir_t)

# access /tmp/udev/etc/udev/harddisk'
polaris_udev_tmp_manage(polaris_disk_oir_t)

# /bin/mkdir -p /tmp/udev_cache/harddisk
files_tmp_filetrans(polaris_disk_oir_t, polaris_udev_tmp_files_t, dir, "udev_cache")

# systemctl start handle_mount@vol-harddisk.service, communicate with sysemd
systemd_exec_systemctl(polaris_disk_oir_t)

# mount /dev/harddisk1 /vol/harddisk
mount_domtrans(polaris_disk_oir_t)

# read /proc/cmdline
kernel_read_all_proc(polaris_disk_oir_t)
# system service start/stop: /lib/systemd/system/handle_mount@.service
systemd_config_generic_services(polaris_disk_oir_t)

#/sbin/hdparm -S 0 /dev/sdb, execute hdparm in its own domain
fstools_domtrans(polaris_disk_oir_t)

ifdef('crankshaft_family',
    gen_require(
        type device_t;
        type udev_t;
    )
    filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
    filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
    manage_lnk_files_pattern(polaris_disk_oir_t, fixed_disk_device_t, fixed_disk_device_t)
    # /dev/harddisk may be labeled with device_t. The "unlink" AVC deny will be fixed when it is labeled correctly

    # allow /bin/dd to access /dev/nvme in blk_file
    dev_nvme_blk_files_manage(polaris_disk_oir_t)

    # allow /bin/cat to access /tmp/nim_xxd_present
    gen_require(
        type polaris_cmrp_nim_xxd_tmp_t;
    )
    read_files_pattern(polaris_disk_oir_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)
)

    # watches of /tmp/[rp|fp|cc]/pvp/process_state directory
    polaris_process_state_watch(polaris_smand_t)

ifdef('petra_platform',
    # allow access to polaris_cm_rp sem
    polaris_cm_rp_sem_use(polaris_smand_t)
    # allow access to /flash12/moncfg/cfg.dat
    polaris_swipedrive_file_manage(polaris_smand_t)
    # allow access to /flash6/moncfg/cfg.dat
    polaris_nvram_read(polaris_smand_t)
)
dmesg_domtrans(polaris_smand_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissmand.te
No license file was found, but licenses were detected in source scan.

#
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#

/tmp/fp/lipc       -d gen_context(system_u:object_r:polaris_lipc_t,s0)
/tmp/rp/lipc       -d gen_context(system_u:object_r:polaris_lipc_t,s0)
/tmp/cc/lipc       -d gen_context(system_u:object_r:polaris_lipc_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislipc.fc
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#

### <summary>Polaris cm_cc Policy Rules.</summary>

#######################################
## <summary>
##      Execute cmand_fp in the polaris_cm_fp_t domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_cm_cc_domtrans',
          gen_require(
              type polaris_cm_cc_t, polaris_cm_cc_exec_t;
          )
          corecmd_search_bin($1)
          domtrans_pattern($1, polaris_cm_cc_exec_t, polaris_cm_cc_t)
      )

#######################################
## <summary>
##      Manage cm_cc_tmpfs files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
# interface('polaris_cm_cc_tmpfs_manage',
#     gen_require(
#         type polaris_cm_cc_tmpfs_t;
#     ')
#
#     manage_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
#     mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
# ')

#################################
## <summary>
##      Check presence and unlink /tmp/nim_xxd_present file created by cman cc.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <rolecap/>
#
# interface('polaris_nim_xxd_tmp_open_unlink',
#     gen_require(
#         type polaris_nim_xxd_tmp_t;
#     ')
#
#     allow $1 polaris_nim_xxd_tmp_t:file { open unlink }
# ')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmcc.if
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#

define_policy_module(polariscppcp, 1.0);

gen_require(' 
    type polaris_cpp_cp_t;
')

polaris_btrace_data_manage(polaris_cpp_cp_t)
polaris_crft_data_manage(polaris_cpp_cp_t)
polaris_chasfs_manage(polaris_cpp_cp_t)
polaris_tdlresolve_read(polaris_cpp_cp_t)
polaris_tdlldb_list_dirs(polaris_cpp_cp_t)
polaris_cpld_read(polaris_cpp_cp_t)
polaris_flashlib_read(polaris_cpp_cp_t)

polaris_ripc_sman_ui_serv_connect(polaris_cpp_cp_t)

polaris_db_tdlldb_dir_use(polaris_cpp_cp_t)

polaris_cpp_process(polaris_cpp_cp_t)
polaris_cpp_dev_use(polaris_cpp_cp_t)

polaris_icc_broken_relocations(polaris_cpp_cp_t)

logging_send_syslog_msg(polaris_cpp_cp_t)

polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cp_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cpp_cp_t)
')

# cpp_palci_wallclock_time_ticks function reads /var/lock/subsys/sntp.offset
files_read_all_locks(polaris_cpp_cp_t)

# allow objstore access
polaris_disk_objstore_read(polaris_cpp_cp_t)

optional_policy(`
polaris_spa_dev_use(polaris_cpp_cp_t)
')

# handle geodb file access
polaris_geodb_files_manage(polaris_cpp_cp_t)

optional_policy(`
polaris_cbdma_dev_use(polaris_cpp_cp_t)
')

polaris_hkp_dev_use(polaris_cpp_cp_t)
# Access /dev/astro
polaris_astro_dev_use(polaris_cpp_cp_t)
polaris_vega_dev_use(polaris_cpp_cp_t)
')
polaris_cpp_tmpfs_manage(polaris_cpp_cp_t)
polaris_cpld_dev_use(polaris_cpp_cp_t)
Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppcp.te
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#

### <summary>Polaris issu_monitor Policy Rules.</summary>

### Execute issu_monitor in the polaris_issu_monitor domain.

### <param name="domain">
### Domain allowed to transition.
### </param>

interface(`polaris_issu_monitor_domtrans',
gen_require(`
type polaris_issu_monitor_t, polaris_issu_monitor_exec_t;
')
domtrans_pattern($1, polaris_issu_monitor_exec_t, polaris_issu_monitor_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisissumonitor.if
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#

/tmp/sysctrl_i2c.lck gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)
/tmp/pfu_oirtime.lock gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)
/tmp/golden_boot gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)

# dash_fpga_xaui.py is the backend python code for
# the cli "show platform hardware slot R0 xaui statistics"
/usr/binos/conf/dash_fpga_xaui.py -- gen_context(system_u:object_r:polaris_dash_fpga_xaui_exec_t,s0)

/usr/binos/bin/cmand_us -- gen_context(system_u:object_r:polaris_cm_rp_exec_t,s0)
# relabel /vol/harddisk/.inv
/vol/harddisk/inv(/.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)
/vol/harddisk_internal/inv(/.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)

#.inv dir is in /bootflash in Katar eWLC
/bootflash/inv(/.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)

/usr/binos/conf/mcp_fpga_status_cmd.sh -- gen_context(system_u:object_r:polaris_fpga_status_cmd_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmrp.fc
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#
#

policy_module(polariscmrp, 1.0);

########################################################################
# Polaris common
########################################################################

# domain that holds all polaris processes
attribute polaris_domain;

# domain that holds all polaris processes executables
attribute polaris_exec_domain;

# domain that holds all polaris processes plus few base types that operates on
# during system start, like initrc_t and unconfined_service_t. Please remove
# unconfined types latter.
attribute polaris_extended_domain;

gen_require(
    type unconfined_t;
    type unconfined_service_t;
    type initrc_t;
    type init_t;
)
typeattribute unconfined_t polaris_extended_domain;
typeattribute unconfined_service_t polaris_extended_domain;
typeattribute initc_t polaris_extended_domain;
typeattribute init_t polaris_extended_domain;

# common permissions that are safe to grant and hard to root cause.
# these permissions may need to be turned off during development or tightened
# in future releases
gen_require('  
    attribute domain;
')

# sys_resource denial is seen due to disk full issue
# and possibly FD exceeding limit
allow domain self:capability sys_resource;

# When management interface is enabled for development Polaris device can be
# access by telnet, which directly drops into shell. It would be desirreably
# to remove telnet functionality att all. But for now we need transition
# rule to get shell running in unconfined domain.
gen_require('  
    type telnetd_t;
')
unconfined_shell_domtrans(telnetd_t)

########################################################################
# This block is policies for "request platform software system shell" CLI.
# Execute bexecute in polaris_bexecute domain.
polaris_bexecute_domtrans(telnetd_t)

# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/sbin/in.telnetd
# -L /usr/binos/conf/brelay.sh
# - this needs read/write/create access to /tmp/rp/trace/in_telnetd_*-bin.tmp
# which later gets renamed to /tmp/rp/trace/telnetd_service_sh_*-bin
polaris_btrace_data_manage(telnetd_t)
# mcp_telnetd_init through btrace_application_start calls get_chassis_number
# so it needs chasfs access
polaris_chasfs_read(telnetd_t)
polaris_cpld_read(telnetd_t)
polaris_btrace_lvl_config_manage(telnetd_t)
########################################################################

# LOOK AT ME: rsync needs sys_admin capability
# only seen when we boot in enforcing mode, localtime glibc library call
# needs time zone information and through __tz_convert function it eventually
# calls syspage function and that in turns calls Cisco syspage related
# prctl that is protected by CAP_ADMIN now
gen_require('  
    type rsync_t;
')
allow rsync_t self:capability sys_admin;

# mount_packages.sh systemd unit runs under init_t and it leaks unix socket
gen_require(
    type rsync_t;
    type init_t;
)
allow rsync_t init_t:unix_stream_socket getattr;

# LOOK AT ME: auditd needs sys_admin capability
# only seen when we boot in enforcing mode, denials happens upon exec of
# auditdsp why is not entirely clear
gen_require(
    type auditd_t;
)
allow auditd_t self:capability sys_admin;

# LOOK AT ME:
# Because Cisco kernel features check for capability sys_admin
# before granting access to it. It turns out to be mistake because
# in SELinux universe being root does not mean one have sys_admin
# capability. For now grant sys_admin capability to everyone :
.gen_require(
    attribute domain;
)
allow domain self:capability sys_admin;

# LOOK AT ME:
# all polaris SMU system is based on LD_LIBRARY_PATH passing from
# parent to child, but if auxv AT_SECURE would be set to 1, glibc
# will clean LD_LIBRARY_PATH and other environment variables when
# it execve another process. We need to grant noatsecure to all
# processes
gen_require(
    attribute domain;
)
allow domain domain:process { noatsecure rlimitinh };

# nfs server exporting some directories like /harddisk
gen_require(
    type nfsd_t;
)
polaris_disk_bootflash_read_lnk(nfsd_t)
polaris_harddisk_read(nfsd_t)

# nfs server check hugetlbfs files system
gen_require(
    type hugetlbfs_t;
list_dirs_pattern(nfsd_t, hugetlbfs_t, hugetlbfs_t)

# temporarily addressing denial,
# preferable to turn on nfs_export_all_rw/ro boolean
gen_require('  
    type removable_t;
')
list_dirs_pattern(nfsd_t, removable_t, removable_t)

# firmware type
type polaris_firmware_t;
files_type(polaris_firmware_t)

# some systemd unit creates /firmware directory in initramfs
gen_require('  
    attribute domain;
    type root_t;
')
filetrans_pattern(domain, root_t, polaris_firmware_t, dir, "firmware")

# handling /tmp/debug.conf, created by systemd unit
gen_require('  
    type polaris_debug_conf_t;
    type unconfined_service_t;
')
files_tmp_filetrans(unconfined_service_t, polaris_debug_conf_t, {file lnk_file}, "debug.conf")

# /tmp/etc files; serving as /etc like but sitting in mutable storage
# (assuming that real /etc would become read-only eventually)
type polaris_etc_t;
files_type(polaris_etc_t);

# /tmp/sv files
type polaris_sv_tmp_t;
files_tmp_file(polaris_sv_tmp_t)

# /dev/i2c-N
type polaris_i2c_device_t;
device_node(polaris_i2c_device_t)

# remap_mem0 device
type polaris_remap_mem_device_t;
device_node(polaris_remap_mem_device_t)

type polaris_ebf_t;
files_type(polaris_ebf_t)
# allow all domains map/read ebf files

```haskell
  gen_require('attribute domain;
    ')
  polaris_ebf_map(domain)
```

# btrace files for telnetd, since telnetd is open source label
# and it does not use our domain creation template

gen_require('type telnetd_t;
  ')
type polaris_telnetd_bt_t:
polaris_btrace_data_type(polaris_telnetd_bt_t)
polaris_btrace_data_client(telnetd_t, polaris_telnetd_bt_t)

type polaris_telnetd_maroon_t:
polaris_maroon_data_type(polaris_telnetd_maroon_t)
polaris_maroon_data_client(telnetd_t, polaris_telnetd_maroon_t)

# install add file on ULTRA invokes:
# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/sbin/in.telnetd -L /usr/binos/conf/brelay.sh
# That needs getattr on /lib/systemd/system/ksm.service
polaris_ksm_run_check(telnetd_t)

# restorecon needs sys_resource capability

```haskell
  gen_require('type setfiles_t;
    ')
  allow setfiles_t self:capability sys_resource;
```

# accessing /sys/firmware/dmi/tables/DMI

gen_require('type dmidecode_t;
  type sysfs_t;
  ')

```haskell
mmap_files_pattern(dmidecode_t, sysfs_t, sysfs_t)
```

gen_require('type dmidecode_t;
  type memory_device_t;
  ')

```haskell
  allow dmidecode_t memory_device_t:chr_file map;
```
# called by confd_t label with it is file as stdin
polaris_confd_tmp_use_fifo(dmidecode_t)

# rpcbind binds to port

gen_require('type rpcbind_t;
  ')

corenet_udp_bind_generic_port(rpcbind_t)

# when polaris_unconfined we need to mark all subject labels except
# iosd lable to run as unconfined
ifdef('polaris_unconfined',
    gen_require(
        type auditd_t;
        type dhcpc_t;
        type getty_t;
        type inetd_t;
        type initrc_t;
        type init_t;
        type journalctl_t;
        type nfsd_t;
        type ntpd_t;
        type rpcbind_t;
        type rpcd_t;
        type rsync_t;
        type setfiles_t;
        type sshd_t;
        type syslogd_t;
        type system_dbusd_t;
        type udev_t;
        type virtd_t;
        type virtlogd_t;
        type ldconfig_t;
        type hostname_t;
    )
unconfined_domain(auditd_t)
unconfined_domain(dhcpc_t)
unconfined_domain(getty_t)
unconfined_domain(inetd_t)
unconfined_domain(initrc_t)
unconfined_domain(init_t)
unconfined_domain(journalctl_t)
unconfined_domain(nfsd_t)
unconfined_domain(ntpd_t)
unconfined_domain(rpcbind_t)
unconfined_domain(rpcd_t)
unconfined_domain(rsync_t)
unconfined_domain(setfiles_t)
unconfined_domain(sshd_t)
unconfined_domain(syslogd_t)
unconfined_domain(system_dbusd_t)
unconfined_domain(udev_t)
unconfined_domain(virtd_t)
unconfined_domain(virtlogd_t)
unconfined_domain(ldconfig_t)
unconfined_domain(hostname_t)
)

ifdef(`polaris_unconfined',`
optional_policy(`
gen_require(`
    type container_runtime_t;
')
unconfined_domain(container_runtime_t)
')

')

# /tmp/rsync_log_dir files

type polaris_rsync_tmp_t;
files_tmp_file(polaris_rsync_tmp_t)

# activate correct named transition for basic directories
# when code runs under unconfined_service_t, i.e calls ip
# command that runs under ifconfig_t and creates /run/netns

gen_require(`
    type unconfined_service_t;
')
domain_named_filetrans(unconfined_service_t)

gen_require(`
    type ifconfig_t;
    type ifconfig_var_run_t;
')
allow ifconfig_t ifconfig_var_run_t:dir mounton;

# earlier invocation of ifconfig complains about tmp_t mounton
# on /sys directory

gen_require(`
    type tmp_t;
')
allow ifconfig_t tmp_t:dir mounton;

#SERDES library stores info in /tmp/serdes_asic_key_dir/*
type polaris_serdes_asic_key_tmp_t;
files_tmp_file(polaris_serdes_asic_key_tmp_t)

# /dev/shm/vrf_shm access

type polaris_vrf_shm_t;
files_type(polaris_vrf_shm_t)

# /dev/shm/cerrno_dll access

type polaris_cerr_shm_t;
files_tmpfs_file(polaris_cerr_shm_t)
# for /sbin/ip: /dev/shm/vrf_shm access in netns creation
gen_require('  
    type ifconfig_t;
')
polaris_vrf_shm_manage(ifconfig_t)

# for /sbin/ip: adds lfts device in netns creation
polaris_lfts_dev_use(ifconfig_t)

# new systemd-tmpfiles needs this permissions
gen_require('  
    type systemd_tmpfiles_t;
')
allow systemd_tmpfiles_t self:capability sys_resource;
allow systemd_tmpfiles_t self:process setrlimit;

gen_require('  
    type unconfined_service_t;
')
ssh_initrc_domtrans(unconfined_service_t)

# wlc awips
type polaris_awips_signature_file_t;
polaris_pfile_type(polaris_awips_signature_file_t)

# /usr/bin/curl
type polaris_curl_t;
type polaris_curl_exec_t;
init_system_domain(polaris_curl_t, polaris_curl_exec_t)
coreneth_udp_bind_generic_node(polaris_curl_t)
auth_use_nsswitch(polaris_curl_t)
polaris_crft_data_read(polaris_curl_t)

# for ip netns exec X curl
optional_policy('  
    polaris_curl_domtrans(ifconfig_t)
')

#/etc/init.d/sshd that runs under initrc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically symlink to /bootflash
gen_require('  
    type initrc_t;
    type ssh_home_t;
')
polaris_bootflash_filetrans(initrc_t, ssh_home_t, dir, ",.ssh")
# /tmp/ldwm_envelope file
type polaris_ldwm_envelope_tmp_t;
files_tmp_file(polaris_ldwm_envelope_tmp_t)
gen_require(
    type initrc_t;
    type init_t;
')
files_tmp_filetrans({ initrc_t init_t }, polaris_ldwm_envelope_tmp_t, file, "ldwm_envelope")

# CLI: show platform software tech-support
polaris_utility_domain_template(tech_support)
polaris_bexecute_domain(polaris_tech_support_t, polaris_tech_support_exec_t)
polaris_bexecute_domtrans(polaris_tech_support_t)

# allow to run readlink -f /usr/binos/conf/psimple.sh
corecmd_exec_bin(polaris_tech_support_t)

# Additional policies needed for workflow
auth_use_nsswitch(polaris_tech_support_t)
dev_list_sysfs(polaris_tech_support_t)
polaris_chasfs_read(polaris_tech_support_t)
polaris_cpld_read(polaris_tech_support_t)
# scripts stdin is set by hman and needs access to pipes like pipe:[271524]
polaris_hman_use_fifo(polaris_tech_support_t)
# Allow ls to /tmp/ufs/crashinfo
optional_policy(
    polaris_ncd_tmp_read(polaris_tech_support_t)
')

# Allow readlink to /usb0 and /usb1
optional_policy(
    fs_read_removable_symlinks(polaris_tech_support_t)
')

gen_require(
    type polaris_btrace_tmppub_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_crashinfo_t;
')

# platform_tech_support.sh creates misc files/dirs under /tmp/tmppub
type polaris_tech_support_tmp_t;
files_tmp_file(polaris_tech_support_tmp_t)
filetrans_pattern(polaris_tech_support_t, polaris_btrace_tmppub_t, polaris_tech_support_tmp_t, { file dir })
# misc file directly in /tmp like /tmp/esg_tech_support_command_file_out.txt
files_tmp_filetrans(polaris_tech_support_t, polaris_tech_support_tmp_t, file,
"esg_tech_support_command_file_out.txt")
files_tmp_filetrans(polaris_tech_support_tmp_t, polaris_tech_support_tmp_t, file,
"sdwan_tech_support_command_file_out.txt")
manage_files_pattern(polaris_tech_support_tmp_t, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)
manage_dirs_pattern(polaris_tech_support_tmp_t, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)

# /bootflash/certs


type polaris_ap_cert_file_t;
files_type(polaris_ap_cert_file_t)
polaris_pfile_type(polaris_ap_cert_file_t)

# Additional policies needed for workflow when file option is used
# show platform software tech-support file bootflash:show_tech_file
polaris_bootflash_manage(polaris_tech_support_t)
polaris_disk_crashinfo_manage(polaris_tech_support_t)
fs_getattr_tmpfs(polaris_tech_support_t)
polaris_btrace_persistent_data_read(polaris_tech_support_t)

type polaris_rommon_info_tmp_t;
files_tmp_filetrans(intrc_t , polarisRommon_info_tmp_t, file, "existing_rommon_info")
manage_files_pattern(intrc_t , polarisRommon_info_tmp_t, polarisRommon_info_tmp_t)
fs_associate_tmpfs(polarisRommon_info_tmp_t)

# tamlib debug file


type polaris_tamlib_dbg_file_t;
polaris_pfile_type(polaris_tamlib_dbg_file_t)

# read /proc/cmdline
kernel_read_system_state(polaris_tech_support_t)
# read rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_tech_support_t)
# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_tech_support_t)

# /dev/ddr

type polaris_ddr_device_t;
dev_node(polaris_ddr_device_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscommon.te
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#
# February 2020, Victor Kamensky
#
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#
policy_module(polariscedgetanman, 1.0);

# why /usr/binos/conf/cedge-tanman.sh is not described in TDL?
polaris_process_domain_template(cedge_tanman)

polaris_boot_tmp_read(polaris_cedge_tanman_t)
polaris_chasfs_read(polaris_cedge_tanman_t)
polaris_cpld_read(polaris_cedge_tanman_t)
polaris_read_debug_conf(polaris_cedge_tanman_t)
polaris_use_btrace_fifo(polaris_cedge_tanman_t)

corecmd_exec_bin(polaris_cedge_tanman_t)
corecmd_exec_shell(polaris_cedge_tanman_t)
auth_use_nsswitch(polaris_cedge_tanman_t)

# /tmp/tan handling

type polaris_cedge_tanman_tmp_t;
files_tmp_file(polaris_cedge_tanman_tmp_t)
gen_require(

    type tmp_t;
)
manage_dirs_pattern(polaris_cedge_tanman_t, tmp_t, polaris_cedge_tanman_tmp_t)
manage_fifo_files_pattern(polaris_cedge_tanman_t, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_t)
files_tmp_filetrans(polaris_cedge_tanman_t, polaris_cedge_tanman_tmp_t, dir, "tan")

# calls du -sk /tmp/xml/System
fs_getattr_tmpfs(polaris_cedge_tanman_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_cedge_tanman_t)

# work with /tmp/tmp
polaris_cedge_tmpmanage(polaris_cedge_tanman_t)

polaris_btrace_tmppub_read(polaris_cedge_tanman_t)

allow polaris_cedge_tanman_t self:capability sys_resource;

# calls nice
allow polaris_cedge_tanman_t self:process setsched;

# runs inotifywait -mq --format %f: -e moved_to /bootflash/tracelogs
# and removes files in /bootflash/tracelogs
polaris_btrace_persistent_data_manage(polaris_cedge_tanman_t)

# runs ps -eaf
# ps needs access to proc_t
kernel_read_system_state(polaris_cedge_tanman_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_cedge_tanman_t)
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_cedge_tanman_t)

# watch over /bootflash/tracelogs
polaris_btrace_data_watch(polaris_cedge_tanman_t)

# watches over /tmp for /tmp/booted appearence
gen_require(`
   type tmp_t;
`)
allow polaris_cedge_tanman_t tmp_t:dir watch;

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  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscedgetanman.te
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#
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#

policy_module(polariscontainer, 1.0);

# polaris_default_container_t type for not labeled container
polaris_container_domain_template(default)

# polaris_utd_container_t type for snort container
polaris_container_domain_template(utd)
polaris_utd_container(polaris_utd_container_t)

# polaris_utdl_container_t type for snort container, that has
# legacy configuration, need more permissions
polaris_container_domain_template(utdl)
polaris_utd_container(polaris_utdl_container_t)

# manage /tmp/xml/{Utd*} dirs
polaris_vman_log_files_manage(polaris_utdl_container_t)
optional_policy(
   polaris_cedge_xml_tmp_manage(polaris_utdl_container_t)
)

allow polaris_utdl_container_t ramfs_t:file map;
polaris_iox_container_watch(polaris_utdl_container_t)

# work with memif
optional_policy(
    polaris_qfp_dgram_send(polaris_utdl_container_t)
)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(
    polaris_htx_iox_tmp_manage(polaris_utdl_container_t)
)
optional_policy(
    polaris_htx_use_client_socket(polaris_utdl_container_t)
)

# allow container to work with /tmp/binos-IOX
optional_policy(
    polaris_qfp_memif_manage(polaris_utdl_container_t)
)

# snort works with /dev/shm/SPO_DAQ_MMAP_OBJ_
fs_exec_tmpfs_files(polaris_utdl_container_t)

# allow container to work with /tmp/xml/* files
optional_policy(
    polaris_vman_tmp_manage(polaris_utdl_container_t)
)

gen_require(`
    type container_file_t;
    `)
polaris_disk_type(container_file_t)

# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of ramfs on /tmp/snortlogs
fs_mount_ramfs(polaris_utdl_container_t)
# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of tmpfs on /dev/shm
fs_mount_tmpfs(polaris_utdl_container_t)
fsm_manage_tmpfs_dirs(polaris_utdl_container_t)
fsm_manage_tmpfs_files(polaris_utdl_container_t)
fsm_manage_tmpfs_symlinks(polaris_utdl_container_t)

# Allow ramfs access to utd container
fs_manage_ramfs_dirs(polaris_utdl_container_t)
fsm_manage_ramfs_files(polaris_utdl_container_t)
# Allow link file access from cron to crond
kernel_read_state(polaris_utdl_container_t)

# Allow Snort
allow polaris_utdl_container_t self:packet_socket map;

# polaris_iox_container_t type for generic IOx containers
polaris_container_domain_template(iox)

fs_mount_tmpfs(polaris_iox_container_t)
fs_manage_tmpfs_dirs(polaris_iox_container_t)
fs_manage_tmpfs_files(polaris_iox_container_t)
fs_manage_tmpfs_symlinks(polaris_iox_container_t)
fs_manage_tmpfs_sockets(polaris_iox_container_t)
# fs_manage_tmpfs_fifo_files is missing
gen_require(`
    type tmpfs_t;
    )
manage_fifo_files_pattern(polaris_iox_container_t, tmpfs_t, tmpfs_t)
fs_mounton_tmpfs(polaris_iox_container_t)
# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald
allow polaris_iox_container_t tmpfs_t:file map;

# container reads ip netns identity <pid>
fs_read_nsfs_files(polaris_iox_container_t)

# container systemd does remount of some file systems
gen_require(`
    type svirt_sandbox_file_t;
    )
allow polaris_iox_container_t svirt_sandbox_file_t:filesystem { remount };

polaris_caf_var_run_files_manage(polaris_iox_container_t)
# permit access to /local core files between host and container
polaris_caf_local_core_files_manage(polaris_iox_container_t)

allow polaris_iox_container_t self:cap_users { chown dac_override dac_read_search fsetid setgid setpcap setuid
sys_admin sys_boot };

gen_require(`
    type devpts_t;
    type polaris_iox_container_t;
    type container_runtime_t;
    class fifo_file { getattr ioctl read write };
    class chr_file { getattr ioctl open read setattr write };
    )

#============= polaris_iox_container_t ==============

allow polaris_iox_container_t container_runtime_t:fifo_file { getattr setattr ioctl open read write }; 
allow polaris_iox_container_t devpts_t:chr_file { getattr ioctl open read setattr write }; 

# Normally lipc denials are addressed by code that is generated from TDL.  
# I.e if process need to access lipc service it just need to be listed as 'client' of proper TDL service.  
# If in this case iox_container process does not have its own TDL proc_def entry,  
# therefore we use autogenerated polaris_lipc_iosd_portal_app_write macro/interface.  
# Marking this policy optional, so that if platform TDL does not have proper service defined  
# then polaris_lipc_iosd_portal_app_write won't be generated, but container policy still would compile.  
optional_policy(  
    gen_require(  
        type polaris_iosd_t;  
    )  
    polaris_lipc_iosd_portal_app_write(polaris_iox_container_t, polaris_iosd_t)  
) 

docker_exec_lib(polaris_iox_container_t)  
fs_exec_hugetlbs_files(polaris_iox_container_t)  
kernel_read_ring_buffer(polaris_iox_container_t)  
dev_read_sysfs(polaris_iox_container_t)  
polaris_iox_container_watch(polaris_iox_container_t)  

# polaris_sdavc_container_t type for SDAVC container, that has  
# legacy configuration, need more permissions  
polaris_container_domain_template(sdavc)  
polaris_utd_container(polaris_sdavc_container_t)  

# manage /tmp/xml/{SDAVC*} dirs  
polaris_vman_log_files_manage(polaris_sdavc_container_t)  

# legacy SDAVC containder in /etc/init.d/rc.local does unconditional  
# mount of tmpfs on /dev/shm  
fs_mount_tmpfs(polaris_sdavc_container_t)  

# container systemd mounton tmpfs_t & tmpf_st management  
fs_mounton_tmpfs(polaris_sdavc_container_t)  
fs_manage_tmpfs_dirs(polaris_sdavc_container_t)  
fs_manage_tmpfs_files(polaris_sdavc_container_t)  
fs_manage_tmpfs_symlinks(polaris_sdavc_container_t)  
fs_manage_tmpfs.Sockets(polaris_sdavc_container_t)  
manage_fifo_files_pattern(polaris_sdavc_container_t, tmpfs_t, tmpfs_t)  
# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald  
allow polaris_sdavc_container_t tmpfs_t:file map;  
# Add watch on tmpfs_t/container_t dir/files  
polaris_iox_container_watch(polaris_sdavc_container_t)  

# map/mount/write hugtlbfs files
gen_require('type hugetlbfs_t;')
allow polaris_sdavc_container_t hugetlbfs_t:filesystem mount;
allow polaris_sdavc_container_t hugetlbfs_t:file map;
fs_manage_hugetlbfs_dirs(polaris_sdavc_container_t)

# Allow syslog_mod operation on kernel_t
kernel_clear_ring_buffer(polaris_sdavc_container_t)

# Allow tcpdump
allow polaris_sdavc_container_t self:packet_socket map;
allow polaris_utdl_container_t self:packet_socket map;

# add in the docker files labels to polaris_disk_type
gen_require('type container_var_lib_t;
type container_share_t;
type container_log_t;
')
polaris_disk_type(container_var_lib_t)
polaris_disk_type(container_share_t)
polaris_disk_type(container_log_t)

# polaris_waas_container_t type for WAAS KVM
polaris_kvm_domain_template(waas)

# Allow rw block files access to /dev/lvm_raid
storage_dontaudit_write_fixed_disk(polaris_waas_container_t)
storage_dontaudit_read_fixed_disk(polaris_waas_container_t)
# Manage hugetlbfs files/dirs
fs_manage_hugetlbfs_dirs(polaris_waas_container_t)
manage_files_pattern(polaris_waas_container_t, hugetlbfs_t, hugetlbfs_t)
fs_exec_hugetlbfs_files(polaris_waas_container_t)

# Allow access of /dev/kvm device
dev_rw_kvm(polaris_waas_container_t)

# Allow domain to search/write to virlogd_t
polaris_vman_virtlog_allow(polaris_waas_container_t)

# Allow for guest-share
gen_require('type polaris_iox_shared_files_t;')
manage_files_pattern(polaris_iox_container_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t)
Found in path(s):
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#

policy_module(polariswstatsd, 1.0);

gen_require('  
   type polaris_wstatsd_t;
  ')

polaris_btrace_data_manage(polaris_wstatsd_t)
polaris_crft_data_manage(polaris_wstatsd_t)
polaris_chasfs_manage(polaris_wstatsd_t)
polaris_tdlresolve_read(polaris_wstatsd_t)
polaris_tdlldb_list_dirs(polaris_wstatsd_t)
polaris_cpld_read(polaris_wstatsd_t)
polaris_lua_read(polaris_wstatsd_t)
polaris_flashlib_read(polaris_wstatsd_t)

polaris_ripc_sman_ui_serv_connect(polaris_wstatsd_t)

polaris_db_tdlldb_dir_use(polaris_wstatsd_t)

allow polaris_wstatsd_t self:capability dac_override;
allow polaris_wstatsd_t self:udp_socket { bind setopt getattr };
corenet_udp_bind_generic_node(polaris_wstatsd_t)
corenet_udp_bind_polaris_capwap_data_port(polaris_wstatsd_t)
polaris_socketat_nsfs_read(polaris_wstatsd_t)
polaris_lfts_dev_use(polaris_wstatsd_t)

polaris_tdlldbpersist_setup(polaris_wstatsd_t)
polaris_imp_tdlldb.persist_setup(polaris_wstatsd_t)

logging_send_syslog_msg(polaris_wstatsd_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_wstatsd_t)

#this is being given for process to execute tar
corecmd_exec_bin(polaris_wstatsd_t)

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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
divert(-1)

include(`polaris_process.m4')

include(`polaris_database_db.m4')
include(`polaris_database_db_te.m4')

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformdbauto, 1.0);

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_database_te.m4
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#
# November 2020, Christine Hwang
#
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#
#
# Map GNSS TTY to correct device context
/dev/ttyS1                         -c gen_context(system_u:object_r:polaris_cabo_gnss_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscabognss.fc
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#
# May 2017, Victor Kamensky
policy_module(polarismdtpubd, 1.0);

gen_require(`
    type polaris_mdt_pubd_t;
`)

polaris_btrace_data_manage(polaris_mdt_pubd_t)
polaris_chasfs_manage(polaris_mdt_pubd_t)
polaris_tdlresolve_read(polaris_mdt_pubd_t)
polaris_tlddb_listDirs(polaris_mdt_pubd_t)
polaris_cpld_read(polaris_mdt_pubd_t)
polaris_lua_read(polaris_mdt_pubd_t)
polaris_flashlib_read(polaris_mdt_pubd_t)

polaris_ripe_sman_ui_serv_connect(polaris_mdt_pubd_t)
polaris_db_tlddb_dir_use(polaris_mdt_pubd_t)

# For initializing capabilities DB cfg file
polaris_libeiutil_build_config_directory(polaris_mdt_pubd_t)
polaris_cfg_data_manage(polaris_mdt_pubd_t)

optional_policy(`
# deals with /dev/shm/confd setup (schema and pid)
polaris_confd_shm_setup(polaris_mdt_pubd_t)
# and allow read shared schema
polaris_confd_shared_schema_read(polaris_mdt_pubd_t)
# read /proc/confd_pid/exe file
polaris_confd_read(polaris_mdt_pubd_t)
`)

# pubd could be configured to connect any port on DNAC
# please see cndp_setup_tcp_socket function
polaris_lfts_dev_use(polaris_mdt_pubd_t)
corenet_tcp_connect_all_ports(polaris_mdt_pubd_t)

polaris_ndbload_lock_use(polaris_mdt_pubd_t)
corenet_tcp_connect_polaris_pttcd_port(polaris_mdt_pubd_t)
corenet_tcp_bind_polaris_netconf_interceptor_port(polaris_mdt_pubd_t)
corenet_tcp_bind_all_unreserved_ports(polaris_mdt_pubd_t)
allow polaris_mdt_pubd_t self:capability { dac_override dac_read_search }

# create ndbutil directory under /var/lock
polaris_confd_ndbutil_create(polaris_mdt_pubd_t)

dpolris_ndbutil_lock_template(polaris_mdt_pubd_t, pubd, ".l.schema_use.pubd")

# grpc library through sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_mdt_pubd_t)

# grpc library through sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_mdt_pubd_t)

# handling /tmp/rp/.telemetry and /tmp/rp/telemetry
type polaris_mdt_pubd_tmp_t;
files_tmp_file(polaris_mdt_pubd_tmp_t)
files_tmp_filetrans(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, dir, "telemetry")
files_tmp_filetrans(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, dir, ".telemetry")
gen_require(
    type tmp_t;
)
manage_dirs_pattern(polaris_mdt_pubd_t, { tmp_t polaris_mdt_pubd_tmp_t }, polaris_mdt_pubd_tmp_t)
manage_files_pattern(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, polaris_mdt_pubd_tmp_t)

# from evconfd_dynamic_load
polaris_confd_shared_schema_watch(polaris_mdt_pubd_t)

# allow grpc library to shutdown socket
allow polaris_mdt_pubd_t self:tcp_socket create_socket_perms;

# allow pubd to access logging facility
logging_send_syslog_msg(polaris_mdt_pubd_t)

# enabling access to /etc/netns and /etc/hosts
polaris_namespace_set_netns_with_etc(polaris_mdt_pubd_t)
gen_require(
    type net_conf_t;
)
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "hosts")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, dir, "netns")

# allow pubd to create, modify, delete system network config files/dir
sysnet_manage_config(polaris_mdt_pubd_t)

# allow pubd to connect socket
allow polaris_mdt_pubd_t self:udp_socket connect;

# allow pubd (object net_conf_t) to watch /etc/netns/1/resolv.conf
allow polaris_mdt_pubd_t net_conf_t:{file dir} watch;

# read access to /dev/random
dev_read_rand(polaris_mdt_pubd_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_mdt_pubd_t)
polaris_tmp_tdldb_persist_setup(polaris_mdt_pubd_t)

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#

## <summary>Polaris cm_fp Policy Rules.</summary>

#######################################
## <summary>
##	Execute cmand_fp in the polaris_cm_fp_t domain.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed to transition.
##</summary>
## </param>
#
interface('polaris_cm_fp_domtrans','
gen_require(''
type polaris_cm_fp_t, polaris_cm_fp_exec_t;
')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_cm_fp_exec_t, polaris_cm_fp_t)
')

######################################
## <summary>
##	Allow the specified domain to manage cm_fp_tmp files
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
interface('polaris_cm_fp_tmp_manage',
    gen_require(
        type polaris_cm_fp_tmp_t;
        type tmp_t;
    )
)

manage_files_pattern($1, { polaris_cm_fp_tmp_t tmp_t }, polaris_cm_fp_tmp_t)

interface('polaris_cm_fp_tmp_filetrans',
    gen_require(
        type polaris_cm_fp_tmp_t;
    )
)

files_tmp_filetrans($1, polaris_cm_fp_tmp_t, file, "octeon-remote-lock-pci:0")

interface('polaris_cm_fp_sem_use',
    gen_require(
        type polaris_cm_fp_t;
    )
)

allow $1 polaris_cm_fp_t:sem rw_sem_perms;
```bash
## <summary>
## Allow access to shared memory with type polaris_cm_fp_t
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_cm_fp_shm_use',
    gen_require(
        type polaris_cm_fp_t;
    )
    allow $1 polaris_cm_fp_t:shm rw_shm_perms;
    )

################################
## <summary>
## Allow access to /dev/hkp with type polaris_cm_fp_t
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_hkp_dev_use',
    gen_require(
        type device_t;
        type polaris_hkp_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_hkp_device_t)
    read_chr_files_pattern($1, device_t, polaris_hkp_device_t)
    )

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmfp.if
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#

/usr/binos/conf/run_ioxn_gs_ha.sh -- gen_context(system_u:object_r:polaris_gsd_rp_exec_t,s0)
```
policy_module(polarisdbgd, 1.0);

gen_require('  
    type polaris_dbgd_t;
')
polaris_chasfs_read(polaris_dbgd_t)
polaris_tdlresolve_read(polaris_dbgd_t)
polaris_cpld_read(polaris_dbgd_t)

logging_send_syslog_msg(polaris_dbgd_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_dbgd_t)

# /var/run/dbgd socket and pid
type polaris_dbgd_var_run_t;
files_pid_file(polaris_dbgd_var_run_t)
manage_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)
manage_sock_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)
files_pid_filetrans(polaris_dbgd_t, polaris_dbgd_var_run_t, { file sock_file })

polaris_vdaemon_var_sock_write(polaris_dbgd_t)

# dbgd may create vrf-based netns on demand
polaris_vrfnetns_manage(polaris_dbgd_t)
Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscyan.fc
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#

/usr/binos/conf/viptela-start.sh -- gen_context(system_u:object_r:polaris_cedge_start_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscedgestart.fc
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#
## <summary>Polaris LUA Policy Rules.</summary>

# Lua policy

### <summary>Polaris LUA Policy Rules.</summary>
allow $1 polaris_lua_file_t:file read_file_perms;
allow $1 polaris_lua_file_t:dir { read_file_perms search_dir_perms };
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislua.if
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#

policy_module(polarislfts, 1.0);

################################################################################
# Polaris lfts
################################################################################

type polaris_lfts_device_t;
dev_node(polaris_lfts_device_t)

#"ip netns add foo" commands mounts "foo" under "/var/run/netns"
gen_require('  
    type ifconfig_t;
    type var_run_t;
')
allow ifconfig_t var_run_t:dir mounton;

#"ip netns exec 16 sysctl -w net.core.vrfid=16" commands mounts "16" to "/sys"
gen_require('  
    type ifconfig_t;
    type unlabeled_t;
')
allow ifconfig_t unlabeled_t:dir mounton;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislfts.te
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#
/dev/cpp_vxe_rsrc -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_dev_info -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_kipc -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
# on 1ng box
/dev/octeon_device -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_pdma -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/i95_[0-9]* -c gen_context(system_u:object_r:polaris_i95_device_t,s0)
/dev/shm/cpp_.* -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/sem/.cpp_.* -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/sem/CPP_.* -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/sem/CGM_SHM_SEM -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/cpp_ucode_dram -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/cpp_sbs_shm -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/mnt/huge/cpp_ucode_dram -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/tmp/cpp_ifdev_rep -p gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/tmp/cpp_ifdev_req -p gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/tmp/cpp_anon_db -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscpp.fc

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#
/usr/binos/conf/boothelper_evt.sh -- gen_context(system_u:object_r:polaris_boothelper_evt_exec_t,s0)
/tmp/udev(/.*)? gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)
/tmp/rommon_upgrade_ngwc(/.*)? gen_context(system_u:object_r:polaris_boothelper_tmp_t,s0)

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#

# /3pa staff
/3pa/usr/(.*)?lib64(/.*)? -- gen_context(system_u:object_r:lib_t:s0)
/3pa/usr/(.*)?lib(/.*)? -- gen_context(system_u:object_r:lib_t:s0)
/3pa/(.*)?lib64(/.*)? -- gen_context(system_u:object_r:lib_t:s0)
/3pa/(.*)?lib(/.*)? -- gen_context(system_u:object_r:lib_t:s0)
/3pa/usr/(.*)?sbin(/.*)? -- gen_context(system_u:object_r:bin_t:s0)
/3pa/usr/(.*)?bin(/.*)? -- gen_context(system_u:object_r:bin_t:s0)
/3pa/usr/sbin/libvirt_lxc -- gen_context(system_u:object_r:virtd_lxc_exec_t:s0)
/usr/lib/libvirt/libvirt_lxc -- gen_context(system_u:object_r:virtd_lxc_exec_t:s0)
/usr/sbin/libvirt_lxc -- gen_context(system_u:object_r:virtd_exec_t:s0)
/3pa/usr/sbin/virtlogd -- gen_context(system_u:object_r:virtd_exec_t:s0)
/3pa/usr/bin/virsh -- gen_context(system_u:object_r:virsh_exec_t:s0)
/3pa/usr/bin/qemu.* -- gen_context(system_u:object_r:qemu_exec_t:s0)
/usr/os/conf/libvirtd.sh -- gen_context(system_u:object_r:virtd_initrc_exec_t:s0)
/3pa/etc/libvirt(/.*)? -- gen_context(system_u:object_r:virt_etc_t:s0)
/3pa/etc/logrotate.d(/.*)? -- gen_context(system_u:object_r:etc_t:s0)
/usr/binos/sbin/in.telnetd -- gen_context(system_u:object_r:telnetd_exec_t:s0)

# should go into contrib/telnet.fc?
/usr/binos/sh -- gen_context(system_u:object_r:shell_exec_t:s0)

# load_crash_kernel.sh loads crash kernel - it should be executable
/crashkernel/load_crash_kernel.sh -- gen_context(system_u:object_r:bin_t:s0)

# /etc/lablogin.sh is executed during telnet login over management port
# it should be executable. Also having shell_exec_t label will allow it
# to transition into unconfined domain
/etc/lablogin.sh -- gen_context(system_u:object_r:shell_exec_t:s0)

# /etc/init.d/*functions files should be actually in bin_t domain, the same
# as /etc/init.d/functions. Note using /etc/rc\d/init.d/ instead of
# /etc/init.d/ because we have substitution rule in file_contexts.subs_dist
/etc/rc\d/init.d/binos_functions -- gen_context(system_u:object_r:bin_t:s0)
/etc/rc\d/init.d/binos_functions-pd -- gen_context(system_u:object_r:bin_t:s0)
/etc/rc\d/init.d/chasxml_functions -- gen_context(system_u:object_r:bin_t:s0)
/etc/rc\d/init.d/common-utility-functions -- gen_context(system_u:object_r:bin_t:s0)
/etc/rc\d/init.d/rh-functions -- gen_context(system_u:object_r:bin_t:s0)
# tftp directories
/tftp-d  gen_context(system_u:object_r:tftpdir_t,s0)
/tftp/*  gen_context(system_u:object_r:tftpdir_t,s0)

# /tmp/sw
/tmp/sw  -d  gen_context(system_u:object_r:tmp_t,s0)
/tmp/fp  -d  gen_context(system_u:object_r:tmp_t,s0)
/tmp/cc  -d  gen_context(system_u:object_r:tmp_t,s0)

# /tmp/etc
/tmp/etc  -d  gen_context(system_u:object_r:polaris_etc_t,s0)

# /tmp/sv
/tmp/sv  -d  gen_context(system_u:object_r:polaris_sv_t,s0)

# firmware files
/firmware(/.*)?  gen_context(system_u:object_r:polaris_firmware_t,s0)
/upgrade(/.*)?  gen_context(system_u:object_r:polaris_firmware_t,s0)
/golden(/.*)?  gen_context(system_u:object_r:polaris_firmware_t,s0)

# CC card fpd files mark it as usr_t for now
/fpd(/.*)?  --  gen_context(system_u:object_r:polaris_firmware_t,s0)

/tmp/ODM/ios_core.p7b  --  gen_context(system_u:object_r:etc_t,s0)

/dev/ddr  -c  gen_context(system_u:object_r:polaris_ddr_device_t,s0)
/dev/i2c-[0-9]*  -c  gen_context(system_u:object_r:polaris_i2c_device_t,s0)

/.*/ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/bin(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/wbin(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/lib(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/lib64(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/bin(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/sbin(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/lib(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/lib64(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/bin(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/sbin(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/lib(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/lib64(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/opt/confd/lib/confd/lib/core/confd/privi(/.*)?ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)

# interpreter for CRDL 32bit IOSD setup proper memory map
/usr/binos/bin/crdl_mini_loader gen_context(system_u:object_r:ld_so_t,s0)

# firmware package mount point on asr1k platforms
/mnt/firmware(.*?[^/])?    gen_context(system_u:object_r:polaris_firmware_t,s0)

/bootflash/USWAP(.*?[^/])? gen_context(system_u:object_r:polaris_uswap_files_t,s0)

# Nutella EFI folder
/bootflash/EFI((.*?[^/])?    gen_context(system_u:object_r:polaris_efi_files_t,s0)

# for cat9k platform
/mnt/sd3/user/.USWAP((.*?[^/])?    gen_context(system_u:object_r:polaris_uswap_files_t,s0)

/tmp/rsync_log_dir((.*?[^/])?    gen_context(system_u:object_r:polaris_rsync_tmp_t,s0)

# for wlc awips feature
/bootflash/awips.json    gen_context(system_u:object_r:polaris_awips_signature_file_t,s0)

# for wlc iot-gw feature to access /bootflash/certs dir
/bootflash/certs -d    gen_context(system_u:object_r:polaris_ap_cert_file_t,s0)

# for curl - and allowing ip netns exec X curl
/usr/bin/curl --gen_context(system_u:object_r:polaris_curl_exec_t,s0)

# Katar WLC needs access to /tmp/ldwm_envelope
/tmp/ldwm_envelope -- gen_context(system_u:object_r:polaris_ldwm_envelope_tmp_t,s0)

# CLI: show platform software tech-support
/usr/binos/conf/platform_tech_support.sh -- gen_context(system_u:object_r:polaris_tech_support_exec_t,s0)

# Tamlib debug file
/bootflash/tamlib_dbg_log -- gen_context(system_u:object_r:polaris_tamlib_dbg_file_t,s0)

# cryptsetup - some platforms copy cryptsetup in /bin
/bin/cryptsetup --gen_context(system_u:object_r:lvm_exec_t,s0)
/usr/bin/cryptsetup -- gen_context(system_u:object_r:lvm_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscommon.fc
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#

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6137
policy_module(polariscedge, 1.0);

# /tmp/xml handling
type polaris_cedge_xml_tmp_t;
files_tmp_file(polaris_cedge_xml_tmp_t)

# PLEASE LOOK AT ME very strange choice of directory name
# /tmp/tmp/ handling
type polaris_cedge_tmp_t;
files_tmp_file(polaris_cedge_tmp_t)

# /etc/viptela handling
type polaris_cedge_etc_t;
files_config_file(polaris_cedge_etc_t)

# /dev/shm handling
type polaris_cedge_tmpfs_t;
files_tmpfs_file(polaris_cedge_tmpfs_t)

# /tmp/.econfd2sysmgr-ipc handling
type polaris_econfd2sysmgr_tmp_t;
files_tmp_file(polaris_econfd2sysmgr_tmp_t)

# vconfd_script_reboot.sh policy
polaris_vconfd_domain_template(vconfd_reboot)

# vconfd_script_if_reset.sh policy
polaris_vconfd_domain_template(vconfd_ifreset)

# vconfd_script_get_config.sh policy
polaris_vconfd_domain_template(vconfd_cfg)

# vconfd_script_*_stats policy
polaris_vconfd_domain_template(vconfd_history)
corecmd_exec_bin(polaris_vconfd_history_t)

# performs 'rm /tmp/xml/Pfr/Pfr-1600801323.xml.gz'....but, do not know where
polaris_cedge_tmp_manage(polaris_vconfd_history_t)

# performs 'ls -rt /tmp/xml/UtdUrlf-IOX' etc.
polaris_cedge_xml_tmp_manage(polaris_vconfd_history_t)

# vconfd_script_manage_list_stats.sh performs operations on
# /tmp/vconfd/stats.XXXXXXX
polaris_vconfd_tmp_manage(polaris_vconfd_history_t)

# software policy
polaris_vconfd_domain_template(vconfd_software)

# nms policy
polaris_vconfd_domain_template(vconfd_nms)

# device policy
polaris_vconfd_domain_template(vconfd_device)

# internal policy
polaris_vconfd_domain_template(vconfd_reset)

# cert policy
polaris_vconfd_domain_template(vconfd_cert)

# csr policy
polaris_vconfd_domain_template(vconfd_csr)

# vconfd_script_show_csr.sh invokes vlog
# /bin/sh vlog ....
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - create/connect unix_dgram_socket
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_vconfd_csr_t)
corecmd_exec_bin(polaris_vconfd_csr_t)

# reads /usr/share/viptela/server.csr
polaris_bootflash_read(polaris_vconfd_csr_t)

# serial vsmart-upload vedge-upload policy
polaris_vconfd_domain_template(vconfd_serialnum)

# crash policy
polaris_vconfd_domain_template(vconfd_crash)

# aaa policy
polaris_vconfd_domain_template(vconfd_aaa)

# container policy
polaris_vconfd_domain_template(vconfd_contr)

# iox policy
polaris_vconfd_domain_template(vconfd_iox)

# utd policy
polaris_vconfd_domain_template(vconfd_utd)
# geo policy
polaris_vconfd_domain_template(vconfd_geo)

# vconfd_script_vnping.sh, vconfd_script_vping.sh, vconfd_script_vtraceroute.sh
# scripts policy
polaris_vconfd_domain_template(vconfd_net)

# runs ip command
sysnet_domtrans_ifconfig(polaris_vconfd_net_t)
# runs confd_cmd
corecmd_exec_bin(polaris_vconfd_net_t)

polaris_confd_connect(polaris_vconfd_net_t)

#/tmp/ polaris_vconfd_cert_t handling
type polaris_vconfd_cert_tmp_t;
files_tmp_file(polaris_vconfd_cert_tmp_t)
files_tmp_filetrans(polaris_vconfd_cert_t, polaris_vconfd_cert_tmp_t, { file dir })
polaris_vconfd_cert_tmp_manage(polaris_vconfd_cert_t)

# permit access to polaris_vconfd_cert_t
allow polaris_vconfd_cert_t self:capability { chown dac_override };

logging_send_syslog_msg(polaris_vconfd_cert_t)
corecmd_sbin_entry_type(polaris_vconfd_cert_t)
corecmd_shell_entry_type(polaris_vconfd_cert_t)

fs_read_nsfs_files(polaris_vconfd_cert_t)
logging_create_devlog_dev(polaris_vconfd_cert_t)

# to access the /bootflash: as the cert is stored in /bootflash:
# IOS cert related CLIs can create/store the certs in /bootflash with any
# file name(s), so allow generic access to bootflash.
polaris_bootflash_manage(polaris_vconfd_cert_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vconfd_cert_t)
polaris_cedge_reset_ns(polaris_vconfd_cert_t)

# needed for accessing /tmp/chassis/local/rp/chasfs/midplane/chassis_model
polaris_chasfs_read(polaris_vconfd_cert_t)

# access to /etc/viptela
gen_require(
    type polaris_nginx_t;
)
polaris_cedge_etc_manage(polaris/nginx_t)

# For "confd_cmd", allow polaris_vconfd_cert_t, which is not a Binos process,
# to access polaris_conf_id_ipc_ripc_port_t.
polaris_ripc_conf_id_ipc_connect(polaris_vconfd_cert_t)

# permit to access /var/run/netns/default
sysnet_manage_ifconfig_run(polaris_vconfd_cert_t)

# vconfd_script_show_root_ca_cert.sh performs operations on
# /tmp/vconfd/root_cert.XXXXXX
polaris_vconfd_tmp_manage(polaris_vconfd_cert_t)
fs_getattr_tmpfs(polaris_vconfd_cert_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscedge.te
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/usr/binos/conf/cedge-tanman.sh -- gen_context(system_u:object_r:polaris_cedge_tanman_exec_t,s0)

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscedgetanman.fc
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#

## <summary>Polaris NGWC Platform Policy Rules.</summary>

#######################################
## <summary>
## Manage ngwc shared memory /dev/shm/ngwc_shm.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
```c
interface('polaris_ngwc_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_ngwc_shm_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_shm_t)
    allow $1 polaris_ngwc_shm_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_shm_t, file, "ngwc_shm")
)

interface('polaris_ngwc_scc_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_ngwc_scc_shm_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t)
    allow $1 polaris_ngwc_scc_shm_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t, file, "ngwc_scc_shm")
)

interface('polaris_ngwc_itfpo_manage',
    gen_require(
        type tmpfs_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_itfpo_shm_t)
    allow $1 polaris_ngwc_itfpo_shm_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_itfpo_shm_t, file, "ngwc_itfpo")
)
```
type polaris_ngwc_itfpo_t;
')
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_ngwc_itfpo_t)
allow $1 polaris_ngwc_itfpo_t:file map;
filetrans_pattern($1, tmpfs_t, polaris_ngwc_itfpo_t, file, "iomd_to_fed_ptp_offload")
')

#########################################################################
## <summary>
##      Manage ngwc sdm shared memory /dev/shm/sdm.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_sdm_shm_manage',
      gen_require(
            type tmpfs_t;
            type polaris_sdm_shm_t;
      )
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_sdm_shm_t)
filetrans_pattern($1, tmpfs_t, polaris_sdm_shm_t, file, "sdm")
allow $1 polaris_sdm_shm_t:file map;
')

#########################################################################
# MMAP Driver for mapping ASIC Memory space
#########################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/chdrvmmmap
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_chdrvmmmap_dev_use',
      gen_require(
            type device_t;
            type polaris_chdrvmmmap_device_t;
      )

read_chr_files_pattern($1, device_t, polaris_chdrvmmmap_device_t)
write_chr_files_pattern($1, device_t, polaris_chdrvmmmap_device_t)
allow $1 polaris_chdrvmmmap_device_t:chr_file map;
')

#<summary>
# Work (read, write, ioctl) with /dev/gettysburg_dev1
#</summary>
#<param name="domain">
# Domain allowed access.
#</param>
#
interface('polaris_gettysburg_fpga_dev_use',

gen_require(
    type device_t;
    type polaris_gettysburg_fpga_device_t;
    )
write_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
read_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
mmap_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
')

#<summary>
# Work (read, write, ioctl) with /dev/cisco/dplriomem
#</summary>
#<param name="domain">
# Domain allowed access.
#</param>
#
interface('polaris_dplr_iomem_mmapdrv_dev_use',

gen_require(
    type device_t;
    type polaris_dplr_iomem_mmapdrv_device_t;
    )
write_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
read_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
allow $1 polaris_dplr_iomem_mmapdrv_device_t:chr_file map;
')

#<summary>
# Allow access to semaphore of quake flashlib. Pure hack


## semaphore got created by dyncfg accidently, need to change to
## POSIX semaphore code ASAP.
## LOOK AT ME
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_quake_flashlib_sem_use',
    gen_require(
        type polaris_dyncfg_t;
    )
    allow $1 polaris_dyncfg_t:sem rw_sem_perms;
')

#######################################
## <summary>
## Manage quake i2c semaphores /dev/shm/sem.i2c_sem00N
## and work with corresponding i2c devices (/dev/i2c-XXX)
## <summary>
## <param name="domain">
## Domain allowed access.
## <param>
# interface('polaris_quake_i2c_manage',
    gen_require(
        type tmpfs_t;
        type polaris_quake_i2c_t;
    )
    manage_files_pattern($1, tmpfs_t, polaris_quake_i2c_t)
    polaris_i2c_use($1)
')

########################################
## <summary>
## Allow caller to read or write the exiting_bays file
## <param name="domain">
## Domain allowed access.
## </param>
interface('polaris_rw_exiting_bays',
gen_require("
type polaris_proc_exiting_bays_t;
type proc_t;

)

rw_files_pattern($1, polaris_proc_exiting_bays_t, polaris_proc_exiting_bays_t)
# FIXME/TODO:
# The kernel does not reliably create /proc/exiting_bays on all platforms
# The following lines should be removed when CSCvv27097 is addressed
allow $1 polaris_proc_exiting_bays_t:file create;
allow $1 proc_t:file create;
allow $1 proc_t:dir { add_name write };

)

#################################################################
## <summary>
## Allow caller to create open write /tmp/fpga_upgrade
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_fpga_upgrade_tmp_use',
    gen_require(`
        type polaris_fpga_upgrade_tmp_t;
    ')
    allow $1 polaris_fpga_upgrade_tmp_t:file { create open write };
)

#################################################################
## <summary>
## Execute a domain transition to run cat9k_ssd_unmount.sh
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_ssd_unmount_domtrans',
    gen_require(`
        type polaris_ssd_unmount_t, polaris_ssd_unmount_exec_t;
    ')
    domtrans_pattern($1, polaris_ssd_unmount_exec_t, polaris_ssd_unmount_t)
)

#################################################################
## <summary>
## Read lnk_file /ucode0, polaris_disk_ucode0_t.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_ucode0_read_lnk',
    gen_require('type polaris_disk_ucode0_t;
        read_lnk_files_pattern($1, polaris_disk_ucode0_t, polaris_disk_ucode0_t)
    ')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/cisco/fpgaiomem
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_fpga_iomem_mmapfpga_dev_use',
    gen_require('type device_t;
        type polaris_fpga_iomem_mmapfpga_device_t;
    ')
    allow $1 polaris_fpga_iomem_mmapfpga_device_t:chr_file map;
        write_chr_files_pattern($1, device_t, polaris_fpga_iomem_mmapfpga_device_t)
        read_chr_files_pattern($1, device_t, polaris_fpga_iomem_mmapfpga_device_t)
    ')

########################################
## <summary>
## Read Write access to /bootflash/nplusm-power
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_nplusm_power_manage',
    gen_require('
type polaris_nplusm_power_file_t;
  type polaris_disk_bootflash_t;
  
  filetrans_pattern($1, polaris_disk_bootflash_t, polaris_nplusm_power_file_t, file, "nplusm-power")
  allow $1 polaris_nplusm_power_file_t:file { write create read open getattr unlink }

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwc.if
No license file was found, but licenses were detected in source scan.

#
# Sep 2020, Sridhar C
#
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#

policy_module(polaristlscd, 1.0);

gen_require('  
  type polaris_tlscd_t;
  type net_conf_t;
  
)

  polaris_btrace_data_manage(polaris_tlscd_t)
  polaris_chasfs_manage(polaris_tlscd_t)
  polaris_tdlresolve_read(polaris_tlscd_t)
  polaris_tdldb_list_dirs(polaris_tlscd_t)
  polaris_lua_read(polaris_tlscd_t)
  polaris_flashlib_read(polaris_tlscd_t)
  polaris_chasfs_read(polaris_tlscd_t)
  polaris_cpld_read(polaris_tlscd_t)
  polaris_db_tdldb_dir_use(polaris_tlscd_t)
    
  # Related to vrf support of the socket
  polaris_lfts_dev_use(polaris_tlscd_t)
  polaris_socketat_nsfs_read(polaris_tlscd_t)
  polaris_vrf_shm_manage(polaris_tlscd_t)

  # TLSCd reads TCP/UDP ports open in VRF_GLOBAL for packet forwarding
  # to IOSd or BinOS applications.
  kernel_read_netSysctls(polaris_tlscd_t)
  kernel_read_network_state(polaris_tlscd_t)
  kernel_search_networkSysctls(polaris_tlscd_t)
  allow polaris_tlscd_t net_conf_t:dir search;
  allow polaris_tlscd_t net_conf_t:file { getattr open read watch };
# UDS related sockets are:
# /tmp/tlscd/iosd_to_tlscd_0_socket
# /tmp/tlscd/tlscd_to_iosd_0_socket
# IOSd and TLSCd exchange packet over these UDS socket, allow create/bind
# type polaris_tlscd_uds_t:
files_tmp_file(polaris_tlscd_uds_t)
polaris_tlscd_uds_manage(polaris_tlscd_t)
polaris_iosd_dgram_send(polaris_tlscd_t)
allow polaris_tlscd_t self:unix_dgram_socket { bind create };

# Tunnel and TLS TCP connection related related
corenet_rw_tun_tap_dev(polaris_tlscd_t)
allow polaris_tlscd_t self:tun_socket create;
corenet_tcp_connect_all_ports(polaris_tlscd_t)

# errmsg
logging_send_syslog_msg(polaris_tlscd_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristlscd.te
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#
# Aug 2020, Sridhar
#
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#

## <summary>Polaris xcopy Policy Rules.</summary>

#######################################
## <summary>
##      Execute xcopy related scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## <//param>
#
interface('polaris_xcopy_script_domtrans',
  gen_require(
    type polaris_xcopy_script_t, polaris_xcopy_script_exec_t;
  )
  domtrans_pattern($1, polaris_xcopy_script_exec_t, polaris_xcopy_script_t)
)
#
###############
## <summary>
## xcopy progress temp file access
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface(`polaris_xcopy_tmp_manage',
  gen_require(`
    type polaris_xcopy_tmp_t;
  ')
  manage_dirs_pattern($1,polaris_xcopy_tmp_t, polaris_xcopy_tmp_t)
  manage_files_pattern($1,polaris_xcopy_tmp_t, polaris_xcopy_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisxcopy.if
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#
# April 2017, Victor Kamensky
#
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#
/tmp/l.ndbutil-loadgen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)
/tmp/l.ndbutil-use gen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmindbmand.fc
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dnl
dnl Mar 2020, Manu Roy
dnl
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dnl
dnl Hellcat Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)
policy_module(polariscmfp, 1.0);

gen_require('  
    type polaris_cm_fp_t;
')

polaris_btrace_data_manage(polaris_cm_fp_t)
polaris_crft_data_manage(polaris_cm_fp_t)
polaris_chasfs_manage(polaris_cm_fp_t)
polaris_tdiresolve_read(polaris_cm_fp_t)
polaris_tldldb_list_dirs(polaris_cm_fp_t)
polaris_cpld_read(polaris_cm_fp_t)
polaris_flashlib_read(polaris_cm_fp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cm_fp_t)

polaris_cpld_dev_use(polaris_cm_fp_t)
polaris_proc_rmonbifo_read(polaris_cm_fp_t)
polaris_obfl_data_read(polaris_cm_fp_t)
polaris_persistent_list_dirs(polaris_cm_fp_t)
polaris_chasync_files_manage(polaris_cm_fp_t)

# cman_fp creates /tmp/cpp_anon_db file, instead of adding it to polaris_cpp_domain
# let us just grant access to cpp tmp files
polaris_cpp_tmp_files_use(polaris_cm_fp_t, "cpp_anon_db")
# on lmg works with /dev/cpp
polaris_cpp_dev_use(polaris_cm_fp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_fp_t)

# on ultra read eeprom through i2c
# type=AVC msg=audit(1479556298.842:11): avc: denied { getattr } for pid=5464 comm="cman_fp"
path="/sys/devices/i2c-0/i2c-1/1-0056/eeprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_fp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# type=AVC msg=audit(1479556298.842:12): avc: denied { read write } for pid=5464 comm="cman_fp"
name="eeprom" dev="sysfs" ino=25556 scontext=system_u:system_r:polaris_cm_fp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_cm_fp_t)

polaris_icc_broken_relocations(polaris_cm_fp_t)

allow polaris_cm_fp_t self:udp_socket { create ioctl };

# cman_fp can start dyncfg_setup.sh, allow its transition to dyncfg_t type
polaris_dyncfg_domtrans(polaris_cm_fp_t)

# on 1ng cman_fp write into /bootflash/crypto/octeon_pci_console_dev0_20170723_075412.log
polaris_bootflash_manage(polaris_cm_fp_t)

polaris_disk_harddisk_read_lnk(polaris_cm_fp_t)

# write to devices like this /proc/bus/pci/04/00.0
kernel_read_system_state(polaris_cm_fp_t)
kernell_write_proc_files(polaris_cm_fp_t)

# cm_fp tmp files like /tmp/octeon-remote-lock-pci:0
type polaris_cm_fp_tmp_t;
files_tmp_file(polaris_cm_fp_tmp_t)
polaris_cm_fp_tmp_filetrans(polaris_cm_fp_t)
polaris_cm_fp_tmp_manage(polaris_cm_fp_t)
# besides /tmp/octeon-remote-lock-pci:0 all other files in /tmp
# are ours
files_tmp_filetrans(polaris_cm_fp_t, polaris_cm_fp_tmp_t, file)

# LOOK AT ME: raw memory write access
ifdef(`mcp_family',`
polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh55517)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in dopler SDK remove after
# CSCvm34516 is fixed using CSCvm34630
ifdef(`starfleet_platform',`
polaris_dev_mem_use(polaris_cm_fp_t)
')

# "show platform hardware slot F0 eobc interface standby rmon" leads to
# ioctl() call from cmlib_get_eobc_drv_info().
kernel_request_load_module(polaris_cm_fp_t)

# needed for "show platform hardware slot F0 eobe interface standby rmon"
kernel_read_network_state(polaris_cm_fp_t)

# on RP2/RP3 linecard cyan init happens within cm
ifdef(`mcp_family',`
polaris_dynconfig_setup(polaris_cm_fp_t)
')

allow polaris_cm_fp_t self:capability dac_override;

polaris_obfl_data_manage(polaris_cm_fp_t)

allow polaris_cm_fp_t self:netlink_route_socket rw_netlink_socket_perms;

ifdef(`ngwc_family',`
# cmfp_asic_mmap_func() function in cmfp module uses
# /dev/chdrvmmap for asic memory mapping
polaris_chdrvmmap_dev_use(polaris_cm_fp_t)

# on macallan cman_fp needs access to /dev/cisco/dplriomem
# for mappin dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_cm_fp_t);

# on macallan iomd needs access to /dev/cisco/fpgaiomem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapfpga_dev_use(polaris_cm_fp_t);
')

optional_policy(`
# Allow /dev/dmammap access
polaris_dmammap_dev_use(polaris_cm_fp_t)
')

# on starfleet need access to
# /sys/device/platform/cpld/reg_fan_control
polaris_cpld_write(polaris_cm_fp_t)

# /dev/shm/ndm access
optional_policy(`
polaris_sdm_shm_manage(polaris_cm_fp_t)
')

logging_send_syslog_msg(polaris_cm_fp_t)

# /dev/epactrlN on qwl
optional_policy(`
polaris_epa_dev_use(polaris_cm_fp_t)
'"

# /dev/astro on qwlc
optional_policy(''
polaris_astro_dev_use(polaris_cm_fp_t)
')

# /dev/cpp_il on qwlc
optional_policy(''
polaris_cpp_il_dev_use(polaris_cm_fp_t)
')

# on radium need to get model info
optional_policy(''
polaris_dash_dev_use(polaris_cm_fp_t)
')

# on neptune, cavium library in o2_cavm_mem_map wants access to
# /sys/devices/pci0000:00/0000:00:01.0/0000:01:00.0/resource0
optional_policy(''
polaris_cpp_cavium_dma_map(polaris_cm_fp_t)
')

# /dev/aikido access
polaris_aikido_dev_use(polaris_cm_fp_t)

optional_policy(''
# betelgeuse need access to /dev/sirius_fpga
polaris_sirius_fpga_dev_use(polaris_cm_fp_t)
')

# access SERDES /tmp/serdesasic_key_dir/*
optional_policy(''
polaris_serdes_asic_key_tmp_manage(polaris_cm_fp_t)
')

type polaris_hkp_device_t;
dev_node(polaris_hkp_device_t)

# access /dev/iocp0
optional_policy(''
polaris_spa_dev_use(polaris_cm_fp_t)
')

optional_policy(''
# access /dev/hkp
polaris_hkp_dev_use(polaris_cm_fp_t)
polaris_n2_dev_use(polaris_cm_fp_t)
polaris_cy2213_dev_use(polaris_cm_fp_t)
polaris_ddr_dev_use(polaris_cm_fp_t)
polaris_vega_dev_use(polaris_cm_fp_t)
')

polaris_firmware_read(polaris_cm_fp_t)

# allow access to /csl_p_0/vcpu_template.txt
polaris_iosd_vcpu_read(polaris_cm_fp_t)

# allow Cabo access to i2c semaphores
ifdef(`cabo_platform',`
polaris_i2c_sem_manage(polaris_cm_fp_t)
')

ifdef(`sumatra_platform',`
# access huron fpga on sumatra
polaris_huron_dev_use(polaris_cm_fp_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmfp.te
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#
# March 2019, Shikhar Dogra
#
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#

### <summary>Polaris fman_cc Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismancf.if
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#
# August 2017, Shawn Lu
#
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#

### <summary>Polaris wncmgrd Policy Rules.</summary>
Read access to /bootflash/NACert.pem

Domain allowed access.

interface('polaris_read_icap_cert_file',
    gen_require(
        type polaris_icap_cert_t;
    )
    allow $1 polaris_icap_cert_t:file read_file_perms;
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariswncmgrd.if

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

# August 2017, Victor Kamensky
#
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#
#
# /bootflash labels
#/bootflash(/.*)?      gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
#/bootflash/ssh(/.*)?      gen_context(system_u:object_r:ssh_home_t,s0)
#/bootflash/ssh/ssh_host.*_key
.gen_context(system_u:object_r:sshd_key_t,s0)
#/bootflash/ssh/ssh_host.*_key
.gen_context(system_u:object_r:sshd_key_t,s0)
#/bootflash/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
#/bootflash/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
#/bootflash/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
#/bootflash/debug.conf  gen_context(system_u:object_r:polaris_debug_conf_t,s0)
#/bootflash/packages.conf  gen_context(system_u:object_r:polaris_packages_conf_t,s0)
#
# /objstore/swtam for hybrid TAM access
#objstore(/.*)?  gen_context(system_u:object_r:polaris_disk_objstore_t,s0)
#/cs1_p_0(/.*)?  gen_context(system_u:object_r:polaris_disk_cs1_p_t,s0)
#/cs1_p_1(/.*)?  gen_context(system_u:object_r:polaris_disk_cs1_p_t,s0)
#/cs1_s_0(/.*)?  gen_context(system_u:object_r:polaris_disk_cs1_s_t,s0)
#/cs1_s_1(/.*)?  gen_context(system_u:object_r:polaris_disk_cs1_s_t,s0)
#/obfl(/.*)?  gen_context(system_u:object_r:polaris_obfl_data_t,s0)
# not really a license file stored by iosd during platform resource config command
/csl_p_0/vcpu_template.txt             gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)

# nvram devices
/dev/bootflash2 -b                     gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/bootflash3 -b                     gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda2       -b                     gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda3       -b                     gen_context(system_u:object_r:polaris_nvram_file_t,s0)

/dev/linux-user-bde -c gen_context(system_u:object_r:polaris_bde_device_t,s0)
/dev/linux-kernel-bde -c gen_context(system_u:object_r:polaris_bde_device_t,s0)

/dev/dash_fpga -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc0 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc1 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc2 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc3 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_nios -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/huron_fpga -c gen_context(system_u:object_r:polaris_huron_device_t,s0)
/dev/dplr_sumatra -c gen_context(system_u:object_r:polaris_sumatra_doppler_device_t,s0)

/dev/nios -c gen_context(system_u:object_r:polaris_nios_device_t,s0)
/dev/qae_mem -c gen_context(system_u:object_r:polaris_qae_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_csr -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_ring -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_mem -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_mem_page -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# moka fpga
/dev/moka_fpga -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)
/dev/moka_fpga_cc -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)

# for load usbnet module
/usr/binos/conf/load_usbnet.sh -- gen_context(system_u:object_r:polaris_load_usbnet_exec_t,s0)

/dev/nim_dm -c gen_context(system_u:object_r:polaris_nim_dm_device_t,s0)
/dev/nim_dm_0_1 -c gen_context(system_u:object_r:polaris_nim_dm_device_t,s0)

/dev/nim_phy -c gen_context(system_u:object_r:polaris_nim_phy_device_t,s0)

# file-system on blackheart/sparrow
# /crashinfo is symbolic link to /flash1
/crashinfo             gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
# /flash is symbolic link to /flash1

```bash
# /flash
同意_context(system_u:object_r:polaris_disk_bootflash_t,s0)
```

# /flash0 NVRAM

```bash
# /flash0(/.*)?
同意_context(system_u:object_r:polaris_nvram_file_t,s0)
```

# /flash1 Bootflash

```bash
# /flash1(/.*)?
同意_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /flash1/traceLogs(/.*)?
同意_context(system_u:object_r:polaris_btrace_data_t,s0)
# /flash1/Geo(/.*)?
同意_context(system_u:object_r:polaris_geodb_files_t,s0)
# /flash1/USWAP(/.*)?
同意_context(system_u:object_r:polaris_uswap_files_t,s0)
# /flash1/dbPersist(/.*)?
同意_context(system_u:object_r:polaris_disk_dbm_t,s0)
# /flash1/debug.conf --
同意_context(system_u:object_r:polaris_debug_conf_t,s0)
# /flash1/packages.conf
同意_context(system_u:object_r:polaris_packages_conf_t,s0)
# /flash1/core(/.*)?
同意_context(system_u:object_r:polaris_core_file_t,s0)
# /flash1/rollback_timer(/.*)?
同意_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
# /flash1/installer(/.*)?
同意_context(system_u:object_r:polaris_disk_install_t,s0)
# /flash1/ssh(/.*)?
同意_context(system_u:object_r:ssh_home_t,s0)
# /flash1/ssh/ssh_host.*_key.pub
同意_context(system_u:object_r:sshd_key_t,s0)
# /flash1/ssh/ssh_host.*_key
同意_context(system_u:object_r:sshd_key_t,s0)
```

# /flash3 OBFL

```bash
# /flash3(/.*)?
同意_context(system_u:object_r:polaris_obfl_data_t,s0)
# /flash3/OBFL(/.*)?
同意_context(system_u:object_r:polaris_obfl_data_t,s0)
```

# harddisk

```bash
# /vol/harddisk(/.*)?
同意_context(system_u:object_r:polaris_disk_harddisk_t,s0)
# /mnt/msata(/.*)?
同意_context(system_u:object_r:polaris_disk_harddisk_t,s0)
```

# for usage by IOx

```bash
# /vol/usb1(/.*)?
同意_context(system_u:object_r:polaris_disk_harddisk_t,s0)
```

```bash
# /dev/shm/sem_dev_i2c_0
同意_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)
# /dev/shm/sem_dev_i2c_1
同意_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)
# /dev/shm/sem_dev_i2c_2
同意_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)
```

```bash
/tmp/udev/etc/udev/msata/udev-info
同意_context(system_u:object_r:polaris_udev_tmp_files_t,s0)
```

# Nvram symlink on Aventus platform

```bash
# Nvram symlink on Aventus platform
同意_context(system_u:object_r:polaris_nvram_file_t,s0)
```

# Nvram symlink on Cabo platform

```bash
# Nvram symlink on Cabo platform
同意_context(system_u:object_r:polaris_nvram_file_t,s0)
```

# Device applicable to Betelgeuse platform

```bash
# Device applicable to Betelgeuse platform
同意_context(system_u:object_r:polaris_siriusfpga_device_t,s0)
```

# Device applicable to Nanook platform

```bash
# Device applicable to Nanook platform
```
# Device applicable to Sparrow platform
/dev/remap_mem0 -c gen_context(system_u:object_r:polaris_remap_mem_device_t,s0)
/dev/sparrow_psu -c gen_context(system_u:object_r:polaris_sparrow_psu_device_t,s0)
/dev/dio-upstream -c gen_context(system_u:object_r:polaris_dio_device_t,s0)
/dev/dio-[1-4] -c gen_context(system_u:object_r:polaris_dio_device_t,s0)
/dev/ttyNMEA[0-1] -c gen_context(system_u:object_r:polaris_tty_NMEA_device_t,s0)
/dev/ttyTunNMEA[0-1] -c gen_context(system_u:object_r:polaris_tty_NMEA_device_t,s0)

# Device applicable to Nutella platform
/dev/nutella_fpga -c gen_context(system_u:object_r:polaris_nutella_fpga_device_t,s0)

# Only qcqmi0 and qcqmi1 are generated for Telit/SWI modems
/dev/qcqmi0 -c gen_context(system_u:object_r:qcqmi_device_t,s0)
/dev/qcqmi1 -c gen_context(system_u:object_r:qcqmi_device_t,s0)

# SM NIM Adapter Switzer-CC device files
/dev/sm_nim_adpt_fpga_1 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_1_0 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_1_1 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_fpga_2 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_2_0 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_2_1 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)

# CLI: show platform hardware msata
/usr/bin/os/bin/msata_info.sh -- gen_context(system_u:object_r:polaris_msata_info_exec_t,s0)
/tmp/sata_status -- gen_context(system_u:object_r:polaris_sata_status_tmp_t,s0)

# Memory blocks and gpp for Nutella platform
/dev/mmcbkl0gp0p1 -c gen_context(system_u:object_r:polaris_nutella_gp0_t,s0)
/gpp -- gen_context(system_u:object_r:polaris_nutella_gpp_t,s0)

# CLI: show platform hardware slot p[x] fan eeprom
/usr/bin/os/conf/mcp_fan_eeprom_cmd.sh -- gen_context(system_u:object_r:polaris_smart_fan_exec_t,s0)
/var/run/cwan_ezmanage_cwan_server -- gen_context(system_u:object_r:polaris_cwan_svr_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscrankshaft.fc
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dnl

dnl April 2018, Victor Kamensky

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dnl
process_map_set(AUTO_UPGRADE_CLIENT_RP, autoupgrade)
process_map_set(BSM_RP, bsm)
process_map_set(BTM_CC, btmman)
process_map_set(BTM_FP, btmman)
process_map_set(BTM_RP, btmman)
process_map_set(BTM_BP, btmman)
process_map_set(CCD_RP, caf)
process_map_set(DMI_CONFDF, confd)
process_map_set(DMI_PTTCD, pttcd)
process_map_set(SDWAN_CONFDF, confd)
process_map_set(EMD_CC, emd)
process_map_set(EMD_FP, emd)
process_map_set(EMD_RP, emd)
process_map_set(FCD_RP, flashcheck)
process_map_set(FM_FP, fman_fp)
process_map_set(FM_CC, fman_cc)
process_map_set(FM_RP, fman_rp)
process_map_set(HM_CC, hm)
process_map_set(HM_FP, hm)
process_map_set(HM_RP, hm)
process_map_set(IOMD_CC, iomd)
process_map_set(IOSD_CC, iosd)
process_map_set(IOSD_BP, iosd)
process_map_set(IOXM_RP, ioxman)
process_map_set(ISSU_STK, issu_stack)
process_map_set(LM_RP, lm)
process_map_set(MAINT_RP, periodic)
process_map_set(PLOGD_CC, plogd)
process_map_set(PLOGD_FP, plogd)
process_map_set(PLOGD_RP, plogd)
process_map_set(REPM_RP, repm)
process_map_set(SERVICE_MGR_RP, service_mgr)
process_map_set(SERVICE_MGR_FP, service_mgr)
process_map_set(SM, smand)
process_map_set(SORT_RP, sort_files)
process_map_set(VMAN_RP, vman)
process_map_set(POLJVM, jvm)
process_map_set(CLUSTERMGR, clustermgr)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/processmap.m4
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#

### <summary>Polaris wstatsd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariswstatsd.if  
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#  
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#  

/tmp/tmppub/interceptor(/.*)? gen_context(system_u:object_r:polaris_pttcd_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispttcd.fc  
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#  
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#  

policy_module(polarisautoupgrade, 1.0);

    gen_require(
        type polaris_autoupgrade_t;
    )

corecmd_exec_bin(polaris_autoupgrade_t)
corecmd_exec_shell(polaris_autoupgrade_t)

    # run ldd, which in turns execve "ld.so --verify"
    libs_exec_ld_so(polaris_autoupgrade_t)

    # allow read of /etc/group and /etc/passwd
    auth_use_nsswitch(polaris_autoupgrade_t)

    # allow to read /proc/meminfo
    kernel_read_system_state(polaris_autoupgrade_t)
allow polaris_autoupgrade_t self:capability { sys_resource dac_override };
allow polaris_autoupgrade_t self:process setpgid;

polaris_tdldb_list_dirs(polaris_autoupgrade_t)

polaris_btrace_data_manage(polaris_autoupgrade_t)
polaris_chasfs_manage(polaris_autoupgrade_t)
polaris_cpld_read(polaris_autoupgrade_t)
polaris_proc_rmonbifo_read(polaris_autoupgrade_t)
polaris_rmonbifo_tmp_read(polaris_autoupgrade_t)
polaris_boot_tmp_manage(polaris_autoupgrade_t)
polaris_read_debug_conf(polaris_autoupgrade_t)
polaris_disk_crashinfo_getattr(polaris_autoupgrade_t)

type polaris_autoupgrade_tmp_t;
files_tmp_file(polaris_autoupgrade_tmp_t)
# /tmp/etc/installer
gen_require(`
  type polaris_etc_t;
`)
filetrans_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t, dir, "installer")
manage_fifo_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_dirs_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t)
manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)

# Allow access to bootflash
polaris_bootflash_read(polaris_autoupgrade_t)

# Allow access to packages.conf
polaris_read_packages_conf(polaris_autoupgrade_t)

# needs to run pidof
dev_read_sysfs(polaris_autoupgrade_t)
kernel_read_system_state(polaris_autoupgrade_t)
domain_read_all_domains_state(polaris_autoupgrade_t)

# send syslog
logging_send_syslog_msg(polaris_autoupgrade_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_autoupgrade_t)
gen_require(`
  type rsync_t;
`)
allow rsync_t polaris_autoupgrade_t:process sigchld;

# /tmp/ufs/crashinfo access
optional_policy(`
polaris_ncd_tmp_read(polaris_autoupgrade_t)
'}

# autoupgrade script in case of HA setup invokes brelay to trigger install of stand-by
polaris_bexecute_domtrans(polaris_autoupgrade_t)

polaris_flashlib_lock(polaris_autoupgrade_t)
polaris_flashlib_read(polaris_autoupgrade_t)
polaris_disk_install_read(polaris_autoupgrade_t)
polaris_install_engine_domtrans(polaris_autoupgrade_t)

#add transition to create /var/installer by autoupgrade
type polaris_autoupgrade_var_t;
files_tmp_file(polaris_autoupgrade_var_t)
files_var_filetrans(polaris_autoupgrade_t, polaris_autoupgrade_var_t, {file dir})
gen_require('type polaris_autoupgrade_exec_t;
')

#add transition to create /var/installer/auto_upgrade_helper.sh by autoupgrade
filetrans_pattern(polaris_autoupgrade_t,polaris_autoupgrade_var_t, polaris_autoupgrade_exec_t, file, "auto_upgrade_helper.sh")
manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_var_t)
manage_dirs_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_var_t)

#add transition to create files/dir in /tmp
files_tmp_filetrans(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, {file dir})

# access to /tmp/installer
polaris_install_tmp_manage(polaris_autoupgrade_t)

fs_getattr_tmpfs(polaris_autoupgrade_t)

# access to /tmp/rsync_log_dir
polaris_manage_rsync_tmplog_dir(polaris_autoupgrade_t)

# access to /harddisk link (accessed by flashutil and rotee call)
polaris_disk_harddisk_read_lnk(polaris_autoupgrade_t)

rsync_entry_domtrans(polaris_chvrf_t, rsync_t)
gen_require('type polaris_autoupgrade_t;
    type polaris_autoupgrade_exec_t;
')
rsync_entry_domtrans(polaris_autoupgrade_t, rsync_t)
polaris_bexecute_domain(polaris_autoupgrade_t, polaris_autoupgrade_exec_t)
fs_getattr_xattr_fs(polaris_autoupgrade_t)

# auto_upgrade_helper.sh creates /var/installer/auto_upgrade_helper.sh
allow polaris_autoupgrade_t polaris_autoupgrade_exec_t:file { create setattr write };

# rsync operations for members and standby rps on autoupgrade
gen_require(' type rsync_port_t;
')
allow polaris_autoupgrade_t rsync_port_t:tcp_socket name_connect;

# rsync requires to relabel /var/installer/auto_upgrade_helper.sh on standby
gen_require(' type var_t;
')
allow rsync_t var_t:file relabelfrom;
allow rsync_t polaris_autoupgrade_exec_t:file relabelto;

# access to /vol/harddisk/*.pkg
polaris_getattr_file_harddisk(polaris_autoupgrade_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_autoupgrade_t)

polaris_getattr_file_harddisk(polaris_autoupgrade_t)

# auto_upgrade_client.sh access to "/tmp/sw/0/0/rp_base/mount/bin/cut"
polaris_issu_tmp_files_read(polaris_autoupgrade_t)

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisautoupgrade.te
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#

### <summary>Polaris smand Policy Rules.</summary>

################################
###
### Allow domain to be started by smand with
### transition into specific service domain.
###
### Interface polaris_smand_domain

```c
interface(polaris_smand_domain,
  gen_require(`
type polaris_smand_t;
`)
)
```

### Interface polaris_smand_use_fifo

```c
interface(polaris_smand_use_fifo,
  gen_require(`
type polaris_smand_t;
`)
)
```

```c
domtrans_pattern(polaris_smand_t, $2, $1)
```

```c
write_fifo_files_pattern($1, polaris_smand_t, polaris_smand_t)
```

```c
# Read access to CRDU fifo file created by smand
```

```c
# Domain allowed access.
```

```c
# Domain allowed access.
```
#
interface('polaris_smard_crdu_pipe_read',
    gen_require(
        type polaris_crdu_pipe_tmp_t;
    )
)

read_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
)

###################################################################
## <summary>
##   Manage CRDU fifo file created by smand
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
## </summary>
## </param>
## <rolecap/>
#
interface('polaris_smard_crdu_pipe_manage',
    gen_require(
        type polaris_crdu_pipe_tmp_t;
    )
)

manage_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
)

###################################################################
## <summary>
##   Write to polaris_sman_bshell_serv_lipc_t
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed to connect and write into this lipc file.
## </summary>
## </param>
## <rolecap/>
#
interface('polaris_sman_bshell_serv_lipc_write',
    gen_require(
        type polaris_sman_bshell_serv_lipc_t;
        type polaris_smand_t;
    )
)
polaris_lipc_write($1, polaris_sman_bshell_serv_lipc_t, polaris_smand_t)
)

###################################################################
## <summary>
## Manage /tmp/show_ports_tmp
## <summary>
## <param name="domain">
## Domain allowed to manage tmp files.
## </summary>
## </param>
## <rolecap/>
interface('polaris_trans_ports_tmp_manage';
    gen_require(
        type polaris_trans_stats_tmp_t;
    )
    manage_files_pattern($1, polaris_trans_ports_tmp_t, polaris_trans_ports_tmp_t)
')

### <summary>
### create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output
### </summary>
### <param name="domain">
### Domain allowed to manage tmp files.
### </summary>
### </param>
### <rolecap/>
interface('polaris_trans_stats_tmp_manage';
    gen_require(
        type polaris_trans_stats_tmp_t;
    )
    manage_files_pattern($1, polaris_trans_stats_tmp_t, polaris_trans_stats_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polarissmand.if
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#

policy_module(polarisobfl, 1.0);

###########################################################################
# Obfl policy
###########################################################################
type polaris_obfl_data_t;
files_type(polaris_obfl_data_t)

gen_require(
    type init_t;
    type default_t;
    type tmp_t;
    attribute domain;
)

filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl")
# edison uses obfl0 name
filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl0")
# /tmp/obfl
files_tmp_filetrans(domain, polaris_obfl_data_t, dir, "obfl")

# allow obfl data file reside on persistent storage
polaris_pfile_type(polaris_obfl_data_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisobfl.te
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#

policy_module(polarisngiolite, 1.0);

gen_require(
    type polaris_ngiolite_t;
)

polaris_btrace_data_manage(polaris_ngiolite_t)
polaris_crft_data_manage(polaris_ngiolite_t)
polaris_chasfs_manage(polaris_ngiolite_t)
polaris_tdlresolve_read(polaris_ngiolite_t)
polaris_tdldb_list_dirs(polaris_ngiolite_t)
polaris_cpld_read(polaris_ngiolite_t)
polaris_flashlib_read(polaris_ngiolite_t)

optional_policy(
    polaris_cpp_tmp_ifdev_use(polaris_ngiolite_t)
)
# In the file of radium_xcvr.c allow access to create and bind
# the socket using the API bnxt_impl_init_netlink.
allow polaris_ngiolite_t self:netlink_generic_socket { bind create getattr setopt };

# in iot platforms, ngiolite needs access to /proc/sys/net/ipv6/conf/mvsw/disable_ipv6
optional_policy(`
kernel_rw_net_sysctls(polaris_ngiolite_t)
kernel_search_network_sysctl(polaris_ngiolite_t)
''
)

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphor created by qfp process
ifdef(`crankshaft_family',`
polaris_qfp_sem_use(polaris_ngiolite_t)
polaris_ggpio_dev_read_write(polaris_ngiolite_t)
polaris_dplr_dev_use(polaris_ngiolite_t)
''
)
ifdef(`fugazi_platform',`
polaris_qfp_sem_use(polaris_ngiolite_t)
''
)

# write access to /sys/bus/pci/rescan
dev_rw_sysfs(polaris_ngiolite_t)
# LOOK AT ME ngiolite does it through "echo 1 > /sys/bus/pci/rescan" seems to much
# to grunt shell and bin access just to write "1" string into the file
corecmd_exec_bin(polaris_ngiolite_t)
corecmd_exec_shell(polaris_ngiolite_t)
# allow read of /etc/passwd
auth_use_nsswitch(polaris_ngiolite_t)

polaris_firmware_read(polaris_ngiolite_t)
polaris_udev_tmp_list_dirs(polaris_ngiolite_t)

# allow access to read the file cman rommon file.
polaris_proc_rmonbifo_getattr(polaris_ngiolite_t)
polaris_proc_rmonbifo_read(polaris_ngiolite_t)

allow polaris_ngiolite_t self:capability { net_admin sys_rawio };

# allow system time capability to check for system timeout
# while checking the state using API cwan_modem_check_ready_state
allow polaris_ngiolite_t self:capability sys_time;

# allow access to nim_xxd file created by emcc
polaris_nim_xxd_tmp_open_unlink(polaris_ngiolite_t);

# ngiolite needs to work with /dev/sd /dev/sg devices to figure out disk driver
# paramters. drivers/userspace/nim_xxd library
storage_raw_read_fixed_disk(polaris_ngiolite_t)
storage_read_scsi_generic(polaris_ngiolite_t)
storage_write_scsi_generic(polaris_ngiolite_t)

polaris_sysfs_platform_dev_use(polaris_ngiolite_t)

# LOOK AT ME: ngiolite needs to work with /dev/ds31408, which is generic device_t now
gen_require(''
ype device_t;
')

rw_chr_files_pattern(polaris_ngiolite_t, device_t, device_t)

# modprobe nim_dm dm_drv_log_level=0x01
ifdef('crankshaft_family','
 modutils_domtrans_insmmod(polaris_ngiolite_t)
')

polaris_smartctl_domtrans(polaris_ngiolite_t)

# utah_fpge_driver.c needs socket to configure interface parameters
allow polaris_ngiolite_t self:udp_socket create_socket_perms;

polaris_utility_domain_template(smartctl)

corecmd_exec_bin(polaris_smartctl_t)
corecmd_exec_shell(polaris_smartctl_t)

# allow access to polaris_cpp_tmpfs_t file
# Example is ifdev shared memory /dev/shm/cpp_ifdev_shmem
# The ngiolite init function calls the api ifdev_init
# to initialize shared memory control info.
fs_getattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_smartctl_t)

logging_send_syslog_msg(polaris_smartctl_t)

fstools_domtrans(polaris_smartctl_t)

# runs tar /bin/tar -xvzf /firmware/MicronP400m-MTFDDAK200MAN.pkg -C /firmware
polaris_firmware_manage(polaris_smartctl_t)
files_getattr_all_dirs(polaris_smartctl_t)
files_read_all_symlinks(polaris_smartctl_t)

# work with /dev/sgX
storage_read_scsi_generic(polaris_smartctl_t)
storage_write_scsi_generic(polaris_smartctl_t)

allow polaris_smartctl_t self:capability { chown dac_override fowner fsetid };

type polaris_smartctl_tmp_t;
files_tmp_file(polaris_smartctl_tmp_t)
files_tmp_filetrans(polaris_smartctl_t, polaris_smartctl_tmp_t, file, "smart.pid")
manage_files_pattern(polaris_smartctl_t, polaris_smartctl_tmp_t, polaris_smartctl_tmp_t)

# script inherits stdout from ngiolite, needs permission to append to it
polaris_use_btrace_fifo(polaris_smartctl_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh55517)
ifdef(`crankshaft_family',`
  polaris_dev_mem_use(polaris_ngiolite_t)
')

ifdef(`sparrow_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef(`blackheart_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef(`cabo_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef(`aventus_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef(`crankshaft_family',`
  # allow scan pci/devices proc dir
  # The ngiolite init function makes call to o2_cvmx_remote_open to
  # open the remote library connection to cavium chip in FFP.
  # The octeon library call invokes pci_get_device, which needs to
  # access /proc .
  kernel_getattr_proc_files(polaris_ngiolite_t)
kernel_write_proc_files(polaris_ngiolite_t)
kernell_read_system_state(polaris_ngiolite_t)

# allow access to /tmp/octeon-remote-lock-pci***
# This is required as part of ngiolite access of octeon chip.
# As part of the init, call is made to octeon_remote_lock()
# which requires access to the /tmp file.
polaris_cm_fp_tmp_filetrans(polaris_ngiolite_t)
polaris_cm_fp_tmp_manage(polaris_ngiolite_t)

#################################################
## CWAN NGIOLITE process policies start##########
#################################################
#cwan running as a ngiolite process needs to be able to RW/IOCTL to qcqmiX files
polaris_qcqmi_dev_use(polaris_ngiolite_t)

#RDM thread in CWAN running as ngiolite process needs access to ttyUSB0 for DM logging
term_use_usb_ttys(polaris_ngiolite_t)

#RDM/Event thread needs to add a newly generated DM log file/Crash dump file to/from bootflash directory
polaris_bootflash_manage(polaris_ngiolite_t)

#Modem Monitor thread uses sendto over a Datagram socket to send datato Turing Thread
allow polaris_ngiolite_t self:unix_dgram_socket sendto;

#Modem Monitor thread opens a socket to UDEV to process Modem USB addition/disconnection events
allow polaris_ngiolite_t self:netlink_kobject_uevent_socket create_socket_perms;

#Modem Monitor thread needs to be able to open/Read and GetAttributes to differentiate between Telit/SWI vendor
udev_rw_db(polaris_ngiolite_t)

#Turing thread needs to gather stats as well as set the IP address to /proc/net/cwan_modem0/cwan0/src_ip
kernel_search_network_state(polaris_ngiolite_t)
polaris_kernel_rw_network_state_files(polaris_ngiolite_t)

#################################################
## CWAN NGIOLITE process policies end############
#################################################

')

# on tsn need access to /sys/devices/platform/moka_fpga
# /sys/devices/platform/moka_fpga/external_int_pending dev
optional_policy(`
polaris_mokafpga_rw(polaris_ngiolite_t)
`)

# on radium need to get model info
optional_policy(`
polaris_dash_dev_use(polaris_ngiolite_t)

# work with contdev sysfs files
polaris_contdev_dev_read(polaris_ngiolite_t)

sysnet_domtrans_ifconfig(polaris_ngiolite_t)

logging_send_syslog_msg(polaris_ngiolite_t)

ifdef(`neptune_platform',
   polaris_cpp_cavium_sdk_ipc_use(polaris_ngiolite_t)
)

optional_policy(`
polaris_nim_dm_dev_use(polaris_ngiolite_t)
')

ifdef(`radium_platform',
   # allow ngiolite to access nim_phy_device
   polaris_nim_phy_dev_use(polaris_ngiolite_t)
)

# TODO/FIXME, Need to review this permission, this is related to
# the call "echo 1 > /sys/bus/pci/rescan"
dev_manage_sysfs_dirs(polaris_ngiolite_t)
allow polaris_ngiolite_t sysfs_t:file create;

# allow ngiolite to access sfp over i2c bus
polaris_i2c_use(polaris_ngiolite_t)

# on neptune, cavium library in o2_cavm_mem_map wants access to
# /sys/devices/pci0000:00/0000:00:01.0/0000:01:00.0/resource0
optional_policy(`
polaris_cpp_cavium_dma_map(polaris_ngiolite_t)
')

# /dev/sfp-ktr & qfp sem access on Katar
ifdef(`katar_platform',
   polaris_sfp_katar_dev_use(polaris_ngiolite_t)
polaris_qfp_sem_use(polaris_ngiolite_t)
fs_getattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)
')

# allow /usr/binos/bin/ngiolite to access /tmp/nim_xxd_present
gen_require(`
   type polaris_cmrp_nim_xxd_tmp_t;
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

# allow /usr/binos/bin/ngiolite to access /tmp/hd_sz
gen_require(
    type udev_tmp_t;
')
read_files_pattern(polaris_ngiolite_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/lvm to be executed and to be operated
lvm_domtrans(polaris_ngiolite_t)

# allow /usr/binos/bin/ngiolite to manage /tmp
read_files_pattern(polaris_nim_xxd_tmp_t, udev_tmp_t, udev_tmp_t)

# allow /usr/binos/bin/ngiolite to manage /tmp/smartctl.out and
#                                         /tmp/xxdisplay.ouT
files_tmp_filetrans(polaris_ngiolite_t, polaris_nim_xxd_tmp_t, file)
manage_files_pattern(polaris_ngiolite_t, polaris_nim_xxd_tmp_t, polaris_nim_xxd_tmp_t)

# allow /usr/sbin/smartctl to operate on fsadm_exec_t
fstools_domtrans(polaris_ngiolite_t)

# allow /usr/sbin/smartctl to acess nvme device in chr and blk
dev_nvme_chr_files_manage(polaris_ngiolite_t)
dev_nvme_blk_files_manage(polaris_ngiolite_t)

ifdef(`sumatra_platform',`
# dev/cpld
polaris_cpld_dev_use(polaris_ngiolite_t)

# manage "sysctl_i2c.lck"
gen_require(
    type polaris_cm_rp_tmp_t;
')
files_tmp_filetrans(polaris_nim_xxd_tmp_t, polaris_cm_rp_tmp_t, file, "sysctl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_nim_xxd_tmp_t)

# access /dev/huron_fpga
polaris_huron_dev_use(polaris_ngiolite_t)

)'

ifdef(`crankshaft_family',`
# /var/run/cwan socket and pid
gen_require(`
type polaris_cwan_svr_var_run_t;
')
files_pid_filetrans(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, sock_file, "cwan_ezmanage_cwan_server")
create_sock_files_pattern(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
delete_sock_files_pattern(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
')

# allow /usr/binos/bin/ngiolite to access the following interface
fs_unmount_xattr_fs(polaris_ngiolite_t)
dev_manage_generic_symlinks(polaris_ngiolite_t)
polaris_udev_tmp_manage(polaris_ngiolite_t)

# ngiolite/ezManage access rules - currently only applies to TSN
optional_policy(')
    # Allow ngiolite to access ezManage dgram socket
    gen_require(')
        type polaris_ezmanage_t;
    ')
    allow polaris_ngiolite_t polaris_ezmanage_t:unix_dgram_socket sendto;

    # Allow ngiolite to access ezManage socket file in /var/run
    polaris_manage_ezmanage_var_run_files(polaris_ngiolite_t)
')

# allow ngiolite to access /dev/nim_phy
ifdef('crankshaft_family',)
polaris_nim_phy_dev_use(polaris_ngiolite_t)
'

# allow ioctl, read, write permission for ds31408 device
optional_policy(')
polaris_ds31408_dev_use(polaris_ngiolite_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngiolite.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
#
### <summary>Polaris polarisiptbl Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisiptbl.if
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#
# March 2017, Victor Kamensky
#
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#

/usr/bin/bhytoolsd -- gen_context(system_u:object_r:polaris_bhytoolsd_exec_t:s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbhytoolsd.fc
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# March 2017, Victor Kamensky
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#

# polariscmm file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmm.fc
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#
# August 2017, Shawn Lu
#
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#

# polarisifmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisifmgr.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#
policy_module(polarisvdaemon, 1.0);

gen_require(`
    type polaris_vdaemon_t;
`)
polaris_chasfs_manage(polaris_vdaemon_t)
# read and write /bootflash/sdwan/etc/vdaemon_gen_id
polaris_bootflash_manage(polaris_vdaemon_t)
polaris_tdlresolve_read(polaris_vdaemon_t)
polaris_cpld_read(polaris_vdaemon_t)
polaris_flashlib_read(polaris_vdaemon_t)
polaris_ripe_sman_ui_serv_connect(polaris_vdaemon_t)
polaris_db_tdlldb_dir_use(polaris_vdaemon_t)
logging_send_syslog_msg(polaris_vdaemon_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_vdaemon_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vdaemon_t)
polaris_cedge_reset_ns(polaris_vdaemon_t)

# calls ifconfig for tun_0_0 interface
sysnet_domtrans_ifconfig(polaris_vdaemon_t)

# calls dmidecode get system serial number
dmidecode_domtrans(polaris_vdaemon_t)

# /var/run/vdaemon socket and pid
type polaris_vdaemon_var_run_t;
files_pid_file(polaris_vdaemon_var_run_t)
manage_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
manage_sock_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
files_pid_filetrans(polaris_vdaemon_t, polaris_vdaemon_var_run_t, { file sock_file })
polaris_ttm_var_sock_write(polaris_vdaemon_t)

# generate_instance_uuid reads /sys/devices/virtual/dmi/id/product_uuid
dev_read_sysfs(polaris_vdaemon_t)

# vip_util_set_fd_limits calls setrlimit
allow polaris_vdaemon_t self:process { setrlimit setpgid };
allow polaris_vdaemon_t self:capability { dac_override fowner sys_resource };

# vdaemon_init_tunn_intf initialize tun_0_0 in vrf 1
allow polaris_vdaemon_t self:tun_socket create;
corenetsdep_t tun_dev(polaris_vdaemon_t)
polaris_persistent_watch(polaris_vdaemon_t)
# from vdaemon_misc.c vdaemon_init_inotify function
polaris_cedge_etc_watch(polaris_vdaemon_t)

# set_netns_with_etc mounts on / and /sys
# set_netns_with_etc opens /etc/netns/1 dir
polaris_namespace_set_netns_with_etc(polaris_vdaemon_t)
# DNS thread complains about tmp_t mounton
# on /sys when switching namespace
gen_require(`
  type tmp_t;
')
allow polaris_vdaemon_t tmp_t:dir mounton;

# vip_util_set_ns opens /var/run/netns/*
polaris_cedge_set_ns(polaris_vdaemon_t)
# vip_dns_process_request switches namespace from linux n/w namespace to
# original mount namespace
allow polaris_vdaemon_t self:capability { net_admin sys_chroot };
allow polaris_vdaemon_t self:udp_socket { bind connect create getattr getsockopt setsockopt shutdown };

# control linux routes vip_route_delete and vdaemon_setup_system_ip_route
allow polaris_vdaemon_t self:netlink_route_socket { bind create getattr nlmsg_read nlmsg_write };

# binds to vbond udp ports
corenetsdep_udpbind_Generic_node(polaris_vdaemon_t)
corenetsdep_udpbind_vbond_port(polaris_vdaemon_t)

# though default ports exist, users can configure the tcp ports in vManage and vSmart
corenetsdep_tcp_connect_all_ports(polaris_vdaemon_t)

# vdaemon_proc_hello executes VIP_CDB_BACKUP_SCRIPT
polaris_confd_domtrans(polaris_vdaemon_t)
# VIP_CDB_BACKUP_SCRIPT makes use of /etc/confd/confd_ipc_secret
auth_map_passwd(polaris_vdaemon_t)

# vdaemon_write_authorized_keys_to_ncsshd opens VDAEMON_NCSSHD_AUTH_KEY_FILE file
polaris_nccsshd_keys_manage(polaris_vdaemon_t)
# vbond_encode_version opens /etc/version
polaris_confd_etc_read(polaris_vdaemon_t)

# generate_or_parse_uuid() invokes uuid_generate that needs read on
# random-number generator devices (e.g., /dev/random).
dev_read_rand(polaris_vdaemon_t)

# vdaemon_exec_iptables() is invoked by vdaemon all over the place
iptables_domtrans(polaris_vdaemon_t)

allow polaris_vdaemon_t self:capability net_raw;
allow polaris_vdaemon_t self:rawip_socket create_socket_perms;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polarisvdaemon.te
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dnl

dnl May 2018, Manohar Hungund
dnl
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dnl
dnl Starfleet Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 5)
max_bay_map_set(`fp', `per_bay', 5)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 6)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 6)
max_bay_ripc_map_set(`fp', `global', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)
dnl

dnl April 2018, Victor Kamensky

dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
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dnl define('polaris_lipc_service_server','')
define('polaris_lipc_service_client','')

# June 2017, Victor Kamensky
#
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#
#
## <summary>Polaris container Policy Rules.</summary>

########################################
## <summary>
##	Creates types and rules for a basic
##	polaris container process domain.
## </summary>
## <param name="stem">
##	<summary>
##	Stem for the domain. Name is constructed as polaris_stem_container_t
## </summary>
## </param>
#
## <summary>Polaris container Domain Template.</summary>

template('polaris_container_domain_template','
gen_require(' type svirt_sandbox_file_t;
type virt_lxc_var_run_t;
attribute sandbox_net_domain;
attribute svirt_sandbox_domain;
bool virt_sandbox_use_sys_admin;
bool virt_sandbox_use_mknod;
bool virt_sandbox_use_all_caps;
bool virt_sandbox_use_netlink;
type polaris_$1_container_t, svirt_sandbox_domain;
domain_type(polaris_$1_container_t)
domain_user_exemption_target(polaris_$1_container_t)
mls_rangetrans_target(polaris_$1_container_t)
mcs_constrained(polaris_$1_container_t)
role system_r types polaris_$1_container_t;

logging_send_syslog_msg(polaris_$1_container_t)
kernelp_read_system_state(polaris_$1_container_t)
kernelp_read_all_proc(polaris_$1_container_t)

virt_default_capabilities(polaris_$1_container_t)
typeattribute polaris_$1_container_t sandbox_net_domain;
dontaudit polaris_$1_container_t self:capability fsetid;
dontaudit polaris_$1_container_t self:capability2 block_suspend;
allow polaris_$1_container_t self:process { execstack execmem };
manage_chr_files_pattern(polaris_$1_container_t, svirt_sandbox_file_t, svirt_sandbox_file_t)
kernel_load_module(polaris_$1_container_t)


tunable_policy(`virt_sandbox_use_sys_admin',
    allow polaris_$1_container_t self:capability sys_admin;
')

tunable_policy(`virt_sandbox_use_mknod',
    allow polaris_$1_container_t self:capability mknod;
')

tunable_policy(`virt_sandbox_use_all_caps',
    allow polaris_$1_container_t self:capability all_capability_perms;
    allow polaris_$1_container_t self:capability2 all_capability2_perms;
')

tunable_policy(`virt_sandbox_use_netlink',
    allow polaris_$1_container_t self:netlink_socket create_socket_perms;
    allow polaris_$1_container_t self:netlink_tcpdiag_socket create_netlink_socket_perms;
    allow polaris_$1_container_t self:netlink_kobject_uevent_socket create_socket_perms;
    ',
    logging_dontaudit_send_audit_msgs(polaris_$1_container_t)
')

allow polaris_$1_container_t virt_lxc_var_run_t:dir list_dir_perms;
allow polaris_$1_container_t virt_lxc_var_run_t:file read_file_perms;

kernel_read_irq_sysctls(polaris_$1_container_t)
kernelpread_messages(polaris_$1_container_t)
dev_read_sysfs(polaris_$1_container_t)
dev_read_mtrr(polaris_$1_container_t)
dev_read_rand(polaris_$1_container_t)
dev_read_urand(polaris_$1_container_t)

files_read_kernel_modules(polaris_$1_container_t)

# Do we actually need these?
fs_mount_cgroup(polaris_$1_container_t)
fs_manage_cgroup_dirs(polaris_$1_container_t)
fs_manage_cgroup_files(polaris_$1_container_t)
# Needed for docker
fsUnmount_xattr_fs(polaris_$1_container_t)

auth_use_nsswitch(polaris_$1_container_t)

optional_policy(
    rpm_read_db(polaris_$1_container_t)
)

logging_send_syslog_msg(polaris_$1_container_t)

tunable_policy(`virt_sandbox_use_audit',
    logging_send_audit_msgs(polaris_$1_container_t)
)

userdom_use_user_ptys(polaris_$1_container_t)

optional_policy(`
    # allow vman to kill lxc container process
    # on shutdown where vman destroys container-related
    # stuff after a timeout period
    polaris_vman_kill_process(polaris_$1_container_t)
')

# copied from polariscommon.if. If the label is added in
# in permissive map, the below interface will make permissive
ifelse(permissive_domain(polaris_$1_container_t), polaris_$1_container_t,  
    `polaris_permissive_domain_setup(polaris_$1_container_t)',
    confined_domain(polaris_$1_container_t), polaris_$1_container_t, `',
    `polaris_domain_maybe_unconfined(polaris_$1_container_t)'
)

#################################################
## <summary>
##	Creates types and rules for a basic
## <summary>
## Stem for the domain. Name is constructed as polaris_stem_container_t
## </summary>
## </param>
#
# template('polaris_kvm_domain_template',
  gen_require(
    attribute virt_domain;
    type svirt_image_t;
  ')
 )
#
# for now, things are same as polaris_container_domain_template
polaris_container_domain_template($1)

  typeattribute polaris_$1_container_t virt_domain;
  # allow {map} of svirt_image_t needed by VWAAS similar to svirt
  allow polaris_$1_container_t svirt_image_t:{ file blk_file } map;
')

########################################################################
## <summary>
##      Read Sandbox Files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_sandbox_file_read',
  gen_require(
    type svirt_sandbox_file_t;
  ')
  read_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
  read_link_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
  list_dirs_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
')

########################################################################
### <param>
#
interface('polaris_sandbox_file_dir_list',`
    gen_require(`
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type svirt_sandbox_file_t;
    `)
);
list_dirs_pattern($1, { svirt_sandbox_file_t polaris_disk_bootflash_t polaris_disk_harddisk_t },
    svirt_sandbox_file_t)
optional_policy(`
    gen_require(`
        type polaris_iox_alt_hdd_files_t;
    `)
);
list_dirs_pattern($1, polaris_iox_alt_hdd_files_t , svirt_sandbox_file_t)
`)
`)

################################################################################
### <summary>
###     Getattr of Sandbox Files
### </summary>
### <param name="domain">
###     <summary>
###      Domain allowed access.
###     </summary>
### </param>
#
interface('polaris_sandbox_file_getattr',`
    gen_require(`
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type svirt_sandbox_file_t;
    `)
);
getattr_files_pattern($1, { svirt_sandbox_file_t polaris_disk_bootflash_t polaris_disk_harddisk_t },
    svirt_sandbox_file_t)
optional_policy(`
    gen_require(`
        type polaris_iox_alt_hdd_files_t;
    `)
);
getattr_files_pattern($1, polaris_iox_alt_hdd_files_t , svirt_sandbox_file_t)
`)
`)
## Normal restricted permission to execute utd (snort) container

## <summary>
## Domain allowed access.
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

#
interface(`polaris_utd_container`,
    allow $1 self:netlink_generic_socket client_stream_socket_perms;`
)

#########################################
## Allow domain transition
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_iox_container_domtrans`,
    gen_require(`
        type polaris_iox_container_t;
        type container_file_t;
    `)
    domain_transition_pattern($1, container_file_t, polaris_iox_container_t)
)

#########################################
## Allow watch on container files
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_iox_container_watch`,
    gen_require(`
        type tmpfs_t;
        type container_file_t;
    `)
    allow $1 container_file_t:{ dir file lnk_file} watch;
    allow $1 tmpfs_t:{ dir file lnk_file} watch;
### <summary>
### Send messages to utdl container unix datagram sockets.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_utdl_container_dgram_send',`
    gen_require(
        type polaris_utdl_container_t;
    )
    allow $1 polaris_utdl_container_t:unix_dgram_socket sendto;
')

### <summary>
### Allow unix stream socket connect
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_waas_stream_connect',`
    gen_require(
        type polaris_waas_container_t;
    )
    allow $1 polaris_waas_container_t:unix_stream_socket connectto;
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscontainer.if
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#
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#
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#
policy_module(polariscmm, 1.0);

gen_require('  
    type polaris_cmm_t;
')

polaris_btrace_data_manage(polaris_cmm_t)  
polaris_crf_t_data_manage(polaris_cmm_t)  
polaris_chasfs_manage(polaris_cmm_t)  
polaris_tdlresolve_read(polaris_cmm_t)  
polaris_tdlldb_list_dirs(polaris_cmm_t)  
polaris_cpld_read(polaris_cmm_t)  
polaris_flashlib_read(polaris_cmm_t)

polaris_ripc_sman_ui_serv_connect(polaris_cmm_t)

allow polaris_cmm_t self:capability dac_override;

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmm.te
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#
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#
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#
/var/log/dmi(/.*)?  gen_context(system_u:object_r:polaris_dmi_var_log_t,s0)
/tmp/stream-parsers(/.*)?  gen_context(system_u:object_r:polaris_dmi_parser_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmiodatamgrd.fc
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#
## <summary>Polaris plogd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisplogd.if
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#  
## <summary>Polaris polarisbhytoolsd Policy Rules.</summary>  

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbhytoolsd.if  

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#  
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#  

policy_module(polarispsd, 1.0);

gen_require(
    type polaris_psd_t;
')

polaris_btrace_data_manage(polaris_psd_t)  
polaris_crft_data_manage(polaris_psd_t)  
polaris_chasfs_manage(polaris_psd_t)  
polaris_tdlresolve_read(polaris_psd_t)  
polaris_tdlldb_list_dirs(polaris_psd_t)  
polaris_cpld_read(polaris_psd_t)  
polaris_flashlib_read(polaris_psd_t)

polaris_ripc_sman_ui_serv_connect(polaris_psd_t)

polaris_db_tdlldb_dir_use(polaris_psd_t)

# allow read of /etc/passwd  
auth_use_nsswitch(polaris_psd_t)

# allow to read /proc/meminfo  
kernel_read_system_state(polaris_psd_t)

# psd wants to run /usr/binos/bin/cfgwr command  
corecmd_exec_bin(polaris_psd_t)
corecmd_exec_shell(polaris_psd_t)

# provide objstore access
polaris_disk_objstore_read(polaris_psd_t)

# work with /tmp files (/tmp/sh-thd-*)
type polaris_psd_tmp_t;
files_tmp_file(polaris_psd_tmp_t)
files_tmp_filetrans(polaris_psd_t, polaris_psd_tmp_t, file)
manage_files_pattern(polaris_psd_t, polaris_psd_tmp_t, polaris_psd_tmp_t)

polaris_obfl_data_read(polaris_psd_t)

allow polaris_psd_t self:capability { fsetid };

allow polaris_psd_t self:capability { dac_override chown };
allow polaris_psd_t self:netlink_route_socket rw_netlink_socket_perms;

logging_send_syslog_msg(polaris_psd_t)

#ifndef(`vxe_family',`
  term_use_unallocated_ttys(polaris_psd_t)
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
')
#ifndef(`wlc_family',`
  term_use_unallocated_ttys(polaris_psd_t)
bootloader_rw_config(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
')
#ifndef(`vwlc_platform',`
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
')

polaris_disk_csl_manage(polaris_psd_t)

fs_read_nsfs_files(polaris_psd_t)

polaris_dyncfg_tmp_read(polaris_psd_t)

polaris_read_packages_conf(polaris_psd_t)
# handling /tmp/restconf

type polaris_restconf_t;
files_tmp_file(polaris_restconf_t);

files_tmp_filetrans(polaris_psd_t, polaris_restconf_t, dir, "restconf")
polaris_restconf_manage(polaris_psd_t)

# handling /tmp/.ncsshd_authorized_keys

type polaris_ncsshd_keys_t;
files_tmp_file(polaris_ncsshd_keys_t);

files_tmp_filetrans(polaris_psd_t, polaris_ncsshd_keys_t, dir, ".ncsshd_authorized_keys")
polaris_ncsshd_keys_manage(polaris_psd_t)

polaris_tmp_tldldb_persist_setup(polaris_psd_t)
polaris_tldldbpersist_setup(polaris_psd_t)

# write mem updates the grub config files
optional_policy('polaris_grubcfg_manage(polaris_psd_t)
')

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispsd.te
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#

## <summary>Polaris sif_mgr Policy Rules.</summary>
## access.

## </summary>

## </param>

# interface('polaris_sif_mgr_tmp_files_read',

gen_require(

type polaris_sif_mgr_tmp_t;

')

read_files_pattern($1, polaris_sif_mgr_tmp_t, polaris_sif_mgr_tmp_t)

')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissifmgr.if

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#

# August 2017, Shawn Lu
#

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#

policy_module(polariswlc, 1.0);

# hanet driver used by vwlc, is there better place for it?
type polaris_hanet_device_t;
dev_node(polaris_hanet_device_t)

gen_require(

type polaris_wlc_ap_images_t;
type mnt_t;
attribute polaris_extended_domain;
')

# transition when /mnt/images is created
filetrans_pattern(polaris_extended_domain, mnt_t, polaris_wlc_ap_images_t, dir, "images")

# epaN and epactrlN devices
type polaris_epa_device_t;
dev_node(polaris_epa_device_t)

# luna_fpgs device
type polaris_luna_mbfpga_device_t;
dev_node(polaris_luna_mbfpga_device_t)

# astro device
type polaris_astro_device_t:
dev_node(polaris_astro_device_t)

# cpp il device
type polaris_cpp_il_device_t;
dev_node(polaris_cpp_il_device_t)

# oob evfc device
type polaris_oob_evfc_device_t;
dev_node(polaris_oob_evfc_device_t)

# on vwlc all processes read grub_cisco_version in polaris_disk_varied_t
gen_require(
    attribute polaris_domain;
')
polaris_disk_varied_search(polaris_domain)

# /dev/sfp-ktr device
type polaris_sfp_katar_device_t;
dev_node(polaris_sfp_katar_device_t)

# handle /tmp/vxe_disk_XXX_YYY files
ifdef('vwlc_platform','
    gen_require(
        type unconfined_service_t;
    ')
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_manage(unconfined_service_t)
')
type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

# on vWLC, all processes read grubenv from EFI disk partition.
gen_require(
    attribute polaris_domain;
')
polaris_vwlc_grub_efi_search(polaris_domain)

type polaris_vwlcinstall_info_t;
polaris_pfile_type(polaris_vwlcinstall_info_t)

gen_require(
    type unconfined_service_t;
    type polaris_disk_varied_t;
)
# unconfined service create /boot/.install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vwlcinstall_info_t, file, ".install_info")

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariswlc.te
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#
## <summary>Polaris nmspd Policy Rules.</summary>

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismnspd.if
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dnl
dnl April 2018, Victor Kamensky

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dnl define('polaris_process_aux_full','"
polaris_process_domain_template($1)
"
')

define('polaris_process_aux','
ifelse(process_type_map($1), '', polaris_process_aux_full($1))
process_type_map_set($1, 1)
')

define('polaris_process','
polaris_process_aux(process_stem($1))
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_process_te.m4
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#
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#

/usr/bin/os/conf/telnetd_service.sh -- gen_context(system_u:object_r:polaris_tservice_telnet_exec_t,s0)
/usr/bin/os/conf/sshd_service.sh -- gen_context(system_u:object_r:polaris_tservice_ssh_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristservice.fc
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#
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#

/tmp/.DmiAuth.socket -s gen_context(system_u:object_r:polaris_dmi_dmiamuthd_tmp_t,s0)
/tmp/netconf-yang-diag(/.*)? gen_context(system_u:object_r:polaris_dmi_dmiamuthd_tmp_diags_t,s0)
/usr/bin/os/conf/dmid_diag_logs.sh -- gen_context(system_u:object_r:polaris_dmid_diag_logs_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmidmiauthd.fc
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#
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#
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#

policy_module(polarisfmanfp, 1.0);

gen_require(
    type polaris_fman_fp_t;
')

polaris_btrace_data_manage(polaris_fman_fp_t)
polaris_crft_data_manage(polaris_fman_fp_t)
polaris_chasfs_manage(polaris_fman_fp_t)
polaris_tdlresolve_read(polaris_fman_fp_t)
polaris_tdldb_list_dirs(polaris_fman_fp_t)
polaris_cpld_read(polaris_fman_fp_t)
polaris_lua_read(polaris_fman_fp_t)
polaris_flashlib_read(polaris_fman_fp_t)

polaris_ripc_sman_ui_serv_connect(polaris_fman_fp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_fp_t)

# mqipc manual, one that missing in platform tdl file

# mq.-iosd-thr-fmanrp-R0:0
# mq.-iosd-thr-fmanrp-1:R0:0
type polaris_iosd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_thr_fmanrp_mqipc_t)

# mq.-mobilityd-thr-fmanrp-1:R0:0

type polaris_mobilityd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_mobilityd_thr_fmanrp_mqipc_t)

# mq.-smd-thr-fmanrp-1:R0:0

type polaris_smd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_smd_thr_fmanrp_mqipc_t)

# mq.-wncd_0-thr-fmanrp-1:R0:0

type polaris_wncd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncd_thr_fmanrp_mqipc_t)

# mq.-wncmgrd_0-thr-fmanrp-1:R0:0

type polaris_wncmgrd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncmgrd_thr_fmanrp_mqipc_t)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-9:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-10:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-11:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-12:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-4:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-5:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-6:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-7:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-8:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-R1:0)

optional_policy(`
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_2-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_2-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_3-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_3-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_4-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_4-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_5-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_5-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_6-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_6-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_7-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_7-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-R1:0)
`)
polaris_cpld_dev_use(polaris_fman_fp_t)

# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_fman_fp_t)
polaris_cpp_tmp_files_use(polaris_fman_fp_t)

optional_policy(`
polaris_cpp_dev_use(polaris_fman_fp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_fman_fp_t)
"
polaris_persistent_manage(polaris_fman_fp_t)

polaris_icc_broken_relocations(polaris_fman_fp_t)

allow polaris_fman_fp_t self:capability dac_override;
allow polaris_fman_fp_t self:capability2 block_suspend;

# when /bootflash or /harddisk are 100% full
allow polaris_fman_fp_t self:capability sys_resource;

# write to devices like this /proc/bus/pci/04/00.0
kernel_read_system_state(polaris_fman_fp_t)
kernel_write_proc_files(polaris_fman_fp_t)

ifdef(`mcp_family',`
polaris_cm_fp_tmp_filetrans(polaris_fman_fp_t)
polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
`
)

# LOOK AT ME: raw memory write access
ifdef(`mcp_family',`
polaris_dev_mem_use(polaris_fman_fp_t)
`
)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_fman_fp_t)
`
)

polaris_dyncfg_tmp_read(polaris_fman_fp_t)

# /dev/qae_mem device access on overlord
optional_policy(`
polaris_qae_dev_use(polaris_fman_fp_t)
`
)

# access to /dev/icp_XXX device on crankshaft platforms
optional_policy(`
    polaris_icp_dev_use(polaris_fman_fp_t)
`
)

# on qwlc work with /tmp/octeon-remote-lock-pci:0
ifdef(`qwlc_platform',`
polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
ifdef(`katar_platform',
  polaris_cm_fp_tmp Manage(polaris_fman_fp_t)
')

optional_policy(
  #fman-fp creates tmp files in acl-mgmt workflow.
  polaris_fman_acl_iptbl_tmp_file(polaris_fman_fp_t)
')

polaris_iocsd_vcpu_read(polaris_fman_fp_t)

# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_fman_fp_t)
fs_search_cgroup_dirs(polaris_fman_fp_t)

optional_policy(
  # Access /dev/cbdma
  polaris_cbdma_dev_use(polaris_fman_fp_t)

  # Access /dev/n2_device
  polaris_n2_dev_use(polaris_fman_fp_t)
')

polaris_cpp_tmpfs_manage(polaris_fman_fp_t)

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisfmanfp.te
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#
# September 2017, Victor Kamensky
#
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#

policy_module(polarisbtman, 1.0);

gen_require(
  type polaris_btman_t;
')

polaris_crft_data_manage(polaris_btman_t)
polaris_chasfs_manage(polaris_btman_t)
polaris_tdlresolve_read(polaris_btman_t)
polaris_tdlldb_list_dirs(polaris_btman_t)
polaris_cpld_read(polaris_btman_t)
polaris_flashlib_read(polaris_btman_t)
polaris_ripc_sman_ui_serv_connect(polaris_btman_t)
polaris_db_tdlldb_dir_use(polaris_btman_t)
polaris_bexecute_domtrans(polaris_btman_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_btman_t)
polaris_send_signal_to_bexecute(polaris_btman_t)

corecmd_exec_bin(polaris_btman_t)
corecmd_exec_shell(polaris_btman_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btman_t)

allow polaris_btman_t self:capability { dac_override fsetid };
polaris_cpld_read(polaris_btman_t)

# operate on all btrace files
polaris_btrace_data_manage_all(polaris_btman_t)

# btman operated on /tmp/tmppub files
type polaris_btrace_tmppub_t;
files_tmp_file(polaris_btrace_tmppub_t)

polaris_systemd_tmppfiles_tmp_filetrans(polaris_btrace_tmppub_t, dir, "tmppub")
filetrans_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t, { file dir })
manage_files_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
manage_dirs_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)

polaris_persistent_read(polaris_btman_t)

# in purge_old_core_files_from_harddisk function of btrace_rotate_util.c
# script removes outdated core files, so it needs read/write permission
# to polaris_core_file_t files.
polaris_core_file_manage(polaris_btman_t)

fs_getattr_xattr_fs(polaris_btman_t)

# btman checks for presence of /tmp/udev/etc/udev/harddisk
# through hwutil_is_harddisk_present function of hwutil-common.sh
polaris_udev_tmp_list_dirs(polaris_btman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_btman_t self:capability sys_resource;

# access to /tmp/sw/boot/dmesg
polaris_boot_tmp_read(polaris_btman_t)

polaris_create_ldb_domtrans(polaris_btman_t)

# btman calls update Resolver_luid_paths which eventually calls open_brand function for
# given polaris executable (build_crdu_luid_file_paths, bcrdu_get_proc_path_internal,
# brand_type_string)
polaris_read_exec_domain(polaris_btman_t)

# btman create transitional files in /tmp directory
type polaris_btman_tmp_t;
files_tmp_file(polaris_btman_tmp_t)
files_tmp_filetrans(polaris_btman_t, polaris_btman_tmp_t, file)
manage_files_pattern(polaris_btman_t, polaris_btman_tmp_t, polaris_btman_tmp_t)

# use syslog
logging_send_syslog_msg(polaris_btman_t)

# btman unlink /tmp/rp/pvp/work/btman_first_inst
polaris_pvp_manage_tmp_files(polaris_btman_t)

# operate on btrace file in /bootflash
polaris_btrace_persistent_data_manage(polaris_btman_t)

gen_require(`
    type polaris_btrace_data_t;
`)
polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_crashinfo_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")

# btman creates /tmp/rp/pvp/work/btman_first_inst directory in is_first_incarnation
# function called by btrace_rotate_init
polaris_pvp_manage_tmp_files(polaris_btman_t)

################################################################################
# This block is policies for "request platform software system shell" CLI

# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/bin/btman -f rp
# - needs to read/getattr on
#     /tmp/sw/mount/*universalk9.*.SSA.pkg/usr/binos/sbin/in.telnetd

gen_require(`
allow polaris_btman_t telnetd_exec_t:file { getattr open read };

# btman establishes leases for trace files
allow polaris_btman_t self:capability lease;

# dump_btrace_meta walks all files with nftw
files_getattr_all_files(polaris_btman_t)
files_getattr_all_dirs(polaris_btman_t)
files_read_all_symlinks(polaris_btman_t)
files_list_non_security(polaris_btman_t)
files_read_all_files(polaris_btman_t)
files_mmap_all_files(polaris_btman_t)

# btman exports data through http protocol btm_trigger_export and schedule_newfile_export
corenet_tcp_connect_http_port(polaris_btman_t)

# LOOK AT ME: incorrect iosd-tps service_def. It should be renamed
# iosd_tps_socket-b0 in all platform.tdl files. Remove the following
# policy when CSCvp89498 is fixed.
gen_require(
    type polaris_lipc_t;
    type polaris_pman_t;
)
polaris_lipc_write(polaris_btman_t, polaris_lipc_t, polaris_pman_t)

# btman manages some persistent crashinfo files
polaris_disk_crashinfo_manage(polaris_btman_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_btman_t)
polaris_tmp_tdldb_persist_setup(polaris_btman_t)
polaris_btrace_data_watch(polaris_btman_t)

# dump_btrace_meta writes to /tmp/binary_trace.1605747053/.pkginfo
polaris_install_tmp_manage(polaris_btman_t)

#allow polaris_btman_t access to polaris_cm_rp semaphore
polaris_cm_rp_sem_use(polaris_btman_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbtman.te
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#
# July 2017, Victor Kamensky
#
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#
#
#/bootflash labels
#/bootflash(/.*)?   gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
#/bootflash/shh(/.*)?   gen_context(system_u:object_r:ssh_home_t,s0)
#/bootflash/shh/ssh_host.*_key\.pub   gen_context(system_u:object_r:sshd_key_t,s0)
#/bootflash/shh/ssh_host.*_key   gen_context(system_u:object_r:sshd_key_t,s0)
#/bootflash/tracelogs(/.*)?   gen_context(system_u:object_r:polaris_btrace_data_t,s0)
#/bootflash/tan(/.*)?   gen_context(system_u:object_r:polaris_btrace_data_t,s0)
#/bootflash/core(/.*)?   gen_context(system_u:object_r:polaris_core_file_t,s0)
#/bootflash/debug.conf   gen_context(system_u:object_r:polaris_debug_conf_t,s0)
#/bootflash/packages.conf   gen_context(system_u:object_r:polaris_packages_conf_t,s0)
#
#/vol/bootflash4 labels
#/vol/bootflash4(/.*)?   gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
#/vol/bootflash4/csl_p_0(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
#/vol/bootflash4/csl_p_1(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
#/vol/bootflash4/csl_s_0(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
#/vol/bootflash4/csl_s_1(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
#/vol/bootflash4/obfl_.*   gen_context(system_u:object_r:polaris_obfl_data_t,s0)
#
#/harddisk labels
#/vol/harddisk(/.*)?   gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
#/vol/harddisk_internal(/.*)?   gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
#/vol/harddisk/tracelogs(/.*)?   gen_context(system_u:object_r:polaris_btrace_data_t,s0)
#/vol/harddisk/tan(/.*)?   gen_context(system_u:object_r:polaris_btrace_data_t,s0)
#/vol/harddisk/core(/.*)?   gen_context(system_u:object_r:polaris_core_file_t,s0)
#/vol/harddisk/debug.conf   gen_context(system_u:object_r:polaris_debug_conf_t,s0)
#/vol/harddisk_internal/tracelogs(/.*)?   gen_context(system_u:object_r:polaris_btrace_data_t,s0)
#/vol/harddisk_internal/tan(/.*)?   gen_context(system_u:object_r:polaris_btrace_data_t,s0)
#/vol/harddisk_internal/core(/.*)?   gen_context(system_u:object_r:polaris_core_file_t,s0)
#/vol/harddisk/packages.conf   gen_context(system_u:object_r:polaris_packages_conf_t,s0)
#
# on lng persistent storage arranged differently
#/csl_p_0(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
#/csl_p_1(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
#/csl_s_0(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
#/csl_s_1(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
#/obfl(/.*)?   gen_context(system_u:object_r:polaris_obfl_data_t,s0)
#/vol/disk0(/.*)?   gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
#
# /init is symbolic link to /lib/systemd/systemd
# /init -l gen_context(system_u:object_r:init_exec_t,s0)
# /disk0 is symbolic link to /vol/disk0
#/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# scooby device
/dev/scooby -c gen_context(system_u:object_r:polaris_scooby_device_t,s0)

# spa devices handled by sys_platform driver
/dev/spa0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa1 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa2 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa3 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/iocp0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)

# htdp devices
/dev/htdp[0-9]* -c gen_context(system_u:object_r:polaris_htdp_device_t,s0)

# /dev/epa device on asr1k(mcp)
/dev/epa[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)
/dev/epactrl[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)

# /dev/luna_fpga on asr1k(mcp)
/dev/luna_fpga -c gen_context(system_u:object_r:polaris_luna_fpga_device_t,s0)

# /dev/dash_fpga device on fugazi(mcp)
/dev/dash_fpga -c gen_context(system_u:object_r:polaris_dash_fpga_device_t,s0)
/dev/dash_fpga_cc0 -c gen_context(system_u:object_r:polaris_dash_fpga_device_t,s0)

# /dev/astro on asr1k(mcp)
/dev/astro -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

# /dev/oob_evfc on asr1k(mcp)
/dev/oob.evfc -c gen_context(system_u:object_r:polaris_oob_evfc_device_t,s0)

# /dev/cpp_il on asr1k(mcp)
/dev/cpp_il -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)

/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_csr -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_ring -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_mem -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem_page -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

/dev/ds31408 -c gen_context(system_u:object_r:polaris_ds31408_device_t,s0)
/dev/cbdma -c gen_context(system_u:object_r:polaris_cbdma_device_t,s0)
/dev/cpp_htdp -c gen_context(system_u:object_r:polaris_cpp_htdp_device_t,s0)
/dev/n2_device -c gen_context(system_u:object_r:polaris_n2_device_t,s0)
/dev/cy2213 -c gen_context(system_u:object_r:polaris_cy2213_device_t,s0)
Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismcp.fc
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dnl

dnl April 2018, Victor Kamensky

dnl

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dnl
dnl divert(-1)

include('polaris_process.m4')

include('polaris_database_db.m4')
include('polaris_database_db_if.m4')

include('polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
## <summary>Polaris Platform DB Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_database_if.m4
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

comment(policy_module(polariscxp, 1.0);)

gen_require(''
    type polaris_cxp_t;
')
polaris_chasfs_read(polaris_cxp_t)
polaris_cpld_read(polaris_cxp_t)
logging_send_syslog_msg(polaris_cxp_t)
# vconfd_load_shared_schemas
polaris_conf_shared_schema_read(polaris_cxp_t)

corecmd_exec_bin(polaris_cxp_t)
corecmd_exec_shell(polaris_cxp_t)
auth_use_nsswitch(polaris_cxp_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_cxp_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_cxp_t)

# /var/run/cxp dir and pid
type polaris_cxp_var_run_t;
files_pid_file(polaris_cxp_var_run_t)
manage_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_dirs_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_sock_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
files_pid_filetrans(polaris_cxp_t, polaris_cxp_var_run_t, { file dir sock_file })
polaris_ttm_var_sock_write(polaris_cxp_t)

# vip_execute_nowait uses setpgid
allow polaris_cxp_t self:process setpgid;

# cxp may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_cxp_t)

# Allow /usr//expd manages /usr/binos/conf/global.service.conf and
# /tmp/tdlresolve/
polaris_tdlresolve_manage(polaris_cxp_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscxp.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
policy_module(polarisofa, 1.0);

gen_require(“}
type polaris_ofa_t;
'

polaris_btrace_data_manage(polaris_ofa_t)
polaris_crft_data_manage(polaris_ofa_t)
polaris_chasfs_manage(polaris_ofa_t)
polaris_tdlresolve_read(polaris_ofa_t)
polaris_tdlldb_list_dirs(polaris_ofa_t)
polaris_cpld_read(polaris_ofa_t)
polaris_flashlib_read(polaris_ofa_t)

allow polaris_ofa_t self:capability sys_admin;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisofa.te
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#
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#
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#

/tmp/fp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdlldb_t,s0)
/tmp/rp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdlldb_t,s0)
/tmp/cc/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdlldb_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristdlldb.fc
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#

policy_module(polarisdmidmiamdh, 1.0);

gen_require("
    type polaris_dmi_dmiamdh_t;
"

polaris_btrace_data_manage(polaris_dmi_dmiamdh_t)
polaris_crft_data_manage(polaris_dmi_dmiamdh_t)
polaris_chasfs_manage(polaris_dmi_dmiamdh_t)
polaris_tdlresolve_read(polaris_dmi_dmiauthd_t)
polaris_tdlldb_list_dirs(polaris_dmi_dmiauthd_t)
polaris_cpld_read(polaris_dmi_dmiauthd_t)
polaris_flashlib_read(polaris_dmi_dmiauthd_t)

polaris_ripc_sman_ui_serv_connect(polaris_dmi_dmiauthd_t)
polaris_db_tdlldb_dir_use(polaris_dmi_dmiauthd_t)

# dmiauthd creates and binds to /tmp/.DmiAuth.socket unix socket
type polaris_dmi_dmiauthd_tmp_t;
files_tmp_file(polaris_dmi_dmiauthd_tmp_t)
files_tmp_filetrans(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, { sock_file fifo_file })
manage_sock_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)
manage_fifo_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)

# dmiauthd creates diagnostic files in /tmp/netconf-yang-diag
type polaris_dmi_dmiauthd_tmp_diags_t;
files_tmp_file(polaris_dmi_dmiauthd_tmp_diags_t)
files_tmp_filetrans(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_diags_t, dir, "netconf-yang-diag")
polaris_dmiauthd_tmp_diags_manage(polaris_dmi_dmiauthd_t)

logging_send_syslog_msg(polaris_dmi_dmiauthd_t)

# read confd log file and push into btrace
polaris_confd_log_read(polaris_dmi_dmiauthd_t)

# from dmilib iosp_connect through libiosp iosp_token_read_from_file
# iosp_token_read_from_file reads /tmp/rp/.iosp_dmiauthd
polaris_dmiauthd_token_read(polaris_dmi_dmiauthd_t)

gen_require(`
    type polaris_confd_tmp_t;
`)

# This is applicable to wireless platforms running in standby monitoring mode
# wherein dmiauthd create temporary files in /tmp/confd upon switchover and
# trigger ConfD restart.
manage_files_pattern(polaris_dmi_dmiauthd_t, polaris_confd_tmp_t, polaris_confd_tmp_t)
manage_dirs_pattern(polaris_dmi_dmiauthd_t, polaris_confd_tmp_t, polaris_confd_tmp_t)

###########################################################################
# "show netconf-yang diagnostics [all | last | message]" invokes
# /usr/binos/conf/dmid_diag_logs.sh
###########################################################################
polaris_utility_domain_template(dmid_diag_logs)
polaris_bexecute_domtrans(polaris_dmi_dmiauthd_t)
polaris_bexecute_domain(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_exec_t)

# signal sent during the show cmd
polaris_send_signal_to_bexecute(polaris_dmi_dmiauthd_t)

# read files in /tmp/netconf-yang-diag
polaris_dmiauthd_tmp_diags_read(polaris_dmid_diag_logs_t)

# need write/ioct/getattr access for pipes
polaris_dmiauthd_use_fifo(polaris_dmid_diag_logs_t)

polaris_use_btrace_fifo(polaris_dmid_diag_logs_t)
polaris_btrace_data_manage(polaris_dmid_diag_logs_t)
polaris_chasfs_read(polaris_dmid_diag_logs_t)
polaris_cpld_read(polaris_dmid_diag_logs_t)
dev_read_sysfs(polaris_dmid_diag_logs_t)
auth_use_nsswitch(polaris_dmid_diag_logs_t)
polaris_boot_tmp_read(polaris_dmid_diag_logs_t)
fs_getattr_tmpfs(polaris_dmid_diag_logs_t)

# bash tmp files, such as /tmp/sh-thd-1599654988
type polaris_dmid_diag_logs_tmp_t;
files_tmp_file(polaris_dmid_diag_logs_tmp_t)
files_tmp_filetrans(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, file)
manage_files_pattern(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, polaris_dmid_diag_logs_tmp_t)

# execute /bin/sed
corecmd_exec_bin(polaris_dmid_diag_logs_t)

#########################################################
# Allow diagnostics feature to create log file in bootflash
#########################################################

# execute /bin/tar
corecmd_exec_bin(polaris_dmi_dmiauthd_t)
# tar reads /etc/passwd
auth_use_nsswitch(polaris_dmi_dmiauthd_t)
# create log file in bootflash
polaris_bootflash_manage(polaris_dmi_dmiauthd_t)

#########################################################

allow polaris_dmi_dmiauthd_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmidmiauthd.te
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#

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisgrmgr.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl define(`polaris_lipc_service_server_aux',`dnl
type $1;
files_type($1)
polaris_lipc_$2_create_name($3))

define(`polaris_lipc_service_server_full',`dnl
polaris_lipc_service_server_aux(lipc_label($1), lipc_stem($1), process_label($2))dnl)
)
define(`polaris_lipc_service_server',`dnl
ifelse(lipc_type_map($1), `', `polaris_lipc_service_server_full($1, $2))
lipc_type_map_set(lipc_label($1), process_label($2))
')
)

define(`polaris_lipc_service_client_aux',`dnl
polaris_lipc_$2_write($3, $4))

define(`polaris_lipc_service_client',`dnl
polaris_lipc_service_client_aux(lipc_label($1), lipc_stem($1), process_label($2), lipc_type_map(lipc_label($1)))dnl)
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_lipc_te.m4
No license file was found, but licenses were detected in source scan.

# # September 2017, Victor Kamensky
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## <summary>Polaris polarisbtman Policy Rules.</summary>

### <summary>Execute fs tools in the btrace_rotate domain. </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>

```c
interface(`polaris_btrace_rotate_domtrans',
  gen_require(`
    type polaris_btman_t, polaris_btman_exec_t;
  ')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_btman_exec_t, polaris_btman_t)
')
```

### <summary>Read /tmp/tmppub files/dirs</summary>
### <param name="domain">
### Domain allowed access.
### </param>

```c
interface(`polaris_btrace_tmppub_read',
  gen_require(`
    type polaris_btrace_tmppub_t;
  ')

read_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
read_lnk_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
list_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
')
```

### <summary>Manage /tmp/tmppub files/dirs</summary>
### <param name="domain">

```c
```
## Domain allowed access.

```
interface('polaris_btrace_tmppub_manage',
    gen_require(''
        type polaris_btrace_tmppub_t;
    '))

    manage_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
    manage_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
')
```

## Read and write all btman's fifo file, used as standard input/output.

```
interface('polaris_use_btman_fifo',
    gen_require(''
        type polaris_btman_t;
    '))

    allow $1 polaris_btman_t:fifo_file { rw_term_perms lock append create unlink };)
```

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```
## Polaris fpm Policy Rules.
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbtman.if

No license file was found, but licenses were detected in source scan.
## <summary>
## Write fpm /var/run socket file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_fpm_var_sock_write',
  gen_require(
    type polaris_fpm_t;
    type polaris_fpm_var_run_t;
    type var_run_t;
  )
  write_sock_files_pattern($1, var_run_t, polaris_fpm_var_run_t)
  allow $1 polaris_fpm_t:unix_stream_socket { connectto };
')

#################################################
## <summary>
## Manage mqipc fpm2fmrp shared memory file in /dev/shm directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_fpm2fmrp_mqipc_use',
  gen_require(
    type polaris_fpm2fmrp_mqipc_t;
  )
  polaris_mqipc_use($1, polaris_fpm2fmrp_mqipc_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisfpm.if
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/tmp/tmppub(/.*)? gen_context(system_u:object_r:polaris_btrace_tmppub_t,s0)
# btrace utility to rotate logs
/usr/binos/bin/btman_rotate_immediate -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)

# btrace utility to dump meta data
/usr/binos/bin/dump_btrace_meta  -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbtman.fc
No license file was found, but licenses were detected in source scan.

#
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#  
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#

policy_module(polaris_ttm, 1.0);

gen_require(
    type polaris_ttm_t;
')
polaris_chasfs_read(polaris_ttm_t)
polaris_cpld_read(polaris_ttm_t)

logging_send_syslog_msg(polaris_ttm_t)

# vconfd_load_shared_schemas
polaris_conf_shared_schema_read(polaris_ttm_t)

# /var/run/.ttmd socket and pid

type polaris_ttm_var_run_t;
files_pid_file(polaris_ttm_var_run_t)
manage_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
manage_sock_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
files_pid_filetrans(polaris_ttm_t, polaris_ttm_var_run_t, { file sock_file })

# allow /usr/binos/bin/ttmd to acces polaris_tdlresolve_t and
#          polaris_global_service_t
polaris_tdlresolve_manage(polaris_ttm_t)

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristtm.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
### <summary>Polaris flashcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisflashcheck.if
No license file was found, but licenses were detected in source scan.

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#
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#

### <summary>Polaris cfgmgr Policy Rules.</summary>

```
interface(`polaris_cfgmgr_var_sock_write',`
   gen_require(`
      type polaris_cfgmgr_t;
      type polaris_cfgmgr_var_run_t;
      type var_run_t;
   `)
   write_sock_files_pattern($1, var_run_t, polaris_cfgmgr_var_run_t)
   allow $1 polaris_cfgmgr_t:unix_stream_socket { connectto };
`)
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscfgmgr.if
No license file was found, but licenses were detected in source scan.

# December 2018, Victor Kamensky
#
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#
#
## <summary>Polaris ezman_cc Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisezmancc.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/oom.sh -- gen_context(system_u:object_r:polaris_oom_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisoom.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarismqipc, 1.0);

attribute polaris_mqipc;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismqipc.te
No license file was found, but licenses were detected in source scan.

#
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#
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#

policy_module(polariscedgestart, 1.0);

gen_require(
    type polaris_cedge_start_t;
polaris_chasfs_manage(polaris_cedge_start_t)
polaris_boot_tmp_read(polaris_cedge_start_t)
polaris_bootflash_manage(polaris_cedge_start_t)
polaris_cpld_read(polaris_cedge_start_t)
polaris_flashlib_read(polaris_cedge_start_t)
polaris_rmonbifo_tmp_read(polaris_cedge_start_t)
polaris_btrace_tmppub_read(polaris_cedge_start_t)

# needed by install_util.sh
polaris_read_packages_conf(polaris_cedge_start_t)

corecmd_exec_bin(polaris_cedge_start_t)
corecmd_exec_shell(polaris_cedge_start_t)
auth_use_nsswitch(polaris_cedge_start_t)

polaris_dmi_ports_fetch_domtrans(polaris_cedge_start_t)

# runs ps -C cfgmgr -o pid=
# ps needs access to proc_t
kernel_read_system_state(polaris_cedge_start_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_cedge_start_t)
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_cedge_start_t)

# runs vip-confd-startup.sh needs transition into polaris_conf_t domain
polaris_confdomtrans(polaris_cedge_start_t)

# runs systemctl start logrotate.service
systemd_exec_systemctl(polaris_cedge_start_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_cedge_start_t)

# runs install_assist.sh
polaris_install_engine_domtrans(polaris_cedge_start_t)

# write /bootflash/installer/images/pkg_boot_17.3.01/version
polaris_disk_install_manage(polaris_cedge_start_t)
gen_require(
    type polaris_disk_install_t;
')

# du -s /bootflash/installer/images/pkg_boot_17.3.01/confd0/cdb
allow polaris_cedge_start_t polaris_disk_install_t:filesystem getattr;
# chown -R binos /bootflash/sdwan
fs_getattr_xattr_fs(polaris_cedge_start_t)

allow polaris_cedge_start_t self:capability { chown fowner net_admin };

# PLEASE LOOK AT ME cedge_start.sh modifies set of directories that
# are supposed to be read only, like usr_t, etc_t, root_t
files_rw_usr_dirs(polaris_cedge_start_t)
gen_require('type usr_t;
')
manage_lnk_files_pattern(polaris_cedge_start_t, usr_t, usr_t)

libs_manage_lib_dirs(polaris_cedge_start_t)
gen_require('type lib_t;
')
manage_lnk_files_pattern(polaris_cedge_start_t, lib_t, lib_t)
files_manage_etc_symlinks(polaris_cedge_start_t)
files_manage_var_symlinks(polaris_cedge_start_t)
# creates /home directory in root
gen_require('type root_t;
')
manage_dirs_pattern(polaris_cedge_start_t, root_t, root_t)
manage_lnk_files_pattern(polaris_cedge_start_t, root_t, root_t)
# creates /var/log/sdwan
gen_require('type var_log_t;
')
manage_dirs_pattern(polaris_cedge_start_t, var_log_t, var_log_t)
manage_lnk_files_pattern(polaris_cedge_start_t, var_log_t, var_log_t)
corecmd_manage_bin_files(polaris_cedge_start_t)

# PLEASE LOOK AT ME copy unit files into /lib/systemd/system
# cp /tmp/sw/rp/00/rp_daemons/mount/lib/systemd/system/logrotate.service /lib/systemd/system
gen_require('type systemd_unit_file_t;
')
read_lnk_files_pattern(polaris_cedge_start_t, systemd_unit_file_t, systemd_unit_file_t)

# PLEASE LOOK AT ME need to have separate label for logrotate.service
# allow only to start if, do it once copy of logrotate.service is fixed
systemd_config_generic_services(polaris_cedge_start_t)
init_start(polaris_cedge_start_t)

# creates /var/log/confd
polaris_confd_var_log_manage(polaris_cedge_start_t)
# executes touch /etc/resolv.conf for case when it is missing
# check create_etc_resolv_conf make sure that it becomes net_conf_t
gen_require(
    type net_conf_t;
)
files_etc_filetrans(polaris_cedge_start_t, net_conf_t, file, "resolv.conf")
sysnet_create_config(polaris_cedge_start_t)
sysnet_write_config(polaris_cedge_start_t)

# creates /var/confd0 when box boots with startup config disabled
polaris_confd_var_filetrans(polaris_cedge_start_t, dir, "confd0")
polaris_confd_var_dir_manage(polaris_cedge_start_t)

# During controller-mode enablement/bringup,
# viptela scripts are not loaded as part of the base packages.
# viptela-start.sh script takes care of creating these references.
# It creates softlink copies them as below to desired location depending on the packaging (mono vs subpackage).
# "cp SPKG_PATH/lib/systemd/system/logrotate.service /lib/systemd/system"
# Below policy statement allow copy access needed for viptela-logrotate.sh
# for updating /lib/systemd/system and /usr/binos/conf path
write_files_pattern(polaris_cedge_start_t, systemd_unit_file_t, systemd_unit_file_t)

# While creating softlink as below
# "ln -sf SPKG_PATH/usr/binos/conf/viptela-logrotate.sh /usr/binos/conf/viptela-logrotate.sh"
# As the ln command tries to create the new link, it removes the already existing link.
# If ln deletes the file associated with the path name if this path name is the last link to the file.
# If ln can't get rid of the conflicting path name, it does not attempt to establish the new link.
# If ln successfully removes the conflicting path name, it then establishes the link.
# delete file permissions are hence needed for ln command to perform unlinking previous link
files_delete_etc_files(polaris_cedge_start_t)

# During cEdge upgrade, viptela-start.sh needs permissions to maintain the
# state of roll back timer in /bootflash/.rollback_timer/*
polaris_rbtimer_bootflash_manage(polaris_cedge_start_t)

#Nutella-XE - Vedge image install
#/bin/bash /tmp/sw/rp/0/0/rp_security/mount/usr/binos/conf/viptela-start.sh
mount_domtrans(polaris_cedge_start_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscedgestart.te
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
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# All rights reserved
#
# polarisfnfagg file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisfnfagg.fc
No license file was found, but licenses were detected in source scan.

# January 2021, Gabriel Lee, Shawn Liu
#
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#

/ezManage_v1/ezManage_sms_handler.py -- gen_context(system_u:object_r:polaris_ezmanage_exec_t,s0)

/ezManage_v1/(.*)?                      gen_context(system_u:object_r:polaris_ezmanage_file_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisezmanage.fc
No license file was found, but licenses were detected in source scan.

# June 2017, Victor Kamensky
#
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#

policy_module(polariscaf, 1.0);

gen_require(
    type polaris_caf_t;
    type polaris_caf_exec_t;
    type usr_t;
)

ifdef(`nyquist_platform',`
    gen_require(
        type polaris_sioxcd_rp_t;
    )
    # Allow read of /etc/passwd
    auth_map_passwd(polaris_sioxcd_rp_t)

)
# Allow usage of ls in helper script
corecmd_exec_bin(polaris_sioxcd_rp_t)

# Allow sysfs read
dev_list_sysfs(polaris_sioxcd_rp_t)

# Allow create/write/open of files under tmp
type polaris_sioxcd_rp_tmp_t;
files_tmp_file(polaris_sioxcd_rp_tmp_t)
files_tmp_filetrans(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, { dir file })
manage_dirs_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_fifo_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)

# Allow losetup in helper script to run in its own domain
fstools_domtrans(polaris_sioxcd_rp_t)

# Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)

# Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

# Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)

# Allow iox_polaris.conf read
polaris_caf_files_read(polaris_sioxcd_rp_t)

# Allow chasfs access
polaris_chasfs_manage(polaris_sioxcd_rp_t)

# Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

# Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

# Allow cats /tmp/sw/boot/rmonbifo/boardssubtype
polaris_rmonbifo_tmp_read(polaris_sioxcd_rp_t)

# Allow console logging
term_open_unallocated_ttys(polaris_sioxcd_rp_t)

# Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource };

# Transition to chvrf domain needed by push_using_rsync
# Allow flashutil
polaris_flashlib_read(polaris_sioxcd_rp_t)

# logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kernel_read_system_state(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy(^
polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
^
)

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)

# Allow getattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)

polaris_chasfs_manage(polaris_caf_t)
polaris_btrace_data_manage(polaris_caf_t)
polaris_cpld_read(polaris_caf_t)
polaris_boot_tmp_read(polaris_caf_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_caf_t)

corecmd_exec_bin(polaris_caf_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_caf_t)

# run-caf.sh invokes startup.py. This leads to node_t:tcp_socket node_bind
corennet_tcp_bind_generic_node(polaris_caf_t)

allow polaris_caf_t self:capability { net_admin sys_resource };
allow polaris_caf_t self:tcp_socket { accept listen create_socket_perms };
allow polaris_caf_t self:udp_socket create_socket_perms;
allow polaris_caf_t self:unix_dgram_socket { create_socket_perms sendto }
allow polaris_caf_t self:cap_users { sys_admin sys_ptrace setgid setuid sys_chroot }

# df needs to have getattr on many file/dir/fs
fs_getattr_all_fs(polaris_caf_t)
fs_getattr_all_files(polaris_caf_t)
files_getattr_all_dirs(polaris_caf_t)
device_getattr_all_chr_files(polaris_caf_t)
files_getattr_all_mountpoints(polaris_caf_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_caf_t)

# allow execution of /usr/sbin/brctl
brctl_domtrans(polaris_caf_t)

#allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_caf_t)
fs_list_cgroup_dirs(polaris_caf_t)

# add new type for /guestshell files and allow CAF to manage them
type polaris_guestshell_t;
files_type(polaris_guestshell_t)
manage_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_link_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_dirs_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

#required to support, guestshell enable, which creates <iox-storage>/iox/repo/guestshell
relabelto_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

# run_ioxn_caf.sh invokes run-caf.sh which executes "ip"
sysnet_domtrans_ifconfig(polaris_caf_t)
# allow netns operations
sysnet_manage_ifconfig_run(polaris_caf_t)

libs_domtrans_ldconfig(polaris_caf_t)

# add new type for /bootflash/iox files and allow CAF to manage them
type polaris_iox_files_t;
polaris_disk_type(polaris_iox_files_t)
polaris_iox_files_manage(polaris_caf_t)

# need open, read, ioctl, getattr on /bootflash/debug.conf
polaris_read_debug_conf(polaris_caf_t)

# run_ioxn_caf.sh cats /tmp/sw/boot/monbifo/boardsubtype
polaris_monbifo_tmp_read(polaris_caf_t)
# pvsm_cpu.sh reads /tmp/cgroup.log
optional_policy(
    polaris_vman_tmp_manage(polaris_caf_t)
')

# allow to read /proc/cpuinfo
kernel_read_system_state(polaris_caf_t)

optional_policy(
    container_runtime_domtrans(polaris_caf_t)
')

# add new type for /opt/cisco/caf files and allow CAF to manage them
type polaris_caf_files_t;
files_type(polaris_caf_files_t)
files_root_filetrans(polaris_caf_t, polaris_caf_files_t, dir)
files_root_filetrans(polaris_caf_t, polaris_caf_exec_t, dir, "scripts")
manage_dirs_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_lnk_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)

gen_require(
    type polaris_hm_t;
')
polaris_caf_files_read(polaris_hm_t)

# this label is created for sharing of core file dirs between host and containers
type polaris_caf_core_files_t;
polaris_disk_type(polaris_caf_core_files_t)
# transition /local files and dirs
files_root_filetrans(polaris_caf_t, polaris_caf_core_files_t, dir, "local")
polaris_btrace_data_manage(polaris_caf_core_files_t)
manage_files_pattern(polaris_caf_core_files_t, usr_t, usr_t)

# manage local core files between host and container
polaris_caf_local_core_files_manage(polaris_caf_t)
polaris_caf_local_core_files_manage(brctl_t)

# run_ioxn_caf.sh invokes startup.py that eventually through resourcemanager.py
# calls cpu_count_logical function in order to get number of cores and which
# needs read access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_caf_t)

# run-caf.sh modifies iox_polaris.conf; backup is saved due to "sed-i.bak".
# in order to preserve security context, setfscreate is invoked
allow polaris_caf_t self:process setfscreate;

# work with /var/log/caf/ files
type polaris_caf_log_t;
logging_log_file(polaris_caf_log_t)
manage_files_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "caf")
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "docker")
corenet_tcp_bind_polaris_caf_api_port(polaris_caf_t)

virt_stream_connect(polaris_caf_t)
virt_read_config(polaris_caf_t)

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_caf_t)

# allow access to /etc/guestshell_rsa_key* files
type polaris_guestshell_ssh_key_t;
files_type(polaris_guestshell_ssh_key_t)
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key")
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key.pub")
manage_files_pattern(polaris_caf_t, polaris_guestshell_ssh_key_t, polaris_guestshell_ssh_key_t)

# add new type for "internal" temp files created by underlying python modules when
# user-level python scripts (e.g., run_ioxn_caf.sh, run-caf.sh, etc) performs init;
# we are now creating them using TMPDIR=/tmp/caf; and, allow CAF to manage these
# internal temp files; in addition, underlying python-infra invokes __mmap() that
# somehow translates to.... execute stuff like "/tmp/caf/#97893 (deleted)"
type polaris_caf_tmp_files_t;
files_tmp_file(polaris_caf_tmp_files_t)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, dir)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, file)
manage_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)

# python through libffi tries to mmap open file with PROT_EXEC, it triggers need
# for execute permission
allow polaris_caf_t polaris_caf_tmp_files_t:file execute;
allow polaris_caf_t polaris_caf_tmp_files_t:file map;

# python3 seems to do a setxattr syscall
# A folder like /bootflash/iox/repo/guestshell/extract_archive
# contains files that are extracted from a tarball and are
# made polaris_caf_tmp_files_t because of the files_tmp_filetrans rule
relabel_files_pattern(polaris_caf_t, polaris_iox_files_t, polaris_iox_files_t)
relabel_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)

# allow to run e2fsck in its own domain
fstools_domtrans(polaris_caf_t)
# allow to run mount in its own domain
mount_domtrans(polaris_caf_t)

# add new type for /guestshell/*.sh files
type polaris_guestshell_exec_t;
files_type(polaris_guestshell_exec_t)

# add new type for /var/run/netns/guestshell
type polaris_guestshell_var_run_t;
files_type(polaris_guestshell_var_run_t)

# add new type for /var/run/cisco_cli
type polaris_caf_var_run_t;
files_pid_file(polaris_caf_var_run_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
manage_files_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
files_pid_filetrans(polaris_caf_t, polaris_caf_var_run_t, { file dir })

# Intermediate step: When CAF unpacks the contents of the application
# you upload, it will stage the contents somewhere and verify some checks
# (filesystem check on the disk image, existence of several folders, etc.). Disk
# images are mounted without any label since CAF has not generated security
# labels yet for the app at this point. The disk gets unmounted and eventually
# gets mounted again with the proper context/label.
type polaris_disk_caf_t;
polaris_disk_type(polaris_disk_caf_t)
list_dirs_pattern(polaris_caf_t, polaris_disk_caf_t, polaris_disk_caf_t)

allow polaris_caf_t self:capability { chown dac_override fowner fsetid setfcap sys_chroot sys_ptrace };
allow polaris_caf_t self:process setcap;
fs_read_nsfs_files(polaris_caf_t)

# caf to manage loop device: finding free /dev/loopN device
dev_rw_loop_control(polaris_caf_t)

# PLEASE LOOK AT ME
# allow caf to read, write /dev/loopN devices that are
# under fixed_disk_device_t label. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_caf_t)

# caf executing chroot via bash
gen_require(`
  type svirt_sandbox_file_t;
')
allow polaris_caf_t svirt_sandbox_file_t:file { execute execute_no_trans };
gen_require(
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
)
setattr_dirs_pattern(polaris_caf_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
# replicating policy done for polaris_disk_bootflash_t
setattr_dirs_pattern(polaris_caf_t, polaris_disk_harddisk_t, polaris_disk_harddisk_t)

# caf connects to its own port 8098
corenet_tcp_connect_polaris_caf_api_port(polaris_caf_t)

virt_manage_sandbox_files(polaris_caf_t)

kernel_read_network_state(polaris_caf_t)

polaris_bootflash_manage(polaris_caf_t)
polaris_bootflash_files_mmap(polaris_caf_t)
# allow polaris_disk_harddisk_t manage like polaris_disk_bootflash_t
polaris_harddisk_manage(polaris_caf_t)

# caf execve virsh
gen_require(
    type virsh_t;
    type virsh_exec_t;
)
domtrans_pattern(polaris_caf_t, virsh_exec_t, virsh_t)
# virsh needs to read /opt/cisco/caf/scripts/ieobcbr.xml
polaris_caf_files_read(virsh_t)

# caf calls tipc-config that works with tipc sockets
allow polaris_caf_t self:socket create_socket_perms;
allow polaris_caf_t self:netlink_generic_socket { create_socket_perms sendto recvfrom };

# get and set attrs on httpd_var_run_t under /bootflash/iox
gen_require(
    type httpd_var_run_t;
)
getattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
setattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
# allow TCP connection for http port e.g. Local Manager
corenet_tcp_connect_http_port(polaris_caf_t)

# execute lvm commands, like lvs
lvm_domtrans(polaris_caf_t)

polaris_disk_crashinfo_getattr(polaris_caf_t)
optional_policy(“}
polaris_ncl_tmp_read(polaris_caf_t)
')
logging_send_syslog_msg(polaris_caf_t)

# tries to load KLM like cuse, fuse, overlay
modutils_domtrans_insmmod(polaris_caf_t)

# modifies files under /var/www/features/iox
apache_manage_sys_content(polaris_caf_t)

# caf reads version of ioxman from its executable
polaris_ioxman_exec_read(polaris_caf_t)

polaris_ioxman_show_version(polaris_caf_t)

type polaris_iox_alt_hdd_files_t;
files_type(polaris_iox_alt_hdd_files_t)
polaris_pfile_type(polaris_iox_alt_hdd_files_t)
polaris_iox Alt_hdd Manage(polaris_caf_t)

# On stargazer platform /vol/disk0 is used by iox to create below dirs.
# On nyquist platform /vol/usb1 with polaris_disk_harddisk_t is used
# Transition them to appropriate labels.
gen_require('
    type container var lib t;
');

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_har ddisk_t polaris_iox_alt_hdd_files_t },
polaris_iox_files_t, dir, "iox")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_har ddisk_t polaris_iox_alt_hdd_files_t },
polaris_caf_tmp_files_t, dir, "caf")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_har ddisk_t polaris_iox_alt_hdd_files_t 
polaris_iox_files_t }, container var lib t, dir, "docker")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_har ddisk_t polaris_iox_alt_hdd_files_t 
polaris_iox_files_t, dir, "iox data share")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_har ddisk_t polaris_iox_alt_hdd_files_t 
polaris_iox_files_t, dir, "iox host data share")

# Allow files under guest-share directory which is shared between ios
# and container
type polaris_iox_shared_files_t;
files_type(polaris_iox_shared_files_t)
polaris_pfile_type(polaris_iox_shared_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t)
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_har ddisk_t polaris_iox_alt_hdd_files_t },
polaris_iox_shared_files_t, dir, "guest-share")
# Allow signature verification of applications

gen_require(
    type polaris_code_verify_t;
')
polaris_iox_files_manage(polaris_code_verify_t)

# allow caf to control /tmp/trace/resource.log
polaris_iox_manage_tmp_files(polaris_caf_t)

# some utility running under caf needs access to /varied/ovf-env.xml
polaris_disk_varied_read(polaris_caf_t)

# caf reads the udev information

gen_require(
    type udev_var_run_t;
')
manage_files_pattern(polaris_caf_t, udev_var_run_t, udev_var_run_t)


gen_require(
    type virtd_lxc_t;
')
allow polaris_caf_t virtd_lxc_t:process signull;

polaris_removable_manage(polaris_caf_t)
polaris_lm_tmp_read(polaris_caf_t)

# caf modifies /etc/cgroup_params.txt
files_manage_etc_files(polaris_caf_t)

# read /tmp/iox_override.conf created by ioxman
polaris_iox_read_tmp_files(polaris_caf_t)

# python udev library used by caf
allow polaris_caf_t self:netlink_kobject_uevent_socket { bind create getattr setopt }

#need access to rawip socket by pd_iox.sh
allow polaris_caf_t self:capability { net_raw setgid }
allow polaris_caf_t self:rawip_socket { create getopt setopt }

# LOOK AT ME caf leaks fifo file descriptors need permissions for
# domains that started by it

gen_require(
    type iptables_t;
')
allow iptables_t polaris_caf_t:fifo_file { read write append getattr }

# allow iptables_t users permissions for IP accessed by the script guestshell_setup.sh
allow iptables_t self:cap_users { net_admin net_raw }
container_stream_connect(polaris_caf_t)

gen_require(
    type pki_ca_port_t;
')
allow polaris_caf_t pki_ca_port_t:tcp_socket name_connect;

polaris_flashlib_read(polaris_caf_t)
    polaris_flashlib_write(polaris_caf_t)
    polaris_contdev_dev_read(polaris_caf_t)

gen_require(
    type rsync_exec_t;
    type rsync_port_t;
')
allow polaris_caf_t rsync_exec_t:file { execute execute_no_trans getattrs map open read };
allow polaris_caf_t rsync_port_t:tcp_socket name_connect;

# IOX uses rsync to sync the data
gen_require(
    type rsync_t;
')
rsync_entry_domtrans(polaris_caf_t, rsync_t)
    polaris_manage_rsync_tmplog_dir(polaris_caf_t)
allow rsync_t polaris_caf_t:fifo_file { getattrs write };

    kernel_search_network_sysctl(polaris_caf_t)
    kernel_rw_net_sysctls(polaris_caf_t)
    dev_rw_sysfs(polaris_caf_t)

# Allow run-caf.sh to configure byte_queue_limits/limit_min for KR port
gen_require(
    type sysfs_t;
')
allow polaris_caf_t sysfs_t:file create;
    dev_manage_sysfs_dirs(polaris_caf_t)

# CAF needs access to setup for containers
manage_dirs_pattern(polaris_caf_t, self, self)
    fs_associate_proc(polaris_caf_t)

# guestshell_setup.sh reads /proc/sys/kernel/core_pattern
    kernel_read_usermodehelper_state(polaris_caf_t)
# and then guestshell_setup.sh reads /tmp/corelink
    gen_require(
        type initrc_tmp_t;
')
allow polaris_caf_t initrc_tmp_t:lnk_file read;
# Beluga/Meraki container
ifdef(`ms_platform',`
polaris_iox_container_domtrans(polaris_caf_t)
')

# Bottlenose/Meraki container
ifdef(`bottlenose_platform',`
polaris_iox_container_domtrans(polaris_caf_t)
')

#allow run_ioxn_caf.sh to modify /etc/docker/daemon.json, etc.
container_manage_config_files(polaris_caf_t)

# Manage IOx Secure storage CC files
type polaris_iox_ss_disk_t;
files_type(polaris_iox_ss_disk_t)
polaris_pfile_type(polaris_iox_ss_disk_t)

#Guestshell management
virt_signull(polaris_caf_t)

gen_require(`
   type ifconfig_t;
')

# allow ifconfit_t usersns permissions for IP
allow ifconfig_t self:cap_usersns { net_admin sys_admin sys_ptrace };

# allow ifconfig_t to transition into dhcpc domain
sysnet_domtrans_dhcpc(ifconfig_t)

# Being an IOSP client does not allow for setattr permissions
gen_require(`
    type polaris_iosd_portal_app_lipc_t;
')
setattr_sock_files_pattern(polaris_caf_t, polaris_iosd_portal_app_lipc_t, polaris_iosd_portal_app_lipc_t)

ifdef(`passport_platform',`

gen_require(`
   type polaris_sioxcd_rp_t;
')

ifdef(`passport_platform',`

# Allow read of /etc/passwd
auth_map_passwd(polaris_sioxcd_rp_t)

# Allow usage of ls in helper script
corecmd_exec_bin(polaris_sioxcd_rp_t)
# Allow sysfs read
dev_list_sysfs(polaris_sioxcd_rp_t)

# Allow create/write/open of files under tmp
type polaris_sioxcd_rp_tmp_t:

files_tmp_file(polaris_sioxcd_rp_tmp_t)
files_tmp_filetrans(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, { dir file } )
manage_dirs_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_fifo_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)

# Allow losetup in helper script to run in its own domain
fstools_domtrans(polaris_sioxcd_rp_t)
#
## Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)
#
## Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

## Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)

## Allow iox_polaris.conf read
polaris_caf_files_read(polaris_sioxcd_rp_t)
#
## Allow chasfs access
polaris_chasfs_manage(polaris_sioxcd_rp_t)

## Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

## Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

## Allow cats /tmp/sw/boot/monbifo/board_subtype
polaris_monbifo_tmp_read(polaris_sioxcd_rp_t)

## Allow console logging
term_open_unallocated_ttys(polaris_sioxcd_rp_t)

## Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource };

## Transition to chvrf domain needed by push_using_rsync
polaris_chvrf_domtrans(polaris_sioxcd_rp_t)
# Allow flashutil
polaris_flashlib_read(polaris_sioxcd_rp_t)

# iptables execute in its own domain
iptables_domtrans(polaris_caf_t)

# logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kernel_read_system_state(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy(`
polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
`)

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)

# Allow getattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)

# Allow sync_data to use chvrf
polaris_chvrf_domtrans(polaris_caf_t)

# tty device and link files under /dev
type polaris_caf_tty_file_t;
dev_node(polaris_caf_tty_file_t)
dev_filetrans(polaris_caf_t, polaris_caf_tty_file_t, lnk_file)
term_use_ptmx(polaris_caf_t)
polaris_caf_tty_link_manage(polaris_caf_t)
polaris_caf_chr_file_read(polaris_caf_t)

polaris_iosd_vcpu_read(polaris_caf_t)

# Allow access starting/stoping iox
polaris_chasfs_read(iptables_t)
polaris_chasfs_read(ifconfig_t)
polaris_hman_use_fifo(polaris_caf_t)
iptables_domtrans(polaris_caf_t)
# Allow application signature verification
polaris_code_verify_domtrans(polaris_caf_t)

#access /proc/rmbonbifo file cat9k-ioxhelper.sh
polaris_proc_rmonbifo_read(polaris_caf_t)

gen_require(`
    type dhcpc_t;
`)

# allow these userns capabilities for dhcp
allow dhcpc_t self:cap_userns { net_raw net_bind_service };

# allow CAF to transition to dhcp e.g. dhclient_custom.sh
sysnet_domtrans_dhcpc(polaris_caf_t)

# allow reading of dhcp configuration files e.g.
# /vol/usb1/iox/repo-docker/perfsonar1/dhcp/dhcp_eth0.conf
polaris_caf_files_read(dhcpc_t)

# allow writing of dhcp lease files e.g. eth0ipv4.lease
polaris_iox_files_manage(dhcpc_t)

# allow dhcp domain to transition back into CAF e.g. dhclient_custom.sh
polaris_caf_domtrans(dhcpc_t)

# Allow read container share files
container_read_share_files(polaris_caf_t)

# Allow manage container files
gen_require(`
    type container_file_t;
    type container_share_t;
    type container_log_t;
`)

mmap_files_pattern(polaris_caf_t, container_file_t, container_file_t)
manage_files_pattern(polaris_caf_t, container_file_t, container_file_t)

manage_chr_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_fifo_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_sock_files_pattern(polaris_caf_t, container_share_t, container_share_t)

manage_files_pattern(polaris_caf_t, container_log_t, container_log_t)

# Allow polaris caf to set attributes of device nodes of fuse devices
gen_require(`
    type fuse_device_t;
`)
allow polaris_caf_t fuse_device_t:chr_file setattr;

# Allow polaris caf to set attributes of TUN/TAP virtual network device
gen_require(`
type tun_tap_device_t;

')
allow polaris_caf_t tun_tap_device_t:chr_file setattr;

# Allow operations on fifo file
type fifo_var_run_t;
# make sure /tmp/ttyF0 is labeled correctly
files_tmp_file(fifo_var_run_t)
files_tmp_filetrans(polaris_caf_t, fifo_var_run_t, fifo_file)
manage_fifo_files_pattern(polaris_caf_t, fifo_var_run_t, fifo_var_run_t)

# allow udev read operations
polaris_udev_tmp_read(polaris_caf_t)

# allow link file for tmpfs_t
allow polaris_caf_t tmpfs_t:lnk_file create;

############################
# IOx Secure storage service policies
############################
optional_policy(
  gen_require(
    type polaris_ioxss_rp_t;
    type polaris_sort_files_t;
    type polaris_iosd_t;
  )
  type polaris_ioxss_rp_tmp_t;
  files_tmp_file(polaris_ioxss_rp_tmp_t)
  files_tmp_filetrans(polaris_ioxss_rp_t, polaris_ioxss_rp_tmp_t, file, "ioxss_up")
polaris_ioxss_rp_tmp_manage(polaris_ioxss_rp_t)
polaris_chasfs_read(polaris_ioxss_rp_t)
polaris_lua_read(polaris_ioxss_rp_t)

manage_files_pattern(polaris_ioxss_rp_t, polaris_ioxss_disk_t, polaris_ioxss_disk_t)
allow polaris_sort_files_t polaris_ioxss_disk_t:dir list_dir_perms;
allow polaris_iosd_t polaris_ioxss_disk_t:dir list_dir_perms;

# Allow polaris_sort_files_t getattr of iosd_portal_app_lipc socket file
polaris_iosd_portal_app_lipc_getattr(polaris_sort_files_t)

# allow secure storage server to connect through tcp_socket on port 9000 from system-config.ini
gen_require(
  type http_port_t;
)
allow polaris_ioxss_rp_t self:tcp_socket { bind create listen setopt };
corenet_tcp_bind_http_port(polaris_ioxss_rp_t);
allow polaris_ioxss_rp_t node_t:tcp_socket node_bind;

# allow polaris caf to process signal of dhcpc client
allow polaris_caf_t dhcpc_t:process signal;

# allow secure storage server to connect through socket
allow polaris_ioxss_rp_t self:socket create_socket_perms;

optional_policy(
  # Allow polaris_sort_files_t getattr of container fifo file
gen_require(
    type polaris_sort_files_t;
    type container_file_t;
  ')
getattr_fifo_files_pattern(polaris_sort_files_t, container_file_t, container_file_t)
')

# Clear iox handling
container_manage_lib_files(polaris_caf_t)
container_manage_lib_dirs(polaris_caf_t)
container_manage_share_files(polaris_caf_t)
container_manage_share_dirs(polaris_caf_t)
gen_require(
    type polaris_vs_oper_db_tdldb_t;
    type polaris_tdldb_t;
  ')
manage_files_pattern(polaris_caf_t, polaris_tdldb_t, polaris_vs_oper_db_tdldb_t)

# allow caf to read systemd unit files
systemd_read_unit_files(polaris_caf_t)

# allow restorecon on iox_alt_hdd_mount_dir
seutil_domtrans_setfiles(polaris_caf_t)

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, file, "iox_alt_hdd.dsk")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, dir, "iox_alt_hdd_mount_dir")

allow ifconfig_t polaris_iox_files_t:file { read };

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscaf.te
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#

# /bootflash labels
/bootflash(/.*)?                     gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?                 gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\pub   gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key       gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)?          gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)?                 gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)?                gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/packages.conf             gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /objstore
/objstore(/.*)?                      gen_context(system_u:object_r:polaris_disk_objstore_t,s0)
/dev/shm/sem.objstore_sem           gen_context(system_u:object_r:polaris_objstore_sem_t,s0)

# hanet driver used by vpcgw platform of VXE family
ifdef(`vpcgw_platform',`
/dev/hanet -c gen_context(system_u:object_r:polaris_hanet_device_t,s0)
')

# /csl_p_0
/csl_p_0(/.*)?                       gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_p_1.context
/csl_p_1(/.*)?                       gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_s_0.context
/csl_s_0(/.*)?                       gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /csl_s_1.context
/csl_s_1(/.*)?                       gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /varied
/varied(/.*)?                        gen_context(system_u:object_r:polaris_disk_varied_t,s0)
/varied/install_info                 gen_context(system_u:object_r:polaris_vxeinstall_info_t,s0)
/varied/obfl.*                      gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/varied/grub_cisco_version          gen_context(system_u:object_r:polaris_grubver_t,s0)
/varied/grub(/.*)?                   gen_context(system_u:object_r:boot_t,s0)
/varied/grub2(/.*)?                  gen_context(system_u:object_r:polaris_grub_bios_t,s0)
/varied/vcpu_template.txt           gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)
/sbin/grub*                          gen_context(system_u:object_r:bootloader_exec_t,s0)
# /grubenv
/bootefi/(/.*)? gen_context(system_u:object_r:polaris_grub_efi_t, s0)

# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/lic1 -l gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# umbrella_init.sh executable label
/usr/binos/conf/umbrella_init.sh -- gen_context(system_u:object_r:polaris_umbrella_init_exec_t,s0)

# On ultra_us /cpld_util.sh creates /tmp/chassis. Put this script into the initexec_t domain so
# chasfs transitions properly.
#
cpld_util.sh gen_context(system_u:object_r:initrc_exec_t,s0)

# /config labels
/config(/.*)? gen_context(system_u:object_r:polaris_disk_config_t,s0)
/config/.ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/config/.ssh/ssh_host.*_key.pub gen_context(system_u:object_r:sshd_key_t,s0)
/config/.ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)

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#

policy_module(polarisplugd, 1.0);

gen_require(''
    type polaris_plugd_t;
')
polaris_btrace_data_manage(polaris_plugd_t)
polaris_crft_data_manage(polaris_plugd_t)
polaris_chasfs_manager(polaris_plugd_t)
polaris_tdlresolve_read(polaris_plugd_t)
polaris_ddlist_dirs(polaris_plugd_t)
polaris_cpld_read(polaris_plugd_t)
polaris_flashlib_read(polaris_plugd_t)
polaris_ripc_sman_ui_serv_connect(polaris_plugd_t)
# originally when box starts /dev/log is symbolic link to /run/systemd/journal/dev-log
# but latter plogd reset links to its own socket: make sure that we have proper
# transition

```c
gen_require(`
    type devlog_t;
    type syslogd_t;
');

allow polaris_plogd_t devlog_t:sock_file manage_sock_file_perms;
allow polaris_plogd_t devlog_t:lnk_file manage_lnk_file_perms;
dev_filetrans(polaris_plogd_t, devlog_t, sock_file, "log")
# make sure that unix_dgram_socket got transitioned into syslogd_t

type_transition polaris_plogd_t polaris_plogd_t:unix_dgram_socket syslogd_t;
allow polaris_plogd_t syslogd_t:unix_dgram_socket { bind create read };
```

# autogen script misses connection between plogd
polaris_ripc_plog_serv_connect(polaris_plogd_t)

# why plogd needs dac_override capability?
allow polaris_plogd_t self:capability { dac_override };
allow polaris_plogd_t self:capability2 block_suspend;

polaris_dyncfg_tmp_read(polaris_plogd_t)

# plogd calls journalctl -f to get system logs including our AVC messages
# plogd also signals running journalctl to manage the buffer queues
```c
gen_require(`
    type journalctl_t;
');

journalctl_domtrans(polaris_plogd_t)
allow polaris_plogd_t journalctl_t:process signal;
```

# should be moved into contrib journalctl.te? journalctl tries to read
# /proc/1/environ
```c
gen_require(`
    type journalctl_t;
');

init_read_state(journalctl_t)
allow journalctl_t self:capability sys_resource;
allow journalctl_t self:process setrlimit;
```

# plogd calls stdbuf to set up journalctl buffering
corecmd_exec_bin(polaris_plogd_t)

# writes into pman fifo stdout
polaris_use_btrace_fifo(journalctl_t)

# /dev/log is symbolic link to /run/systemd/journal/dev-log
# need ability to search in init_var_run_t /run/systemd
# some of subjects that use syslog may not have it

gen_require("
    attribute syslog_client_type;
"
)

init_search_pid_dirs(syslog_client_type)

# plog_d calls journalctl to get system log including AVC message.
allow polaris_plogd_t journalctl_t:process signal;

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#
/usr/binos/conf/iptbl.sh -- gen_context(system_u:object_r:polaris_iptbl_exec_t,s0)

/tmp/rp/iptbl -d gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/rp/iptbl/inot_fifo -p gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

# in polaris we have xtables-multi at wrong location
/usr/bin/xtables-multi -- gen_context(system_u:object_r:iptables_exec_t,s0)

#fman (rp/fp) acl mgmt and iptbl modules dependency
/tmp/iptbl.v4 gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/iptbl.v6 gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisiptbl.fc
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dnl

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dnl

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dnl
dnl divert(-1)

dnl include("polaris_process.m4")
dnl Stub out polaris process
define("polaris_process","")
dnl Stub out mqipc
define('polaris_mqipc_service_server','\n')
define('polaris_mqipc_service_client','\n')
define('polaris_mqipc_service_server_elastic_client','\n')

dnl Stub out lipc
define('polaris_lipc_service_server','\n')
define('polaris_lipc_service_client','\n')

include('polaris_ipc_ripc.m4')
include('polaris_ipc_base_ripc_if.m4')

dnl Stub out non existent one
define('polaris_websocket_service_server','\n')
define('polaris_cipc_service_server','\n')

include('polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
### <summary>Polaris Platform Base IPC Policy Rules.</summary>
### <required val="true">
## Needed for each polaris platform
### </required>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_base_if.m4
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

# polarisodmproxy file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisodmproxy.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#
## <summary>Polaris ngiolite Policy Rules.</summary>

### Execute mcp_smartctl_cmds.sh in the polaris_smartctl domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </summary>
## </param>
#
interface(`polaris_smartctl_domtrans',`
genco_require(''
type polaris_smartctl_t, polaris_smartctl_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_smartctl_exec_t, polaris_smartctl_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngiolite.if

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

# # March 2017, Victor Kamensky
#
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#
## <summary>Polaris polarispman Policy Rules.</summary>

### Make the specified program domain accessible
## from the pman.
## </summary>
## <param name="domain">
## The type of the process to transition to.
## </summary>
## <param name="entrypoint">
##      <summary>
##      The type of the file used as an entrypoint to this domain.
##      </summary>
## </param>
#
interface(`polaris_pman_entry`,
    gen_require(
        type polaris_pman_t;
        type polaris_gdb_t;
    )
)

domtrans_pattern(polaris_pman_t, $2, $1)
domtrans_pattern(polaris_gdb_t, $2, $1)

    allow polaris_gdb_t $1:process { ptrace signal sigstop };
')

########################################
## <summary>
##      Execute a domain transition to run pman.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_pman_domtrans`,
    gen_require(
        type polaris_pman_t, polaris_pman_exec_t;
    )
)

domtrans_pattern($1, polaris_pman_exec_t, polaris_pman_t)
')

########################################
## <summary>
##      Read pman temporary files and directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_pman_read_tmp_files`,

gen_require(
    type polaris_pman_tmp_t;
)

read_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
list_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)

########################################
## <summary>
##      Manage pman temporary files and directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_pman_manage_tmp_files',
    gen_require(
    type polaris_pman_tmp_t;
    )

manage_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
manage_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)

########################################
## <summary>
##	Create an object in the polaris_pman_tmp directories.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <param name="object">
##	<summary>
##	The object class of the object being created.
##	</summary>
## </param>
## <param name="name" optional="true">
##	<summary>
##	The name of the object being created.
##	</summary>
## </param>
#
interface(`polaris_pman_tmp_filetrans`,

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6244
gen_require(
    type polaris_pman_tmp_t;
    )

files_tmp_filetrans($1, polaris_pman_tmp_t, $2, $3)
    )

*******************************************************************************
## <summary>
## Check existence (getattr) of pman btrace file (i.e
## polaris_pman_bt_t)
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_pman_bt_getattr`,
    gen_require(
        type polaris_pman_bt_t;
        type polaris_btrace_base_t;
        )
        setattr_files_pattern($1, polaris_btrace_base_t, polaris_pman_bt_t)
    )

*******************************************************************************
## <summary>
## Read and write to pmanlite fifo file, used as
## stdout/stderr.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_use_pman_fifo`,
    gen_require(
        type polaris_pman_t;
        )
    allow $1 polaris_pman_t:fifo_file { rw_fifo_file_perms };
    )

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispman.if
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#    # March 2017, Victor Kamensky
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#

## <summary>Polaris polarispsvp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispsvp.if

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

#    # March 2017, Victor Kamensky
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#

policy_module(polarishm, 1.0);

gen_require(
    
    type polaris_hm_t;

)

polaris_btrace_data_manage(polaris_hm_t)
polaris_chasfs_manage(polaris_hm_t)
polaris_tdlresolve_read(polaris_hm_t)
polaris_tdlldb_list_dirs(polaris_hm_t)
polaris_cpld_read(polaris_hm_t)
polaris_lua_read(polaris_hm_t)
polaris_flashlib_read(polaris_hm_t)
polaris_rpc_sman_ui_serv_connect(polaris_hm_t)
polaris_db_tdlldb_dir_use(polaris_hm_t)

dirlist_dir_perms;

allow polaris_hm_t { non_security_file_type }:dir list_dir_perms;

# hman need to read proc for all processes to collect CPU
# utilization information
domain_read_all_domains_state(polaris_hm_t)
domain_signull_all_domains(polaris_hm_t)

kernel_read_system_state(polaris_hm_t)

# hman needs to run "df /dev/shm" command
corecmd_exec_bin(polaris_hm_t)
corecmd_exec_shell(polaris_hm_t)

# hman needs to operate on all maroon files
polaris_maroon_data_manage_all(polaris_hm_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_hm_t)

fs_getattr_tmpfs(polaris_hm_t)

# work with /tmp files (/tmp/myhostname)
type polaris_hm_tmp_t;
files_tmp_file(polaris_hm_tmp_t)
manage_files_pattern(polaris_hm_t, tmp_t, polaris_hm_tmp_t)
files_tmp_filetrans(polaris_hm_t, polaris_hm_tmp_t, file, "myhostname")

allow polaris_hm_t self:capability { chown fsetid dac_override kill sys_resource sys_ptrace };  
allow polaris_hm_t self:process setsched;  
allow polaris_hm_t self:unix_dgram_socket create;  
allow polaris_hm_t self:cap_users { kill sys_ptrace };

polaris_boot_tmp_read(polaris_hm_t)

# Allow write to flash. Needed for usb disable feature
ifdef(`ngwc_family',`
   polaris_flashlib_write(polaris_hm_t)
')

# "show platform software mount RP active" command needs attributes of
# all file systems
fs_getattr_all_fs(polaris_hm_t)
# above show command accesses /var/run/netns/2
fs_read_nsfs_files(polaris_hm_t)
# reads /scratch link which is labeled as polaris_disk_bootflash_t
polaris_disk_bootflash_read_lnk(polaris_hm_t)
polaris_disk_harddisk_read_lnk(polaris_hm_t)

# needed for "show platform software bound-uds RP active"
kernel_read_network_state(polaris_hm_t)
# "show rom-monitor R0" needs content of /proc/rmonbifo/boomver;
# please refer to hman_ui.tpp file
polaris_proc_rmonbifo_read(polaris_hm_t)

# "show plat soft yang-management process r0" invokes hm_show_yang_proc_cb;
# "show plat soft iox-service" invokes hm_iox_srvc_show_cb;
# They invoke "ps -C" which needs access to /sys/devices/system/cpu/online
# TODO: should we replace system() with something like hm_get_procs_with_name_running
dev_read_sysfs(polaris_hm_t)
# "show platform software yang-management process state" invokes /bin/mcp_pkg_wrap,
# which sources /tmp/sw/boot/rmonbifo/env_var.sh
polaris_rmonbifo_tmp_read(polaris_hm_t)
# show iox-service requires reading of libvirt_ver of created under CAF context
optional_policy(
    polaris_caf_tmp_files_read(polaris_hm_t)
)

# hardcoded policy for hm to df, per Victor
optional_policy(
    gen_require(
        type polaris_iosd_portal_dmi_lipc_t;
        type polaris_iosd_portal_app_lipc_t;
    )
    allow polaris_hm_t { polaris_iosd_portal_dmi_lipc_t polaris_iosd_portal_app_lipc_t }::sock_file getattr;
)

# during "show version installed" command
# "grep -q srdriver /tmp/sw/rp/local/0/rp_base/iso" which is link to the universal image
polaris_bootflash_read(polaris_hm_t)
# this is for calcsha.sh (invoked by the command above) but might work for others too
polaris_install_engine_domtrans(polaris_hm_t)
# this if for hman to read and delete /tmp/version.info created by calcsha.sh in prev context type
polaris_install_tmp_read(polaris_hm_t)
gen_require(
    type polaris_install_tmp_t;
)
allow polaris_hm_t polaris_install_tmp_t::file unlink;

# need open, read on /bootflash/packages.conf (grep sha1sum: /tmp/packages.conf)
polaris_read_packages_conf(polaris_hm_t)

# This is created for hman to grant it access to /bootflash/topnmemuse
polaris_bootflash_manage(polaris_hm_t)

# read /tmp/pkg_summary.txt file
polaris_pkg_summary_tmp_read(polaris_hm_t)
polaris_zram_getattr(polaris_hm_t)
optional_policy('polaris_ssd_auth_domtrans(polaris_hm_t)')

optional_policy('polaris_ssdUnmount_domtrans(polaris_hm_t)')

optional_policy('polaris_confd_domtrans(polaris_hm_t)')

# show platform software process slot R0 monitor
# mcp_monitor_process_batchmode.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_monitor_process_batchmode.sh -n 1 -d 3 -l 0  
# polaris_utility_domain_template(monitor_process)

polaris_bexecute_domtrans(polaris_hm_t)
polaris_bexecute_domain(polaris_monitor_process_t, polaris_monitor_process_exec_t)

# mcp_monitor_process_batchmode.sh calls "top" command
# "top" needs read/getattr access of various files in the system
domain_read_all_domains_state(polaris_monitor_process_t)

# "top" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_process_t)

# "top" need read access to /proc/meminfo, /proc/stat
kernel_read_system_state(polaris_monitor_process_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_process_t)

# need write/ioctl/getattr access for pipes like "pipe:[118396]"
polaris_hman_use_fifo(polaris_monitor_process_t)

corecmd_exec_bin(polaris_monitor_process_t)

gen_require('type admin_home_t;')

#top -b -n3 -d3 needs permission to create dir /.config ,write
#to files and add files
allow polaris_monitor_process_t admin_home_t:dir { add_name create write };
allow polaris_monitor_process_t self:capability sys_ptrace;
polaris_utility_domain_template(pkg_summary)

polaris_pkg_summary_domtrans(polaris_hm_t)

# it executes find /tmp/sw -maxdepth 5 -mindepth 5 -name mount
files_getattr_all_dirs(polaris_pkg_summary_t)
files_getattr_all_files(polaris_pkg_summary_t)
files_read_all_dirs_except(polaris_pkg_summary_t)

polaris_chasfs_read(polaris_pkg_summary_t)
polaris_cpld_read(polaris_pkg_summary_t)
polaris_use_btrace_fifo(polaris_pkg_summary_t)
polaris_rmonfifo_tmp_read(polaris_pkg_summary_t)
polaris_btrace_data_manage(polaris_pkg_summary_t)
polaris_boot_tmp_read(polaris_pkg_summary_t)

# need open, read on /bootflash/debug.conf
polaris_read_debug_conf(polaris_pkg_summary_t)

polaris_read_packages_conf(polaris_pkg_summary_t)

allow polaris_pkg_summary_t self:capability sys_resource;

corecmd_exec_bin(polaris_pkg_summary_t)

auth_use_nsswitch(polaris_pkg_summary_t)

polaris_disk_crashinfo_getattr(polaris_pkg_summary_t)

# read /proc/cmdline
kernel_read_system_state(polaris_pkg_summary_t)

# handle /tmp/pkg_summary.txt file
type polaris_pkg_summary_tmp_t;
files_tmp_file(polaris_pkg_summary_tmp_t)
files_tmp_filetrans(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, file)
manage_files_pattern(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t, file)


# pkg_to_tree.sh : Generates a software tree based on a provisioning file.
# /bin/bash /usr/binos/conf/pkg_to_tree.sh -c /tmp/packages.conf
# -t /tmp/show_patch_provision_temp -p /tmp/sw/isos
# -r /tmp/show_provision_temp -a -q
#******************************************************************************

polaris_utility_domain_template(pkg_to_tree)

gen_require(')
type unconfined_service_t;
')
polaris_pkg_to_tree_domtrans([unconfined_service_t polaris_hm_t])

files_getattr_all_files(polaris_pkg_to_tree_t)
polaris_harddisk_read(polaris_pkg_to_tree_t)
polaris_cpld_read(polaris_pkg_to_tree_t)
polaris_use_btrace_fifo(polaris_pkg_to_tree_t)
polaris_rmonbifo_tmp_read(polaris_pkg_to_tree_t)
polaris_btrace_data_manage(polaris_pkg_to_tree_t)
polaris_boot_tmp_read(polaris_pkg_to_tree_t)
polaris_patch_data_manage(polaris_pkg_to_tree_t)

# if being executed on other node, telnet /dev/ptsN might be used
# as stdin/stdout
telnet_use_ptys(polaris_pkg_to_tree_t)

# pkg_to_tree.sh creates/deletes directories and files under
# /tmp/show_provision_temp
type polaris_show_provision_tmp_t;
files_tmp_file(polaris_show_provision_tmp_t)
polaris_show_provision_temp_manage(polaris_pkg_to_tree_t)

# pkg_to_tree.sh verifies each package as it is mounted
polaris_code_verify_domtrans(polaris_pkg_to_tree_t)

corecmd_exec_bin(polaris_pkg_to_tree_t)

polaris_disk_crashinfo_getattr(polaris_pkg_to_tree_t)

# manage the /tmp/lf symbolic link
type polaris_pkg_to_tree_tmp_t;
files_tmp_file(polaris_pkg_to_tree_tmp_t)
files_tmp_filetrans(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, lnk_file, "lf")
manage_lnk_files_pattern(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, polaris_pkg_to_tree_tmp_t)

# permit pkg_to_tree.sh mounting to use conf/pkg files in bootflash
polaris_bootflash_read(polaris_pkg_to_tree_t)
polaris_disk_bootflash_search(polaris_pkg_to_tree_t)
# we want to read the existing mounts in chasfs
polaris_chasfs_read(polaris_pkg_to_tree_t)

# pkg_to_tree.sh interfaces with installer data, including ISSU files
polaris_install_tmp_log_write(polaris_pkg_to_tree_t)
polaris_sw_data_manage(polaris_pkg_to_tree_t)
polaris_read_packages_conf(polaris_pkg_to_tree_t)
polaris_issu_tmp_files_manage(polaris_pkg_to_tree_t)
polaris_install_tmp/manage(polaris_pkg_to_tree_t)

# allow pkg_to_tree.sh to do the loopback mounts of packages and manage
# mount links in tmp. This includes mapping mounted passwd file and
# mounting sysfs. This is also needed to mount /mnt/sd3/iox_alt_hdd.dsk
mount_domtrans(polaris_pkg_to_tree_t)
auth_map_passwd(polaris_pkg_to_tree_t)
dev_list_sysfs(polaris_pkg_to_tree_t)
allow polaris_pkg_to_tree_t sysfs_t:file { getattr open read };
allow polaris_pkg_to_tree_t tmp_t:lnk_file { create rename unlink };

# when expanding/installing super images, pkg_to_tree uses install_engine_exec_t
# utilities like issu_check
polaris_install_engine_domtrans(polaris_pkg_to_tree_t)

# misc hman cli(s)
# hman needs access to /bootflash/.issu_loc_lock
polaris_issu_files_manage(polaris_hm_t)

# hman process creates/deletes directories and files under
# /tmp/show_provision_temp
polaris_show_provision_temp_manage(polaris_hm_t)

# signal send during show platform software process slot R0 monitor
polaris_send_signal_to_bexecute(polaris_hm_t)

polaris_dyncfg_tmp_read(polaris_hm_t)
polaris_disk_crashinfo_getattr(polaris_hm_t)

# setting up /dev/ttyS0 speed from hman_handle_console_baud_rate_change
term_use_unallocated_ttys(polaris_hm_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_hm_t)
# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_hm_t)

# hman starts agetty-iosd.service in case of nyquist stack
getty_systemctl(polaris_hm_t)

# This block is policies for "sh pla so filesystem bootflash: de" CLI
polaris_utility_domain_template(cli_fs_cmds)

gen_require(`
    type polaris_bexecute_t;
    
    polaris_bexecute_domtrans(polaris_cli_fs_cmds_t)
    polaris_cli_fs_cmds_domtrans(polaris_bexecute_t)
    telnet_use_ptys(polaris_cli_fs_cmds_t)
    
    polaris_persistent_manage(polaris_cli_fs_cmds_t)
    polaris_removable_manage(polaris_cli_fs_cmds_t)
    polaris_getattr_removable(polaris_cli_fs_cmds_t)
    fs_read_removable_symlinks(polaris_cli_fs_cmds_t)
    
    polaris_boot_tmp_read(polaris_cli_fs_cmds_t)
    polaris_btrace_tmppub_read(polaris_cli_fs_cmds_t)
    
    optional_policy(`
        polaris_ncd_tmp_read(polaris_cli_fs_cmds_t)
        
    `)
    
    # need to access pipes like pipe:[107820]
    polaris_hman_use_fifo(polaris_cli_fs_cmds_t)
    
    # df or stat the mount point
    fs_getattr_nfs(polaris_cli_fs_cmds_t)
    
    # mkfs permissions via domtrans
    fstools_domtrans(polaris_cli_fs_cmds_t)
    
    # runs NFS exportfs ( copied from ncd )
    rpc_read_exports(polaris_cli_fs_cmds_t)
    rpc_write_exports(polaris_cli_fs_cmds_t)
    rpc_manage_nfs_state_data_dir(polaris_cli_fs_cmds_t)
    rpc_manage_nfs_state_data(polaris_cli_fs_cmds_t)
    fs_rw_nfsd_fs(polaris_cli_fs_cmds_t)
    kernel_rw_rpc_sysctls(polaris_cli_fs_cmds_t)
    
    # rsync/remote_format perms ( rsync borrowed from polariscrft.te )
    polaris_udev_tmp_list_dirs(polaris_cli_fs_cmds_t)
    gen_require("
```
type rsync_exec_t;
type rsync_port_t;
type rsync_tmp_t;
')
allow polaris_cli_fs_cmds_t rsync_port_t:tcp_socket name_connect;
allow polaris_cli_fs_cmds_t rsync_exec_t:file { execute execute_no_trans getattr map open read };

allow polaris_cli_fs_cmds_t rsync_tmp_t:file open;

allow polaris_cli_fs_cmds_t self:capability { chown fsetid setgid };

# Need to access /proc/self/fd/1 by platform_fs_operation.sh which is invoked by
# /bin/bash/usr/binos/conf/mcp_cli_fs_cmds.sh show bootflash:all
fs_associate_proc(polaris_cli_fs_cmds_t)
polaris_cli_fs_cmds_domtrans(polaris_hm_t)
corecmd_exec_bin(polaris_cli_fs_cmds_t)
polaris_cpld_read(polaris_cli_fs_cmds_t)
polaris_chasfs_manage(polaris_cli_fs_cmds_t)
polaris_use_btrace_fifo(polaris_cli_fs_cmds_t)
polaris_rmonbifo_tmp_read(polaris_cli_fs_cmds_t)
auth_use_nsswitch(polaris_cli_fs_cmds_t)

# allow polaris_cli_fs_cmds_t polaris_udev_tmp_files_t:file open;
polaris_udev_tmp_read(polaris_cli_fs_cmds_t)
#watch on modify /tmp/udev/etc/udev/usbflash1-2/udev-info for remote/stby usb device
polaris_udev_tmp_watch(polaris_cli_fs_cmds_t)

# allow to run mount in its own domain
mount_domtrans(polaris_cli_fs_cmds_t)
# runs systemctl to remount file system.
# usb[01] fs_target remount service used.
systemd_exec_systemctl(polaris_cli_fs_cmds_t)
systemd_config_generic_services(polaris_cli_fs_cmds_t)

# allow to run readlink -f /dev/bootflash1
storage_getattr_fixed_disk_dev(polaris_cli_fs_cmds_t)

# allow "format" CLI to add/delete links in /dev/, and /; e.g., /dev/harddisk1 /harddisk
ifdef(`crankshaft_family',`
gen_require(`
    type device_t;
    type root_t;
    type udev_t;
`)
# /dev/harddisk1 /dev/harddisk1 -> /dev/dm-0
filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
  #/harddisk -> /misc/scratch
filetrans_pattern(polaris_cli_fs_cmds_t, root_t, polaris_disk_bootflash_t, lnk_file, "harddisk")

  manage_link_files_pattern(polaris_cli_fs_cmds_t, fixed_disk_device_t, fixed_disk_device_t)
)
seutil_domtrans_setfiles(polaris_cli_fs_cmds_t)
polaris_hman_use_fifo(setfiles_t)
  # need open, read on /bootflash/packages.conf
polaris_read_packages_conf(polaris_cli_fs_cmds_t)

  # "sed" needs access to /proc/cmdline
kernel_read_system_state(polaris_cli_fs_cmds_t)

  # work with /tmp files (/tmp/fs_lock_bootflash)
type polaris_cli_fs_cmds_tmp_t;
gen_require(
  type tmp_t;
)
files_tmp_file(polaris_cli_fs_cmds_tmp_t)
manage_files_pattern(polaris_cli_fs_cmds_t, tmp_t, polaris_cli_fs_cmds_tmp_t)
files_tmp_filetrans(polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_tmp_t, file)

  #"find /vol/disk0/caf" when show CLI is excuted
polaris_caf_tmp_files_read(polaris_cli_fs_cmds_t)

  #Caf and IOxMan-CLI interaction
polaris_caf_tmp_files_manage(polaris_cli_fs_cmds_t)

  # mcp_cli_fs_cmds.sh show webui: all runs df -P /webui
fs_getattr_tmpfs(polaris_cli_fs_cmds_t)
polaris_persistent_getattr(polaris_cli_fs_cmds_t)
fs_getattr_xattr_fs(polaris_cli_fs_cmds_t)
allow polaris_cli_fs_cmds_t self:capability dac_override;
allow polaris_cli_fs_cmds_t self:dir { add_name write };

  # allow caf access to mcp_cli_fs_cmds.sh for fsck on ngwc platforms
ifdef(`ngwc_family',`
domain_read_all_domains_state(polaris_cli_fs_cmds_t)
polaris_caf_domtrans(polaris_cli_fs_cmds_t)
polaris_caf_files_read(polaris_cli_fs_cmds_t)
dev_read_sysfs(polaris_cli_fs_cmds_t)
')

###############################################################################
# fsck CLI using mcp_cli_fs_cmds.sh as tested on sparrow
allow fsck to execute udev in the udev domain
udev_domtrans(polaris_cli_fs_cmds_t)
# allow cryptsetup to be executed
lvm_domtrans(polaris_cli_fs_cmds_t)
# allow fsck to run on bootflash
polaris_nvram_getattr(polaris_cli_fs_cmds_t)

# during SDWAN admin-tech generation, fs_display_*() in mcp_cli_fs_cmds.sh is
# invoked; this tries to find files like /bootflash/tracelogs/cia-netcon* with
# LABEL polaris_confd_var_log_t
polaris_confd_var_log_read(polaris_cli_fs_cmds_t)

# hm calls df to figure out tmpfs size, on some platforms
# where configfs is mounted it needs statfs access to it
allow polaris_hm_t configfs_t:dir getattr;

# hm populates vrf_shm on behalf of iosd, and may create
# and delete vrf-based netns
polaris_vrf_netns_manages(polaris_hm_t)
fs_unmount_nsfs(polaris_hm_t)

# read udev_info
polaris_udev_tmp_read(polaris_hm_t)

allow polaris_hm_t configfs_t:dir getattr;

allow polaris_hm_t configfs_t:dir getattr;

# show platform software yang-management process monitor
# mcp_monitor_dmi_proc.sh
# /bin/bash /bin/mcp_pkg_wrap rp_daemons /usr/binos/conf/mcp_monitor_dmi_proc.sh

polaris_utility_domain_template(monitor_dmi_process)
polaris_bexecute_domain(polaris_monitor_dmi_process_t, polaris_monitor_dmi_process_exec_t)

# mcp_monitor_dmi_proc.sh calls "ps" command
# "ps" needs read/getattr access of various files in the system
# ps -eo comm,pid,s,vsize,rssize,%cpu,%mem,etime --sort=comm
domain_read_all_domains_state(polaris_monitor_dmi_process_t)
## # "ps" needs access to /proc/uptime
kernel_read_system_state(polaris_monitor_dmi_process_t)

## # "ps" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_dmi_process_t)

## # "ps" need read access to /proc
kernel_list_proc(polaris_monitor_dmi_process_t)

## # allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_dmi_process_t)

## # executes head command
corecmd_exec_bin(polaris_monitor_dmi_process_t)

## # sources cyan_api.sh
files_exec_usr_files(polaris_monitor_dmi_process_t)

## # /bin/bash /tmp/sw/0rp/0/0/rp_daemons/mount/usr/binos/conf/mcp_monitor_dmi_proc.sh
corecmd_shell_entry_type(polaris_monitor_dmi_process_t)

## # need write/ioctl/getattr access for pipes like "pipe:\[79843\]"
polaris_hman_use_fifo(polaris_monitor_dmi_process_t)

## # read /etc/init.d/quad_sup_usb_infra.sh
init_read_script_files(polaris_cli_fs_cmds_t)

## #This triggers access to /tmp/.flashlock and /dev/sda3
polaris_flashlib_lock(polaris_cli_fs_cmds_t)

## #allow flash utility
polaris_flashlib_read(polaris_cli_fs_cmds_t)

## # /sys/bus/usb/drivers/usb/*/authorized is accessed (read and write) from hman.
# For USB disable feature across all ngwc platforms needs authorized file to
# be accessed.
ifdef('ngwc_family',`
    gen_require('
        type sysfs_t;
    ')
    allow polaris_hm_t sysfs_t:file create;
    dev_rw_sysfs(polaris_hm_t)
    dev_manage_sysfs_dirs(polaris_hm_t)
    ')

## # work with /tmp files (/tmp/usb-disable)
polaris_iosd_usb_disable_tmp_manage(polaris_hm_t)

## #need access to tmp files created under issu directory
polaris_issu_tmp_files_read(polaris_hm_t)
# HMMAN calls for checking database compactability
# tdllib_db_epoch_test is requires access to /tmp/issu/provision/sw-running.txt
polaris_install_tmp_read(polaris_hm_t)

optional_policy(' 
  polaris_efi_files_list_dirs(polaris_cli_fs_cmds_t) 
')

# Execute hdparm in its own domain
fstools_domtrans(polaris_hm_t)

# Allow polaris_hm to get attributes of fixed disk
storage_getattr_fixed_disk_dev(polaris_hm_t)

# Allow read to ssd auth tmp files /tmp/ssd_blk_device
polaris_read_ssd_tmp_files(polaris_hm_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarishm.te
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
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# #
#
# polarisofa file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisofa.fc
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# #
#
/tmp/dbgmn_log_svr  gen_context(system_u:object_r:polaris_fed_sock_t,s0)
/tmp/fed_post_result -- gen_context(system_u:object_r:polaris_fed_tmp_t,s0)
/flash/shfwd_params.txt  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwcfed.fc
No license file was found, but licenses were detected in source scan.

# June 2020, Manu Roy
#
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#

## <summary>Polaris iotswitch Policy Rules.</summary>
#
#
### <summary>Work (read, write, ioctl) with /dev/petra-fpga device</summary>
### <param name="domain">
###     Domain allowed access.
### </summary>
### </param>
#
interface('polaris_iots_fpga_dev_use',
    gen_require(
        type device_t;
        type polaris_iots_fpga_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
    allow $1 polaris_iots_fpga_device_t:chr_file map;
)

### <summary>Work (read, write, ioctl) with /dev/tm</summary>
### <param name="domain">
###     Domain allowed access.
### </summary>
### </param>
#
interface('polaris_iots_tm_dev_use',
    gen_require(
        type device_t;
        type polaris_iots_tm_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_iots_tm_device_t)
    read_chr_files_pattern($1, device_t, polaris_iots_tm_device_t)
    allow $1 polaris_iots_tm_device_t:chr_file map;
)
write_chr_files_pattern(1, device_t, polaris_iots_tm_device_t)
read_chr_files_pattern(1, device_t, polaris_iots_tm_device_t)
allow $1 polaris_iots_tm_device_t:chr_file map;
')

*************************************************************************
## <summary>
## Allow access to semaphore with type polaris_cm_rp_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_cm_rp_sem_use',
  gen_require(
    type polaris_cm_rp_t;
  )
  allow $1 polaris_cm_rp_t:sem rw_sem_perms;
')

*************************************************************************
## <summary>
## Allow access to semaphore with type polaris_iots_mvDmaDrv_device_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_mvDmaDrv_dev_use',
  gen_require(
    type device_t;
    type polaris_iots_mvDmaDrv_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t)
  read_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t)
  allow $1 polaris_iots_mvDmaDrv_device_t:chr_file map;
')

*************************************************************************
## <summary>
## Allow access to semaphore with type polaris_iots_mvIntDrv_device_t
## </summary>
## <param name="domain">
## </param>
Domain allowed access.
</summary>
</param>
#
interface('polaris_mvIntDrv_dev_use',
  gen_require(
    type device_t;
    type polaris_iots_mvIntDrv_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)
  read_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)
)

########################################
## <summary>
## Manage iots swipedrive files
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_swipedrive_file_manage',
  gen_require(
    type polaris_iots_swipedrive_file_t;
  )
  manage_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
  manage_lnk_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
  manage_dirs_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
)

########################################
## <summary>
## Get the attributes of an swipe drive filesystem.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_getattr_swidedrive',
  gen_require(
    type polaris_iots_swidedrive_file_t;
  )
)
allow $1 polaris_iots_swipedrive_file_t:filesystem getattr;
')

### <summary>
### Allow access to semaphore with type polaris_iots_led_device_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

interface('polaris_led_dev_use',
    gen_require('polaris_iots_led_device_t; device_t;
    write_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
    read_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisiotswitch.if
No license file was found, but licenses were detected in source scan.

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#

# polarisstackmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisstackmgr.fc
No license file was found, but licenses were detected in source scan.

# # November 2017, Victor Kamensky
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#

policy_module(polarisgnmib, 1.0);
gen_require(
    type polaris_gnmib_t;
);

polaris_btrace_data_manager(polaris_gnmib_t)
polaris_crft_data_manager(polaris_gnmib_t)
polaris_chasfs_manager(polaris_gnmib_t)
polaris_tdlresolve_read(polaris_gnmib_t)
polaris_tdlldb_list_dirs(polaris_gnmib_t)
polaris_cpld_read(polaris_gnmib_t)
polaris_lua_read(polaris_gnmib_t)
polaris_flashlib_read(polaris_gnmib_t)

polaris_db_tdlldb_dir_use(polaris_gnmib_t)

optional_policy(
    # deals with /dev/shm/confd setup (schema and pid)
    polaris_confd_shm_setup(polaris_gnmib_t)
    # and allow read shared schema
    polaris_confd_shared_schema_read(polaris_gnmib_t)
    # from evconfd_dynamic_load
    polaris_confd_shared_schema_watch(polaris_gnmib_t)
    # read /proc/confd_pid/exe file
    polaris_confd_read(polaris_gnmib_t)
);

allow polaris_gnmib_t self:capability dac_override;

logging_send_syslog_msg(polaris_gnmib_t)

# create ndbutil directory under /var/lock
polaris_confd_ndbutil_create(polaris_gnmib_t)

polaris_ndbutil_lock_template(polaris_gnmib_t, gnmib, ".l.schema_use.gnmib")

# grpc library through sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_gnmib_t)

# gnmib uses multiple (configurable) tcp ports for secure and insecure mode
corenet_tcp_bind_generic_port(polaris_gnmib_t)
allow polaris_gnmib_t self:tcp_socket { shutdown };
corenet_tcp_connect_all_ports(polaris_gnmib_t)

# iosp_token_read_from_file reads /tmp/rp/.iosp_gnmib
polaris_gnmib_token_read(polaris_gnmib_t)

# gnmib creates /var/tmp/gnmib.pid
type polaris_gnmib_var_t;
files_tmp_file(polaris_gnmib_var_t);
files_tmp_filetrans(polaris_gnmib_t, polaris_gnmib_var_t, file, "gnmib.pid");
manage_files_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
manage_dirs_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
manage_lnk_files_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)

# read access to /dev/random
dev_read_rand(polaris_gnmib_t)

kernel_read_net_sysctls(polaris_gnmib_t)

type polaris_gnmib_gnoi_images_t;
files_type(polaris_gnmib_gnoi_images_t);
polaris_bootflash_filetrans(polaris_gnmib_t, polaris_gnmib_gnoi_images_t, file,);
manage_files_pattern(polaris_gnmib_t, polaris_disk_bootflash_t, polaris_gnmib_gnoi_images_t)
# need to execute install engine scripts
polaris_install_engine_domtrans(polaris_gnmib_t)

# need access to shell to execute install scripts
corecmd_exec_shell(polaris_gnmib_t)
corecmd_exec_bin(polaris_gnmib_t)

# install script needs rmonbifo
polaris_rmonbifo_tmp_read(polaris_gnmib_t)

# not sure why this is needed
auth_map_passwd(polaris_gnmib_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_gnmib_t)
polaris_tmp_tdldb_persist_setup(polaris_gnmib_t)

allow polaris_gnmib_t self:capability sys_resource;

# needed to fstat and check space when transferring image for os.proto install rpc
fs_getattr_xattr_fs(polaris_gnmib_t)

# needed by gnmib ui because uipeer heartbeat timer accesses TDL epoch files
polaris_issu_tmp_files_read(polaris_gnmib_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisgnmib.te
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#
# February 2018, Manohar Hungund
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#
/dev/act2 -c gen_context(system_u:object_r:polaris_act2_device_t,s0)
/tmp/hw_entropy -- gen_context(system_u:object_r:polaris_hw_entropy_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisact2.fc
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#

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisfpm.fc
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisftm.fc
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisinstallmgr.fc
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmportsfetch.fc
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscfgmgr.fc
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdbgd.fc
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscxp.fc
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissttm.fc
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisvdaemon.fc
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisomp.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#
## <summary>Polaris bt_logger Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbtlogger.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
policy_module(polarisissustack, 1.0);

gen_require(
    type polaris_issu_stack_t;
')

corecmd_exec_bin(polaris_issu_stack_t)
corecmd_exec_shell(polaris_issu_stack_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_issu_stack_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_issu_stack_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_issu_stack_t)

# work with /tmp files (/tmp/issu_stk)
type polaris_issu_stack_tmp_t;
files_tmp_file(polaris_issu_stack_tmp_t)
manage_dirs_pattern(polaris_issu_stack_t, tmp_t, polaris_issu_stack_tmp_t)
manage_files_pattern(polaris_issu_stack_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
manage_fifo_files_pattern(polaris_issu_stack_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
files_tmp_filetrans(polaris_issu_stack_t, polaris_issu_stack_tmp_t, file)
files_tmp_filetrans(polaris_issu_stack_t, polaris_issu_stack_tmp_t, dir, "issu_stk")

allow polaris_issu_stack_t self:capability sys_resource;
polaris_btrace_data_manage(polaris_issu_stack_t)
polaris_chasfs_manage(polaris_issu_stack_t)
polaris_cpld_read(polaris_issu_stack_t)
polaris_proc_rmonbifo_read(polaris_issu_stack_t)
polaris_rmonbifo_tmp_read(polaris_issu_stack_t)
polaris_boot_tmp_read(polaris_issu_stack_t)
polaris<tdresolver_read(polaris_issu_stack_t)
polaris_disk_crashinfo_getattr(polaris_issu_stack_t)

allow polaris_issu_stack_t self:capability dac_override;
polaris_read_debug_conf(polaris_issu_stack_t)
polaris_flashlib_read(polaris_issu_stack_t)
allow polaris_issu_stack_t self:process setpgid;

# modify tdlresolve epoch
polaris_tdlresolve_manage(polaris_issu_stack_t)

#rsync_exec(polaris_issu_stack_t)
gen_require('type rsync_t;'
);
rsync_entry_domtrans(polaris_issu_stack_t, rsync_t)
allow rsync_t polaris_issu_stack_t:process sigchld;

# execute rsync over eobc: /usr/binos/conf/mcp_chvrf.sh eobc rsync
polaris_chvrf_domtrans(polaris_issu_stack_t)
# from chvrf.sh code executes rsync command
gen_require('type polaris_chvrf_t;'
);
rsync_entry_domtrans(polaris_chvrf_t, rsync_t)
# LOOK AT ME: issu_stack.sh leaks fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
manage_fifo_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
write_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)

polaris_install_engine_domtrans(polaris_issu_stack_t)
# LOOK AT ME: isse_stack.sh leak fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
gen_require('type polaris_install_engine_t;'
);
read_fifo_files_pattern(polaris_install_engine_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)

polaris_install_tmp_read(polaris_issu_stack_t)

# access /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_issu_stack_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_issu_stack_t)

# reads /tmp/remote_sw_verinfo.txt
gen_require('type rsync_tmp_t;'
);
read_files_pattern(polaris_issu_stack_t, rsync_tmp_t, rsync_tmp_t)

# watch over /tmp/tdlresolve/work
polaris_tdlresolve_watch(polaris_issu_stack_t)

#issu_stack.sh access to epoch_merge.lua,epoch_endpoint_update.lua
polaris_lua_read(polaris_issu_stack_t)

#issu_stack.sh access to /tmp/rsync_log_dir
polaris_manage_rsync_tmplog_dir(polaris_issu_stack_t)

#issu_stack.sh access to epoch_merge.lua which merges epoch files, local.epoch and inyterchassis/.epcioh file
#luajit/usr/binos/conf/epoch_merge.lua--base-file/tmp/tdlresolve/epoch_dir/local.epoch
#--merge-file/tmp/tdlresolve/work/inter
allow polaris_issu_stack_t self:process execmem;

#access to /tmp/installer/
polaris_install_tmpmanage(polaris_issu_stack_t)

#access to /tmp/ufs/harddisk
polaris_ncd_tmp_read(polaris_issu_stack_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_stack_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisissustack.te
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#
# March 2017, Victor Kamensky
#
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#
/usr/binos/conf/pvp.sh -- gen_context(system_u:object_r:polaris_pvp_exec_t,s0)
/tmp/sw/rp/max_elastic_bays -- gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/iosd_memory_share -- gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/cc/0(/.*)?                          gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/cc/.*/pvp(/.*)?                     gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/fp/pvp(/.*)?                        gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/rp/pvp/oir/sw_lic_service(/.*)?     gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp/oir/sw_csl_service(/.*)?     gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp/oir/rp_(.*)(/.*)?            gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp(/.*)?                        gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/rp/pvp/sai_process(/.*)?            gen_context(system_u:object_r:polaris_pvp_sai_t,s0)
/tmp/fp/pvp/sai_process(/.*)?            gen_context(system_u:object_r:polaris_pvp_sai_t,s0)
/tmp/cc/.*/pvp/sai_process(/.*)?         gen_context(system_u:object_r:polaris_pvp_sai_t,s0)
/tmp/rp/pvp/process_state(/.*)?$ gen_context(system_u:object_r:polaris_process_state_t,s0)
/tmp/fp/pvp/process_state(/.*)?$ gen_context(system_u:object_r:polaris_process_state_t,s0)
/tmp/cc/pvp/process_state(/.*)?$ gen_context(system_u:object_r:polaris_process_state_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispvp.fc
No license file was found, but licenses were detected in source scan.

# # February 2020, Victor Kamensky
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#

## <summary>Polaris vdaemon Policy Rules.</summary>
##
## <summary>Write vdaemon /var/run socket file</summary>
##
## <param name="domain">
## Domain allowed access.
##<</param>
#

interface(`polaris_vdaemon_var_sock_write',
  gen_require(
    type polaris_vdaemon_t;
    type polaris_vdaemon_var_run_t;
    type var_run_t;
  )
  write_sock_files_pattern($1, var_run_t, polaris_vdaemon_var_run_t)
  allow $1 polaris_vdaemon_t:unix_stream_socket { connectto };
  )

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisvdaemon.if
No license file was found, but licenses were detected in source scan.

dnl
dnl Copyright (c) 2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Same as Nyquist

dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/msmaps.m4
No license file was found, but licenses were detected in source scan.

# # May 2017, Victor Kamensky
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#
#
policy_module(polarisconfd, 1.0);

gen_require(
    type polaris_confTd_t;
')

# confd-startup.sh calls confd_cmd to get_phase and other cases
# that utilities under confd label connects to confd
polaris_rpic_confTd_ipc_connect(polaris_confTd_t)

#confd needs communicate over HTTP
coreneth_tcp_bind_http_port(polaris_confTd_t)

# commplex_main (port 5000) is used by apache
coreneth_udp_bind_commplex_main_port(polaris_confTd_t)

coreneth_tcp_bind_generic_node(polaris_confTd_t)
allow polaris_confTd_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write };

coreneth_udp_bind_genric_node(polaris_confTd_t)
allow polaris_confTd_t self:udp_socket { bind connect create getattr getopt setopt };
coreneth_udp_bind_polaris_confTd_snmp_traps_port(polaris_confTd_t)
logging_send_syslog_msg(polaris_confd_t)

polaris_chasfs_manage(polaris_confd_t)
polaris_btrace_data_manage(polaris_confd_t)
polaris_cpld_read(polaris_confd_t)
polaris_boot_tmp_read(polaris_confd_t)
polaris_rmonbifo_tmp_read(polaris_confd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_confd_t)

# confd-startup.sh process is shell script need permission to execute shell
# and variety of small util commands under bin_t
corecmd_exec_shell(polaris_confd_t)
corecmd_exec_bin(polaris_confd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_confd_t)

# confdexec needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_confd_t)

allow polaris_confd_t self:capability { net_admin sys_resource };

# allow read permissions for /etc/hosts file
sysnet_read_config(polaris_confd_t)

# allow read permissions for /var/run/netns/8
fs_read_nsfs_files(polaris_confd_t)

# work with /var/confd0/ files
type polaris_confd_var_t;
files_tmp_file(polaris_confd_var_t)
polaris_confd_var_filetrans(polaris_confd_t, dir, "confd0")
manage_files_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)
manage_lnk_files_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)
manage_dirs_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)

# erlang calls efile_fileinfo function (.erts/emulator/drivers/unix/unix_efile.c)
# root directory. Inside of the function code calls 'access' function that check
# access permission for R_OK and W_OK. W_OK triggers denial warning. Instead of
# granting access let's mark it as dontaudit. Erlang will be fine with this
files_dontaudit_write_root_dirs(polaris_confd_t)

# deals with /dev/shm/confd files (shared memory and pid)
type polaris_confd_shm_t;
files_tmpfs_file(polaris_confd_shm_t)
allow polaris_confd_t self:process setfscreate;

type polaris_confd_ndbutil_lock_t;
files_lock_file(polaris_confd_ndbutil_lock_t)

/# confd-startup.sh modifies confd.conf which is under polaris_confd_var_t label
# sed -i /CONFD_FXS_CISCO_AUTOGEN_EWLC/d /var/confd0/confd.conf
allow polaris_confd_t self:process setfscreate;

type polaris_confd_ndbutil_lock_t;
files_lock_file(polaris_confd_ndbutil_lock_t)

# confd-startup.sh modifies confd.conf which is under polaris_confd_var_t label
# sed -i /CONFD_FXS_CISCO_AUTOGEN_EWLC/d /var/confd0/confd.conf
allow polaris_confd_t self:process setfscreate;

type polaris_confd_ndbutil_lock_t;
files_lock_file(polaris_confd_ndbutil_lock_t)

# confd-startup.sh modifies confd.conf which is under polaris_confd_var_t label
# sed -i /CONFD_FXS_CISCO_AUTOGEN_EWLC/d /var/confd0/confd.conf
allow polaris_confd_t self:process setfscreate;

type polaris_confd_ndbutil_lock_t;
files_lock_file(polaris_confd_ndbutil_lock_t)

# Allows access to /crashinfo
polaris_disk_crashinfo_getattr(polaris_confd_t)

optional_policy(
    # confd-startup.sh on nyquist makes ls /tmp/ufs/crashinfo
    polaris_ncd_tmp_read(polaris_confd_t)
')

# confd-startup.sh reads /proc/cmdline
kernel_read_system_state(polaris_confd_t)

# LOOK AT ME allow mapping of low addresses, that could be exploited
# need to understand why; unfortunately confd symbols are not decodable
# need to ask tail-f guys
ifdef(`tsn_platform',
    domain_mmap_low_uncond(polaris_confd_t)
gen_require(
        type polaris_confd_cli_t;
    )
    domain_mmap_low_uncond(polaris_confd_cli_t)
')
ifdef(`quake_platform',
    domain_mmap_low_uncond(polaris_confd_t)
')
polaris_mmap_schema_domtrans(polaris_confd_t)

# mmap_schema process policy
gen_require(
    type polaris_mmap_schema_t;
    )
polaris_btrace_data_manage(polaris_mmap_schema_t)
polaris_chasfs_read(polaris_mmap_schema_t)
polaris_cpld_read(polaris_mmap_schema_t)
polaris_flashlib_read(polaris_mmap_schema_t)

polaris_db_tdlodb_dir_use(polaris_mmap_schema_t)

polaris_confd_ndbutil_create(polaris_mmap_schema_t)
polaris_confd_shm_setup(polaris_mmap_schema_t)

# connects to confg mmap_schema is not TDL process, let
# grant explicit permission to access corresponding port
polaris_ripc_confd_ipc_connect(polaris_mmap_schema_t)
allow polaris_mmap_schema_t self:tcp_socket { connect create setopt };
polaris_socketat_nsfs_read(polaris_mmap_schema_t)

allow polaris_mmap_schema_t self:capability dac_override;

polaris_tdlresolve_read(polaris_mmap_schema_t)
polaris_confd_read(polaris_mmap_schema_t)

polaris_ndbmand_ndbutil_manage(polaris_mmap_schema_t)

optional_policy('
    polaris_gnmib_ndbutil_lock(polaris_mmap_schema_t, ".l.schema_use.gnmib")
  )

type polaris_confd_tmp_t;
files_tmp_file(polaris_confd_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_confd_tmp_t, dir, "confd")
files_tmp_filetrans(polaris_confd_t, polaris_confd_tmp_t, dir, "confd")
manage_files_pattern(polaris_confd_t, tmp_t, polaris_confd_tmp_t)
manage_fifo_files_pattern(polaris_confd_t, tmp_t, polaris_confd_tmp_t)
manage_dirs_pattern(polaris_confd_t, tmp_t, polaris_confd_tmp_t)

# posix_pathconf called from get_tmpdir calls starvfs over /tmp
fs_getattr_tmpfs(polaris_confd_t)

# dmi_ports_fetch that runs under confd_t reads global.service.conf
polaris_tdlresolve_read(polaris_confd_t)
confd_exec_dmi_ports_fetch(polaris_confd_t)

# confd-startup script reads /tmp/dmi.ds_config if it exists
polaris_psd_tmp_read(polaris_confd_t)

# vip-confd-startup.sh related
# figure out BOOT_ROLE in install_util.sh
polaris_read_packages_conf(polaris_confd_t)
# touch /bootflash/sdwan/day0_oper.xml
allow polaris_confd_t self:capability dac_override;
polaris_bootflash_manage(polaris_conf_t)
#/usr/bin/sw synccdb call uuidgen
dev_read_rand(polaris_conf_t)

polaris_dmiauthd_tmp_manage(polaris_conf_t)

# PLEASE LOOK AT ME: overloaded use of /bootflash/.installer and
#/bootflash/.sdwaninstaller directories. In controller mode cedge code loopback
# mounts /bootflash/sdwaninstallerfs file onto /bootflash/sdwaninstaller and
# creates /bootflash/.installer symbolic link to it. As result effective
#/bootflash/.installer carries two meaning: used by polaris install infra for
# regular install operations, and keep persistent state in controller mode. For
# now /bootflash/sdwaninstallerfs was forced to be mounted with
# polaris_disk_install_t label, so installer policy would be happy, but confd
# writes into it through /var/confd0 which is symbolic link to
#/bootflash/.installer/images/pkg_boot_17.3.01/confd0 that means we need to
# grant polaris_disk_install_manage to confd which is not good thing.
# It would be much better if two different directories would be used.
polaris_disk_install_manage(polaris_conf_t)

#/var/log/confd handling

type polaris_conf_t;

logging_log_file(polaris_conf_t)
polaris_conf_logManage(polaris_conf_t)

#/etc/version handling

type polaris_conf_t;

files_config_file(polaris_conf_t)
files_etc_filetrans(polaris_conf_t, polaris_conf_t, file, "version")
gen_require(
    type etc_t;
')
manage_files_pattern(polaris_conf_t, etc_t, polaris_conf_t)

#/usr/bin/sw synccdb" calls "confd_cmd -p 3010 -o -c "delete /software""
# that invokes /usr/binos/conf/install_assist.sh
polaris_install_engine_domtrans(polaris_conf_t)

# confd calls /usr/bin/sw that creates temp files in /tmp/cedge_sw_log
# since it runs under same domain make sure that cedge_sw_log gets
# right label
files_tmp_filetrans(polaris_conf_t, polaris_conf_t, dir, "cedge_sw_log")

#/tmp/confdbooted created by vip-confd-start
files_tmp_filetrans(polaris_conf_t, polaris_conf_t, file, "cedge_booted")

# runs flashutils to read rommon variables
polaris_flashlib_read(polaris_conf_t)
allow polaris_confd_t self:capability fowner;

optional_policy('  # work with /tmp/.econfd2sysmgr-ipc  polaris_econfd2sysmgr_tmp_manage(polaris_confd_t)
')

# confdexec calls dmidecode to get bios-vendor  dmidecode_domtrans(polaris_confd_t)

optional_policy('  # polaris_sw.sh called in confd context accesses  # /etc/viptela/controller_version  polaris_cedge_etc_manage(polaris_confd_t)
')

# PLEASE LOOK AT ME confd tcp ports are supposed to be handle  # through TDL pseudo services, that one it not  corenet_tcp_connect_polaris_confd_maapi_port(polaris_confd_t)

# confd starts cmdptywrapper utility through erl_child_setup  # that allocates free pty device using operations on /dev/ptms  allow polaris_confd_t self:capability { fsetid setgid };  term_getattr_pty_fs(polaris_confd_t)  term_setattr_generic_ptys(polaris_confd_t)  term_use_generic_ptys(polaris_confd_t)  term_use_ptmx(polaris_confd_t)

# uses nice utility to start misc scripts  allow polaris_confd_t self:process setsched;

# allow netconf_callhome to execute ncsshd under ncsshd domain  polaris_nccsshd_mgmt_domtrans(polaris_confd_t)

# allow DmiAuth spawned by confd to access /tmp/.DmiAuth.socket  polaris_dmi_dmiauthd_dgram_send(polaris_confd_t)

# the default port for NETCONF Call Home (SSH) is 4334,  # and it is configurable by users  corenet_tcp_connect_all_ports(polaris_confd_t)  # by default the port is selected by system, and it is configurable by users  corenet_tcp_bind_generic_port(polaris_confd_t)  # netconf_callhome may create vrf-based netns on demand  polaris_vrf_netns_manage(polaris_confd_t)

# cmdwrapper utility that started by confd calls xstat  allow polaris_confd_t self:capability setuid;
# label for /tmp/vconfd temporary files created by binos/viptela/vconfd/*.sh
# scripts created from viptela/vconfd/vconfd_script_cli_session.sh

type polaris_vconfd_tmp_t;
files_tmp_file(polaris_vconfd_tmp_t)

# confd writes /tmp/vconfd/USID.XXX and /tmp/vconfd/THANDLE.YYY files
polaris_vconfd_tmp_manage(polaris_confd_t)

# label for /tmp/confd_cli temporary files created by execute_confd_cli.sh

type polaris_confd_cli_tmp_t;
files_tmp_file(polaris_confd_cli_tmp_t)

# execute_confd_cli creates /tmp/sh-thd moved to /tmp/confd_cli
files_tmp_filetrans( { polaris_confd_t polaris_confd_cli_t}, polaris_confd_cli_tmp_t, dir, "confd_cli")

# execute_confd_cli.sh script policy
polaris_utility_domain_template(confd_cli)
polaris_bexecute_domain(polaris_confd_cli_t, polaris_confd_cli_exec_t)

  polaris_chasfs_read(polaris_confd_cli_t)
corecmd_exec_shell(polaris_confd_t)
corecmd_exec_bin(polaris_confd_cli_t)
auth_use_nsswitch(polaris_confd_cli_t)
# bash get_tmpdir statfs /tmp directory
fs_getattr_tmpfs(polaris_confd_cli_t)

polaris_confd_cli_tmp_manage(polaris_confd_cli_t)
polaris_vconfd_tmp_manage(polaris_confd_cli_t)
telnet_use_ptys(polaris_confd_cli_t)
polaris_ripc_confd_ipc_connect(polaris_confd_cli_t)

# execute_confd_cli.sh -a -g PRIV00 runs grep over /bootflash/sdwan/.init_stage
polaris_bootflash_read(polaris_confd_cli_t)

# execute_confd_cli.sh writes to "pipe:[24719894]"
polaris_dmi_ncshhd_fwd_use_fifo(polaris_confd_cli_t)
# allow /usr/binos/conf/bexecute.sh for tcp_socket access
# due to "/bin/sh /usr/binos/conf/mcp_chvrfs.sh eobc
# /usr/binos/conf/bexecute.sh -c /bin/mcp_pkg_wrap rp_daemons
# /usr/binos/conf/execute_co"
allow polaris_confd_cli_t polaris_dmi_ncshhd_fwd_t/tcp_socket ioctl;

# admin-tech : scripts in binos/viptela/vconfd/*admin_tech*.sh
# Invocation triggered here:
# viptela/vconfd/viptela-actions.yang: tailf:exec "vconfd_script_admin_tech.sh"

polaris_vconfd_domain_template(admin_tech)
# /bin/bash /usr/bin/os/conf/bshell.sh -S -c
# show platform hardware qfp active infrastructure shared-memory
# process cpp-control-pro.....
polaris_bexecute_domtrans(polaris_admin_tech_t)

# admin-tech launches "ps" via scripts
domain_read_all_domains_state(polaris_admin_tech_t)

# See tracelogs accessed by vconfd_script_polaris_admin_tech_child.sh
polaris_btrace_data_manage_all(polaris_admin_tech_t)

# various utilities like "find", "memaudit", etc needs this
files_getattr_all_files(polaris_admin_tech_t)
files_getattr_all_dirs(polaris_admin_tech_t)
fs_getattr_all_fs(polaris_admin_tech_t)
files_read_all_files(polaris_admin_tech_t)

# '/bin/bash /usr/bin/memaudit' needs access to /proc/kmsg, /proc/mdstat, etc
dev_getattr_mtrr_dev(polaris_admin_tech_t)
kernell_read_all_proc(polaris_admin_tech_t)
dev_getattr_loop_control(polaris_admin_tech_t)

# infra/memaudit/memaudit uses dmesg
dmesg_domtrans(polaris_admin_tech_t)
gen_require('type dmesg_t;'
')
polaris_confd_unix_stream_stdio_use(dmesg_t)

# infra/memaudit/memaudit uses mount
mount_domtrans(polaris_admin_tech_t)

# infra/memaudit/memaudit uses fdisk
fstools_domtrans(polaris_admin_tech_t)
polaris_nvram_read(polaris_admin_tech_t)
polaris_nvram_getattr(polaris_admin_tech_t)

# infra/memaudit/memaudit writes to /proc/sys/vm/drop_caches
kernel_rw_vm_sysctls(polaris_admin_tech_t)

# memaudit and smap needs 'getattr', 'search' on sysctl_irq_t:dir
kernel_read_irq_sysctls(polaris_admin_tech_t)

# du -b -s /tmp/cc /tmp/rp /tmp/fp
files_getattr_all_sockets(polaris_admin_tech_t)
files_getattr_all_pipes(polaris_admin_tech_t)
# df -Th -BM needs access to /run/netns/2
fs_getattr_nsfs_files(polaris_admin_tech_t)

# ls /tmp/ufs/harddisk
# maapi --clicmd --get-io --no-hidden show configuration commit list
corecmd_exec_bin(polaris_admin_tech_t)

# bash vconfd_script_admin_tech.sh -u root -c cli executes:
# 1. map on /etc/passwd
auth_map_passwd(polaris_admin_tech_t)
# 2. hostname
hostname_exec(polaris_admin_tech_t)
# 3. journaldctl
journaldctl_domtrans(polaris_admin_tech_t)

# journaldctl writes to /tmp/vm4-bootuplog-20200903-175223-UTC.log
# see vconfd_script_polaris_admin_tech_child.sh

gen_require(
    type journalctl_t;
)

manage_files_pattern(journalctl_t, polaris_admin_tech_tmp_t, polaris_admin_tech_tmp_t)
polaris_confd_unix_stream_stdio_use(journalctl_t)

# admin_tech reads /tmp/chassis/cpld/chasfs/board_vtype on crankshaft(sdwan)
polaris_chasfs_read(polaris_admin_tech_t)

# find -H /misc/scratch -name MEMORY_LOG_*.text
# memaudit writes to /bootflash/MEMORY_LOG_2020-07-28-01:32:11.text
# We also have 'mv -Z /bootflash/admintech /var/tech/ios'
# admin_tech watches /tmp/chassis/local/rp/chasfs/etc/ios_admintech_done
type polaris_admin_tech_data_t;
polaris_disk_type(polaris_admin_tech_data_t)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, dir)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, file)
polaris_admin_tech_data_manage(polaris_admin_tech_t)

# sdwan_tech_support.sh -o /var/tech/binos; work with /var/tech/ files
type polaris_admin_tech_var_t;
files_tmp_file(polaris_admin_tech_var_t)
files_var_filetrans(polaris_admin_tech_var_t, polaris_admin_tech_var_t, dir, "tech")
manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)
manage_dirs_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)

# vconfd_script_polaris_admin_tech.sh invokes vlog "Requested admin-tech initiated."
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - create/connect unix_dgram_socket of type polaris_admin_tech_t
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_admin_tech_t)

# maapi --cliget paginate: this performs connect to confd socket
polaris_ripc_confed_ipc_connect(polaris_admin_tech_t)

# reads /tmp/chassis/cpld/chasfs/board_vtype
# on c8kv cpld is at /sys/bus/platform/devices/cpld which has sysfs_t LABEL
polaris_cpld_read(polaris_admin_tech_t)

# handle various files created under /tmp
type polaris_admin_tech_tmp_t;
files_tmp_file(polaris_admin_tech_tmp_t)
files_tmp_filetrans(polaris_admin_tech_t, polaris_admin_tech_tmp_t, file)
manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_tmp_t, polaris_admin_tech_tmp_t)

# As part of admin-tech generation on cEdges, vconfd_script_polaris_admin_tech.sh
# invokes vconfd_script_polaris_admin_tech_child.sh which in turn invokes the
# script sdwan_tech_support.sh. The sdwan_tech_support.sh passes the file
# /tmp/sdwan_tech_support_command_file_out.txt to a bshell instance. The bshell
# instance does open operation on the file. So bshell needs open allow
# policy for /tmp/sdwan_tech_support_command_file_out.txt
gen_require('type polaris_bshell_t;')
allow polaris_bshell_t polaris_admin_tech_tmp_t:file open;

# maapi needs this.
allow polaris_admin_tech_t self:tcp_socket { getopt setopt create connect read write };

# tar --ignore-failed-read -czf /home/vmanage-admin/vm4-20200903-055157-admin-tech.tar.gz
# /tmp/fp/trace/cpp_cp_F0-0_TAN.20041_0.20
allow polaris_admin_tech_t self:capability dac_override;

# 'top -n1 -b' creates .config dir
# TODO/LOOKATME: selinux team to review handling of this issue in a
# common way for invoking top
allow polaris_admin_tech_t root_t:dir create;

# "show installerfs" is invoked by vconfd_script_admin_tech_common.sh
# this invokes vconfd_script_show_installerfs.sh via confd
# let's execute this under install_show domain
polaris_install_show_domtrans(polaris_confd_t)

# create_bootflash_snapshot() performs 'ls -l /bootflash/installer'
polaris_disk_install_read(polaris_admin_t_tech_t)

# vconfd_script_polaris_admin_tech_child.sh
# mv /bootflash/admintech /var/tech/ios
allow polaris_admin_tech_t setfscreate;

# rm -rf $collated_ra (collated_log_*)

# Nutella-XE - Vedge image install
#/bin/sh /tmp/sw/rp/0/0/rp_security/mount/sw syncdb
#mount -t vfat /dev/mmcblk0gp0p1 /gpp
mount_domtrans(polaris_confd_t)

# df /bootflash
fstools_domtrans(polaris_confd_t)

# Nutella-XE - Vedge image activate
#/usr/bin/os/bin/flashutil --command unsetvar --name MIG_INT_STATE
polaris_flashlib_write(polaris_confd_t)

# permit comm="ps" to "getattr" on dev="devtmpfs" for polaris_admin_tech_t
term_getattr_unallocated_ttys(polaris_admin_tech_t)

# permit to access polaris_proc_rmonbifo_t by
#/usr/bin/vconfd_script_admin_tech.sh
polaris_proc_rmonbifo_read(polaris_admin_tech_t)

# permit to access/unlink /bootflash by polaris_admin_tech_t
polaris_bootflash_manage(polaris_admin_tech_t)

# vconfd_script_admin_tech.sh executes 'top -n1 -b' which creates /.config dir
gen_require(
    type admin_home_t;
)
allow polaris_admin_tech_t admin_home_t:dir { add_name create write ;

# vconfd_script_admin_tech.sh sources vconfd_script_cli_session.sh and calls
# start_cli_session() which writes to /tmp/vconfd/USID.XXX,
# /tmp/vconfd/THANDLE.YYY and /tmp/vconfd/start_cli.XXXXXXXXXX
polaris_vconfd_tmp_manage(polaris_admin_tech_t)

# work with "/tmp/fp/pvp/work/inot_fifo"
polaris_pvp_stdin_read(polaris_admin_tech_t)

# work with "/tmp/fp/trace/fifo/pvp_sh%fp_0_0_22607_fifo"
polaris_use_btrace_fifo(polaris_admin_tech_t)

# access to tunnel interface from snapshot_cdb()
corenet_ruw_tun_tap_dev(polaris_confed_t)

# access to /tmp/bootstrap/cisco_sdwan_cloud_init.cfg
init_read_script_tmp_files(polaris_confed_t)

# "vconfd_notifier security-clear-installed-cert" reads
# /var/run/netns/default which is symlinked to /proc/1/ns/net
polaris_cedge_reset(ns(polaris_confed_t)

# allow /usr/binos/conf/execonfd_cli.sh to access polaris_disk_install_t
polaris_disk_install_read(polaris_confed_cli_t)

# vconfd script ends up cleaning core files, most likely its
# vconfd_script_polaris_admin_tech_child.sh, so it needs read/write
# permission to polaris_core_file_t files.
polaris_core_file_manage(polaris_admin_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisconfd.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#
/usr/binos/conf/bexecute.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/bin/bexecute -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
# still exists for backward compatibility
/tmp/etc/bexecute -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/bexecute.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/brelay.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/bin/brelay -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/ioucon.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/bin/runin.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/runin_exec_proc.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/runon.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/in.telnetd.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/brelay_console.sh -- gen_context(system_u:object_r:polaris_bconsole_exec_t,s0)

# mcp_chvrf.sh used by some systemd units to switch vrf (ip namespace)
# of xinetd that drives brelay service
/usr/binos/conf/mcp_chvrf.sh -- gen_context(system_u:object_r:polaris_chvrf_exec_t,s0)

# used by "request platform software system shell" CLI
# used by "sh pla so process memory r0 name iosd maps" CLI
/usr/binos/conf/mcp_process_maps.sh -- gen_context(system_u:object_r:polaris_process_maps_exec_t,s0)

# used by "req platform software console attach switch standby R0" CLI
/usr/binos/conf/mcp_console_attach.sh -- gen_context(system_u:object_r:polaris_mcp_console_attach_exec_t,s0)
/usr/binos/bin/ioucon -- gen_context(system_u:object_r:polaris_ioucon_exec_t,s0)

# ngio_module_session.sh used by "hw-module session" CLI
/usr/binos/conf/ngio_module_session.sh -- gen_context(system_u:object_r:polaris_ngio_module_session_exec_t,s0)

#used by "upgrade rom-monitor capsule primary switch 1 R0" CLI
/usr/binos/conf/cat9k-primary-capsule-upgrade.sh --
gen_context(system_u:object_r:polaris_capsule_upgrade_exec_t,s0)

/usr/binos/conf/cat9k-capsule-upgrade.sh -- gen_context(system_u:object_r:polaris_capsule_upgrade_exec_t,s0)

/mnt/sd3/user/capsule-upgrade.log -- gen_context(system_u:object_r:polaris_capsule_upgrade_log_t,s0)
/usr/binos/conf/mcp_dmesg_service.sh -- gen_context(system_u:object_r:polaris_mcp_dmesg_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbexecute.fc
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#
# April 2017, Victor Kamensky
#
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#

## <summary>Polaris dmi_ncsshd_fwd Policy Rules.</summary>

########################################
##<summary>
##     Connect to and send messages to dmi ncsshd_bp
## tmp/.ncsshd_bp.sock unix datagram sockets.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface(`polaris_dmi_ncsshd_fwd_dgram_send`,
gen_require(`
type polaris_dmi_ncsshd_log_t;
  type polaris_dmi_ncsshd_fwd_t;
)

allow $1 self:unix_stream_socket {create_socket_perms};
allow $1 polaris_dmi_ncsshd_fwd_t:unix_stream_socket {connectto};
write_sock_files_pattern($1, polaris_dmi_ncsshd_log_t, polaris_dmi_ncsshd_log_t)
)

# Write into fifo file created by dmi_ncsshd_fwd, typical case when hman starts script under popen.
# Domain allowed access.
#
interface('polaris_dmi_ncsshd_fwd_use_fifo',
  gen_require('  type polaris_dmi_ncsshd_fwd_t;
  ')
  write_fifo_files_pattern($1, polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_fwd_t)
')

policy_module(polarissmd, 1.0);
polaris_btrace_data_manage(polaris_smd_t)
polaris_crft_data_manage(polaris_smd_t)
polaris_chasfs_manage(polaris_smd_t)
polaris_tdlresolve_read(polaris_smd_t)
polaris_tdlldb_list_dirs(polaris_smd_t)
polaris_cpld_read(polaris_smd_t)
polaris_lua_read(polaris_smd_t)
polaris_flashlib_read(polaris_smd_t)

polaris_ripcc_sman_ui_serv_connect(polaris_smd_t)

# working with smd persistent/ disk files
type polaris_smd_disk_t;
polaris_disk_type(polaris_smd_disk_t)

manage_files_pattern(polaris_smd_t, polaris_smd_disk_t, polaris_smd_disk_t)

polaris_db_tdlldb_dir_use(polaris_smd_t)

# access to persist tdlldb (e.g. .dbpersist)
polaris_tdlldbpersist_setup(polaris_smd_t)

# for /dev/shm/errno_dell
polaris_errno_shm_manage(polaris_smd_t)

ifdef(`nyquist_platform',
   gen_require(
      type polaris_bt_logger_smd_mqipc_t;
      polaris_mqipc_create_name(polaris_smd_t, polaris_bt_logger_smd_mqipc_t, bt_logger_smd)
   )
   polaris_lfts_dev_use(polaris_smd_t)

allow polaris_smd_t self:capability { sys_resource net_bind_service };

polaris_socketat_nsfs_read(polaris_smd_t)

allow polaris_smd_t self:process setrlimit;

corenct_tcp_bind_polaris_smd_devshell_port(polaris_smd_t)
corenct_tcp_bind_generic_node(polaris_smd_t)
allow polaris_smd_t self:tcp_socket { getattr setopt getopt bind create listen accept connect read write name_connect };
allow polaris_smd_t self:capability { net_admin sys_admin };

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6284
allow polaris_smd_t self:udp_socket { create_socket_perms recv_msg send_msg }

# smutil_msg_event_cb_handler() uses netlink
allow polaris_smd_t self:netlink_socket { bind create }

# LOOK AT ME: now smd may open arbitrary port on forwarding VRF (16)
# but in SELinux there is no way to differentiate between port spaces
# across VRFs or namespaces. For now let's grant smd_t access to all ports
# regardless of VRF. In future investigate ways to be more restrictive
corenet_udp_bind_generic_port(polaris_smd_t)
corenet_udp_sendrecv_generic_port(polaris_smd_t)

# LOOK AT ME: grants access to udp_bind on any node, but if we can
# be more specific and bind only to forwarding VRF related interfaces
corenet_udp_bind_generic_node(polaris_smd_t)

corenet_tcp_bind_http_port(polaris_smd_t)

allow polaris_smd_t self:capability dac_override;

logging_send_syslog_msg(polaris_smd_t)

allow polaris_smd_t self:capability net_raw;
allow polaris_smd_t self:packet_socket { create_socket_perms recv_msg send_msg }

# for access to disk html files (for webauth)
polaris_persistent_read(polaris_smd_t)

# transition for dc_profile_dir to polaris_smd_disk_t
gen_require('
    type initrc_t;
')
polaris_bootflash_filetrans(initrc_t, polaris_smd_disk_t, dir, "dc_profile_dir")

# SANET is listening on http port(CSCvb41802)
# Hence, it needs to follow the same rule as nginx is using in polarisnginx.te
# FIXME: add interface to allow bind to port 1025-65535
corenet_tcp_bind_all_ports(polaris_smd_t)

polaris_issu_tmp_files_read(polaris_smd_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissmd.te
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#
# August 2017, Shawn Lu
policy_module(polarisodmproxy, 1.0);

gen_require(`
   type polaris_odm_proxy_t;
`)

polaris_btrace_data_manage(polaris_odm_proxy_t)
polaris_crft_data_manage(polaris_odm_proxy_t)
polaris_chasfs_manage(polaris_odm_proxy_t)
polaris_tdlresolve_read(polaris_odm_proxy_t)
polaris_tdlldb_list_dirs(polaris_odm_proxy_t)
polaris_cpld_read(polaris_odm_proxy_t)
polaris_lua_read(polaris_odm_proxy_t)
polaris_flashlib_read(polaris_odm_proxy_t)
polaris_ripc_sman_ui_serv_connect(polaris_odm_proxy_t)
polaris_db_tdlldb_dir_use(polaris_odm_proxy_t)

#allow to setrlimit
allow polaris_odm_proxy_t self:capability sys_resource;
allow polaris_odm_proxy_t self:process setrlimit;
allow polaris_odm_proxy_t self:capability dac_override;

polaris_odm_clnt2svr_mqipc_create(polaris_odm_proxy_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisodmproxy.te
No license file was found, but licenses were detected in source scan.

policy_module(polarisperiodic, 1.0);

gen_require(`
   type polaris_periodic_t;
`)

# March 2017, Victor Kamensky
#
corecmd_exec_bin(polaris_periodic_t)
corecmd_exec_shell(polaris_periodic_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_periodic_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_periodic_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_periodic_t)

# read /etc/init.d/common-utility-functions
init_read_script_files(polaris_periodic_t)

fs_getattr_all_fs(polaris_periodic_t)

# work with /tmp files
type polaris_periodic_tmp_t;
files_tmp_file(polaris_periodic_tmp_t)
manage_files_pattern(polaris_periodic_t, tmp_t, polaris_periodic_tmp_t)
files_tmp_filetrans(polaris_periodic_t, polaris_periodic_tmp_t, file)

allow polaris_periodic_t self:capability sys_resource;

polaris_btrace_data_manage(polaris_periodic_t)
polaris_chasfs_manage(polaris_periodic_t)
polaris_cpld_read(polaris_periodic_t)
polaris_proc_rmonbifo_read(polaris_periodic_t)
polaris_rmonbifo_tmp_read(polaris_periodic_t)
polaris_boot_tmp_read(polaris_periodic_t)
polaris_read_debug_conf(polaris_periodic_t)
polaris_persistent_manage(polaris_periodic_t)

# reads /tmp/issu_proc
polaris_install_tmp_read(polaris_periodic_t)

optional_policy(
  polaris_ncd_tmp_read(polaris_periodic_t)
  )

# "install add file" CLI triggers logger sending syslog messages
logging_send_syslog_msg(polaris_periodic_t)

# "install add file" CLI triggers logger executing "pidof linux_iosd-image" which
# read "/sys/devices/system/cpu/online"
dev_read_sysfs(polaris_periodic_t)

# /usr/binos/conf/cleanup.sh do_cleanup does packages and other umount calls
mount_domtrans(polaris_periodic_t)
polaris_sw_data_manage(polaris_periodic_t)

# determine if the installer is executing
domain_read_all_domains_state(polaris_periodic_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_periodic_t)

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisperiodic.te
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#
# July 2017, Victor Kamensky
#
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#

policy_module(polariscppcdm, 1.0);

    gen_require(
      type polaris_cpp_cdm_t;
    )

polaris_btrace_data_manage(polaris_cpp_cdm_t)
polaris_crft_data_manage(polaris_cpp_cdm_t)
polaris_chasfs_manage(polaris_cpp_cdm_t)
polaris_tdlresolve_read(polaris_cpp_cdm_t)
polaris_tdldb_list_dirs(polaris_cpp_cdm_t)
polaris_cpld_read(polaris_cpp_cdm_t)
polaris_flashlib_read(polaris_cpp_cdm_t)
polaris_cpp_tmp_files_use(polaris_cpp_cdm_t)
  # works with /dev/cpp_dev_info and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_cdm_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_cdm_t)
polaris_icc_broken_relocations(polaris_cpp_cdm_t)

    allow polaris_cpp_cdm_t self:capability net_admin;

    # get attributes of /dev/shm from glibc where_is_shmfs function
fs_getattr_tmpfs(polaris_cpp_cdm_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cdm_t)
# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',
polaris_dev_mem_use(polaris_cpp_cdm_t)
')

# overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
# when initializing the CPP DMAP library.
optional_policy(
polaris_cpp_cavium_dma_map(polaris_cpp_cdm_t)
')

optional_policy(
polaris_cbdma_dev_use(polaris_cpp_cdm_t)
')
polaris_cpld_dev_use(polaris_cpp_cdm_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppcdm.te
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#
# July 2017, Victor Kamensky
#
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#

policy_module(polarisiomd, 1.0);

gen_require(
  type polaris_iomd_t;
')
polaris_btrace_data_manage(polaris_iomd_t)
polaris_crft_data_manage(polaris_iomd_t)
polaris_chasfs_manage(polaris_iomd_t)
polaris_tdlresolve_read(polaris_iomd_t)
polaris_tdlldb_list_dirs(polaris_iomd_t)
polaris_cpld_read(polaris_iomd_t)
polaris_flashlib_read(polaris_iomd_t)
polaris_ripc_sman_ui_serv_connect(polaris_iomd_t)
polaris_db_tdlldb_dir_use(polaris_iomd_t)
opportunistic_read(polaris_iomd_t)
opportunistic_read(polaris_iomd_t)
opportunistic_read(polaris_iomd_t)
polaris_spa_dev_use(polaris_iomd_t)
')

# allow objstore access
polaris_disk_objstore_read(polaris_iomd_t)

polaris_ngio_dev_use(polaris_iomd_t)

# deals with /dev/shm files semaphores; like uuid_sem semaphore
# created by btrace_get_uuid function
type polaris_iomd_tmpfs_t;
files_tmpfs_file(polaris_iomd_tmpfs_t)
fs_tmpfs_filetrans(polaris_iomd_t, polaris_iomd_tmpfs_t, file)
manage_files_pattern(polaris_iomd_t, tmpfs_t, polaris_iomd_tmpfs_t)
# sem_open through where_is_tmpfs does stat on /dev/shm
fs_getattr_tmpfs(polaris_iomd_t)

#allow /dev/i2c device file
polaris_i2c_use(polaris_iomd_t)

ifdef(`ngwc_family',

# On Macallan platforms the following api call from iomd process,
# ngmodslot_is_upper_sup_present() does a read access of /dev/cpld
polaris_cpld_dev_read(polaris_iomd_t)
polaris_cpld_dev_use(polaris_iomd_t)

#allow cpp tmp file
polaris_cpp_tmp_files_use(polaris_iomd_t)

# In Macallan cards which use Doppler ASIC,
# IOMD module uses ngmod_doppler_mmap() api to get hold of
# MMapped Asic address. As part of the operation it uses
# /dev/chdrvmmap device.
polaris_chdrvmmap_dev_use(polaris_iomd_t)

# IOMD module invokes ASIC Scan functionality
# and calls asic_register_intr_handler() which
# needs to access the doppler MSI devices
# /dev/pci/Slot[0-9]/Doppler[0-9]/Group[0-9]
polaris_dplr_dev_use(polaris_iomd_t)
# but above still not enough at some point
# device like /dev/pci/Slot8/Doppler0/Group0 still
# considered as device_t, not clear need to look a bit more
dev_rw_generic_chr_files(polaris_iomd_t)

# on macallan iomd needs access to /dev/cisco/dplriomem
# for mapping dplr io memory to application space,
polaris_dplr_iomem_mmapdrv_dev_use(polaris_iomd_t);
# IOMD calls ngmod_obfl_errmssg_app_init() to initialize
# OBFL.
polaris_obfl_data_manage(polaris_iomd_t)

# IOMD fast path code invokes ngmod_fastpath_thread_func(),
# which increases the scheduler priority.
allow polaris_iomd_t self:capability sys_nice;
allow polaris_iomd_t self:process setsched;

# on macallan iomd needs access to /dev/cisco/fpgaiomem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapfpga_dev_use(polaris_iomd_t);

optional_policy(
  # ASIC related mmap code in IOMD needs to acces PCI scan related
  # rescan shm mutex
  polaris_cm_cc_tmpfs_manage(polaris_iomd_t)
)
)

# both utah and macallan text relocations in libcpp_common_os.so
ifdef(`crankshaft_family',
polaris_icc_broken_relocations(polaris_iomd_t)
# Nightwatch switch module needs to access the doppler devices
polaris_dplr_dev_use(polaris_iomd_t)
dev_rw_genericChr_files(polaris_iomd_t)
allow polaris_iomd_t self:capability sys_nice;
allow polaris_iomd_t self:process setsched;
)

optional_policy(
  # Allow /dev/dmammap access
  polaris_dmammap_dev_use(polaris_iomd_t)
)
)

optional_policy(
  # on starfleet access gettysburg_fpga
  polaris_gettysburg_fpga_dev_use(polaris_iomd_t)
)
)

type polaris_iomd_tmp_t;
files_tmp_file(polaris_iomd_tmp_t)
manage_dirs_pattern(polaris_iomd_tmp_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_files_pattern(polaris_iomd_tmp_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_fifo_files_pattern(polaris_iomd_tmp_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)

# on macallan MRVL88X5113_DRV_PRINT macro outputs into /tmp/mrvl88x5113.log file

files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, file, "mrvl88x5113.log")

logging_send_syslog_msg(polaris_iomd_t)

ifdef('ngwc_family',`
  # from in115050_test_app_thread_create in
  # drivers/userspace/inphi/dev_ephy_in115050/src/dev_ephy_in115050.c
  # For macallan in115025_test_app_thread_create in
  # drivers/userspace/inphi/dev_ephy_in115025/src/dev_ephy_in115025.c

  files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_inphi")

  # In case of starfleet fixed the following module creates folder in /tmp
  # /drivers/userspace/mrvl_phy/dev_ephy_mrvl88ec808/src/dev_ephy_m88ec808.c

  files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_mrvlphy")

  #allow access to /tmp/serdes_asic_key_dir as this path is used both by
  #cman_fp for programming DPP serdes and IOMD for programming n/w serdes
  optional_policy(`
    polarris_serdes_asic_key_tmp_manage(polaris_iomd_t)
  `)

  # Doppler E mac creates lockfiles with names following
  # the pattern /tmp/nug_asic_key_dir/nug_asic_key_[0-9]_[0-9]_[0-9]

  files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "nug_asic_key_dir")

  # Doppler ES mac creates lockfiles with names following
  # the pattern /tmp/rmt_asic_key_dir/rmt_asic_key_[0-9]_[0-9]_[0-9]

  files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "rmt_asic_key_dir")

  # from etopus_spawn_serdes_tool_thread in
  # binos/platforms/ngwc/doppler_sdk/drivers/serdes/Vendor/src/etopus_serdes.c

  files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_etp")

  # on starfleet access /dev/cpld, in iomd_starfleet_create_mmap()

  polaris_cpld_dev_use(polaris_iomd_t)
`
)

optional_policy(`
  polaris_ngwc_itfpo_manage(polaris_iomd_t)
`
)

# ngio device
type polaris_ngio_device_t;
dev_node(polaris_ngio_device_t)

# For NGIO modules iomd uses netlink socket (via backplane switch)
allow polaris_iomd_t self:netlink_socket { bind create };
ifdef(`sumatra_platform',
#on Sumatra access /dev/cpld from iomd
polaris_cpld_dev_use(polaris_iomd_t)
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_iomd_t)
polaris_sumatra_doppler_dev_use(polaris_iomd_t)

#access SERDES /tmp/serdes_asic_key_dir/*
polaris_serdes_asic_key_tmp_manage(polaris_iomd_t)

# access /dev/huron_fpga
polaris_huron_dev_use(polaris_iomd_t)

# manage "sysctrl_i2c.lck"
gen_require(
       type polaris_cm_rp_tmp_t;
   )
files_tmp_filetrans(polaris_iomd_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_iomd_t)

# comm="iomd" kmod="netdev-bp246"
kernel_request_load_module(polaris_iomd_t)

# work with /sys/devices/i2c-15/15-0076/...
dev_rw_sysfs(polaris_iomd_t)
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisio.md.te
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#
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#
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#

policy_module(polariscpp, 1.0):

#############################################################################
# Polaris cpp (ultra)
#############################################################################

type polaris_cpp_device_t;
dev_node(polaris_cpp_device_t)

# deals with /dev/shm files semaphors, etc
type polaris_cpp_tmpfs_t;
files_tmpfs_file(polaris_cpp_tmpfs_t)
attribute polaris_cpp_domain;
fs_tmpfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
manage_files_pattern(polaris_cpp_domain, tmpfs_t, polaris_cpp_tmpfs_t)
allow polaris_cpp_domain polaris_cpp_tmpfs_t:file map;
polaris_cpp_tmpfs_manage(polaris_cpp_domain)
polaris_cerr_shm_manage(polaris_cpp_domain)

# on TSN ucode_dram lives in hugetlbfs
fs_hugetlbfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
gen_require("
    type hugetlbfs_t;
"
)manage_files_pattern(polaris_cpp_domain, hugetlbfs_t, polaris_cpp_tmpfs_t)

# deals with cpp /tmp files
type polaris_cpp_tmp_t;
files_tmp_file(polaris_cpp_tmp_t)
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file, "cpp_anon_db")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file, "qm_rt_dbg")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, fifo_file, "cpp_ifdev_rep")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, fifo_file, "cpp_ifdev_req")
manage_files_pattern(polaris_cpp_domain, tmpfs_t, polaris_cpp_tmpfs_t)
manage_fifo_files_pattern(polaris_cpp_domain, tmpfs_t, polaris_cpp_tmpfs_t)
allow polaris_cpp_domain polaris_cpp_tmpfs_t:file map;

fs_getattr_tmpfs(polaris_cpp_domain)

# overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
# when initializing the CPP DMAP library
optional_policy("
    polaris_cpp_cavium_dma_map(polaris_cpp_domain)
"
)

type polaris_i95_device_t;
dev_node(polaris_i95_device_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscpp.te
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#
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#
Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismemory.fc
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#

policy_module(polarisdmincsshdmgmt, 1.0);

gen_require(
    type polaris_dmi_ncsshd_mgmt_t;
')

polaris_btrace_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_chasfs_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_tdlresolve_read(polaris_dmi_ncsshd_mgmt_t)
polaris_tldldb_list_dirs(polaris_dmi_ncsshd_mgmt_t)
polaris_flashlib_read(polaris_dmi_ncsshd_mgmt_t)

corenet_tcp_bind_generic_node(polaris_dmi_ncsshd_mgmt_t)
allow polaris_dmi_ncsshd_mgmt_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write }
allow polaris_dmi_ncsshd_mgmt_t self:udp_socket { getattr create connect read write }
allow polaris_dmi_ncsshd_mgmt_t self:cap_users { sys_admin net_bind_service }

type polaris_dmi_ncsshd_mgmt_var_run_t;
files_pid_file(polaris_dmi_ncsshd_mgmt_var_run_t)
manage_dirs_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t,
polaris_dmi_ncsshd_mgmt_var_run_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t,
polaris_dmi_ncsshd_mgmt_var_run_t)
files_pid_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, { file dir })

# access /var/log/lastlog, /var/log/btmp

type polaris_dmi_ncsshd_mgmt_var_log_t;
logging_log_file(polaris_dmi_ncsshd_mgmt_var_log_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t,
polaris_dmi_ncsshd_mgmt_var_log_t)
logging_log_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, file, "lastlog")
logging_log_filetrans(polaris_dmi_nccsHD_mgmt_t, polaris_dmi_nccsHD_mgmt_var_log_t, file, "btmp")

polaris_dmi_nccsHD_fwd_dgram_send(polaris_dmi_nccsHD_mgmt_t)

corenets_tcp_bind_polaris_dmi_nccsHD_mgmt_port(polaris_dmi_nccsHD_mgmt_t)
# nccsHD allows user-defined port with: netconf-yang ssh port <port_no>
corenets_tcp_bind_all_ports(polaris_dmi_nccsHD_mgmt_t)

auth_use_nsswitch(polaris_dmi_nccsHD_mgmt_t)
# assign following capabilities needed by sshd
allow polaris_dmi_nccsHD_mgmt_t self:capability {net_admin setgid sys_resource setuid sys_chroot kill};
allow polaris_dmi_nccsHD_mgmt_t self:process setrlimit;

# nccsHD requests pseudo terminal when netconf session is set up without
# explicitly specifying the subsystem name, such as netconf.
allow polaris_dmi_nccsHD_mgmt_t self:capability { chown fowner fsetid };
term_setattr_generic_ptys(polaris_dmi_nccsHD_mgmt_t)
term_getattr_pty_fs(polaris_dmi_nccsHD_mgmt_t)
term_use_generic_ptys(polaris_dmi_nccsHD_mgmt_t)
term_use_ptmx(polaris_dmi_nccsHD_mgmt_t)

# enable to read cpld file "/sys/devices/platform/cpld/board_vtype"
polaris_cpld_read(polaris_dmi_nccsHD_mgmt_t)
# for ssHD needs access network interface resource
allow polaris_dmi_nccsHD_mgmt_t self:netlink_route_socket r_netlink_socket_perms;

# calls socketat server_listen at mgmt/dmi/nccsHD/src/ssHD.c
polaris_socketat_nsfs_read(polaris_dmi_nccsHD_mgmt_t)
polaris_lfts_dev_use(polaris_dmi_nccsHD_mgmt_t)
corecmd_exec_bin(polaris_dmi_nccsHD_mgmt_t)

logging_send_syslog_msg(polaris_dmi_nccsHD_mgmt_t)
# TODO : revisit below statement when addressing initrc_exec_t denial
polaris_rmonbifo_tmp_read(polaris_dmi_nccsHD_mgmt_t)

# allow access to /tmp/sw/cfg and /tmp/sw/boot
polaris_boot_tmp_read(polaris_dmi_nccsHD_mgmt_t)
polaris_cfg_data_manage(polaris_dmi_nccsHD_mgmt_t)
polaris_dmi_dmiauthd_dgram_send(polaris_dmi_nccsHD_mgmt_t)
corenets_tcp_connect_polaris_netconf_interceptor_port(polaris_dmi_nccsHD_mgmt_t);
# This fixes runin.sh related denials. Refer to auth.c file which invokes bshell.
polaris_bexecute_domtrans(polaris_dmi_nccsHD_mgmt_t);

# This fixes authorized keys access related denials.
polaris_nccsHDAuthorized_keys_read(polaris_dmi_nccsHD_mgmt_t);
# This fixes denials related to interceptor files.
polaris_interceptor_manage(polaris_dmi_ncsshd_mgmt_t);

# This fixes denials related to netconf_callhome executable

gen_require('  
    type polaris_confd_t;
')
allow polaris_dmi_ncsshd_mgmt_t polaris_confd_t:tcp_socket { getattr getopt setopt };

# This fixes denials related to route, scp, chvrf command executables
# { read open getattr } operations are allowed on route command
# { search open } operations are allowed on scp command
# { read open execute execute_no_trans } operations are allowed on chvrf command
kernel_read_network_state(polaris_dmi_ncsshd_mgmt_t)

optional_policy('  
# allows access to /tmp/xml/Intf dir and files
polaris_cedge_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_cedge_xml_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
')

# This fixes denials related to ifconfig executable
# { execute read open execute_no_trans map getattr } operations are allowed
sysnet_domtrans_ifconfig(polaris_dmi_ncsshd_mgmt_t)

# This fixes access denials related to confd checking ncsshd_mgmt proc info
# /proc/<ncsshd pid>/
read_files_pattern(polaris_confd_t, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)
read_lnk_files_pattern(polaris_confd_t, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)

# allows access for admin-tech generation from vManage
polaris_admin_tech_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_bootflash_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_cfg_data_t
polaris_cfg_data_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_boot_tmp_t
polaris_boot_tmp_read(polaris_dmi_ncsshd_mgmt_t)

# allow to watch /var/run/netns and list dir
polaris_watch_netns(polaris_dmi_ncsshd_mgmt_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmincsshdmgmt.te

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#
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#

policy_module(polarislua, 1.0);

# Lua policy

type polaris_lua_file_t;
files_type(polaris_lua_file_t)

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislua.te
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#

/tmp/tdlresolve_tmp(./.*)? gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/tmp/tdlresolve(./.*)? gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/usr/binos/conf/global.service.conf -- gen_context(system_u:object_r:polaris_global_service_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristdlresolve.fc
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#

## <summary>Polaris Memory Service Policy Rules.</summary>

# Polaris memory: libmaroon and such


## <summary>
## Allow the specified domain to check existence of
## /lib/systemd/system/ksm.service file. Effectively checking
## whether KSM kernel feature is enabled on device or not.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_ksm_run_check',
    gen_require(
        type systemd_unit_file_t;
    )

    getattr_files_pattern($1, systemd_unit_file_t, systemd_unit_file_t)
)

#######################################
## <summary>
## Manage temporary maroon files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
# interface('polaris_maroon_data_manage_all',

    gen_require(
        attribute polaris_maroon_data_domain;
        type polaris_maroon_base_t;
    )

    manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_data_domain) 
    allow $1 polaris_maroon_data_domain:file map;

    # manage temporary files in maroon_stats directory 
    manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_base_t)
)

#######################################
## <summary>
## Make the specified type usable as maroon data file type.
## </summary>
interface('polaris_maroon_data_client_template',
   gen_require('`
   type polaris_maroon_base_t;
   ')

   type polaris_$1_maroon_t;
   polaris_maroon_data_type(polaris_$1_maroon_t)

   polaris_maroon_data_client(polaris_$1_t, polaris_$1_maroon_t)
   ')

###########################################################################
## </summary>
## Getattr of polaris_zram_device_t files
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
# interface('polaris_zram_getattr',
   gen_require('`
   type device_t;
   type polaris_zram_device_t;
   ')
   getattr_blk_files_pattern($1, device_t, polaris_zram_device_t)
   ')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismemory.if
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#

## <summary>Polaris ftm Policy Rules.</summary>

###########################################################################
## <summary>
## Write ttm /var/run socket file
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
## </param>
#
# interface(`polaris_ftm_var_sock_write',`
  gen_require(^
   type polaris_ftm_t;
   type polaris_ftm_var_run_t;
   type var_run_t;
   )
  write_sock_files_pattern($1, var_run_t, polaris_ftm_var_run_t)
  allow $1 polaris_ftm_t:unix_stream_socket { connectto ;
  }
  )

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisftm.if
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl divert(-1)

include(`polaris_process.m4')
include(`polaris_process_if.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_if.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_if.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_if.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',``)
define(`polaris_cipc_service_server','``)

include(`polaris_max_scope.m4')
divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
### <summary>Polaris Platform IPC Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_if.m4
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#

### <summary>Polaris install Policy Rules.</summary>

########################################
## <summary>
##	Read polaris_sw_data_t, effectively path to read polaris
## base image packages
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
##</summary>
## </param>
#
interface(`polaris_sw_data_read`,
  gen_require(`
  type polaris_sw_data_t;
  type tmp_t;
`
)
  read_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
  read_lnk_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
  list_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
`)

########################################
## <summary>
##	Map polaris_sw_data_t, effectively path to map polaris
## base image packages
## </summary>
## <param name="domain">
##<summary>

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6303
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sw_data_map',
gen_require(''
type polaris_sw_data_t;
')
    allow $1 polaris_sw_data_t:file map;
')

#################################################################
## <summary>
## Manage polaris_sw_data_t, effectively path to set up polaris
## base image packages house holding
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sw_data_manage',
gen_require(''
type polaris_sw_data_t;
type tmp_t;
')
    manage_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
    manage_link_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
    manage_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
    allow $1 polaris_sw_data_t:dir mounton;
')

#################################################################
## <summary>
## Read polaris_patch_data_t, effectively path to read polaris
## smu patch or optional packages
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_patch_data_read',
gen_require(''
type polaris_patch_data_t;
type tmp_t;

read_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
read_lnk_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
list_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)

########################################
## <summary>
##	Manage polaris_patch_data_t, effectively path to set up polaris
## smu patch or optional packages house holding
## </summary>
## <param name="domain">
##<summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_patch_data_manage',
  gen_require(
    type polaris_patch_data_t;
    type tmp_t;
  )
  manage_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
  manage_lnk_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
  manage_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
)

########################################
## <summary>
##      Watch patch_data directories
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_patch_data_watch',
  gen_require(
    type polaris_patch_data_t;
    allow $1 polaris_patch_data_t:dir watch;
  )
)

###################################################################
##<summary>
##
##</summary>
##<param name="domain">
##
##</param>
##<rolebase/>
#


### Write into tmp files created by install_show.sh

```c
# interface('polaris_install_show_tmp_write',
  gen_require(
    type polaris_install_show_tmp_t;
    type tmp_t;
  )
  write_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t)
)
```

### Read tmp files created by install_show.sh

```c
# interface('polaris_install_show_tmp_read',
  gen_require(
    type polaris_install_show_tmp_t;
    type tmp_t;
  )
  read_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t)
)
```

### Manage tmp installer files and directories

```c
# interface('polaris_install_show_tmp_manage',
  gen_require(
    type polaris_install_show_tmp_t;
```
manage_dirs_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
manage_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
manage_link_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)

#############################
## <summary>
##       Manage /bootflash/.issu_loc_lock files
## TODO: provfunc.sh and hman have reference to /bootflash/$ISSU_LOCAL_LOCK_FILE.
##        For now, I am keeping manage_dirs_pattern for polaris_disk_bootflash_t.
##        Need to re-visit so that callers to this macro do not have write-permission
##        to all of bootflash..
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_issu_files_manage',
   gen_require("
   type polaris_issu_files_t;
   type polaris_disk_bootflash_t;
   
   ")

   filetrans_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t, file, ".issu_loc_lock")
   manage_files_pattern($1, polaris_issu_files_t, polaris_issu_files_t)
   manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t)
)

#############################
## <summary>
##       Manage ISSU tmp files, allowing to record and
##       check upgrade progress
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_issu_tmp_files_manage',
   gen_require("
   type polaris_issu_tmp_files_t;
   type tmp_t;
   
   ")
manage_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
manage_lnk_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
manage_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
')

# Write/read any regular file/directory from /bootflash/.install

## <summary>
## Domain allowed access.

## </summary>

interface(`polaris_disk_install_manage`,
    gen_require(`
        type polaris_disk_install_t;
    `)
    manage_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    manage_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    allow $1 polaris_disk_install_t:dir {watch read};
')

# Read any regular file/directory from /bootflash/.install

## <summary>
## Domain allowed access.

## </summary>

interface(`polaris_disk_install_read`,
    gen_require(`
        type polaris_disk_install_t;
    `)
    search_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    read_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    allow $1 polaris_disk_install_t:dir {watch read};
')

# Get attributes of any regular file/directory from /bootflash/.install

## <summary>
## Domain allowed access.

## </summary>
## <summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_disk_install_fs_getattr',
    gen_require(
        type polaris_disk_install_t;
    )
    allow $1 polaris_disk_install_t:filesystem getattr;
    )

######################################
## <summary>
##      Manage /tmp/installer files and directories
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_install_tmp_manage',
    gen_require(
        type polaris_install_tmp_t;
    )
    manage_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    manage_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    manage_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    manage_fifo_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    )

######################################
## <summary>
##      Read /tmp/installer files and directories
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_install_tmp_read',
    gen_require(
        type polaris_install_tmp_t;
    )
    manage_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    manage_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    manage_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    manage_fifo_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    )
list_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
read_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
read_link_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
allow $1 polaris_install_tmp_t:dir watch;
allow $1 polaris_install_tmp_t:file map;
')

########################################################################
## <summary>
## Execute install related scripts in its own domain.
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed to transition.
##  </summary>
## </param>
#
# interface('polaris_install_engine_domtrans',`
  gen_require(
      type polaris_install_engine_t, polaris_install_engine_exec_t;
    )

domtrans_pattern($1, polaris_install_engine_exec_t, polaris_install_engine_t)
')

########################################################################
## <summary>
## Write into tmp log files created by install engine
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed to transition.
##  </summary>
## </param>
#
# interface('polaris_install_tmp_log_write',`
  gen_require(
      type polaris_install_tmp_log_t;
    )
  write_files_pattern($1, polaris_install_tmp_log_t, polaris_install_tmp_log_t)
')

########################################################################
## <summary>
## Execute install selinux related scripts in its own domain.
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed to transition.
##  </summary>
## </param>
## <summary>
## Execute wireless install related scripts in its own domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_install_wireless_domtrans',
    gen_require(
        type polaris_install_wireless_t, polaris_install_wireless_exec_t;
    )
)

domtrans_pattern($1, polaris_install_wireless_exec_t, polaris_install_wireless_t)
')

## <summary>
## Execute install show scripts in its own domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_install_show_domtrans',
    gen_require(
        type polaris_install_show_t, polaris_install_show_exec_t;
    )
)

domtrans_pattern($1, polaris_install_show_exec_t, polaris_install_show_t)
')
## <summary>
## Allow the specified domain to manage KGV data files
## I.e under /tmp/pkg_cs_debug created by function verify_pkg
## common scripts file.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_pkg_cs_debug_manage',`
    gen_require(`
        type polaris_pkg_cs_debug_t;
    `)
    files_tmp_filetrans($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
    fs_tmpfs_filetrans($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
    manage_dirs_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)
    manage_files_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)
    `)

## <summary>
## Manage /file which is generated on "flock -u file /tmp/sysctrl_i2c.lck"
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_i2c_lock_file_manage',`
    gen_require(`
        type polaris_i2c_lock_file_t;
    `)
    manage_dirs_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)
    manage_files_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)
    `)

## <summary>
## write /tmp/installer files and directories
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </summary>
interface('polaris_install_tmp_write',
    gen_require('polaris_install_tmp_t;
    ')
    write_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    allow $1 polaris_install_tmp_t:dir watch;
')

interface('polaris_install_images_manage',
    gen_require('polaris_install_images_t;
    ') manage_dirs_pattern($1, polaris_install_images_t, polaris_install_images_t)
    manage_files_pattern($1, polaris_install_images_t, polaris_install_images_t)
    '
)

interface('polaris_issu_tmp_files_read',
    gen_require('polaris_issu_tmp_files_t;
    type tmp_t;
    ')
    list_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    read_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    read_lnk_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    allow $1 polaris_issu_tmp_files_t:file map;
policy_module(polarisrmonbifo, 1.0);

******************************************************************************
# Polaris Rmonbifo Driver policy
******************************************************************************

# note polaris_proc_rmonbifo_t is defined in kernel/kernel.te, since genfscon
# statements could be only in base policy

type polaris_rmonbifo_tmp_t;
files_type(polaris_rmonbifo_tmp_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_rmonbifo_tmp_t, dir, "rmonbifo")

policy_module(polarisunconfined, 1.0);

******************************************************************************
# polarisunconfined file contexts place holder
******************************************************************************

# polarisunconfined file contexts place holder

'}

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisinstall.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisrmonbifo, 1.0);

******************************************************************************
# Polaris Rmonbifo Driver policy
******************************************************************************

# note polaris_proc_rmonbifo_t is defined in kernel/kernel.te, since genfscon
# statements could be only in base policy

type polaris_rmonbifo_tmp_t;
files_type(polaris_rmonbifo_tmp_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_rmonbifo_tmp_t, dir, "rmonbifo")

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrmonbifo.te
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#

# polarisunconfined file contexts place holder

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#
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#
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policy_module(polaristdlresolve, 1.0);

# TDLresolve policy

gen_require(
    attribute polaris_extended_domain;
)

type polaris_tdlresolve_t;
files_type(polaris_tdlresolve_t)

files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve")
# tdl_boottime.sh uses /tmp/tdlresolve_tmp for some temp files
# which are moved into /tmp/tdlresolve latter
files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve_tmp")

type polaris_global_service_t;
files_type(polaris_global_service_t);

# rsync policy

gen_require(
    type rsync_t;
    type polaris_btrace_base_t;
)
# tdl_cleanup_epochs.sh uses btrace
allow rsync_t polaris_btrace_base_t:file map;
#rsync invokes tdl_cleanup_epochs.sh as part of this set /proc/[pid]/oom_score_adj is done
allow rsync_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristdlresolve.te
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#
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#
## <summary>Polaris vman Policy Rules.</summary>
### <summary>
### Read files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_vman_tmp_read',
    gen_require(
        type polaris_vman_tmp_t;
    )
    read_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
)

### <summary>
### Write files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_vman_tmp_write',
    gen_require(
        type polaris_vman_tmp_t;
    )
    write_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
)

### <summary>
### Manage dir/files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_vman_tmp_manage',
    gen_require(
        type polaris_vman_tmp_t;
    )
manage_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
manage_dirs_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)

### <summary>
### Read files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_disk_vman_read',
  gen_require(`
    type polaris_disk_vman_t;
  ')
  read_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
read_lnk_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
  list_dirs_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
')

### <summary>
### List files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_disk_vman_dir_list',
  gen_require(`
    type polaris_disk_vman_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
  ')
  list_dirs_pattern($1, { polaris_disk_vman_t polaris_disk_bootflash_t polaris_disk_harddisk_t },
    polaris_disk_vman_t)
')

### <summary>
### Operate on @vman_domain_socket unix socket. Look at
### vman_clnt_msg_transport_init function in vman_clnt_msg_uds.c
```plaintext
### <summary>
### <param name="domain">
###  <summary>
###  Domain allowed access.
###  </summary>
### </param>
#
interface('polaris_vman_use_client_socket',
    gen_require(
        type polaris_vman_t;
    ')
    allow $1 polaris_vman_t:unix_stream_socket connectto;
')

#################################################
### <summary>
###  Manage /tmp/xml/
### </summary>
### <param name="domain">
###  <summary>
###  Domain allowed access.
###  </summary>
### </param>
### <rolebase/>
#
# interface('polaris_vman_log_files_manage',
onoptional_policy(
    gen_require(
        type polaris_vman_log_t;
    ')
)

manages_files_pattern($1, polaris_vman_log_t,polaris_vman_log_t)
manages_dirs_pattern($1, polaris_vman_log_t, polaris_vman_log_t)
')

#################################################
### <summary>
###  Read files of type polaris_var_vman_t (e.g., /var/virtual-instance)
### </summary>
### <param name="domain">
###  <summary>
###  Domain allowed access.
###  </summary>
### </param>
#
interface('polaris_vman_var_read',
```
gen_require(
    type polaris_var_vman_t;
)
list_dirs_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
read_files_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
)

########################################
## <summary>
##      Write into fifo file created by vman, typical case when
##      vman starts script under popen in different domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolecap/>
#
interface(‘polaris_vman_use_fifo’,
    gen_require(
        type polaris_vman_t;
    )
    read_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
    write_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
    )

########################################
## <summary>
##      Check existence (getattr) of vman btrace file (i.e
## polaris_vman_bt_t)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(‘polaris_vman_bt_getattr’,
    gen_require(
        type polaris_vman_bt_t;
        type polaris_btrace_base_t;
    )
    getattr_files_pattern($1, polaris_btrace_base_t, polaris_vman_bt_t)
    )

########################################
## <summary>
##      Allow domain to write to pipes connected to virtlogd_t.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface("polaris_vman_virtlog_allow","
   gen_require(
      type virtlogd_t;
   )
   #allow domain to write to pipes
   allow $1 virtlogd_t:fifo_file rw_inherited_fifo_file_perms;
   #allow virtlogd_t to search dirs /var/log/libvirt/qemu
   logging_search_logs(virtlogd_t)
")

########################################
## <summary>
##      Allow polaris_vman_t to kill process from domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface("polaris_vman_kill_process","
   gen_require(
      type polaris_vman_t;
   )
   allow polaris_vman_t $1:process sigkill;
")

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisvman.if
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#
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#
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#
## <summary>Polaris dbm Policy Rules.</summary>

#######################################
## <summary>
## Setup /bootflash/.dbpersist directory and content.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_tdldbpersist_setup',
    gen_require(
        type polaris_disk_bootflash_t;
        type polaris_disk_dbm_t;
    )
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t, dir, ".dbpersist")
# allow creation of /bootflash/.dbpersist directory
manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t)
# dbm can manage files inside of its own polaris_disk_dbm_t directories
manage_files_pattern($1, polaris_disk_dbm_t, polaris_disk_dbm_t)
')

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdbm.if
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#
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#
## <summary>Polaris cpp_sp Policy Rules.</summary>

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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
divert(-1)

include(`polaris_process.m4')

include(`polaris_database_db.m4')
include(`polaris_database_db_fc.m4')

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_database_fc.m4
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#
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#

# polarisservicemgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisservicemgr.fc
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#
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#
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#

/usr/cpp/bin/cpp_driver -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_us_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwlc -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppdriver.fc
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# June 2020, Manu Roy
#
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#

policy_module(polarisiotswitch, 1.0);

# petra fpga device (/dev/petra-fpga)
  type polaris_iots_fpga_device_t;
  dev_node(polaris_iots_fpga_device_t)

# petra DMA ASIC driver (/dev/mvDmaDrv)
  type polaris_iots_mvDmaDrv_device_t;
  dev_node(polaris_iots_mvDmaDrv_device_t)

# petra Interrupt Asic driver (/dev/mvIntDrv)
  type polaris_iots_mvIntDrv_device_t;
  dev_node(polaris_iots_mvIntDrv_device_t)

# petra tm device (/dev/tm)
  type polaris_iots_tm_device_t;
  dev_node(polaris_iots_tm_device_t)

# petra tm device (/dev/mmcblk1p1)
  type polaris_iots_swipedrive_device_t;
  dev_node(polaris_iots_swipedrive_device_t)

  type polaris_iots_swipedrive_file_t;
  files_type(polaris_iots_swipedrive_file_t)
  dev_associate(polaris_iots_swipedrive_file_t)

# LED device (/dev/spidev0.0)
  type polaris_iots_led_device_t;
  dev_node(polaris_iots_led_device_t)

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisiotswitch.te
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#
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#
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policy_module(polarisripc, 1.0);

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisripc.te
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dnl
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dnl
define('polaris_process', '');
dnl
Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_process_if.m4
No license file was found, but licenses were detected in source scan.

policy_module(polarisdroputil, 1.0);

polaris_process_domain_template(droputil)
corecmd_exec_bin(polaris_droputil_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_droputil_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_droputil_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_droputil_t)

# work with /tmp files
type polaris_droputil_tmp_t;
files_tmp_file(polaris_droputil_tmp_t)
manage_dirs_pattern(polaris_droputil_t, tmp_t, polaris_droputil_tmp_t)
manage_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_fifo_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_lnk_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
files_tmp_filetrans(polaris_droputil_t, polaris_droputil_tmp_t, { file dir })

# on some platform /tmp/rp/dropbox is created by binos service
# that runs under initrc_t
gen_require(' type initrc_t;
            )
files_tmp_filetrans(initrc_t, polaris_droputil_tmp_t, dir, "dropbox")

allow polaris_droputil_t self:capability { sys_resource dac_override };
allow polaris_droputil_t self:process setpgid;

polaris_btrace_data_manage(polaris_droputil_t)
polaris_cpld_read(polaris_droputil_t)
polaris_chasfs_manage(polaris_droputil_t)
polaris_boot_tmp_read(polaris_droputil_t)
polaris_read_debug_conf(polaris_droputil_t)
polaris_disk_crashinfo_getattr(polaris_droputil_t)
polaris_rmonbifo_tmp_read(polaris_droputil_t)

# runs systemctl start reflector.service
systemd_exec_systemctl(polaris_droputil_t)

# PLEASE LOOK AT ME need to have separate label for reflector.service
# allow only to start if, do it once copy of reflector.service is fixed
systemd_config_generic_services(polaris_droputil_t)

# droputil.sh deletes /tmp/rp/droputil/so-del-stage/rp0
fs_getattr_tmpfs(polaris_droputil_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdroputil.te
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris Cfg Policy Rules.</summary>

##############################################################################
# Cfg files policy
##############################################################################
## <summary>
## Manage cfg files (under /tmp/sw/cfg)
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_cfg_data_manage',
  gen_require(
    type polaris_cfg_data_t;
  ')
  manage_dirs_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
  manage_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
  manage_lnk_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polariscfg.if

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# June 2017, Victor Kamensky
#
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#

## <summary>Polaris webui Policy Rules.</summary>

## <summary>
## Read files under /webui/..., these are webui odm file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_read_webui_files',
  gen_require(
    type polaris_webui_file_t;
  ')
  manage_dirs_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
  manage_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
  manage_lnk_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
')
read_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
read_link_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariswebui.if
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#  # August 2017, Shawn Lu 
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#  
# polarisodm file contexts place holder 

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisodm.fc
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#  # August 2017, Shawn Lu 
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#  
# polarisnmspd file contexts place holder 

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisnmspd.fc
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#  # March 2017, Victor Kamensky 
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#  
policy_module(polarislm, 1.0);

  gen_require(
    'type polaris_lm_t;
  ')
polaris_btrace_data_manage(polaris_lm_t)
polaris_crft_data_manage(polaris_lm_t)
polaris_chasfs_manage(polaris_lm_t)
polaris_tdlresolve_read(polaris_lm_t)
polaris_tdlldb_list_dirs(polaris_lm_t)
polaris_cpld_read(polaris_lm_t)
polaris_flashlib_read(polaris_lm_t)

polaris_ripc_sman_ui_serv_connect(polaris_lm_t)

allow polaris_lm_t self:capability { dac_override }

# allow to read /proc/mtd
kernel_read_system_state(polaris_lm_t)

# work with /tmp files (/tmp/iosd_level)
type polaris_lm_tmp_t;
files_tmp_file(polaris_lm_tmp_t)
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "iosd_level")
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "stack_apcount")
manage_files_pattern(polaris_lm_t, tmp_t, polaris_lm_tmp_t)

polaris_dyncfg_tmp_read(polaris_lm_t)
polaris_disk_license_manage(polaris_lm_t)
polaris_disk_csl_manage(polaris_lm_t)

logging_send_syslog_msg(polaris_lm_t)
polaris_lua_read(polaris_lm_t)

# permission to access /tmp/rp/lipc/lmanrtu_stackrtu_socket
# polaris_lm_t policy
allow polaris_lm_t self:unix_stream_socket connectto;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislm.te
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#
# April 2018, Victor Kamensky
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#

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6328
policy_module(polarisvman, 1.0);

    gen_require(
        type polaris_vman_t;
    )

    polaris_btrace_data_manage(polaris_vman_t)
polaris_crft_data_manage(polaris_vman_t)
polaris_chasfs_manage(polaris_vman_t)
polaris_tldresolve_read(polaris_vman_t)
polaris_tldldb_list_dirs(polaris_vman_t)
polaris_cpld_read(polaris_vman_t)
polaris_flashlib_read(polaris_vman_t)
polaris_ripc_sman_ui_serv_connect(polaris_vman_t)
polaris_db_tldldb_dir_use(polaris_vman_t)

    # allow read of /etc/passwd
    auth_use_nsswitch(polaris_vman_t)

    polaris_rmonbifo_tmp_read(polaris_vman_t)
polaris_boot_tmp_read(polaris_vman_t)

    logging_send_syslog_msg(polaris_vman_t)

    modutils_read_module_deps(polaris_vman_t)
    modutils_read_module_config(polaris_vman_t)
    modutils_manage_module_config(polaris_vman_t)
    modutils_domtrans_insmod(polaris_vman_t)
    files_read_kernel_modules(polaris_vman_t)

    corecmd_exec_bin(polaris_vman_t)
corecmd_exec_shell(polaris_vman_t)
# ifconfig related, ifconfig is executed in its own context
sysnet_domtrans_ifconfig(polaris_vman_t)

# VMAN calls vman_set_congestion_control_multiplex when the count
# of the bridge users reaches 2 and needs write permissions on
# contdev_multiplex
dev_rw_sysfs(polaris_vman_t)
fs_getattr_xattr_fs(polaris_vman_t)

virt_stream_connect(polaris_vman_t)
virt_read_pid_files(polaris_vman_t)

fs_rw_cgroup_files(polaris_vman_t)
kernel_read_system_state(polaris_vman_t)
# allow vman to read /dev/pts/*
term_use_generic_ptys(polaris_vman_t)
#allow polaris_vman_t polaris_udev_tmp_files_t:file open;
polaris_udev_tmp_read(polaris_vman_t)
#allow vman to run brctl in it's own domain
brctl_domtrans(polaris_vman_t)
#allow vman to run /sbin/fsck in script
fstools_domtrans(polaris_vman_t)
#allow vman to mount rootfs on polaris_disk_vman_t
allow polaris_vman_t polaris_disk_vman_t:dir mounton;
fs_mount_xattr_fs(polaris_vman_t)
#allow vman have capability for modify owner of the file
allow polaris_vman_t self:capability { chown fowner fsetid };
#allow vman to bind to unreserved tcp ports while it searches for
#port available to guest console to listen on
corenet_tcp_bind_unreserved_ports(polaris_vman_t)

# working with vman /var/ files
type polaris_var_vman_t;
files_tmp_file(polaris_var_vman_t)
files_var_filetrans(polaris_vman_t, polaris_var_vman_t, dir, "virtual-instance")
manage_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_dirs_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_sock_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)

# working with vman persiststen files
type polaris_disk_vman_t;
polaris_disk_type(polaris_disk_vman_t)

gen_require(
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
')
filetrans_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t, dir,
"virtual-instance")
filetrans_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t, file, "virtual-instance.conf")
filetrans_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t, dir, "vman_fdb")

# allow creation of /bootflash/virtual-instance.conf file
manage_files_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t)
# allow creation of /bootflash/virtual-instance and /bootflash/vman_fdb directories
manage_dirs_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t)
# vman can manage files inside of its own polaris_disk_vman_t directories
manage_files_pattern(polaris_vman_t, polaris_disk_vman_t, polaris_disk_vman_t)

# after all above transition we need to grant vman right to work with any
# persistent storage file since it needs to access and write .ova files
polaris_persistent_manage(polaris_vman_t)

# vman uses netlink socket to talk to lxc watchdog driver
# please see binos/vman/src/vman_lxc_wd.c
allow polaris_vman_t self:netlink_generic_socket { create_socket_perms sendto recvfrom};

# vman calls tipc-config which in turns wants to create AF_TIPC socket
allow polaris_vman_t self:socket create_socket_perms;

# vman uses 'ip netns exec 0 ifconfig -a' command which in turns switches
# network namespace and need access to /proc/pid/ns/net file
fs_read_nsfs_files(polaris_vman_t)

# this label is created to exchange log related information between container and host.
type polaris_vman_log_t;
# By making this label belong to polaris persistent storage combined with vman inheriting rights
# to manage polaris_disk via polaris_persistent_managet(), vman gains rights to manage below dirs.
polaris_disk_type(polaris_vman_log_t)
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdIpsAlert-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdUrlf-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdAmp-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdTls-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdLogMappings-IOX")

# Allow vman to work with /bootflash/virtual-instance/UTD/rootfs
optional_policy(
  gen_require(
    type container_file_t;
  )
  allow polaris_vman_t container_file_t:filesystem { getattr unmount };
)

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6331
# Allow vman/ioxman to work with /tmp/HTX-IOX
optional_policy(
    gen_require(''
        type polaris_htx_iox_tmp_t;
    ')
    allow polaris_vman_t polaris_htx_iox_tmp_t:dir { getattr mounton open read };)

# Allow vman to mount /tmp/binos-IOX
optional_policy(
    gen_require(''
        type polaris_qfp_memif_t;
    ')
    allow polaris_vman_t polaris_qfp_memif_t:dir mounton;)

# vman_init.sh operates on /tmp/vman files
type polaris_vman_tmp_t;
files_tmp_file(polaris_vman_tmp_t)
files_tmp_filetrans(polaris_vman_t, polaris_vman_tmp_t, { file dir })
polaris_systemd_tmpfiles_tmpfiletrans(polaris_vman_tmp_t, dir, "vman")
manage_files_pattern(polaris_vman_t, polaris_vman_tmp_t,polaris_vman_tmp_t)
manage_dirs_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_tmp_t)

# allow vman to work with /tmp/xml
fs_remount_tmpfs(polaris_vman_t)
fs_unmount_tmpfs(polaris_vman_t)
fsUnmount_xattr_fs(polaris_vman_t)
allow polaris_vman_t polaris_vman_tmp_t:dir mounton;
optional_policy(
    polaris_cedge_xml_tmp_manage(polaris_vman_t)
)

# relabel /bootflash/virtual-instance/UTD/tmpstaging to /dev/loopX
gen_require(''
    type iso9660_t;
')
allow polaris_vman_t iso9660_t:filesystem { relabelfrom };)

# configure /proc/sys/net/ipv4/conf/dpbr_0/arp_announce
kernel_search_network_sysctl(polaris_vman_t)
kernél_rw_net_sysctls(polaris_vman_t)
# configure e.g. /proc/sys/vm/nr_hugepages
kernel_rw_vm_sysctls(polaris_vman_t)

# need to do bind mount of /bootflash/SHARED-IOX
mount_domtrans(polaris_vman_t)
# vman accessing files under /tmp created by initrc like /tmp/gdev/md0/gdev-info
init_read_script_tmp_files(polaris_vman_t)

# DB persistence
polaris_tlddbpersist_setup(polaris_vman_t)
polaris_tmp_tlddb_persist_setup(polaris_vman_t)

gen_require({
    type initrc_t;
})
files_tmp_filetrans(initrc_t, polaris_vman_tmp_t, file, "cgroup.log")

dmidecode_domtrans(polaris_vman_t)

# read /etc/libvirt/libvirt.conf
virt_read_config(polaris_vman_t)

# vman_cgroup_yaml.sh through prep_csr_kumo (binos_functions-pd) checks for 
# ovf-env.xml file existence in variety of directories includind
# /cdrom0/ovf-env.xml
fs_read_iso9660_files(polaris_vman_t)

# allow vman to manage loop device: finding free /dev/loopN device
# note vman code iterating over all /dev/loop* devices and try to lock
# them. As part of that iteration it tries /dev/loop_control
# what it should do instead is to use /dev/loop_control to get free
# device
dev_rw_loop_control(polaris_vman_t)

# PLEASE LOOK AT ME
# allow vman to read, write /dev/loopN devices that are
# under fixed_disk_device_t label. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_vman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_vman_t self:capability sys_resource;

# allow VMAN to move disk.img to the disk
allow polaris_vman_t self:process setfscreate;

# vman mounts directories on behalf of guest containers, it uses
# specified context for guest directories, need permission to
# relabel, mount, etc.
fs_relabelfrom_xattr_fs(polaris_vman_t)
virt_relabel_sandbox_filesystem(polaris_vman_t)
virt_mounton_sandbox_file(polaris_vman_t)
virt_manage_sandbox_files(polaris_vman_t)

gen_require('  
    type svirt_sandbox_file_t;
  ')
allow polaris_vman_t svirt_sandbox_file_t:filesystem mount;

#/tmp/.flashlock operations from tdllib_start_cfg_ignored, mcp_getmonvar
allow polaris_vman_t self:capability dac_override;

# allow vman to stat /dev/kvm, executed by vman_common_init function
dev_getattr_kvm_dev(polaris_vman_t)

# vman in getfs_info_by_mediatype function inspects files in /tmp/gdev
gen_require('  
    type udev_tmp_t;
  ')
read_files_pattern(polaris_vman_t, udev_tmp_t, udev_tmp_t)

#/usr/binos/conf/vman_exec.sh policy
polaris_utility_domain_template(vman_shell)

polaris_bexecute_domain(polaris_vman_shell_t, polaris_vman_shell_exec_t)
# vman_exec.sh calls mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_vman_shell_t)
# mcp_chvrf.sh calls vman_exec.sh back and then it call bexec.sh
polaris_bexecute_domtrans(polaris_vman_shell_t)
corecmd_exec_bin(polaris_vman_shell_t)

# inherits stdin from telnetd
telnet_use_ptys(polaris_vman_shell_t)
#allow use of ptys for vman tech support
telnet_use_ptys(polaris_vman_tech_t)

optional_policy('  
# reads /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_vman_t)
')

# vman_is_machine_type_initialized clone needs cap_usersns sys_admin
allow polaris_vman_t self:cap_usersns sys_admin;

# vman_cgroup_yaml.sh searches for ovf-env.xml on cdrom0
fs_read_removable_files(polaris_vman_t)

# vman starts vman_init.sh that in turns calls virsh
gen_require('
type virsh_t;
  type virsh_exec_t;
)
domtrans_pattern(polaris_vman_t, virsh_exec_t, virsh_t)

polaris_bexecute_domtrans(polaris_vman_t)
polaris_send_signal_to_bexecute(polaris_vman_t)

gen_require(
  type polaris_chvrf_t;
  
)
# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_chvrf_t)

# vman calls code_sign_verify VmanPackage
polaris_code_verify_domtrans(polaris_vman_t)

# vm_net_dev_utilization reads /proc/2962/net/dev
kernel_read_network_state(polaris_vman_t)

polaris_iosd_vcpu_read(polaris_vman_t)

# /usr/binos/conf/cgroup_reports.sh
polaris_utility_domain_template(cgroup_reports)

polaris_bexecute_domain(polaris_cgroup_reports_t, polaris_cgroup_reports_exec_t)
polaris_bexecute_domtrans(polaris_cgroup_reports_t)
# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_cgroup_reports_t)

corecmd_exec_bin(polaris_cgroup_reports_t)
auth_use_nsswitch(polaris_cgroup_reports_t)

fs_read_cgroup_files(polaris_cgroup_reports_t)
fs_list_cgroup_dirs(polaris_cgroup_reports_t)

# cgroup_reports.sh creates misc files under /tmp
type polaris_cgroup_reports_tmp_t;
files_type(polaris_cgroup_reports_tmp_t)
files_tmp_filetrans(polaris_cgroup_reports_tmp_t, polaris_cgroup_reports_tmp_t, file)
manage_files_pattern(polaris_cgroup_reports_tmp_t, polaris_cgroup_reports_tmp_t, polaris_cgroup_reports_tmp_t)
fs_getattr_tmpfs(polaris_cgroup_reports_tmp_t)

# /usr/binos/conf/vman_techsupport.sh
polaris_utility_domain_template(vman_tech)

polaris_bexecute_domain(polaris_vman_tech_t, polaris_vman_tech_exec_t)
polaris_bexecute_domtrans(polaris_vman_tech_t)
# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_vman_tech_t)

# vman_techsupport.sh starts virsh -c qemu:///system list --all
gen_require('  type virsh_t;
  type virsh_exec_t;
')
domtrans_pattern(polaris_vman_tech_t, virsh_exec_t, virsh_t)

# starts ip link show
sysnet_domtrans_ifconfig(polaris_vman_tech_t)

# starts brctl show
brctl_domtrans(polaris_vman_tech_t)

corecmd_exec_bin(polaris_vman_tech_t)
auth_use_nsswitch(polaris_vman_tech_t)

polaris_proc_rmonbifo_read(polaris_vman_tech_t)
polaris_chasfs_read(polaris_vman_tech_t)
polaris_cpld_read(polaris_vman_tech_t)

# starts ps aux
kernel_read_system_state(polaris_vman_tech_t)
domain_read_all_domains_state(polaris_vman_tech_t)
dev_read_sysfs(polaris_vman_tech_t)
# getattrs of stdin/stdout of misc processes
term_getattr_unallocated_ttys(polaris_vman_tech_t)
term_read_console(polaris_vman_tech_t)

# reads /bootflash/virtual-instance/
polaris_disk_vman_read(polaris_vman_tech_t)

# find /etc/libvirt/lxc -name *.xml -print
virt_read_config(polaris_vman_tech_t)
# no interface that lists virt_etc_rw_t dir
gen_require('
  type virt_etc_rw_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_etc_rw_t, virt_etc_rw_t)

# find /var/run/libvirt -name *.xml -maxdepth 2 -print
virt_read_pid_files(polaris_vman_tech_t)
# no interface that lists virt_var_run_t dir
gen_require('
  type virt_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_var_run_t, virt_var_run_t)
# no interface that lists virt_lxc_var_run_t dir
gen_require('''
    type virt_lxc_var_run_t;
''')
list_dirs_pattern(polaris_vman_tech_t, virt_lxc_var_run_t, virt_lxc_var_run_t)
# no interface that lists qemu_var_run_t dir
gen_require('''
    type qemu_var_run_t;
''')
list_dirs_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)
# allow read of /run/libvirt/qemu
read_files_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)

# by some strange reason /var/run/libvirt/network is under dnsmasq_var_run_t label
dnsmasq_read_pid_files(polaris_vman_tech_t)
# no interface that lists dnsmasq_var_run_t dir
gen_require('''
    type dnsmasq_var_run_t;
''')
list_dirs_pattern(polaris_vman_tech_t, dnsmasq_var_run_t, dnsmasq_var_run_t)
polaris_vman_var_read(polaris_vman_tech_t)
# cat /proc/net/dev
kernel_read_network_state(polaris_vman_tech_t)

# find /sys/class/net -name intsvc* -type d -print
dev_list_sysfs(polaris_vman_tech_t)

# grep over /varied/ovf-env.xml
polaris_disk_varied_read(polaris_vman_tech_t)

# writes into /tmp/vman_techsupport
polaris_vman_tmp_manage(polaris_vman_tech_t)

# find over /sys/fs/cgroup/memory/machine
fs_list_cgroup_dirs(polaris_vman_tech_t)
# cat /sys/fs/cgroup/memory/machine/memory.limit_in_bytes
fs_read_cgroup_files(polaris_vman_tech_t)

# runs df command
fs_getattr_xattr_fs(polaris_vman_tech_t)
fs_getattr_all_fs(polaris_vman_tech_t)
files_getattr_all_dirs(polaris_vman_tech_t)
# getattr over /run/libnets/2
fs_read_nsfs_files(polaris_vman_tech_t)
# check existence of vman btrace file before passing it to btdecode
polaris_vman_bt_getattr(polaris_vman_tech_t)

# check existence of pman btrace file for vman before passing it to btdecode
polaris_pman_bt_getattr(polaris_vman_tech_t)

# vman_techsupport.sh creates misc files under /tmp
type polaris_vman_tech_tmp_t;
files_type(polaris_vman_tech_tmp_t)
files_tmp_filetrans(polaris_vman_tech_t, polaris_vman_tech_tmp_t, file)
manage_files_pattern(polaris_vman_tech_t, polaris_vman_tech_tmp_t, polaris_vman_tech_tmp_t)

# allow vman tech support to read container logs including listing dirs
gen_require('  
    type virt_log_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_log_t, virt_log_t)
virt_read_log(polaris_vman_tech_t)

# allow vman to access /etc/passwd
auth_map_passwd(polaris_vman_shell_t)

# vman does lvm storage management e.g. vman_libvirt_strg_available_by_pool
lvm_domtrans(polaris_vman_t)

# Allow read of pid files e.g. /run/udev/data/b7:34
udev_read_pid_files(polaris_vman_t)

# allow vman to connect to the WAAS container for serial vman_register_socket
polaris_waas_stream_connect(polaris_vman_t)

# allow vman to pgrep
# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_vman_t)

# allow vman to kill LXC container process that hasn't shutdown
# inspite of a shutdown command
gen_require('  
    type virtd_lxc_t;
')
polaris_vman_kill_process(virtd_lxc_t)

# allow vman to rsync using ioxman_syslib.sh
rsync_entry_type(polaris_vman_t)
corenct_tcp_connect_rsync_port(polaris_vman_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisvman.te
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#

## <summary>Polaris polarisdroputil Policy Rules.</summary>

#################################################################
## <summary>
## Manage droputils temporary files and directories in /tmp.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_droputil_manage_tmp_files`,
    gen_require(`
        type polaris_droputil_tmp_t;
    `)
    manage_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
    read_lnk_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
`
)

########################################################################
## <summary>
## Watch droputil_tmp directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface(`polaris_droputil_tmp_watch`,
    gen_require(`
        type polaris_droputil_tmp_t;
    `)
    allow $1 polaris_droputil_tmp_t:dir watch;
`
)
Found in path(s):
*/opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polarisdroputil.if
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#

# polariskeyman file contexts place holder

Found in path(s):
*/opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polariskeyman.fc
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#

policy_module(polarisflashlib, 1.0);

#############################################################################
# Flashlib policy (infra/flashlib)
#############################################################################
type polaris_flashlib_lock_t;
files_type(polaris_flashlib_lock_t)

gen_require(
    attribute polaris_extended_domain;
)

# /tmp/.flashlock file is used as flashlib lock

gen_require(
    type init_t;
)
files_tmp_filetrans({ init_t polaris_extended_domain }, polaris_flashlib_lock_t, file, ".flashlock")

type polaris_flashlib_log_t;
files_type(polaris_flashlib_log_t)

gen_require(
    attribute polaris_extended_domain;
)
# /tmp/flashdev.log file is used as flashlib to log
files_tmp_filetrans(polaris_extended_domain, polaris_flashlib_log_t, file, "flashdev.log")

# /dev/shm/flash_shm shared memory
type polaris_flash_shm_t;
files_type(polaris_flash_shm_t)

gen_require(
    attribute polaris_domain;
    type tmpfs_t;
')
filetrans_pattern(polaris_domain, tmpfs_t, polaris_flash_shm_t, file, "flash_shm")

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#
## <summary>Polaris tws Policy Rules.</summary>

######################################
## <summary>
##      Allow the specified domain to manage KGV data files
## I.e /tmp/package_biv_sums.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_kgv_data_manage',
    gen_require(
        type polaris_kgv_data_t;
    ')
    manage_files_pattern($1, polaris_kgv_data_t, polaris_kgv_data_t)
    allow $1 polaris_kgv_data_t:file map;
')

######################################
## <summary>
## Execute a domain transition to run code_sign_verify
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface(`polaris_code_verify_domtrans',`
   gen_require(
      type polaris_code_verify_t, polaris_code_verify_exec_t;
   ')
)
domtrans_pattern($1, polaris_code_verify_exec_t, polaris_code_verify_t)
')

########################################
## <summary>
## Execute a domain transition to the polaris_hw_upgrade
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface(`polaris_hw_upgrade_domtrans',`
   gen_require(
      type polaris_hw_upgrade_t, polaris_hw_upgrade_exec_t;
   ')
   corecmd_search_bin($1)
domtrans_pattern($1, polaris_hw_upgrade_exec_t, polaris_hw_upgrade_t)
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/aikido device
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_aikido_dev_use',`
   gen_require(`
```c

// type device_t;
// type polaris_aikido_device_t;

// write_chr_files_pattern($1, device_t, polaris_aikido_device_t)
// read_chr_files_pattern($1, device_t, polaris_aikido_device_t)

// Execute a domain transition to the polaris_rom_upgrade

// Domain allowed to transition.

interface(`polaris_rom_upgrade_domtrans',
    gen_require(`
        type polaris_hw_upgrade_t, polaris_rom_upgrade_exec_t;
    `)
    
corecmd_search_bin($1)
    domtrans_pattern($1, polaris_rom_upgrade_exec_t, polaris_rom_upgrade_t)
)

// Write into fifo file created during rommon_upgrade

// Domain allowed access.

interface(`polaris_rom_upgrade_use_fifo',
    gen_require(`
        type polaris_rom_upgrade_t;
    `)
    
    write_fifo_files_pattern($1, polaris_rom_upgrade_t, polaris_rom_upgrade_t)
)

// Work (read, write, ioctl) with /dev/scansta device
```
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_scansta_dev_use');
gen_require(''
    type device_t;
type polaris_scansta_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_scansta_device_t)
    read_chr_files_pattern($1, device_t, polaris_scansta_device_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristws.if
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#
#
# polarisbsm file contexts place holder

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#
#
### <summary>Polaris tams_rp Policy Rules.</summary>

################################
## <summary>
##      Allow polaris_tams_rp_t unix stream socket connect
## </summary>
## <param name="domain">
## <summary>

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6344
## Domain allowed access.

```
interface('polaris_tams_rp_socket_connect',
    gen_require(
        type polaris_tams_rp_t;
    )
    allow $1 polaris_tams_rp_t:unix_stream_socket connectto;
)
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristamsrp.if

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#

```
## <summary>Polaris install_mgr Policy Rules.</summary>

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```
### <summary>
Domain allowed access.
### </summary>
### <param name="domain">
### </param>
#
interface('polaris_install_disk_manage',
gen_require('`
type polaris_disk_bootflash_t;
type polaris_disk_install_t;
`')
filetrans_pattern(polaris_install_mgr_t, polaris_disk_bootflash_t, polaris_disk_install_t, dir, "installer")
filetrans_pattern(polaris_install_mgr_t, polaris_disk_bootflash_t, polaris_disk_install_t, fifo_file, "inot_fifo")
manage_dirs_pattern($1, {polaris_disk_bootflash_t polaris_disk_install_t}, polaris_disk_install_t)
manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
manage_fifo_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
`)### <summary>
Read /bootflash/.installer files and directories
### </summary>
### <param name="domain">
### </param>
#
interface('polaris_install_disk_read',
gen_require('`
type polaris_disk_install_t;
`')
read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
`)### <summary>
Read copylog files (location varies by platform)
### </summary>
### <param name="domain">
### </param>
#
interface('polaris_read_user_file',

gen_require(''
    type polaris_user_file_t;
    type device_t;
')

read_blk_files_pattern($1, device_t, polaris_user_file_t)
read_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
read_link_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
')

#########################################################################
## <summary>
##      getattr for copylog files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## <//param>
## <rolebase/>
#
# interface('polaris_user_file_getattr',
  gen_require(''
    type polaris_user_file_t;
    type device_t;
  ')

  getattr_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
')

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisinstallmgr.if
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#

policy_module(polariscppsp, 1.0);

gen_require(''
    type polaris_cpp_sp_t;
')
polaris_btrace_data_manage(polaris_cpp_sp_t)
polaris_crft_data_manage(polaris_cpp_sp_t)
polaris_chasfs_manage(polaris_cpp_sp_t)
polaris_tdlresolve_read(polaris_cpp_sp_t)
polaris_tdlldb_list_dirs(polaris_cpp_sp_t)
polaris_cpld_read(polaris_cpp_sp_t)
polaris_flashlib_read(polaris_cpp_sp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_sp_t)
polaris_db_tdlldb_dir_use(polaris_cpp_sp_t)
polaris_cpp_process(polaris_cpp_sp_t)
polaris_cpp_dev_use(polaris_cpp_sp_t)
polaris_icc_broken_relocations(polaris_cpp_sp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_sp_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cpp_sp_t)
')

# allow syslogging
logging_send_syslog_msg(polaris_cpp_sp_t)

optional_policy(`
polaris_cbdma_dev_use(polaris_cpp_sp_t)
')
polaris_cpld_dev_use(polaris_cpp_sp_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppsp.te
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#

### <summary>Polaris confd Policy Rules.</summary>

==============================================
### <summary>
## Setup /dev/shm/confd directory and file, pid and shared memory.

## <param name="domain">

## Domain allowed access.

## </param>

#

interface('polaris_confd_shm_setup',
  gen_require(
    type polaris_confd_shm_t;
    type tmpfs_t;
  )
  fs_tmpfs_filetrans($1, polaris_confd_shm_t, dir, "confd")
  manage_dirs_pattern($1, tmpfs_t, polaris_confd_shm_t)
  manage_files_pattern($1, { tmpfs_t polaris_confd_shm_t }, polaris_confd_shm_t)
  allow $1 polaris_confd_shm_t:file map;
)

#######################################
## Read /dev/shm/confd_shared_schema shared memory.
## <param name="domain">
## Domain allowed access.
## </param>

#

interface('polaris_confd_shared_schema_read',
  gen_require(
    type polaris_confd_shm_t;
    type tmpfs_t;
  )
  read_files_pattern($1, { tmpfs_t polaris_confd_shm_t } , polaris_confd_shm_t)
  allow $1 polaris_confd_shm_t:file map;
)

#######################################
## Watch confd_shm directories
## <param name="domain">
## Domain allowed access.
## </param>

## <rolebase/>
interface('polaris_confd_shared_schema_watch',
  gen_require(
    type polaris_confd_shm_t;
  )
  allow $1 polaris_confd_shm_t:dir watch;
  )

#######################################
## <summary>
##      Read /proc/cond_pid/exe file. Few dmi utilities do that by
## some reason. Look at handle_cond_pid_available.
##      Read files and symlinks under /dev/shm/confd.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_confd_read',
  gen_require(
    type polaris_confd_t;
  )
  read_files_pattern($1, polaris_confd_t, polaris_confd_t)
  read_lnk_files_pattern($1, polaris_confd_t, polaris_confd_t)
  )

#######################################
## <summary>
##      Create /var/log/ndbutil directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_confd_ndbutil_create',
  gen_require(
    type polaris_confd_ndbutil_lock_t;
  )
  files_lock_filetrans($1, polaris_confd_ndbutil_lock_t, dir, "ndbutil")
  files_create_lock_dirs($1)
  manage_dirs_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
  manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
  create_dirs_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
```c
#template(`polaris_ndbutil_lock_template',`
    gen_require(`
        type polaris_confd_ndbutil_lock_t;
    `)
    type polaris_$2_ndbutil_t;
    files_type(polaris_$2_ndbutil_t)

    filetrans_pattern($1, polaris_confd_ndbutil_lock_t, polaris_$2_ndbutil_t, file, $3)
    manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_$2_ndbutil_t)

    allow $1 polaris_$2_ndbutil_t:file { watch watch_reads };
`)
```

```c
#interface(`polaris_mmap_schema_domtrans',`
    gen_require(`
        type polaris_mmap_schema_t, polaris_mmap_schema_exec_t;
    `)
```
```
domtrans_pattern($1, polaris_mmap_schema_exec_t, polaris_mmap_schema_t)
)

******************************************************************************
## <summary>
##      Execute a domain transition to run confd polaris process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_confd_domtrans`,
   gen_require(`
      type polaris_confd_t, polaris_confd_exec_t;
   `)
)

domtrans_pattern($1, polaris_confd_exec_t, polaris_confd_t)
)

******************************************************************************
## <summary>
##      Read confd log file (i.e /var/confd0/log/cia-confd.log). Used
## by dmiaudthd to convert confd logs to btrace.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_confd_log_read`,
   gen_require(`
      type polaris_confd_var_t;
   `)
)    
read_files_pattern($1, polaris_confd_var_t, polaris_confd_var_t)
)

******************************************************************************
## <summary>
##      Manage confd log file (i.e /var/confd0/log/cia-confd.log). Used
## by pman to rotate logs into /bootflash/tracelogs.
## </summary>
## <param name="domain">
##      <summary>


## Domain allowed access.

```c
interface('polaris_confd_log_manage',
    gen_require(
        type polaris_confd_var_t;
    )
    manage_files_pattern($1, polaris_confd_var_t, polaris_confd_var_t)
)
```

## <summary>
## Execute dmi_ports_fetch in the caller domain.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
```
interface('confd_exec_dmi_ports_fetch',
    gen_require(
        type polaris_dmi_ports_fetch_exec_t;
    )
    corecmd_search_bin($1)
    can_exec($1, polaris_dmi_ports_fetch_exec_t)
)
```

## <summary>
## Manage confd /var/log files (i.e /var/log/confd)
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
```
interface('polaris_confd_var_log_manage',
    gen_require(
        type polaris_confd_var_log_t;
    )
    logging_log_filetrans($1, polaris_confd_var_log_t, dir, "confd")
    manage_dirs_pattern($1, var_log_t, polaris_confd_var_log_t)
    manage_files_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
)
```
## <summary>
## Read confd /var/log files (i.e /var/log/confd)
## /bootflash/tracelogs/cia-netconf-trace* also has polaris_confd_var_log_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_confd_var_log_read',
   gen_require(
      type polaris_confd_var_log_t;
   )
   list_dirs_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
   read_files_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
')

## <summary>
## Write into fifo file created by confd, typical case when
## confd starts script under popen in different domain.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_confd_tmp_use_fifo',
   gen_require(
      type polaris_confd_tmp_t;
   )
   read_fifo_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
   write_fifo_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
')

## <summary>
## Write into file created by confd, to deal with cases
## confd starts script under popen in different domain and
## file descriptor leaks into another domain. Since we cannot
## modify confd to use O_CLOEXEC
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_confd_tmp_use',`
    gen_require(`
        type polaris_confd_tmp_t;
    `)

    read_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
    write_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
`)

******************************************************************************
## <summary>
## Provide access for file operations under /etc/ dir.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_confd_etc_read',`
    gen_require(`
        type polaris_confd_etc_t;
    `)

    read_files_pattern($1, polaris_confd_etc_t, polaris_confd_etc_t)
`)

******************************************************************************
## <summary>
## Create an object in the /var directory under
## polaris_confd_var_t label.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="object">
## <summary>
## The object class of the object being created.
## </summary>
### <param>
### <param name="name" optional="true">
### <summary>
The name of the object being created.
### </summary>
### </param>
#
interface(`polaris_confd_var_filetrans',
    gen_require(`
        type polaris_confd_var_t;
    `)
)

files_var_filetrans($1, polaris_confd_var_t, $2, $3)
`

########################################
## <summary>
##     Make the specified domain able to work with /var/confd0
## </summary>
## <param name="domain">
##     Domain allowed access.
## </param>
#
interface(`polaris_confd_var_dir_manage',
    gen_require(`
        type polaris_confd_var_t;
    `)
)

manage_dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
`

########################################
## <summary>
##      Execute a domain transition to run admin_tech scripts of sdwan
## </summary>
## <param name="domain">
##      Domain allowed to transition.
## </param>
#
interface(`polaris_admin_tech_domtrans',
    gen_require(`
        type polaris_admin_tech_t, polaris_admin_tech_exec_t;
    `)
domtrans_pattern($1, polaris_admin_tech_exec_t, polaris_admin_tech_t)
')

#####################################################
## <summary>
## Read admin_tech files created under bootflash
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_admin_tech_data_read',
#     gen_require(
#         type polaris_admin_tech_data_t;
#     )
#     read_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
# )

#####################################################
## <summary>
## Manage admin_tech files created under bootflash
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_admin_tech_data_manage',
#     gen_require(
#         type polaris_admin_tech_data_t;
#     )
#     manage_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
#     manage_link_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
#     manage_dirs_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
#     allow $1 polaris_admin_tech_data_t:file watch;
# )

#####################################################
## Allow domain to be started by confd with
## transition into specific service domain.
## </summary>
## <param name="domain">
## <summary>
interface(`polaris_confd_domain',
    gen_require(''
        type polaris_confd_t;
    ')
)
domtrans_pattern(polaris_confd_t, $2, $1)
')

interface(`polaris_confd_cli_tmp_manage',
    gen_require(''
        type polaris_confd_cli_tmp_t;
    ')
    manage_files_pattern($1, polaris_confd_cli_tmp_t, polaris_confd_cli_tmp_t)
')

interface(`polaris_vconfd_tmp_manage',
    gen_require(''
        type polaris_vconfd_tmp_t;
    ')
    manage_dirs_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t)
)
manage_files_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t)
')

########################################################################
## <summary>
##    Connect to confd port. Should be used only by utility
##    domains that do not have TDL entry. Processes with TDL entries
##    just need to register as confd pseudo service clients.
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface('polaris_confed_connect',
        polaris_ripe_confd_ipe_connect($1)
')

########################################################################
## <summary>
##    Use unix stream socket created by confd as standard I/O
##    descriptors. Need to look more, because so far it triggers only
##    getattr, append and ioctl permissions. If it would be real standard I/O
##    it would need read and write as well.
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface('polaris_confed_unix_stream_stdio_use',
        gen_require(
        type polaris_confed_t;
        )
        allow $1 polaris_confed_t:unix_stream_socket { append getattr ioctl };)

########################################################################
## Creates types and rules for a script that is started
## by confd process.
## <summary>
## <param name="stem">
## <summary>
## Stem for the domain. Name is constructed as polaris_stem_t


template('polaris_vconfd_domain_template',
    polaris_utility_domain_template($1)
)

polaris_confld_domain(polaris_$1_t, polaris_$1_exec_t)

# access /etc/passwd
auth_use_nsswitch(polaris_$1_t)

# inherit unix stream as script stdio
polaris_confld_unix_stream_stdio_use(polaris_$1_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisconfd.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisngwcfed, 1.0);

gen_require(
    type polaris_ngwcFed_t;
')

polaris_btrace_data_manage(polaris_ngwcFed_t)
polaris_chasfs_manage(polaris_ngwcFed_t)
polaris_tdlresolve_read(polaris_ngwcFed_t)
polaris_tdlldb_list_dirs(polaris_ngwcFed_t)
polaris_lua_read(polaris_ngwcFed_t)
polaris_flashlib_read(polaris_ngwcFed_t)
polaris_chasync_files_manage(polaris_ngwcFed_t)

# LOOK AT ME: system() call restriction remove after
# CSCvn19282 is fixed using CSCvn19287.
#
# fed executes cp_trace_request.sh when a sv stack split occurs.
# cp_trace_request.sh does source of pglobals.sh which requires the
# access of /crashinfo.
polaris_disk_crashinfo_getattr(polaris_ngwcFed_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_fed_t)

polaris_db_tdldb_dir_use(polaris_ngwc_fed_t)

corecmd_exec_bin(polaris_ngwc_fed_t)
corecmd_exec_shell(polaris_ngwc_fed_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_fed_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_fed_t)

# allow read/write to /proc/irq/N/irq files
kernel_rw_irq Sysctls(polaris_ngwc_fed_t)

polaris_obfl_data_manage(polaris_ngwc_fed_t)
polaris_lsmpi_dev_use(polaris_ngwc_fed_t)

allow polaris_ngwc_fed_t self:capability { sys_rawio dac_override ipc_owner sys_nice ipc_lock };
allow polaris_ngwc_fed_t self:capability2 block_suspend;

polaris_dyncfg_tmp_read(polaris_ngwc_fed_t)

optional_policy('
polaris_ngwc_shm_manage(polaris_ngwc_fed_t)
')

optional_policy('
polaris_ngwc_scc_shm_manage(polaris_ngwc_fed_t)
')

# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_ngwc_fed_t)
polaris_cpp_tmp_files_use(polaris_ngwc_fed_t)

optional_policy('
# /dev/dplr_intrpt usage
polaris_dplr_dev_use(polaris_ngwc_fed_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_ngwc_fed_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_ngwc_fed_t)
')
# /dev/cli2xcvr_pipe and /dev/xcvr2cli_pipe
type polaris_fed_xcvr_pipe_t;
files_type(polaris_fed_xcvr_pipe_t)
dev_associate(polaris_fed_xcvr_pipe_t)
gen_require(
    type device_t;
)
filetrans_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t, fifo_file, "cli2xcvr_pipe")
filetrans_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t, fifo_file, "xcvr2cli_pipe")
manage_fifo_files_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t)
polaris_disk_bootflash_search(polaris_ngwc_fed_t)

allow polaris_ngwc_fed_t self:process setsched;

# work with /dev/msi/Slot0/Doppler0/GroupN files
dev_rw_generic_chr_files(polaris_ngwc_fed_t)

# read /sys/devices/system/cpu/online
dev_read_sysfs(polaris_ngwc_fed_t)

# bind to shfwd port
corenet_udp_bind_polaris_ngwc_fed_shfwd_port(polaris_ngwc_fed_t)

# connect to shfwd port
corenet_tcp_connect_polaris_fed_debug_shfwd_command_port(polaris_ngwc_fed_t)

# creates and write /flash/shfwd_params.txt file
polaris_bootflash_manage(polaris_ngwc_fed_t)

# use polaris_ngwc_fed_t as syslog_client_type
logging_send_syslog_msg(polaris_ngwc_fed_t)

# bind to dbgmn port
corenet_udp_bind_polaris_ngwc_fed_dbgmn_port(polaris_ngwc_fed_t)

corenet_udp_bind_generic_node(polaris_ngwc_fed_t)
allow polaris_ngwc_fed_t self:udp_socket { bind create getopt }

optional_policy(
    # on macallan cman_fp needs access to /dev/cisco/dplriomem
    # for mapping dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwc_fed_t);
)

# On Macallan as part of doppler sdk_asic_init(), a
# rw call is made to /dev/cpld
polaris_cpld_dev_use(polaris_ngwc_fed_t)
polaris_cpld_read(polaris_ngwc_fed_t)
# ptp_init_systemclock() called during fed process init writes
# /sys/devices/platform/cpld/reg_doppe_1588_sync
polaris_cpld_write(polaris_ngwc_fed_t)

optional_policy(
# In Macallan cards which use Doppler ASIC,
# ngmod_doppler_mmap() api is called to get hold of
# MMapped Asic address. As part of the operation it uses
# /dev/chdrvnmmap device.
polaris_chdrvnmmap_dev_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvk00737 is fixed using CSCvk00741
ifdef(`nyquist_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvm34589 is fixed using CSCvm34617
ifdef(`starfleet_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef(`quake_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_t)
')

ifdef(`sumatra_platform',`
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_ngwc_fed_t)
polaris_sumatra_doppler_dev_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn08008 is fixed using CSCvn08019.
# FED accesses raw memory (/dev/mem) for sending/receiving OOB
# traffic on an FSS interface.
ifdef(`passport_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_t)
')

#Entropy number is read from ACT2 and stored in /tmp/hw_entropy
# Allow sesa library read from /tmp/hw_entropy to update random number seed.
polaris_hw_entropy_read(polaris_ngwc_fed_t)

# fed is server for /tmp/dbgmn_log_svr socket file
type polaris_fed_sock_t;
files_tmp_file(polaris_fed_sock_t)

files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_sock_t, sock_file, "dbgmn_log_svr")

gen_require(`
   type tmp_t;
')
manage_sock_files_pattern(polaris_ngwc_fed_t, tmp_t, polaris_fed_sock_t)

optional_policy(`
# talk to rdope.sh over unix sockets
polaris_fed_debug_sock_write(polaris_ngwc_fed_t)
')

#/dev/shm/sdm access
optional_policy(`
polaris_sdm_shm_manage(polaris_ngwc_fed_t)
')

# creates few files under /tmp/installer (e.g like /tmp/installer/phy_shannon_ver_1) to indicate current h/w conditions
polaris_install_tmp_manage(polaris_ngwc_fed_t)

# communication between the nif manager and fed use directories under /tmp/sv
polaris_sv_tmp_use(polaris_ngwc_fed_t)

optional_policy(`
   polaris_quake_i2c_manage(polaris_ngwc_fed_t)
')

# work with /tmp files (/tmp/fed_post_results)
type polaris_fed_tmp_t;
files_tmp_file(polaris_fed_tmp_t)
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, file, "fed_post_result")
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, dir, "test_mrvlphy")
manage_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_dirs_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_fifo_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
polaris_cm_rp_tmp_manage(polaris_ngwc_fed_t)

# Allow write to flash. Needed for template support.
polaris_flashlib_write(polaris_ngwc_fed_t)
CSCvo78054 will be used to fix fed policies on crankshaft properly.
# Below policy is just to unblock Nightwatch boot issue on ISR in enforcing mode.
ifdef('crankshaft_family',
# ISR Nightwatch module accesses libraries compiled with icc
polaris_icc_broken_relocations(polaris_ngwc_fed_t)

#ISR Nightwatch module creates softlink /flash -> /bootflash
gen_require('  type root_t;
')
filetrans_pattern(polaris_ngwc_fed_t, root_t, polaris_disk_bootflash_t, lnk_file, "flash")

optional_policy('  polaris_epc_ws_liaison_tmp_read(polaris_ngwc_fed_t)
')

# ngwc-fed manage /tmp/epc_ws/fed_to_wif_pipe file fifo_file.
optional_policy('  polaris_epc_ws_liaison_fifo_manage(polaris_ngwc_fed_t)
')

optional_policy('  polaris_ngwc_itfpo_manage(polaris_ngwc_fed_t)
')

# access SERDES /tmp/serdes_asic_key_dir/*
optional_policy('  polaris_serdes_asic_key_tmp_manage(polaris_ngwc_fed_t)
')

# ngwc-fed creates /tmp/epe_ws dir
optional_policy('  polaris_epe_ws_liaison_tmp_file(polaris_ngwc_fed_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwcfed.te
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#
# March 2017, Victor Kamensky
#
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policy_module(polarisbtlogger, 1.0);

gen_require(  
  type polaris_bt_logger_t;
  )

polaris_btrace_data_manage(polaris_bt_logger_t)
polaris_crft_data_manage(polaris_bt_logger_t)
polaris_chasfs_manage(polaris_bt_logger_t)
polaris_tdlresolve_read(polaris_bt_logger_t)
polaris_tdlldb_list_dirs(polaris_bt_logger_t)
polaris_cpld_read(polaris_bt_logger_t)
polaris_flashlib_read(polaris_bt_logger_t)

polaris_ripc_sman_ui_serv_connect(polaris_bt_logger_t)

polaris_db_tdlldb_dir_use(polaris_bt_logger_t)

# mqipc manual, one that missing in platform tdl file

# mq.-bt_logger_dbm
    type polaris_bt_logger_dbm_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_dbm_mqipc_t)

# mq.-bt_logger_fman-rp
    type polaris_bt_logger_fman_rp_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_fman_rp_mqipc_t)

# mq.-bt_logger_iosd
    type polaris_bt_logger_iosd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_iosd_mqipc_t)

# mq.-bt_logger_smd
    type polaris_bt_logger_smd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_smd_mqipc_t)

polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_smd_mqipc_t, bt_logger_smd)

allow polaris_bt_logger_t self:capability { dac_override };

Found in path(s):
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#

policy_module(polarisgrmgr, 1.0);

gen_require(`
    type polaris_gr_mgr_t;
`)

polaris_crft_data_manage(polaris_gr_mgr_t)
polaris_chasfs_manage(polaris_gr_mgr_t)
polaris_tdlresolve_read(polaris_gr_mgr_t)
polaris_cpld_read(polaris_gr_mgr_t)
polaris_lua_read(polaris_gr_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_gr_mgr_t)

allow polaris_gr_mgr_t self:capability { dac_override dac_read_search }; #DB persistence
polaris_tlddbpersist_setup(polaris_gr_mgr_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polarisgrmgr.te

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

# January 2018, Manohar Hungund
#
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#

# polarisocotplogrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polarisocotplogrp.fc

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

# March 2017, Victor Kamensky
#
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#

/var/run/cli_agent\.pid --gen_context(system_u:object_r:polaris_cli_agent_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscliagent.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris Chasfs Policy Rules.</summary>

# Chasfs policy

### <summary>Manage chasfs files</summary>

### <param name="domain">

### Domain allowed access.

### </param>

### </summary>

interface(`polaris_chasfs_manager`,
  gen_require(`
    type polaris_chasfs_t;
  `)
  manage_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_link_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_fifo_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_sock_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)

  allow $1 polaris_chasfs_t:{file dir} watch;

  # chasfs contains a lot of weird permission files
  allow $1 self:capability dac_read_search;
')

############################################################
## <summary>
## Read chasfs files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_chasfs_read',
  gen_require(''
type polaris_chasfs_t;
')
  list_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_lnk_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_fifo_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_sock_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  allow $1 polaris_chasfs_t:{file dir} watch;

  # chasfs contains a lot of weird permission files
  allow $1 self:capability dac_read_search;
')

############################################################
## <summary>
## Manage chasync file(user_input_custom.xml)
## </summary>
## <param name="domain">
## getattr allowed access.
## </param>
## <rolebase/>
#
interface('polaris_chasync_files_manage',
  gen_require(''
type polaris_chasync_files_t;
')
  manage_files_pattern($1, polaris_chasync_files_t, polaris_chasync_files_t)
')

############################################################
## <summary>
##      Watch read chasfs directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_chasfs_watch_read',`
    gen_require(`
        type polaris_chasfs_t;
    `)
    allow $1 polaris_chasfs_t:dir watch_reads;
`)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarischasfs.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris stack_mgr Policy Rules.</summary>

###########################################################
## <summary>
##	Read and write all stack mgr's fifo file, used as
##	standard input/output.
## </summary>
## <param name="domain">
##<summary>
##Domain allowed access.
##</summary>
## </param>
## <rolecap/>
#
interface(`polaris_use_stack_mgr_fifo',`
    gen_require(`
        type polaris_stack_mgr_t;
    `)
    write_fifo_files_pattern($1, polaris_stack_mgr_t, polaris_stack_mgr_t)
`)

#
policy_module(polarisdbm, 1.0);

gen_require(
    type polaris_dbm_t;
)

ifdef('nyquist_platform',
    gen_require(
        type polaris_bt_logger_dbm_mqipc_t;
    )
)

polaris_btrace_data_manage(polaris_dbm_t)
polaris_crft_data_manage(polaris_dbm_t)
polaris_chasfs_manage(polaris_dbm_t)
polaris_tdlresolve_read(polaris_dbm_t)
polaris_tdldb_list_dirs(polaris_dbm_t)
polaris_cpld_read(polaris_dbm_t)
polaris_flashlib_read(polaris_dbm_t)
polaris_ripc_sman_ui_serv_connect(polaris_dbm_t)
polaris_db_tdldb_dir_use(polaris_dbm_t)
polaris_libeiutil_build_config_directory(polaris_dbm_t)
polaris_cfg_data_manage(polaris_dbm_t)

allow polaris_dbm_t self:capability { sys_resource };
allow polaris_dbm_t self:process setrlimit;
# dbm listen on 9090 port; in case of ultra only in tcp6
corenent_tcp_bind_websm_port(polaris_dbm_t)

polaris_dyncfg_tmp_read(polaris_dbm_t)

allow polaris_dbm_t self:capability dac_override;

# port 9090, is it exclusively wnc_mgrd port?
corenent_tcp_bind_polaris_wnc_mgrd_port(polaris_dbm_t)
allow polaris_dbm_t self:tcp_socket [shutdown];

# working dbm persistent files in /bootflash/.dbpersist
type polaris_disk_dbm_t;
polaris_disk_type(polaris_disk_dbm_t)

polaris_tdldbpersist_setup(polaris_dbm_t)

# dbm on active syncs with /bootflash/.dbpersist on standby
# related call dbm_persist_binary_cfg_sync_to_standby()
gen_require('
    type rsync_t;
')
rsync_entry_domtrans(polaris_dbm_t, rsync_t)

polaris_tmp_tdldb_persist_setup(polaris_dbm_t)

logging_send_syslog_msg(polaris_dbm_t)

corecmd_exec_bin(polaris_dbm_t)

corecmd_exec_shell(polaris_dbm_t)

# dbm needs access to "/flash1/user/.installer/install_issu_state"
polaris_disk_install_read(polaris_dbm_t)

# runs over /usr/bin/rsync
corenent_tcp_connect_rsync_port(polaris_dbm_t)

# tar invocation in dbm code necessitates this permission
auth_map_passwd(polaris_dbm_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdbm.te
No license file was found, but licenses were detected in source scan.

#
# July 2020, Victor Kamensky
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#

### <summary>Polaris htx Policy Rules.</summary>

########################################################################
### <summary>
### Manage polaris_htx_iox_tmp_t in /tmp/HTX-IOX.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

interface(`polaris_htx_iox_tmp_manage',
    gen_require(
        type polaris_htx_iox_tmp_t;
    )
    manage_files_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)
    manage_sock_files_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)
    manage_dirs_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)

    allow $1 polaris_htx_iox_tmp_t:dir watch;
    allow $1 polaris_htx_iox_tmp_t:file map;
)

########################################################################
### <summary>
### Send messages to htx unix datagram sockets.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

#
interface(`polaris_htx_dgram_send',
    gen_require(
        type polaris_htx_t;
    )
    allow $1 polaris_htx_t:unix_dgram_socket sendto;
)
## <summary>
## Work (read, write, ioctl) with /dev/sppi_memif device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_sppi_memif_dev_use',
    gen_require(
        type device_t;
        type polaris_sppi_memif_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)
    read_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)
)

## <summary>
## Work with /tmp/HTX-IOX/.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_htx_use_client_socket',
    gen_require(
        type polaris_htx_t;
    )
    allow $1 polaris_htx_t:unix_stream_socket connectto;
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarishtx.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

/obfl -l gen_context(system_u:object_r:polaris_obfl_data_t,s0)
# February 2020, Victor Kamensky
#
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#

## <summary>Polaris dbgd Policy Rules.</summary>

### <summary>Polaris dbgd Policy Rules.</summary>

#### <summary>Write dbgd /var/run socket file</summary>

#### <param name="domain">

#### Domain allowed access.

#### </summary>

#### </param>

#

interface(`polaris_dbg_var_sock_write',`

    gen_require(`
        type polaris_dbg_t;
        type polaris_dbg_var_run_t;
        type var_run_t;
    `)

    write_sock_files_pattern($1, var_run_t, polaris_dbg_var_run_t)

    allow $1 polaris_dbg_t:unix_stream_socket { connectto };

```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux/selinux/polari$dbgd.fc
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dnl
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dnl
dnl Katar WLC Platform Max Bay Limits

max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 3)
max_bay_ripc_map_set(`fp', `global', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 7)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/katarmaps.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/binos/conf/droputil.sh -- gen_context(system_u:object_r:polaris_droputil_exec_t,s0)
/tmp/rp/dropbox(/.*)?  gen_context(system_u:object_r:polaris_droputil_tmp_t,s0)
/tmp/rp/droputil(/.*)?  gen_context(system_u:object_r:polaris_droputil_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdroputil.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl May 2018, Manohar Hungund

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dnl Starfleet Platform Max Bay Limits
max_bay_map_set(‘rp’, ‘per_bay’, 0)
max_bay_map_set(‘bp’, ‘per_bay’, 0)
max_bay_map_set(‘cc’, ‘per_bay’, 1)
max_bay_map_set(‘fp’, ‘per_bay’, 1)

min_bay_ripc_map_set(‘rp’, ‘per_bay’, 0)
min_bay_ripc_map_set(‘bp’, ‘per_bay’, 0)
min_bay_ripc_map_set(‘cc’, ‘per_bay’, 1)
min_bay_ripc_map_set(‘fp’, ‘per_bay’, 0)

max_bay_ripc_map_set(‘rp’, ‘per_bay’, 1)
max_bay_ripc_map_set(‘bp’, ‘per_bay’, 1)
max_bay_ripc_map_set(‘cc’, ‘per_bay’, 1)
max_bay_ripc_map_set(‘fp’, ‘per_bay’, 1)

min_bay_ripc_map_set(‘rp’, ‘global’, 0)
min_bay_ripc_map_set(‘bp’, ‘global’, 0)
min_bay_ripc_map_set(‘cc’, ‘global’, 1)
min_bay_ripc_map_set(‘fp’, ‘global’, 0)

max_bay_ripc_map_set(‘rp’, ‘global’, 1)
max_bay_ripc_map_set(‘bp’, ‘global’, 1)
max_bay_ripc_map_set(‘cc’, ‘global’, 1)
max_bay_ripc_map_set(‘fp’, ‘global’, 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(‘rp’, ‘elastic’, BPROC_ODM, 0)
max_elastic_map_set(‘cc’, ‘elastic’, BPROC_ODM, 0)
max_elastic_map_set(‘fp’, ‘elastic’, BPROC_ODM, 0)

max_elastic_map_set(‘rp’, ‘elastic’, BPROC_WNCD, 0)
max_elastic_map_set(‘cc’, ‘elastic’, BPROC_WNCD, 0)
max_elastic_map_set(‘fp’, ‘elastic’, BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/bigbangmaps.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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### <summary>Polaris Btrace Policy Rules.</summary>

# RIPC policy

#### Work with ripc

#### Domain allowed access.

#### <rolebase/>

```bash
interface(‘polaris_ripc’,
    
corenetsbindgeneralnode($1)
    allow $1 self:tcp_socket { getattr setopt getopt bind create listen accept connect read write };
    # bipc would like to issue "setsockopt(sock, SOL_SOCKET, SO_VRF," which requires
    # net_admin and sys_admin capabilities
    allow $1 self:capability { net_admin sys_admin };

    polarissocketatnsfsread($1)
)
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisripc.if

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

#

# August 2017, Shawn Lu

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#

policy_module(polarismnspd, 1.0);

gen_require(‘
    type polaris_nmspd_t;
’)  
polaris_btrace_data_manage(polaris_nmspd_t)
polaris_crft_data_manage(polaris_nmspd_t)
polaris_chasfs_manage(polaris_nmspd_t)
polaris_tdlresolve_read(polaris_nmspd_t)
polaris_tdlldb_list_dirs(polaris_nmspd_t)
polaris_cpld_read(polaris_nmspd_t)
polaris_lua_read(polaris_nmspd_t)
polaris_flashlib_read(polaris_nmspd_t)

polaris_ripc_sman_ui_serv_connect(polaris_nmspd_t)
polaris_db_tdlldb_dir_use(polaris_nmspd_t)

################################################################################
# mqipc manual, one that missing in platform tdl file\n################################################################################
type polaris_nmspd_testclient1_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient1_mqipc_t)

type polaris_nmspd_testclient2_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient2_mqipc_t)

type polaris_testclient1_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient1_nmspd_mqipc_t)

type polaris_testclient2_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient2_nmspd_mqipc_t);

polaris_mqipc_create_name(polaris_nmspd_t, polaris_nmspd_testclient1_mqipc_t, nmspd-testclient1)
polaris_mqipc_use(polaris_nmspd_t, polaris_testclient1_nmspd_mqipc_t)

polaris_mqipc_create_name(polaris_nmspd_t, polaris_nmspd_testclient2_mqipc_t, nmspd-testclient2)
polaris_mqipc_use(polaris_nmspd_t, polaris_testclient2_nmspd_mqipc_t)

#stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_nmspd_t)
polaris_socketat_nsfs_read(polaris_nmspd_t)
# enable listen on tcp port 16113
corenets_tcp_bind_polaris_nmspd_port(polaris_nmspd_t)

allow polaris_nmspd_t self:capability dac_override;

# Allow IPC messages to Btrace Process from NMSPD Process
logging_send_syslog_msg(polaris_nmspd_t)
# Allow NMSPD to read DNS file for nameresolution
sysnet_read_config(polaris_nmspd_t)

# NMSPD uses cURL to open HTTP coonections and SSL to open TLS Connections
# to DNAspaces and CMX respectively
gen_require(
    type node_t;
)
allow polaris_nmspd_t node_t:udp_socket node_bind;
allow polaris_nmspd_t self:udp_socket { bind connect setattr };
corennet_tcp_connect_http_port(polaris_nmspd_t)
polaris_odm_clnt2svr_mqipc_create(polaris_nmspd_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_nmspd_t)
polaris_tmp_tdldb_persist_setup(polaris_nmspd_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisnmspd.te
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#
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#
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#

### <summary>Polaris rogued Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrogued.if
No license file was found, but licenses were detected in source scan.

#
# June 2020, Cuiyan Ma
#
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#
/usr/binos/conf/issu_comp_check.sh -- gen_context(system_u:object_r:polaris_issu_comp_check_exec_t)s0
/tmp/boottime_comp_check_tree_other_rp -d gen_context(system_u:object_r:polaris_issu_comp_check_tmp_t)s0

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisisissucompcheck.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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## <summary>Polaris cpp_driver Policy Rules.</summary>

### <summary>Allow access to semaphore with type polaris_cpp_driver_t</summary>

### <param name="domain">

### <summary>Domain allowed access.</summary>

### </summary>

```
interface('polaris_cpp_driver_sem_use',`
gen_require(`
type polaris_cpp_driver_t;
`)
allow $1 polaris_cpp_driver_t:sem rw_sem_perms;
```

### <summary>Allow access to shared memory with type polaris_cpp_driver_t</summary>

### <param name="domain">

### <summary>Domain allowed access.</summary>

### </summary>

```
interface('polaris_cpp_driver_shm_use',`
gen_require(`
type polaris_cpp_driver_t;
`)
allow $1 polaris_cpp_driver_t:shm rw_shm_perms;
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polariscppdriver.if

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# February 2018, Manohar Hungund

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#
## <summary>Polaris ACT2 Chip Device Access Policy Rules.</summary>

# ACT2 Chip Driver policy

### <summary>
### Work (read, write, ioctl) with /dev/act2
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#interface('polaris_act2_dev_use',
gen_require(
type device_t;
type polaris_act2_device_t;
')
read_chr_files_pattern($1, device_t, polaris_act2_device_t)
write_chr_files_pattern($1, device_t, polaris_act2_device_t)
')

### <summary>
### Create /tmp/hw_entropy file. Certain platforms save
### entropy from main board ACT-2 chip in this file.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#interface('polaris_hw_entropy_create',
gen_require(
type polaris_hw_entropy_t;
type tmp_t;
')
files_tmp_filetrans($1, polaris_hw_entropy_t, file, "hw_entropy")
manage_files_pattern($1, tmp_t, polaris_hw_entropy_t)
')
## <summary>
## Use /tmp/hw_entropy file. For some reason, iosd opens file in rw mode,
## not clear why it couldn’t just read it.
## Certain platforms save entropy from main board ACT-2 chip in this file.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_hw_entropy_use',`
    gen_require(`
        type polaris_hw_entropy_t;
        type tmp_t;
    `)
    
    rw_files_pattern($1, tmp_t, polaris_hw_entropy_t)
`)

######################################

## <summary>
## Read /tmp/hw_entropy file.
## Certain platforms save entropy from main board ACT-2 chip in this file.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_hw_entropy_read',`
    gen_require(`
        type polaris_hw_entropy_t;
    `)
    
    read_files_pattern($1, tmp_t, polaris_hw_entropy_t)
`)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisact2.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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policy_module(polariscppha, 1.0);

gen_require(
    type polaris_cpp_ha_t;
)

polaris_btrace_data_manage(polaris_cpp_ha_t)
polaris_crft_data_manage(polaris_cpp_ha_t)
polaris_chasfs_manage(polaris_cpp_ha_t)
polaris_tdlresolve_read(polaris_cpp_ha_t)
polaris_tdlldb_list_dirs(polaris_cpp_ha_t)
polaris_cpld_read(polaris_cpp_ha_t)
polaris_flashlib_read(polaris_cpp_ha_t)

polaris_ripc_sman_ui_serv_connect(polaris_cpp_ha_t)

go_polaris_db_tdlldb_dir_use(polaris_cpp_ha_t)

go_polaris_cpp_process(polaris_cpp_ha_t)
go_polaris_cpp_dev_use(polaris_cpp_ha_t)

go_polaris_icc_broken_relocations(polaris_cpp_ha_t)

go_polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_ha_t)

# allow objstore access
polaris_disk_objstore_read(polaris_cpp_ha_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef('crankshaft_family',
    polaris_dev_mem_use(polaris_cpp_ha_t)
)

# allow syslogging
logging_send_syslog_msg(polaris_cpp_ha_t)

optional_policy(
    polaris_cbdma_dev_use(polaris_cpp_ha_t)
)

go_polaris_cpld_dev_use(polaris_cpp_ha_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppha.te
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#

## <summary>Polaris Flashlib Policy Rules.</summary>

# Flashlib policy (infra/flashlib)
allow $1 self:capability dac_override;
)

########################################
## <summary>
## Write Polaris /tmp/flashdev.log file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_flashlib_log',`
  gen_require(`
    type tmp_t;
    type polaris_flashlib_log_t;
  `)

  manage_files_pattern($1, tmp_t, polaris_flashlib_log_t)
  `)

########################################
## <summary>
## Read partition disk device that contains rommon variables.
## C8KV reads object store and reads grub files in BIOS and EFI partitions.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_flashlib_read',`
  gen_require(`
    type device_t;
    type polaris_flashlib_device_t;
  `)

  polaris_flashlib_lock($1)
polaris_flashlib_log($1)
read_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
read_chr_files_pattern($1, device_t, polaris_flashlib_device_t)
ifdef(`vxe_family',`
  polaris_vxeinstall_info_read($1)
polaris_grub_info_read($1)
`)
ifdef(`vwlc_platform',`
polaris_vwlinstall_info_read($1)
polaris_vwl_grub_info_read($1)

# processes that use tdl/db will access romvar
# via flashlib mcp_getmonvar API which read /objstore.
optional_policy(
    polaris_disk_objstore_read($1)
')
polaris_flash_shm_manage($1)
)

# Write partition disk device that contains rommon variables.
## <summary>
## Domain allowed access.
## </param>
#
# interface('polaris_flashlib_write',
  gen_require('  type device_t;
  type polaris_flashlib_device_t;
')

polaris_flashlib_lock($1)
write_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
polaris_flash_shm_manage($1)
)

# Manage ngwc shared memory /dev/shm/flash_shm.
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
#
# interface('polaris_flash_shm_manage',
  gen_require('  type tmpfs_t;
  type polaris_flash_shm_t;
')
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_flash_shm_t)
allow $1 polaris_flash_shm_t:file map;
')

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#

## <summary>Polaris Btrace Policy Rules.</summary>

### Btrace policy

#### <summary>Manage btrace auxiliary files</summary>

```c
##      Manage btrace auxiliary files
##      <summary>
##      Domain allowed access.
##      </summary>
##      </param>
##      <rolebase/>
#
interface(`polaris_btrace_data_manage',
    gen_require(`
type polaris_btrace_base_t;
type polaris_btrace_tmpfs_t;
type tmpfs_t;
')

manage_dirs_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)

# work with cache files and dirs under /tmp/tmppub, like /tmp/tmppub/libs_cache
polaris_btrace_tmppub_manage($1)

fs_tmpfs_filetrans($1, polaris_btrace_tmpfs_t, file, "oper_uuid_shm")
manage_files_pattern($1, tmpfs_t, polaris_btrace_tmpfs_t)
allow $1 polaris_btrace_tmpfs_t:file map;
```
## <summary>
## Manage temporary (not yet persistent) btrace files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_btrace_data_manage_all',

    polaris_btrace_data_manage($1)

gen_require(''
    attribute polaris_btrace_data_domain;
type polaris_btrace_base_t;
''
)

manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
manage_link_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
allow $1 polaris_btrace_data_domain:file map;

# create temporary files in trace directory
manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)
manage_link_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)

# watch btrace data directory for changes
allow $1 polaris_btrace_base_t:dir watch;
''

## <summary>
## Manage btrace persitent files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_btrace_persistent_data_manage',

gen_require(''
type polaris_btrace_data_t;
''
)
manage_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
manage_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)

### <summary>
### Read btrace persistent files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolebase/>
#
# interface('polaris_btrace_persistent_data_read',
gen_require('type polaris_btrace_data_t;
')

search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
read_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)

### <summary>
### Search btrace persistent files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolebase/>
#
# interface('polaris_btrace_persistent_data_search',
gen_require('type polaris_btrace_data_t;
')

search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)

### <summary>
### Search tracelogs directions in bootflash, harddisk or crashinfo
## directories

```c
## <summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
## <rolebase/>
#
interface('polaris_btrace_search_tracelogs',
  gen_require(
    type polaris_disk_harddisk_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_crashinfo_t;
  ')

  search_dirs_pattern($1, polaris_disk_harddisk_t, polaris_btrace_data_t)
  search_dirs_pattern($1, polaris_disk_bootflash_t, polaris_btrace_data_t)
  search_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_btrace_data_t)
')
```

```c
### <summary>
### Manage btrace boot level config files
### <summary>
### <param name="domain">
###   <summary>
###      Domain allowed access.
###   </summary>
### </param>
### <rolebase/>
#
interface('polaris_btrace_lvl_config_manage',
  gen_require(
    type polaris_btrace_lvl_config_t;
    type polaris_btrace_data_t;
  ')

  manage_dirs_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
  manage_files_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
  filetrans_pattern($1, polaris_btrace_data_t, polaris_btrace_lvl_config_t, dir, "level_config")

  polaris_btrace_search_tracelogs($1)
  polaris_disk_bootflash_read_lnk($1)
  polaris_disk_harddisk_read_lnk($1)
  polaris_disk_crashinfo_read_lnk($1)
')
```
### <summary>
### Read ldb_tmp btrace meta data files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolebase/>
#
interface(`polaris_btrace_ldb_tmp_read`,
  gen_require(`
  type polaris_ldb_tmp_t;
  `)
  read_files_pattern($1, polaris_ldb_tmp_t, polaris_ldb_tmp_t)
`)

### <summary>
### 
### Read and write all btrace or pman fifo file, used as
### standard input/output.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolecap/>
#
interface(`polaris_use_btrace_fifo`,
  gen_require(`
  type polaris_fifo_stdout_t;
  `)
  allow $1 polaris_fifo_stdout_t:fifo_file { rw_term_perms lock append create unlink getattr };

# For pmanlite, allow pmans grand-children to be able to operate on
# pipe created by pman.
polaris_use_pman_fifo($1)
`)

### <summary>
### 
### Execute create_luid_file_db in the its domain.
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_create_ldb_domtrans',
    gen_require(
        type polaris_create_ldb_t, polaris_create_ldb_exec_t;
    )
    corecmd_search_bin($1)
    domtrans_pattern($1, polaris_create_ldb_exec_t, polaris_create_ldb_t)
')

#######################################
## <summary>
## Make the specified type usable as btrace data file type.
## </summary>
## <param name="type">
## Type to be used for files.
## </param>
#
interface('polaris_btrace_data_type',
    files_type($1)
    gen_require(
        attribute polaris_btrace_data_domain;
    )
    typeattribute $1 polaris_btrace_data_domain;
')

#######################################
## <summary>
## Process to manage its own btrace files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="file_type">
## File type of btrace that corresponds to given domain.
## </param>
interface('polaris_btrace_data_client',
gen_require(''
    type polaris_btrace_base_t;
')

manage_files_pattern($1, polaris_btrace_base_t, $2)
manage_lnk_files_pattern($1, polaris_btrace_base_t, $2)
filetrans_pattern($1, polaris_btrace_base_t, $2, { file lnk_file })

# all clients check for /tmp/rp/trace/publish/timed/enabled control
# file presence, created by btman, may need its own type
gen_require(''
    type polaris_btman_bt_t;
')
getattr_files_pattern($1, polaris_btrace_base_t, polaris_btman_bt_t)

allow $1 $2:file map;
')

#########################################################################
## <summary>
##   Process to manage its own btrace files
## </summary>
## <param name="domain_stem">
##   Steam of domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_btrace_data_client_template',
gen_require(''
    attribute polaris_btrace_data_domain;
    type polaris_btrace_base_t;
')

type polaris_$1_bt_t;
polaris_btrace_data_type(polaris_$1_bt_t)

    polaris_btrace_data_client(polaris_$1_t, polaris_$1_bt_t)
')

#########################################################################
## <summary>
##   Execute mcp_trace_request.sh in its domain.
## </summary>
## <summary>
## Domain allowed to transition.
## </summary>

```c
interface('polaris_trace_request_domtrans',
    gen_require(''
      type polaris_trace_request_t, polaris_trace_request_exec_t;
    ')
)
coremdb_search_bin($1)
domtrans_pattern($1, polaris_trace_request_exec_t, polaris_trace_request_t)
')

#######################################
## <summary>
## Watch btrace directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>

```c
interface('polaris_btrace_data_watch',
    gen_require(''
      type polaris_btrace_base_t;
      type polaris_btrace_data_t;
    ')
    allow $1 polaris_btrace_base_t:dir watch;
    allow $1 polaris_btrace_data_t:dir watch;
    ')
```

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbtrace.if
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#

## <summary>Polaris CPLD Policy Rules.</summary>
# Quack Driver policy

### <summary>
## Work (read, write, ioctl) with /dev/quack
## </summary>

## <param name="domain">
## Domain allowed access.
</param>

interface('polaris_quack_dev_use',
 gen_require(`
 type device_t;
 type polaris_quack_device_t;
`)
 write_chr_files_pattern($1, device_t, polaris_quack_device_t)
 read_chr_files_pattern($1, device_t, polaris_quack_device_t)
`)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisquack.if
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#

policy_module(polarisdmbmand, 1.0);

gen_require(`
 type polaris_dmi_ndbmand_t;
`)

polaris_btrace_data_manage(polaris_dmi_ndbmand_t)
polaris_crft_data_manage(polaris_dmi_ndbmand_t)
polaris_chasfs_manage(polaris_dmi_ndbmand_t)
polaris_tdldb_list_dirs(polaris_dmi_ndbmand_t)
polaris_cpld_read(polaris_dmi_ndbmand_t)
polaris_flashlib_read(polaris_dmi_ndbmand_t)
polaris_ripc_sman_ui_serv_connect(polaris_dmi_ndbmand_t)

polaris_db_tldlb_dir_use(polaris_dmi_ndbmand_t)

# work with NDBLOAD_LOCK_PATH

type polaris_dmi_ndbutil_lock_t;
files_tmp_file(polaris_dmi_ndbutil_lock_t)
polaris_ndbload_lock_use(polaris_dmi_ndbmand_t)

optional_policy(')
# deals with /dev/shm/confd setup (schema and pid)
polaris_confd_shm_setup(polaris_dmi_ndbmand_t)
# and allow read shared schema
polaris_confd_shared_schema_read(polaris_dmi_ndbmand_t)
# read /proc/confd_pid/exe file
polaris_confd_read(polaris_dmi_ndbmand_t)
')

allow polaris_dmi_ndbmand_t self:capability { dac_override dac_read_search sys_resource }

logging_send_syslog_msg(polaris_dmi_ndbmand_t)

# create ndbutil directory under /var/lock
polaris_confd_ndbutil_create(polaris_dmi_ndbmand_t)

polaris_ndbutil_lock_template(polaris_dmi_ndbmand_t, ndbmand, ".l.schema_use.ndbmand")

polaris_confd_shared_schema_watch(polaris_dmi_ndbmand_t)

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmindbmand.te
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## <summary>Polaris dmi_ncsshd_mgmt Policy Rules.</summary>

# # <summary>Polaris dmi_ncsshd_mgmt Policy Rules.</summary>

# # <summary>Polaris dmi_ncsshd_mgmt Policy Rules.</summary>

# # <summary>Polaris dmi_ncsshd_mgmt Policy Rules.</summary>
### <param name="domain">
###  <summary>
### Domain allowed access.
###  </summary>
### </param>
#
#

interface(`polaris_ncsshdAuthorized_keys_read`,
  
  gen_require(`
    type polaris_ncsshd_keys_t;
  `)
  
  read_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
  
  list_dirs_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
`)

################################################################################
### <summary>
### Watch /var/run/netns and list contents
###  </summary>
### <param name="domain">
###  <summary>
### Domain allowed access.
###  </summary>
### </param>
#
#

interface(`polaris_watch_netns`,
  
  gen_require(`
    type ifconfig_var_run_t;
  `)
  
  list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
  
  allow $1 ifconfig_var_run_t:dir watch;
`)

################################################################################
### <summary>
### Manage polaris_pttcd_tmp_t files, effectively files
### under /tmp/tmppub/interceptor
###  </summary>
### <param name="domain">
###  <summary>
### Domain allowed access.
###  </summary>
### </param>
#
#

interface(`polaris_interceptor_manage`,
  
  gen_require(`
    type polaris_pttcd_tmp_t;
  `)
  
  manage_files_pattern($1, polaris_pttcd_tmp_t, polaris_pttcd_tmp_t)
# on other platforms it is symbolic to /tmp/chassis/local/cc/chasfs
# as it happens for rp and fp. Would it be better to fix ultra
# script(s)?
files_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

#cpld-symlink.service, creates /tmp/chassis while /tmp is
# still tmpfs_t, ie before systemd-tmpfiles runs and had a
# chance to set tmp_t label on /tmp
gen_require('    
    type initrc_t;
')
fs_tmpfs_filetrans(initrc_t, polaris_chasfs_t, dir, "chassis")

init_script_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

uniq_required(chasync)

polaris_process_domain_template(chasync)

corecmd_exec_bin(polaris_chasync_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_chasync_t)

polaris_btrace_data_manage(polaris_chasync_t)
polaris_chasfs_manage(polaris_chasync_t)
polaris_cpld_read(polaris_chasync_t)
polaris_boot_tmp_read(polaris_chasync_t)
polaris_read_debug_conf(polaris_chasync_t)
polaris_rmonbifo_tmp_read(polaris_chasync_t)
polaris_proc_rmonbifo_read(polaris_chasync_t)
polaris_disk_bootflash_read_lnk(polaris_chasync_t)
polaris_disk_harddisk_read_lnk(polaris_chasync_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_chasync_t)

allow polaris_chasync_t self:capability sys_resource;
allow polaris_chasync_t self:process setpgid;

# access of crashinfo dir for the domain
polaris_disk_crashinfo_getattr(polaris_chasync_t)

# allow access of /tmp/rp/chasync for the polaris_chasync_t domain to
# create/write/read dirs/files with domain specific context
type polaris_chasync_tmp_t;
files_type(polaris_chasync_tmp_t)
files_tmp_file(polaris_chasync_tmp_t)
files_tmp_filetrans(polaris_chasync_t, polaris_chasync_tmp_t, dir, "chasync")
manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
manage_fifo_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)

# allow creation/access of temporary files created by chasync.sh like
# /tmp/sh-thread-1499428203 etc
files_tmp_filetrans(polaris_chasync_t, polaris_chasync_tmp_t, file)
manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)

fs_getattr_tmpfs(polaris_chasync_t)

# access of flash util for the domain
polaris_flashlib_read(polaris_chasync_t)

# read /proc/cmdline
kernel_read_system_state(polaris_chasync_t)

gen_require(')
    type rsync_t;
    type init_t;
    type rsync_tmp_t;
')
rsync_entry_domtrans(polaris_chasync_t, rsync_t)
allow rsync_t polaris_chasync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t init_t:unix_stream_socket ioctl;

# upon exec rsync inherits chasync's stdout/stderr fifo files
allow rsync_t polaris_chasync_t:fifo_file { getattr write };
# in chasync_prepost_rsync.sh, CHASYNC_PID_DIR (rsync pid files) is deleted by rsync
fs_getattr_tmpfs(rsync_t)

# allow file:map for rsync_tmp_t
allow rsync_t rsync_tmp_t:file map;
dev_getattr_generic_blk_files(rsync_t)
de_getattr_loop_control(rsync_t)
# need access to /usr/bin/mount
mount_entry_type(rsync_t)
# need access to dev/sda1
storage_getattr_fixed_disk_dev(rsync_t)
ifdef(`ngwc_family','
#Read and write RPC sysctls
kernel_rw_rpc_sysctls(rsync_t)
mount_domtrans(rsync_t)
fstools_domtrans(rsync_t)
#Create/read/write on fixed device disk nodes
storage_manage_fixed_disk(rsync_t)
#stat -f -L -c %T /mnt/usb0
polaris_getattr_removable(rsync_t)
storage_filetrans_all_named_dev(rsync_t)
)

#============= polaris_dyncfg ==============
polaris_dyncfg_tmp_read(rsync_t)

#============= polaris_chasync_t ==============
polaris_btrace_persistent_data_search(polaris_chasync_t)
#chasync.sh code executes mv command
allow polaris_chasync_t self:process { setfscreate };
#chasync.sh code executes ping command to check if ping works before trying rsync for the first time
netutils_domtrans_ping(polaris_chasync_t)

#chasync.sh code in wlc saves logs during cleanup to /var/log/chasync
type polaris_chasync_log_t;
logging_log_file(polaris_chasync_log_t)
manage_files_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
logging_log_filetrans(polaris_chasync_t, polaris_chasync_log_t, dir, "chasync")

# chasfs_boottime script

polaris_process_domain_template(chasfs_boottime)

unconfined_domain(polaris_chasfs_boottime_t)

# chasfs_boottime.sh starts cman_fp or cmand with -C option; allow its
# transition to fman_fp_t type
optional_policy(
  polaris_cm_rp_domtrans(polaris_chasfs_boottime_t)
  )
optional_policy(
  polaris_cm_fp_domtrans(polaris_chasfs_boottime_t)
  )
optional_policy(
  polaris_cm_cc_domtrans(polaris_chasfs_boottime_t)
  )
ifdef(ngwc_family,`
# Allow iox_polaris.conf read
polaris_caf_files_read(polaris_chasync_t)

# Allow losetup in helper script
fstools_domtrans(polaris_chasync_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_chasync_t)

# Allow console logging
term_open_unallocated_ttys(polaris_chasync_t)

# Allow logger which is used for syslog message
allow polaris_chasync_t self:unix_dgram_socket { connect create }
logging_send_syslog_msg(polaris_chasync_t)

# logger needs to run pidof
dev_read_sysfs(polaris_chasync_t)
domain_read_all_domains_state(polaris_chasync_t)

')

type polaris_chasync_files_t;
files_type(polaris_chasync_files_t)
polaris_pfile_type(polaris_chasync_files_t)

optional_policy(
  gen_require(  
    type polaris_disk_harddisk_t;
    type polaris_disk_bootflash_t;
  )
)  
filetrans_pattern(polaris_chasync_t, [polaris_disk_bootflash_t polaris_disk_harddisk_t], polaris_chasync_files_t, dir, "sys_report")
filetrans_pattern(polaris_chasync_t, [polaris_disk_bootflash_t polaris_disk_harddisk_t], polaris_chasync_files_t, dir, "fp_cc_crash")
filetrans_pattern(polaris_chasync_t, polaris_disk_bootflash_t, polaris_chasync_files_t, file, "user_input_custom.xml")

# chasync can manage files inside of its own polaris_disk_chasync_t directories
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t)
manage_files_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t)
allow polaris_chasync_t polaris_chasync_files_t:dir watch;
polaris_install_disk_read(polaris_chasync_t)

')

optional_policy(
  # chasync invoked sys_report does ls /tmp/ufs/crashinfo
  polaris_ncd_tmp_read(polaris_chasync_t)


`# chasync moves inv files from /tftp/inv to chasfs directory
allow polaris_chasync_t self:capability { chown fowner fsetid };
gen_require(`
type brctl_t;
`)

`# pd_iox.sh invokes brctl which needs access to chasfs
polaris_chasfs_read(brctl_t)

#allow chasync to unmount flash partition
mount_domtrans(polaris_chasync_t)

sysnet_domtrans_ifconfig(polaris_chasync_t)

# chasync.sh needs read access to /bootflash/.installer/install_issu_state
polaris_disk_install_read(polaris_chasync_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarischasfs.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#

## <summary>Polaris ofa Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisofa.if
No license file was found, but licenses were detected in source scan.

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#

## <summary>Polaris Common Policy Rules.</summary>

# Polaris common

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6404
Create a domain for long running Polaris processes in confined mode.

Create a domain for long running Polaris processes. Note depending on policy build setting it could be confined or not confined.
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>

## <param name="entry_point">
##	<summary>
##	Type of the program to be used as an entry point to this domain.
##	</summary>
## </param>

# interface(`polaris_process_domain',`

    # the default is to confine all domains
    polaris_process_domain_confined($1, $2)

    #
    # if the domain is in the permissive map, then set it to be confined
    # permissive. if the domain is in the confined map, then there really
    # isnt much else to do but leave it confined. if the domain isnt in
    # the permissive or confined maps then determine if the domain should
    # be unconfined.
    #
    ifelse(permissive_domain($1), $1, `polaris_permissive_domain_setup($1)',
            confined_domain($1), $1, `',
            `polaris_domain_maybe_unconfined($1)'
    )

#######################################

## <summary>
##      Create a domain for utility Polaris processes in
##  confined mode.
## </summary>

## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>

## <param name="entry_point">
##	<summary>
##	Type of the program to be used as an entry point to this domain.
##	</summary>
## </param>

# interface(`polaris_utility_domain_confined',`

domain_type($1)

domain_entry_file($1, $2)
    role system_r types $1;
```xml
 gen_require(
     attribute polaris_domain;
     attribute polaris_exec_domain;
     attribute polaris_extended_domain;
   )
typeattribute $1 polaris_domain, polaris_extended_domain;
typeattribute $2 polaris_exec_domain;

# allow all process to check whether kernel ksm is enabled
polaris_ksm_run_check($1)

)  

#   Create a domain for utility Polaris processes. Note
#   depending on policy build setting it could be confined or
#   not confined
#
ifacepolaris_utility_domain',
# the default is to confine all domains
polaris_utility_domain_confined($1, $2)

#
# if the domain is in the permissive map, then set it to be confined
# permissive. if the domain is in the confined map, then there really
# isn't much else to do but leave it confined. if the domain isn't in
# the permissive or confined maps then determine if the domain should
# be unconfined.
#
ifelse(permissive_domain($1), $1, `polaris_permissive_domain_setup($1)',
    confined_domain($1),   $1, `'
    `polaris_domain_maybe_unconfined($1)'
)  

)  
```

## <summary>
##	Creates types and rules for a basic
##	polaris process domain.
## </summary>
## <param name="stem">
##	<summary>
##	Stem for the domain. Name is constructed as polaris_stem_t
##
## </param>
#

```
template('polaris_process_domain_template',

    type polaris_$1_t;
    type polaris_$1_exec_t;

    polaris_process_domain(polaris_$1_t, polaris_$1_exec_t)
    ifdef(polaris_permissive,`
        permissive polaris_$1_t;
    `)
)
```

```
polaris_btrace_data_client_template($1)
polaris_maroon_data_client_template($1)
polaris_crft_data_client_template($1)
polaris_process_proc_kpageflags_template($1)
polaris_process_uswap_access(polaris_$1_t, $1, "$1")
`)
```

```
############################################
## <summary>
##	Creates types and rules for a basic
##	polaris process domain.
## </summary>
## <param name="stem">
##	<summary>
##	Stem for the domain. Name is constructed as polaris_stem_t
##
## </param>
#

```
template('polaris_utility_domain_template',

    type polaris_$1_t;
    type polaris_$1_exec_t;

    polaris_utility_domain(polaris_$1_t, polaris_$1_exec_t)
    ifdef(polaris_permissive,`
        permissive polaris_$1_t;
    `)
)
```

```
polaris_btrace_data_client_template($1)
polaris_maroon_data_client_template($1)
```
polaris_crt_data_client_template($1)
polaris_process_proc_kpageflags_template($1)
')

######################################
## <summary>
## Allow the specified domain to execute polaris domain
## process in the caller domain.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_exec',
    gen_require(
        attribute polaris_exec_domain;
    ')
    can_exec($1, polaris_exec_domain)
')

######################################
## <summary>
## Allow the specified domain to read polaris domain
## executable file. I.e to get information from executables
## like binary trace info, trace key etc
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_read_exec_domain',
    gen_require(
        attribute polaris_exec_domain;
        type bin_t;
    ')
    read_files_pattern($1, bin_t, polaris_exec_domain)
')

######################################
## <summary>
## Allow the specified domain to receive signals from any


## polaris process.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_receive_signal_from_domain',
   gen_require(
      attribute polaris_domain;
   ')

allow polaris_domain $1:process signal_perms;
')

########################################################################
## Systemd-tmpfiles utility creates an object
## in the tmp directories, with a private type using a type transition.
## Note rules to create files and directories which are performed by systemd-tmpfiles reside in /lib/tmpfiles.d/
## directory. And polaris specific rules are in binos.conf file.
## Note systemd-tmpfiles utility would use label from file_contexts to restore proper label. I.e the same effect could be achived by
## placing proper .fc expression.
## </summary>
## <param name="private type">
## The type of the object to be created.
## </summary>
## </param>
## <param name="object">
## The object class of the object being created.
## </summary>
## </param>
## <param name="name">
## The name of the object being created.
## </summary>
## </param>
#
# interface('polaris_systemd_tmpfiles_tmp_filetrans',
   gen_require(
      type systemd_tmpfiles_t;
   ')}
files_tmp_filetrans(systemd_tmpfiles_t, $1, $2, $3)
)

*****************************************************************************
## <summary>
## socketat through get_netns_fd function call access
## /proc/pid/ns/net file
##
## Implementation notes:
##
## wants to read /proc/pid/ns/net but gets denial because our 3.10 kernel
## does not support nsfs yet, so /proc/pid/ns/net is marked as proc_t instead
## of be nsfs_t. For now allow read access to proc_t through
## kernel_system_state_reader attribute. Try to drop it in latter kernels
## type=AVC msg=audit(1479574148.450:70): avc: denied { open } for pid=27619 comm="smd"
## path="net:[4026531957]" dev="proc" ino=4026531957 scontext=system_u:system_r:polaris_smd_t:s0
## tcontext=system_u:object_r:proc_t:s0 tclass=file
## in 4.4 /proc/pid/ns/net inode is under nsfs_t, polaris_smd_t needs to
## open, getattr, and read from it
##
## </summary>
## <param name="domain">
##
## Domain allowed access.
##
## </summary>

#
interface(`polaris_socketat_nsfs_read',`
    kernel_read_system_state($1)
    fs_read_nsfs_files($1)
    gen_require(`
        type ifconfig_var_run_t;
    `)
    list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
)

*****************************************************************************
## <summary>
## All namespace related operation to switch name space
## is covered under this macro.
##
## </summary>
## <param name="domain">
##
## Domain allowed access.
##
## </param>
#
interface(`polaris_namespace_set_netns_with_etc',`
    files_mounton_isid($1)
files_mounton_root($1)
dev_mount_sysfs_fs($1)
dev_unmount_sysfs_fs($1)
sysnet_read_config($1)
sysnet_write_config($1)
sysnet_manage_config_dirs($1)
files_rw_etc_files($1)
allow $1 net_conf_t:file mounton;
allow $1 etc_t:file mounton;
allow $1 self:capability sys_chroot;
')

###################################################################
## <summary>
##      process can execute libeiutil build_config_directory function
##
## Implementation notes:
##  build_config_directory function from mgmt/libeiutil/src/eiutil.c
## calls glibc nftw function, which effectively walks whole file tree
## and execute given call back. While function is executed it needs
## access to all files and directories attributes also it wants to
## search all directories. But we will not grant search access to
## security_file_type, instead we will dontaudit those. Anyway no
## relevant config file should be under security_file_type directory.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface(`polaris_libeiutil_build_config_directory',
   files_getattr_all_files($1)
   files_getattr_all_dirs($1)
   files_read_all_symlinks($1)
   files_list_non_security($1)
   files_dontaudit_list_security_dirs($1)
')

###################################################################
## <summary>
##      Allow the specified domain to read write from i2c device.
##
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface('polaris_i2c_use',
    gen_require(')--
        type device_t;
        type polaris_i2c_device_t;
    ')
)

rw_chr_files_pattern($1, device_t, polaris_i2c_device_t)
')

interface('polaris_remap_mem_dev_use',
    gen_require(')--
        type device_t;
        type polaris_remap_mem_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)
    read_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)
    allow $1 polaris_remap_mem_device_t:chr_file map;
')

interface('polaris_firmware_read',
    gen_require(')--
        type polaris_firmware_t;
    ')
    read_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
# /firmware/* are link files, allow to follow symbolic link
allow $1 polaris_firmware_t:lnk_file read;
allow $1 polaris_firmware_t:dir read;

######################################
## <summary>
##  Allow the specified domain to manage firmware files
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
# interface('polaris_firmware_manage',
#    gen_require(
#        type polaris_firmware_t;
#    )
#
#    manage_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
#    manage_lnk_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
#    manage_dirs_pattern($1, polaris_firmware_t, polaris_firmware_t)
# )

######################################
## <summary>
##  Allow the specified domain to getattr of firmware files
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
# interface('polaris_firmware_getattr',
#    gen_require(
#        type polaris_firmware_t;
#    )
#
#    getattr_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
# )

######################################
## <summary>
##  Allow the specified domain to map of firmware files
## </summary>
## <param name="domain">
## </param>
#
## Domain allowed access.

## Allow the specified domain to write relocations into text segment, deals with icc broken relocations.

## LOOK AT ME:

## Basically it deals with denials like this:

type=AVC msg=audit(1475815369.598:3): avc: denied { execmod } for pid=4929 comm="cman_fp" path="/tmp/sw/mount/csr1000v-mono-universalk9.2016-10-06_20.15_kamensky.SSA.pkg/usr/cpp/lib64/libcpp_client_ha_oor.so" dev="loop0" ino=7683 scontext=system_u:system_r:unconfined_service_t:s0 tcontext=system_u:object_r:lib_t:s0 tclass=file

## It happens because icc generates code with relocations in text segment and run-time linker is dealing with it by doing mprotect(WRITE), relocatings, mprotect(NO WRITE). Remove once icc compiled is fixed

## LOOK AT ME!!! LOOK AT ME!!! Missing driver: application works
## with /dev/mem directly
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_dev_mem_use',
    dev_read_raw_memory($1)
    dev_write_raw_memory($1)
    allow $1 self:capability sys_rawio;
    gen_require(
        type memory_device_t;
    )
    allow $1 memory_device_t:chr_file map;
 )

##################################################################
## <summary>
##      Append to /tmp/etc file. First usage to update xinetd.conf files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_etc_append',
    gen_require(
        type polaris_etc_t;
    )
    append_files_pattern($1, polaris_etc_t, polaris_etc_t)
 )

##################################################################
## <summary>
##      Search /tmp/etc directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_etc_search',
    gen_require('}
type polaris_etc_t;

search_dirs_pattern($1, polaris_etc_t, polaris_etc_t)

########################################
## <summary>
## List the contents of /etc directories.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_etc_list',`
  gen_require(`
    type polaris_etc_t;
  `)

allow $1 polaris_etc_t:dir list_dir_perms;

########################################
## <summary>
## Allow domain to attach to TUN devices created by ifconfig_t subject.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`ifconfig_attach_tun_iface',`
  gen_require(`
    type ifconfig_t;
  `)

allow $1 ifconfig_t:tun_socket relabelfrom;
  allow $1 self:tun_socket relabelto;
`

########################################
## Perms used by pidof
## binos/infra/systemd/scripts/errmsg.sh, might needs /dev/ttyS0
## access.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`pidof_use`);
# FIXME or fix labeling
#/sys/devices/system/cpu/online should be labeled cpu_online_t
# but for some reason this did not happen, grant perms for both
dev_read_sysfs($1)
dev_read_cpu_online($1)
#/proc scan
domain_read_all_domains_state($1)
kernellist_proc($1)
')

########################################################################
## <summary>
##      Script can execute errmsg function from
##      binos/infra/systemd/scripts/errmsg.sh, might needs /dev/ttyS0
##      access.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_script_errmsg_use`,
# send to syslog (journal), iosd outputs to console if up
logging_send_syslog_msg($1)
# check if iosd is up and find its pid and if ttyS0 is opened
pidof_use($1)
# if FDs dont have ttyS0 it sends to console itself
term_use_unallocated_ttys($1)
')

########################################################################
## <summary>
##      Allow the specified domain to read ebf (explicit
##      bindind) files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
interface('polaris_ebf_map',
    gen_require(
        type polaris_ebf_t;
    )
)
read_files_pattern($1, polaris_ebf_t, polaris_ebf_t)
allow $1 polaris_ebf_t:file map;
'
)

interface('polaris_show_version',
    read_files_pattern($1, $2, $2)
    allow $1 $2:file map;
')

interface('polaris_permissive_domain_setup',
    gen_require(
        type $1;
permisse $1;

/**
 * Creates types and rules for process access to uswap feature.
 * Ability to create file/folder under /bootflash/USWAP/"FRU", and
 * map file.
 */

### <summary>
## Domain allowed access.
### </summary>

### <summary>
## Stem for the object label. Name is contracted as
## polaris_"stem"_uswap_files_t. It should be the short
## form of the process name.
## E.g., for IOSd polaris_iosd_uswap_files_t.
### </summary>

### <summary>
## The name of the object being created.
## Name of the folder created by the process for
## creating the uswap files.
### </summary>

#

template('polaris_process_uswap_access',
    gen_require(' 
        type polaris_uswap_files_t;
    ')
    type polaris_$2_uswap_files_t; 
    files_type(polaris_$2_uswap_files_t) 
    polaris_pfile_type(polaris_$2_uswap_files_t) 

    filetrans_pattern($1, polaris_uswap_files_t, polaris_$2_uswap_files_t, {file dir})
    manage_dirs_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
    manage_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
    manage_lnk_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
    allow $1 polaris_$2_uswap_files_t:file map;
# allow access to pvp to clean-up the process related uswap file/folder

gen_require(
    type polaris_pvp_t;
)

allow polaris_pvp_t polaris_$2_uswap_files_t:dir { read remove_name rmdir write };
allow polaris_pvp_t polaris_$2_uswap_files_t:file unlink;

########################################
## <summary>
##      Allow process access to to access page related files such as "/proc/kpageflags"
## </summary>
## <param name="stem">
##      <summary>
##      Stem for the domain. Name is constructed as polaris_stem_t
##      </summary>
## </param>
#
template(`polaris_process_proc_kpageflags_template',
    gen_require(
        type proc_t;
    )
    allow polaris_$1_t proc_t:file { open read };
)

########################################
## <summary>
##      transition context of fman(rp/fp) created iptbl tmp files related to acl mgmt.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
template('polaris_fman_acl_iptbl_tmp_file',
    gen_require(
        type polaris_iptbl_tmp_t;
    )
    files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v4")
    files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v6")
    manage_files_pattern($1, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
)

########################################
## <summary>
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
template('polaris_fman_acl_iptbl_tmp_file',
    gen_require(
        type polaris_iptbl_tmp_t;
    )
    files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v4")
    files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v6")
    manage_files_pattern($1, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
)
## Manage files/folders in /tmp/rsync_log_dir.

```c
# gen_require(`

type polaris_rsync_tmp_t;

manage_files_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
manage_dirs_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
```

## Manage cerr shared memory /dev/shm/cerrno_dll.

```c
# gen_require(`

type tmpfs_t;

type polaris_cerr shm_t;

fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_cerr shm_t)
allow $1 polaris_cerr shm t:file map;
fs_tmpfs_filetrans($1, polaris_cerr shm t, file, "cerrno dll")
```

## Manage shared memory for vrf - /dev/shm/vrf_shm.

```c
# gen_require(`

type tmpfs_t;

type polaris_vrf shm t;

fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_vrf shm_t)
allow $1 polaris_vrf shm t:file map;
fs_tmpfs_filetrans($1, polaris_vrf shm t, file, "vrf shm")
```

gen_require(
    type tmpfs_t;
    type polaris_vrf_shm_t;
)
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_vrf_shm_t)
allow $1 polaris_vrf_shm_t:file map;
filetrans_pattern($1, tmpfs_t, polaris_vrf_shm_t, file, "vrf_shm")
')

#######################################
## <summary>
## On-demand creation of vrf-based netns using "ip netns".
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface("polaris_vrf_netns_manage",
    polaris_vrf_shm_manage($1)

kernel_rw_net_sysctls($1)
polaris_lfts_dev_use($1)

sysnet_exec_ifconfig($1)
sysnet_manage_ifconfig_run($1)
gen_require(
    type ifconfig_var_run_t;
)
allow $1 ifconfig_var_run_t:file { create mounton open read };
allow $1 ifconfig_var_run_t:dir mounton;

gen_require(
    type polaris_ip_linux_port_var_t;
)
read_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
getattr_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
')

#################################################################
## Allow read/write of network state directory files
## Domain allowed access.
interface('polaris_kernel_rw_network_state_files',
  gen_require(
    type proc_net_t;
  ')
)

rw_files_pattern($1, proc_net_t, proc_net_t)
')
#
#
##########################################################################
#
<summary>
## Allow the specified domain to send signals to
## Binos shell
</summary>

<param name="domain">
## Domain allowed access.
</param>
#
#
interface('polaris_send_signal_to_shell',
  gen_require(
    type polaris_shell_t;
  ')
)

allow $1 polaris_shell_t:process signal_perms;
')

##########################################################################

<summary>
## Execute curl in the curl domain.
</summary>

<param name="domain">
## Domain allowed to transition.
</param>
#
#
interface('polaris_curl_domtrans',
  gen_require(
    type polaris_curl_t, polaris_curl_exec_t;
  ')
)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_curl_exec_t, polaris_curl_t)
## <summary>
## Manage files and directories in /tmp directory with rsync_tmp_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('rsync_tmp_manage',
#     gen_require(
#         type rsync_tmp_t;
#     )
#     manage_dirs_pattern($1, rsync_tmp_t, rsync_tmp_t)
#     manage_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
#     manage_lnk_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
#     manage_fifo_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
# )
#
## <summary>
## Allow the specified domain to read /tmp/ldwm_envelope file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
##<param name="domain">
## Domain allowed access.
## </param>
## </param>
# interface('polaris_ldwm_envelope_read',
#     gen_require(
#         type polaris_ldwm_envelope_tmp_t;
#     )
#     read_files_pattern($1, polaris_ldwm_envelope_tmp_t, polaris_ldwm_envelope_tmp_t)
# )

## <summary>
## This is copied from polarisngwc.if since other platforms may also
## read/write /sys/devices files. In addition to ngwc, tsn requires it.
## Write into /sys/devices/virtual/misc/gpio/gpio_out_assert sysfs files.
## or /sys/devices/platform/cpn-110-master/cpn-110-master sysfs
## </summary>
## <param name="domain">
## </param>
## <summary>
## Domain allowed access.
## </summary>
## </param>
interface("polaris_gpio_dev_read_write",
    gen_require(
        type polaris_gpio_dev_t;
    )
read_files_pattern($1, polaris_gpio_dev_t, polaris_gpio_dev_t)
write_files_pattern($1, polaris_gpio_dev_t, polaris_gpio_dev_t)
)

#######################################
## <summary>
## Manage files under /bootflash/certs , cert files for AP
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface("polaris_wlc_ap_cert_manage",
    gen_require(
        type polaris_ap_cert_file_t;
    )
manage_files_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)
manage_dirs_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)
)

#######################################
## <summary>
## Manage SERDES key directory and files
## SERDES library stores info in /tmp/serdes_asic_key_dir/*
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface("polaris_serdes_asic_key_tmp_manage",
    gen_require(
        type polaris_serdes_asic_key_tmp_t;
    )
files_tmp_filetrans($1, polaris_serdes_asic_key_tmp_t, {dir file}, "serdes_asic_key_dir")
manage_dirs_pattern($1, {tmp_t polaris_serdes_asic_key_tmp_t}, polaris_serdes_asic_key_tmp_t)
manage_files_pattern($1, polaris_serdes_asic_key_tmp_t, polaris_serdes_asic_key_tmp_t)
')

#######################################
## <summary>
##      Manage polaris_tech_support_tmp_t in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface(`polaris_tech_support_tmp_read',`
    gen_require(`
        type polaris_tech_support_tmp_t;
    `)
    read_files_pattern($1, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)
')

#######################################
## <summary>
##      Getattr of any file under /proc/*/fd/*. Typically
## run by lsof.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface(`polaris_proc_fd_all_getattr',`

domain_read_all_domains_state($1)
files_getattr_all_files($1)
files_getattr_all_dirs($1)
files_getattr_all_sockets($1)
files_getattr_all_pipes($1)
files_getattr_all_chr_files($1)
files_getattr_all_symlinks($1)
files_read_all_dirs_except($1)
dev_getattr_all_chr_files($1)
dev_getattr_all_blk_files($1)
dev_getattr_mtrr_dev($1)

# misc socket and fifo files got created under label of its process domain
# and since domain labes are not in file_type attribute, need special
# permission
gen_require(
    attribute domain;
')
allow $1 domain:{socket socket_class_set fifo_file} getattr;
# access sysctlrpc_t
kernel_read_rpc_sysctls($1)
')

*****************************************************************************
## <summary>
## Manage files and directories sysfs. This should only be used
## if the interface needs sysfs_t create access. Otherwise please use
## dev_rw_sysfs
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_sysfs_manage',`
gen_require(`
type sysfs_t;
')
manage_files_pattern($1, sysfs_t, sysfs_t)
')

*****************************************************************************
## <summary>
## Check access to the init/systemd executable.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_init_access_check',`
gen_require(`
type init_exec_t;
')
init_access_check($1)
allow $1 init_exec_t:file {open read};
allow $1 init_exec_t:lnk_file read_lnk_file_perms;
')
### <summary>
### Manage polaris_manage_rommon_info in /tmp.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
interface(‘polaris_manage_rommon_info’,
    gen_require(
        type polaris_rommon_info_tmp_t;
    ’)
    manage_files_pattern($1, polaris_rommon_info_tmp_t, polaris_rommon_info_tmp_t)
’)  

### <summary>
### Allow the specified domain to manage tamlib debug file /bootflash/tamlib_dbg_log
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface(‘polaris_tamlib_dbg_file_manage’,
    gen_require(
        type polaris_tamlib_dbg_file_t;
    ’)
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_tamlib_dbg_file_t, file, "tamlib_dbg_log")
    manage_files_pattern($1, polaris_tamlib_dbg_file_t, polaris_tamlib_dbg_file_t)
’)  

### <summary>
### Allow access to /dev/ddr
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface(‘polaris_ddr_dev_use’,
    gen_require(
        type device_t;
        type polaris_ddr_device_t;
    ’)
write_chr_files_pattern($1, device_t, polaris_ddr_device_t)
read_chr_files_pattern($1, device_t, polaris_ddr_device_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscommon.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky
#  
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# All rights reserved
#  
### <summary>Polaris LUA Policy Rules.</summary>

# Polaris lfts


### <summary>
## Work (read, write, ioctl) with /dev/dev_lfts device.

## <param name="domain">
##  Domain allowed access.
##  
## </param>

## <rolebase/>

interface(`polaris_lfts_dev_use`

```
write_chr_files_pattern($1, device_t, polaris_lfts_device_t)
read_chr_files_pattern($1, device_t, polaris_lfts_device_t)
```

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislfts.if
No license file was found, but licenses were detected in source scan.

#  
# August 2017, Victor Kamensky
policy_module(polarisbsm, 1.0);

policy_module(polarisbsm, 1.0);

generate(\n
category polaris_bsm_t;

polaris_btrace_data_manage(polaris_bsm_t)
polaris_chasfs_manage(polaris_bsm_t)
polaris_tdlresolve_read(polaris_bsm_t)
polaris_tdlldb_list_dirs(polaris_bsm_t)
polaris_cpld_read(polaris_bsm_t)
polaris_flashlib_read(polaris_bsm_t)
polaris_rpic_sman_ui_serv_connect(polaris_bsm_t)

optional_policy(\n
polaris_bde_dev_use(polaris_bsm_t)
)

allow polaris_bsm_t self:capability sys_nice;
allow polaris_bsm_t self:process setsched;

# need access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_bsm_t)

# handling /var/tmp/bsm_bcm_shell
type polaris_bsm_bcm_shell_t;
files_type(polaris_bsm_bcm_shell_t)
generate(\n
category tmp_t;

filetrans_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t, fifo_file, "bsm_bcm_shell")
manage_fifo_files_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t)

ifdef(\n
'vxe_family',

# bind to BSM_AGENT_CLIENT_PORT port from bsm_tlv_init
corenet_tcp_bind_polaris_bsm_agent_client_port(polaris_bsm_t)
')

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_bsm_t)

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

# Aug 2020, Sridhar C
#
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#

policy_module(polarisxcopy, 1.0);

########################################################################
## xcopy_script.sh
########################################################################
polaris_utility_domain_template(xcopy_script)

polaris_bexecute_domain(polaris_xcopy_script_t, polaris_xcopy_script_exec_t)
# xcopy_script.sh call other scripts through brelay.sh
polaris_bexecute_domtrans(polaris_xcopy_script_t)

polaris_chasfs_manage(polaris_xcopy_script_t)

# xcopy calls curl/sshpass/scp command and support scp/http/https
gen_require('
    type polaris_curl_t;
    type ssh_exec_t;
    type ssh_home_t;
    type devpts_t;
')
polaris_curl_domtrans(polaris_xcopy_script_t)
corenets_tcp_connect_ssh_port(polaris_curl_t)
corenets_tcp_connect_http_port(polaris_curl_t)
corenets_tcp_connect_ssh_port(polaris_xcopy_script_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_xcopy_script_t)

# read polaris vrf net namespace file
fs_read_nsfs_files(polaris_xcopy_script_t)

# curl needs access to bootflash
polaris_bootflash_manage(polaris_curl_t)
polaris_bootflash_manage(polaris_xcopy_script_t)

# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy(‘polaris_ncd_tmp_read(polaris_xcopy_script_t)"
# Execute
corecmd_exec_bin(polaris_xcopy_script_t)

# uses kernel utilities like pidof, stat
domain_read_all_domains_state(polaris_xcopy_script_t)
kernellist_proc(polaris_xcopy_script_t)

# read /proc/cmdline
kernel_read_system_state(polaris_xcopy_script_t)
fs_getattr_tmpfs(polaris_xcopy_script_t)
fs_getattr_xattr_fs(polaris_xcopy_script_t)

# xcopy started from the smand and needs fifo
polaris_smand_use_fifo(polaris_xcopy_script_t)

# ping to check reachability
netutils_domtrans_ping(polaris_xcopy_script_t)
#
# calls mcp_chvrf.sh for ping and curl
polaris_chvrf_domtrans(polaris_xcopy_script_t)

# xcopy uses ps to find the curl process state
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_xcopy_script_t)

# Started by bexecute so it has its stdin set to telnet pty file
telnet_use_ptys(polaris_xcopy_script_t)

# stdout is set to fifo set by rotte to capture output into btrace
# btrace also need these policies :)
# btrace_init also refer to /tmp/sw/boot/..
polaris_use_btrace_fifo(polaris_xcopy_script_t)
polaris_cpld_read(polaris_xcopy_script_t)
polaris_boot_tmp_read(polaris_xcopy_script_t)

# Allow /tmp/xcopy/
type polaris_xcopy_tmp_t;
files_tmp_file(polaris_xcopy_tmp_t)
files_tmp_filetrans(polaris_xcopy_script_t, polaris_xcopy_tmp_t, { dir file })
polaris_xcopy_tmp_manage(polaris_xcopy_script_t)

# Curl writes the progress...
polaris_xcopy_tmp_manage(polaris_curl_t)

# PS command access ttyS1
term_getattr_unallocated_ttys(polaris_xcopy_script_t)

# sshpass/scp
ssh_getattr_user_home_dir(polaris_xcopy_script_t)

# sshpass uses the ptmx
term_use_ptmx(polaris_xcopy_script_t)
term_getattr_pty_fs(polaris_xcopy_script_t)

# scp uses ssh
#allow polaris_xcopy_script_t ssh_exec_t:file { execute execute_no_trans map open read }; ssh_exec(polaris_xcopy_script_t)

allow polaris_xcopy_script_t self:capability {sys_resource fsetid};
allow polaris_xcopy_script_t self:process setfscreate;
allow polaris_xcopy_script_t ssh_home_t:dir { create search }; allow polaris_xcopy_script_t devpts_t:chr_file { getattr open read setattr write ];

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisxcopy.te
No license file was found, but licenses were detected in source scan.

#
# Oct 2020, Xin Xiang
#
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#

## <summary>Polaris Doppler Policy Rules.</summary>

"""
# Work (read, write, ioctl) with /dev/dmamap
"""

interface('polaris_dmammap_dev_use',
gen_require(
    type device_t;
    type polaris_dmammap_device_t;
)
write_chr_files_pattern($1, device_t, polaris_dmammap_device_t)
read_chr_files_pattern($1, device_t, polaris_dmammap_device_t)"""
allow $1 polaris_dmammap_device_t:chr_file map;
')

#########################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/dmamap
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_dplr_dev_use',
   gen_require(
      type device_t;
      type polaris_dplr_device_t;
   )
   write_chr_files_pattern($1, device_t, polaris_dplr_device_t)
   read_chr_files_pattern($1, device_t, polaris_dplr_device_t)
   allow $1 polaris_dplr_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdoppler.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
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#

policy_module(polarisnifmgr, 1.0);

gen_require(
   type polaris_nif mgr_t;
 )

polaris_ripc_sman_ui_serv_connect(polaris_nif mgr_t)

polaris_btrace_data_manage(polaris_nif mgr_t)
polaris_crft_data_manage(polaris_nif mgr_t)
polaris_chasfs_manage(polaris_nif mgr_t)
polaris_tdlresolve_read(polaris_nif mgr_t)
polaris_tldldb_list_dirs(polaris_nif mgr_t)
polaris_cpld_read(polaris_nif mgr_t)
polaris_lua_read(polaris_nif_mgr_t)
polaris_flashlib_read(polaris_nif_mgr_t)

# If romvar is not set, Set Rommon env variable needs write permission
polaris_flashlib_write(polaris_nif_mgr_t)

logging_send_syslog_msg(polaris_nif_mgr_t)

# set out of band interface mac set_oobndif_mac
allow polaris_nif_mgr_t self:tcp_socket ioctl;

# communication between the nif manager and fed use directories under /tmp/sv
polaris_sv_tmp_use(polaris_nif_mgr_t)

# /dev/shm/sdm access
optional_policy('polaris_sdm_shm_manage(polaris_nif_mgr_t)')

# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_nif_mgr_t)

# allow create and write access to the /proc/*_sesa file
gen_require('type polaris_proc_sesa_t;
')
polaris_proc_sesa_create_write(polaris_nif_mgr_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisnifmgr.te
No license file was found, but licenses were detected in source scan.

# # Sep 2020, Sridhar C
# # Copyright (c) 2020 by Cisco Systems, Inc.
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#
/usr/binos/conf/xcopy_script.sh -- gen_context(system_u:object_r:polaris_xcopy_script_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisxcopy.fc
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
## <summary>Polaris Storage Policy Rules.</summary>

# Persistent storage policy

```
interface('polaris_disk_type',
      files_type($1)
      gen_require(
          attribute polaris_disk;
      )
      typeattribute $1 polaris_disk;
')
```

## <summary>
## Make the specified type usable as default type for files
## in a Polaris persistent (bootflash, hardisk, etc) filesystem.
## </summary>
## <param name="type">
## Type to be used for files.
## </param>

```
interface('polaris_pfile_type',
      files_type($1)
      gen_require(
          attribute polaris_disk;
      )
      typeattribute $1 polaris_disk;
')
```
interface('polaris_persistent_read',
    gen_require(
        attribute polaris_disk;
    
     read_files_pattern($1, polaris_disk, polaris_disk)
            read_lnk_files_pattern($1, polaris_disk, polaris_disk)
            list_dirs_pattern($1, polaris_disk, polaris_disk)
    
)}

interface('polaris_persistent_getattr',
    gen_require(
        attribute polaris_disk;
    
     list_dirs_pattern($1, polaris_disk, polaris_disk)
            getattr_files_pattern($1, polaris_disk, polaris_disk)
            getattr_lnk_files_pattern($1, polaris_disk, polaris_disk)
    
)}

interface('polaris_persistent_listdir',
    gen_require(
        attribute polaris_disk;
    
     list_dirs_pattern($1, polaris_disk, polaris_disk)
            list_files_pattern($1, polaris_disk, polaris_disk)
            list_lnk_files_pattern($1, polaris_disk, polaris_disk)
    
)}
interface('polaris_persistent_list_dirs',

gen_require(';

attribute polaris_disk;
')
list_dirs_pattern($1, polaris_disk, polaris_disk)
')

interface('polaris_persistent_manage',

gen_require(';

attribute polaris_disk;
')
manage_files_pattern($1, polaris_disk, polaris_disk)
manage_dirs_pattern($1, polaris_disk, polaris_disk)
manage_lnk_files_pattern($1, polaris_disk, polaris_disk)
')

interface('polaris_persistent_map',

gen_require(';

attribute polaris_disk;
')
allow $1 polaris_disk:file map;
')

# debug.conf
Read debug.conf from persistent storage.

## <summary>
Domain allowed access.

## </summary>

```
interface('polaris_read_debug_conf',
            gen_require(
                type polaris_debug_conf_t;
                type polaris_disk_bootflash_t;
                type polaris_disk_harddisk_t;
                type tmp_t;
            )
        read_files_pattern($1, polaris_disk_bootflash_t, polaris_debug_conf_t)
        read_files_pattern($1, polaris_disk_harddisk_t, polaris_debug_conf_t)
        read_files_pattern($1, tmp_t, polaris_debug_conf_t)
        read_lnk_files_pattern($1, tmp_t, polaris_debug_conf_t)
        polaris_disk_bootflash_read_lnk($1)
    )
```

Read packages.conf from persistent storage.

## <summary>
Domain allowed access.

## </summary>

```
interface('polaris_read_packages_conf',
            gen_require(
                type polaris_packages_conf_t;
                type polaris_disk_bootflash_t;
                type polaris_disk_harddisk_t;
            )
        read_files_pattern($1, polaris_disk_bootflash_t, polaris_packages_conf_t)
        read_files_pattern($1, polaris_disk_harddisk_t, polaris_packages_conf_t)
```
### <summary>
Manage packages.conf in persistent storage.
</summary>

```c
#include

int polaris_manage_packages_conf(
    const char* $1,
    polaris_disk_bootflash_t, polaris_packages_conf_t)
{
    // Implementation
}
```

### <summary>
Write/read any regular file/directory from /varied
</summary>

```c
#include

int polaris_disk_varied_manage(
    const char* $1,
    polaris_disk_varied_t, polaris_disk_varied_t)
{
    // Implementation
}
```

### <summary>
read any regular file/directory from /varied
</summary>

```c
#include

int polaris_disk_varied_read(
    const char* $1,
    polaris_disk_varied_t, polaris_disk_varied_t)
{
    // Implementation
}
```
interface('polaris_disk_varied_read',
    gen_require(
        type polaris_disk_varied_t;
    )
    read_files_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
')

interface('polaris_disk_varied_search',
    gen_require(
        type polaris_disk_varied_t;
    )
    search_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
')

interface('polaris_disk_varied_list',
    gen_require(
        type polaris_disk_varied_t;
    )
    list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
')
### persistent storage.
### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
#
interface('polaris_core_file_manage',`
gen_require(`
type polaris_core_file_t;
`)
allow $1 polaris_core_file_t:dir rmdir;
manage_files_pattern($1, polaris_core_file_t, polaris_core_file_t)

allow $1 polaris_core_file_t:dir watch;
``)

``
``
## <summary>
## Search polaris_core_file_t dir
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
#
interface('polaris_core_file_search',`
gen_require(`
type polaris_core_file_t;
`)
search_dirs_pattern($1, polaris_core_file_t, polaris_core_file_t)
``)

``
``
## <summary>
## Read/Open/Search polaris_core_file_t dir
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
#
interface('polaris_core_file_read',`
gen_require(`
type polaris_core_file_t;
allow $1 polaris_core_file_t:dir read;
getattr_files_pattern($1, polaris_core_file_t, polaris_core_file_t)

####################################################################
## <summary>
## Get attrib of bootflash fifo file.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_disk_bootflash_fifo_file_getattr',`
    gen_require(`
        type polaris_disk_bootflash_t;
    `)
    getattr_fifo_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
)

####################################################################
## Get attrib of bootflash sock file.
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_disk_bootflash_sock_file_getattr',`
    gen_require(`
        type polaris_disk_bootflash_t;
    `)
    getattr_sock_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
)

####################################################################
## Read links of polaris_disk_bootflash_t
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>


interface('polaris_disk_bootflash_read_lnk',
    gen_require(
        type polaris_disk_bootflash_t;
    ')
    read_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
')

interface('polaris_disk_bootflash_search',
    gen_require(
        type polaris_disk_bootflash_t;
    ')
    search_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
')

interface('polaris_disk_csl_manage',
    gen_require(
        type polaris_disk_csl_p_t;
        type polaris_disk_csl_s_t;
    ')
    manage_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
    manage_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
    read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
    read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
### <summary>
### Write/read any regular file/directory under /csl_p_0, /csl_p_1, /csl_s_0, and /csl_s_1
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

```c
interface('polaris_disk_csl_read',
    gen_require(
        type polaris_disk_csl_p_t;
        type polaris_disk_csl_s_t;
    )
    read_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
    read_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
    read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
    read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
)
```

### <summary>
### Write/read any regular file/directory under /objstore,
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

```c
interface('polaris_disk_objstore_manage',
    gen_require(
        type polaris_disk_objstore_t;
    )
    manage_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
    read_lnk_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
)
```

```c
interface('polaris_disk_objstore_read',
    gen_require(
        type polaris_disk_objstore_t;
    )
    read_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
    list_dirs_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
)
```plaintext

### <summary>
### Read links of polaris_disk_harddisk_t
### </summary>
### <param name="domain">
###      Domain allowed access.
### </param>
#
interface(`polaris_disk_harddisk_read_lnk',
    gen_require(
        type polaris_disk_harddisk_t;
    )
    read_lnk_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
)

### <summary>
### Read harddisk files
### </summary>
### <param name="domain">
###      Domain allowed access.
### </param>
#
interface(`polaris_harddisk_read',
    gen_require(
        type polaris_disk_harddisk_t;
    )
    read_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
    list_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
)

### <summary>
### Read bootflash files
### </summary>
### <param name="domain">
###      Domain allowed access.
### </param>
#
```

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6447
interface('polaris_bootflash_read',
    gen_require(
        type polaris_disk_bootflash_t;
    )
    read_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    read_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    list_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
)

#######################################
## <summary>
##      Manage bootflash files
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
# interface('polaris_bootflash_manage',
#    gen_require(
#        type polaris_disk_bootflash_t;
#    )
#    manage_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
#    manage_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
#    manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
#)

###################################################################
##<summary>
##Create an object in the polaris_disk_bootflash_t directories,
## with a private type using a type transition.
##</summary>
##<param name="domain">
##Domain allowed access.
##</param>
##<param name="private type">
##The type of the object to be created.
##</param>
##<param name="object">
##The object class of the object being created.
##</summary>
## <param name="name" optional="true">
##	<summary>
##	The name of the object being created.
##	</summary>
## </param>
#
interface('polaris_bootflash_filetrans',
    gen_require(
        type polaris_disk_bootflash_t;
    ')
    filetrans_pattern($1, polaris_disk_bootflash_t, $2, $3, $4)
')

###################################################
## <summary>
##	Manage bootflash files
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface('polaris_harddisk_manage',
    gen_require(
        type polaris_disk_harddisk_t;
    ')
    manage_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
    manage_link_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
    manage_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
')

###################################################
## <summary>
##	Create an object in the polaris_disk_harddisk_t directories,
## with a private type using a type transition.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <param name="private type">
##	<summary>
##	The type of the object to be created.
##	</summary>
### <param>
### <param name="object">
##<summary>
##The object class of the object being created.
##</summary>
## </param>
### <param name="name" optional="true">
##<summary>
##The name of the object being created.
##</summary>
## </param>
#
interface('polaris_harddisk_filetrans',
    gen_require(
        type polaris_disk_harddisk_t;
    ')

filetrans_pattern($1, polaris_disk_harddisk_t, $2, $3, $4)
')

#######################################
##<summary>
##Getattr of polaris_disk_crashinfo_t (typically /crashinfo symbolic link and real disk it points to)
##</summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_crashinfo_getattr',
    gen_require(
        type polaris_disk_crashinfo_t;
    ')
    read_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
    getattr_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
    getattr_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
    getattr_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
')

#######################################
##<summary>
##Manage polaris_disk_crashinfo_t (typically /crashinfo symbolic link and real disk it points to)
##</summary>
## <param name="domain">

interface('polaris_disk_crashinfo_manage',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
    manage_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
    manage_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
    manage_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
    )

interface('polaris_disk_crashinfo_read_lnk',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
    read_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
    )

interface('polaris_disk_license_manage',
    gen_require(
        type polaris_disk_license_t;
    )
    manage_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
    manage_lnk_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
    allow $1 polaris_disk_license_t:file map;
`)### <summary>
### Read polaris_disk_license_t files/directories
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <summary>
### Get the attributes of a removable filesystem.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <summary>
### Create, read, write, and delete all removable files.
### </summary>
```c
## </param>
#
interface('polaris_removable_manage',
  gen_require(
    type removable_t;
  ')

manage_files_pattern($1, removable_t, removable_t)
manage_dirs_pattern($1, removable_t, removable_t)
')

########################################
## <summary>
##      read all removable files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_removable_read',
  gen_require(
    type removable_t;
  ')

read_files_pattern($1, removable_t, removable_t)
list_dirs_pattern($1, removable_t, removable_t)
read_lnk_files_pattern($1, removable_t, removable_t)
')

########################################
## <summary>
##      Get the attributes of silent roll partition
##      filesystem.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_getattr_filesystem_disk_ucode',
  gen_require(
    type polaris_disk_ucode_t;
  ')

allow $1 polaris_disk_ucode_t:filesystem getattr;
')
```
### <summary>
### Get the attributes of an bootflash filesystem.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_getattr_bootflash',
gen_require(''
type polaris_disk_bootflash_t;
')
allow $1 polaris_disk_bootflash_t:filesystem getattr;
')

### <summary>
### Get the attributes of an harddisk filesystem.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_getattr_harddisk',
gen_require(''
type polaris_disk_harddisk_t;
')
allow $1 polaris_disk_harddisk_t:filesystem getattr;
')

### <summary>
### Get the attributes of an harddisk file.
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### <param>

# interface(`polaris_getattr_file_harddisk',`
    gen_require(`
        type polaris_disk_harddisk_t;
    `)
    getattr_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
`)

#########################################################################
### <summary>
### Watch persistent file or directories
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <rolebase/>
#
# interface(`polaris_persistent_watch',`
    gen_require(`
        attribute polaris_disk;
    `)
    allow $1 polaris_disk: {dir file } watch;
`)

#########################################################################
### <summary>
### Create an object in the polaris_disk_crashinfo_t directories,
### with a private type using a type transition.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <param name="private type">
### <summary>
### The type of the object to be created.
### </summary>
### </param>
### <param name="object">
### <summary>
### The object class of the object being created.
### </summary>
### </param>
### <param name="name" optional="true"
### <summary>
The name of the object being created.
### </summary>
### </param>
#
interface(`polaris_crashinfo_filetrans',`
  gen_require(`
    type polaris_disk_crashinfo_t;
  `)
  filetrans_pattern($1, polaris_disk_crashinfo_t, $2, $3, $4)
')

########################################################################
### <summary>
### Get the attributes of an polaris_disk_config_t file or directory.
### </summary>
### </param>
#
interface(`polaris_getattr_disk_config',`
  gen_require(`
    type polaris_disk_config_t;
  `)
  getattr_files_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
  getattr_dirs_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
')

########################################################################
### <summary>
### Create an object in the polaris_disk_config_t directories,
### with a private type using a type transition.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <param name="private type">
### <summary>
### The type of the object to be created.
### </summary>
### </param>
### <param name="object">
## <summary>
The object class of the object being created.
</summary>

## </param>

## <param name="name" optional="true">
## <summary>
The name of the object being created.
</summary>

## </param>

# interface(`polaris_disk_config_filetrans`,
gen_require(`
type polaris_disk_config_t;
')

filetrans_pattern($1, polaris_disk_config_t, $2, $3, $4)
')

# interface(`polaris_bootflash_files_mmap`,
gen_require(`
type polaris_disk_bootflash_t;
')
mmap_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisstorage.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define(`polaris_database_aux`,dnl
########################################################################
## <summary>
/usr/binos/conf/mcp_upgrade_hwprg_fpga.sh  gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_cpld.sh  gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_cmds.sh  gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_utils.sh  gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/bin/tam_fw_upgrade                  gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon.sh         gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon_cmds.sh    gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon_helper.sh  gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon_x86.sh     gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/dev/scansta                                  -c gen_context(system_u:object_r:polaris_scansta_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristws.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#
/tmp/iosd_level -- gen_context(system_u:object_r:polaris_lm_tmp_t,s0)
/tmp/stack_apcount -- gen_context(system_u:object_r:polaris_lm_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislm.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisngwcplfmngr, 1.0);

  gen_require(
    type polaris_ngwc_plfm_mgr_t;
  )

polaris_btrace_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_crft_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_chasfs_manage(polaris_ngwc_plfm_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_plfm_mgr_t)
polaris_tdlldb_list_dirs(polaris_ngwc_plfm_mgr_t)
polaris_cpld_read(polaris_ngwc_plfm_mgr_t)
polaris_lua_read(polaris_ngwc_plfm_mgr_t)
polaris_flashlib_read(polaris_ngwc_plfm_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_plfm_mgr_t)
corecmd_exec_bin(polaris_ngwc_plfm_mgr_t)
corecmd_exec_shell(polaris_ngwc_plfm_mgr_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_plfm_mgr_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_plfm_mgr_t)

allow polaris_ngwc_plfm_mgr_t self:capability { sys_rawio ipc_owner dac_override };
allow polaris_ngwc_plfm_mgr_t self:capability2 block_suspend;

polaris_obfl_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_dyncfg_tmp_read(polaris_ngwc_plfm_mgr_t)
polaris_ngwc_shm_manage(polaris_ngwc_plfm_mgr_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_ngwc_plfm_mgr_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_ngwc_plfm_mgr_t)

# open /dev/ttyS0 console in edison_platform_init
term_use_unallocated_ttys(polaris_ngwc_plfm_mgr_t)

polaris_disk_license_read(polaris_ngwc_plfm_mgr_t)

allow polaris_ngwc_plfm_mgr_t self:capability { chown fowner fsetid };

type polaris_ngwc_plfm_mgr_tmp_t;
files_tmp_file(polaris_ngwc_plfm_mgr_tmp_t)
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, dir, "mcu_upgrading")
manage_files_pattern(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t)
manage_dirs_pattern(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t)

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_ngwc_plfm_mgr_t)
# create /tmp/hw_entropy file and fill with info from act2
polaris_hw_entropy_create(polaris_ngwc_plfm_mgr_t)

polaris_boot_tmp_read(polaris_ngwc_plfm_mgr_t)

polaris_flashlib_write(polaris_ngwc_plfm_mgr_t)

# check existence of /tmp/tam_cfg_done
polaris_tam_getattrs_tmp_dirs(polaris_ngwc_plfm_mgr_t)

# LOOK AT ME: Allow access to bootflash /flash/tam_client_app.log. file access
# remove after CSCvh66533 fixed
polaris_bootflash_manage(polaris_ngwc_plfm_mgr_t)

# scans /sys/devices/pci0000:00/0000:00:00.0
dev_read_sysfs(polaris_ngwc_plfm_mgr_t)

# rsync nvram_config file across stack
# rsync_exec(polaris_ngwc_plfm_mgr_t)
gen_require(`
    type rsync_t;
    `)
rsync_entryDomtrans(polaris_ngwc_plfm_mgr_t, rsync.t)
allow rsync_t polaris_ngwc_plfm_mgr_t:process sigchld;

# write access to /dev/ttyS0
term_write_unallocated_tty(rsync.t)

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums
polaris_kgv_data_manage(polaris_ngwc_plfm_mgr_t)

# /dev/shm/sdm access
optional_policy(`
polaris_sdm_shm_manage(polaris_ngwc_plfm_mgr_t)
`)

# platform manager moves 00001.nvram_config file to /bootflash/nvram_config
polaris_nvram_manage(polaris_ngwc_plfm_mgr_t)
allow polaris_ngwc_plfm_mgr_t self:process setfscreate;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwcplfmmgr.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl define('polaris_database_aux',"dnl
/tmp/rp/tdldb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
/tmp/fp/tdldb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
/tmp/cc/tdldb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
/tmp/rp/tdldb/[0-9]/$2.lock -- gen_context(system_u:object_r:$1,s0)
/tmp/fp/tdldb/[0-9]/$2.lock -- gen_context(system_u:object_r:$1,s0)
/tmp/cc/tdldb/[0-9]/$2.lock -- gen_context(system_u:object_r:$1,s0)
')

define('polaris_database',"dnl
polaris_database_aux(database_label($1), $1)
')

define('polaris_database_process',"")

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_database_db_fc.m4
No license file was found, but licenses were detected in source scan.

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## <summary>Polaris nginx Policy Rules.</summary>

##################################################
## <summary>
##      Allow domain to be started by nginx with 
##      transition into specific service domain.
## </summary>
## <param name="domain">
##      <summary>
##      Type to be used to run utility.
##      </summary>
## </param>
## <param name="entry_point">
##      <summary>
##      Type of the program to be used as an entry point to this domain.
##      </summary>
## </param>
interface('polaris_nginx_exec_domain',
gen_require(
  type polaris_nginx_t;
domtrans_pattern(polaris_trace_filter_exec_t, $2, $1)
')

#######################################
## <summary>
##      Execute mcp_trace_filter script in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_trace_filter_domtrans',`
   gen_require(`
   type polaris_trace_filter_t, polaris_trace_filter_exec_t;
   ')
   domtrans_pattern($1, polaris_trace_filter_exec_t, polaris_trace_filter_t)
')

#######################################
## <summary>
##      Execute file transfer client in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_file_transfer_client_domtrans',`
   gen_require(`
   type polaris_file_transfer_client_t, polaris_file_transfer_client_exec_t;
   ')
   domtrans_pattern($1, polaris_file_transfer_client_exec_t, polaris_file_transfer_client_t)
')

#######################################
## <summary>
##      Allow others to perform pipe operations on nginx files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to perform the operation
##      </summary>
## </param>
#
```c
interface('polaris_nginx_manage_fifo_files',
    gen_require(
        type polaris_nginx_t;
        type $1;
    )
)

manage_fifo_files_pattern($1, polaris_nginx_t, polaris_nginx_t)

interface('polaris_nginx_tmp_manage',
    gen_require(
        type polaris_nginx_tmp_t;
    )
)

manage_files_pattern($1, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
files_tmp_filetrans($1, polaris_nginx_tmp_t, file, "ca.cert")

interface('polaris_fts_client_tmp_manage',
    gen_require(
        type polaris_fts_client_tmp_t;
    )
)

manage_files_pattern($1, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
manage_dirs_pattern($1, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
```

---

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#
# March 2017, Victor Kamensky
#
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#
/tmp/replication(/.*)? gen_context(system_u:object_r:polaris_repm_tmp_t,s0)

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#
# February 2020, Victor Kamensky
#
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#
policy_module(polarisftm, 1.0);

gen_require('  type polaris_ftm_t;
')
polaris_chasfs_manage(polaris_ftm_t)
polaris_cpld_read(polaris_ftm_t)
polaris_flashlib_read(polaris_ftm_t)
polaris_tdlresolve_read(polaris_ftm_t)
polaris_ripc_sman_ui_serv_connect(polaris_ftm_t)
polaris_db_tdlldb_dir_use(polaris_ftm_t)
logging_send_syslog_msg(polaris_ftm_t)
corecmd_exec_bin(polaris_ftm_t)
corecmd_exec_shell(polaris_ftm_t)
auth_use_nsswitch(polaris_ftm_t)

# vconfd_load_shared_schemas
polaris_confdd_shared_schema_read(polaris_ftm_t)
# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_ftm_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_ftm_t)

cpolis_cedge_reset_ns(polaris_ftm_t)

# /var/run/ftmd-xxx sockets and pid
type polaris_ftm_var_run_t;
files_pid_file(polaris_ftm_var_run_t)
manage_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
manage_sock_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
files_pid_filetrans(polaris_ftm_t, polaris_ftm_var_run_t, { file sock_file })

cpolis_cfgmgr_var_sock_write(polaris_ftm_t)
cpolis_dbgd_var_sock_write(polaris_ftm_t)
cpolis_fpm_var_sock_write(polaris_ftm_t)
cpolis_ttm_var_sock_write(polaris_ftm_t)
cpolis_vdaemon_var_sock_write(polaris_ftm_t)

# PLEASE LOOK AT ME: write access to /boot/hugepage.conf
# which on ultra translates into /varied/hugepage.conf access
# But no code in polaris uses it
cpolis_disk_varied_manage(polaris_ftm_t)
files_manage_boot_files(polaris_ftm_t)

# fp_scaling_init calls posix_sysconf
dev_read_sysfs(polaris_ftm_t)

# vip_execute_nowait uses setpgid
allow polaris_ftm_t self:process setpgid;

cpolis_cedge_tmpfs Manage(polaris_ftm_t)

# raw socket access from trace_tunnel_socket_icmp_init ftm_binos_trace.c
allow polaris_ftm_t self:rawip_socket create_socket_perms;
allow polaris_ftm_t self:capability net_raw;

# bind to ftm fnf port
corenet_udp_bind_polaris_ftm_fnf_port(polaris_ftm_t)
corenet_udp_bind_generic_node(polaris_ftm_t)

# ftm may create vrf-based netns on demand, vrf.65528
cpolis_vrf_netns_manage(polaris_ftm_t)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(

polaris_htxiox_tmp_manage(polaris_ftm_t)
')

# fp_scaling_read_core_count accesses cgroups file at
# /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_ftm_t)

# ftm_change_default_gw_src_ip calls ip utility
sysnet_domtrans_ifconfig(polaris_ftm_t)

# ftm process peridically call nice utility to gzip some xml file
allow polaris_ftm_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisftm.te
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# # February 2020, Victor Kamensky
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#

policy_module(polarisinstallmgr, 1.0);

gen_require(' type polaris_install_mgr_t;
')
polaris_chasfs_manage(polaris_install_mgr_t)
polaris_tdlresolve_read(polaris_install_mgr_t)
polaris_cpld_read(polaris_install_mgr_t)
polaris_flashlib_read(polaris_install_mgr_t)
polaris_lua_read(polaris_install_mgr_t)

logging_send_syslog_msg(polaris_install_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_install_mgr_t)
polaris_db_tdlldb_dir_use(polaris_install_mgr_t)

# read all files in persistent storage
polaris_persistent_read(polaris_install_mgr_t)

# calls code_verify
polaris_code_verify_domtrans(polaris_install_mgr_t)
# calls mount command
mount_domtrans(polaris_install_mgr_t)
# allow access to gnmib image files
optional_policy(`
polaris_gnmib_gnoi_images_read(polaris_install_mgr_t)
')

# LOOK AT ME: /dev/mem access restriction will be removed after
# CSCvu32649 is fixed using CSCvu32742.
# code_sign_verify accesses /dev/mem: class=chr_file, {read, open, map}
# to read the codesign key in storage
# side effects: execute is also allowed
gen_require(`
    type polaris_code_verify_t;
    type polaris_nvram_file_t;
')
dev_rx_raw_memory(polaris_code_verify_t)

# read access to /bootflash/nvram_config on CLI "install remove inactivate"
read_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)
getattr_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)

# open, read, map and getattr access of capsule-upgrade.log file
polaris_capsule_upgrade_log_use(polaris_code_verify_t)

# calls install_mgr_helper_api.sh
corecmd_exec_bin(polaris_install_mgr_t)
corecmd_exec_shell(polaris_install_mgr_t)
auth_use_nsswitch(polaris_install_mgr_t)

# /tmp/sw/inst_tmp_x handling
type polaris_install_mgr_tmp_t;
files_tmp_file(polaris_install_mgr_tmp_t)
gen_require(`
    type tmp_t;
')
manage_dirs_pattern(polaris_install_mgr_t, tmp_t, polaris_install_mgr_tmp_t)
manage_dirs_pattern(polaris_install_mgr_t, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_1")
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_2")

# writes into /bootflash/installer/watchlist
polaris_disk_install_manage(polaris_install_mgr_t)

# install_mgr_monitor.c:add_prior_watches
polaris_persistent_watch(polaris_install_mgr_t)

# watch over /tmp/patch
polaris_patch_data_watch(polaris_install_mgr_t)
polaris_repm_peer_mqipc_manage(polaris_install_mgr_t)

# watches over /tmp for /tmp/booted appearence in
# init_operation_mgmt_watches function
gen_require(
    type tmp_t;
)
allow polaris_install_mgr_t tmp_t:dir watch;

allow polaris_install_mgr_t self:capability sys_resource;

#install_mgr writes into /bootflash/installer/watchlist and watches /bootflash/inot_fifo
polaris_install_disk_manage(polaris_install_mgr_t)

#install_mgr does search and get attribute operation on /tftp directory
gen_require(
    type tftpdir_rw_t;
)
allow polaris_install_mgr_t tftpdir_rw_t:dir { getattr search };

# allow read access to iso9600
fs_read_iso9660_files(polaris_install_mgr_t)

# accesses /proc/sys/vm/drop_caches
kernel_rw_vm_sysctls(polaris_install_mgr_t)

# creates files under /tmp/pkg_cs_debug through install_helper
# and verify_pkg shell function from common
polaris_pkg_cs_debug_manage(polaris_install_mgr_t)

# for pluggable FS, allow the install manager to access files on them (it needs read and
# write access).
gen_require(
    type removable_t;
)
allow polaris_install_mgr_t removable_t:dir { getattr open read search watch };
allow polaris_install_mgr_t removable_t:file { getattr open read };
allow polaris_install_mgr_t removable_t:lnk_file read;

#allow install_mgr to stat caf files in /vol/harddisk/caf, /bootflash/caf, etc.
polaris_caf_tmp_files_read(polaris_install_mgr_t)

# install manager Cleanup related to inotify watches, Basically frees malloced memory
gen_require(
    type root_t;
)
allow polaris_install_mgr_t root_t:dir watch;
# install manager access to /guestshell
polaris_guestshell_files_read(polaris_install_mgr_t)

# install manager access to /lib/systemd/systemd
polaris_init_access_check(polaris_install_mgr_t)

# install manager reads dcmlog.txt
optional_policy('gen_require('
    type polaris_fed_debug_dcmlog_t;
')
    read_files_pattern(polaris_install_mgr_t, polaris_fed_debug_dcmlog_t, polaris_fed_debug_dcmlog_t)
')

# install manager reads /firmware
polaris_firmware_read(polaris_install_mgr_t)

# install manager access to /guestshell
gen_require(''
    type polaris_guestshell_t;
')
getattr_dirs_pattern(polaris_install_mgr_t, polaris_guestshell_t, polaris_guestshell_t)

# install_manager reads /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_read(polaris_install_mgr_t)

# install_manager writes /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_write(polaris_install_mgr_t)

# install_manager reads /tmp/sw/boot/rmonbifo during auto_upgrade
polaris_rmonbifo_tmp_read(polaris_install_mgr_t)

# install_manager reads /tmp/tmppub during auto_upgrade
polaris_btrace_tmppub_read(polaris_install_mgr_t)

# install manager accesses /tmp/rsync_log_dir during auto_upgrade
polaris_manage_rsync_tmplog_dir(polaris_install_mgr_t)

# install manager invokes mcp_chvrfs.sh for rsync operations during auto_upgrade
polaris_chvrfs_domtrans(polaris_install_mgr_t)

polaris_bexecute_domtrans(polaris_install_mgr_t)

ifdef('ngwc_family',''
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')

ifdef(`mcp_family',`
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/install
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')

ifdef(`wlc_family',`
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/install
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')

# with "/bootflash"...this needs read and attr to access for logfile
polaris_read_user_file(polaris_install_mgr_t)
polaris_user_file_getattr(polaris_install_mgr_t)

# auto upgrade server bind operation when install manager initialize auto upgrade server
corenet_tcp_bind_polaris_autoupgrade_port(polaris_install_mgr_t)

# access to /tmp/etc
polaris_etc_list(polaris_install_mgr_t)

# read access to /tmp/etc/install
polaris_install_tmp_read(polaris_install_mgr_t)
polaris_script_errmsg_use(polaris_install_mgr_t)

# install mgr calls install_abort.sh on rollback timer expiry
polaris_install_engine_domtrans(polaris_install_mgr_t)

# /tmp/ufs/crashinfo access
optional_policy(`
polaris_ncd_tmp_read(polaris_install_mgr_t)
')

# read/write to /bootflash/.rollback_timer/install_abort_time
polaris_rbtimer_bootflash_manage(polaris_install_mgr_t)

allow polaris_install_mgr_t self:process setpgid;

optional_policy(`
polaris_efi_files_list_dirs(polaris_install_mgr_t)
')

# walk all files on "install issu activate" and "install remove inactivate" CLI
files_read_all_files(polaris_install_mgr_t)

# install mgr file descriptor leaks into mcp_chvrf.sh for rsync operation
gen_require(
    type polaris_chvrf_t;
')
allow polaris_chvrf_t polaris_install_mgr_t:file read;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisinstallmgr.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polariscfg, 1.0);

########################################################################
# Cfg files policy
########################################################################

type polaris_cfg_data_t;
files_type(polaris_cfg_data_t)

gen_require(
    attribute polaris_extended_domain;
')
files_tmp_filetrans(polaris_extended_domain, polaris_cfg_data_t, dir, "cfg")

########################################################################
# cfg_sync.sh policy
########################################################################

polaris_utility_domain_template(cfg_sync)

polaris_bexecute_domain(polaris_cfg_sync_t, polaris_cfg_sync_exec_t)
polaris_boot_tmp_read(polaris_cfg_sync_t)
polaris_btrace_data_manage(polaris_cfg_sync_t)
polaris_chasfs_read(polaris_cfg_sync_t)
polaris_cpld_read(polaris_cfg_sync_t)
polaris_use_btrace_fifo(polaris_cfg_sync_t)

corecmd_exec_bin(polaris_cfg_sync_t)
auth_use_nsswitch(polaris_cfg_sync_t)

polaris_bootflash_read(polaris_cfg_sync_t)
polaris_nvram_manage(polaris_cfg_sync_t)
telnet_use_ptys(polaris_cfg_sync_t)

gen_require(
    type rsync_t;
)
rsync_entry_domtrans(polaris_cfg_sync_t, rsync_t)
allow rsync_t polaris_cfg_sync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t polaris_cfg_sync_t:fifo_file { write getattr };

logging_send_syslog_msg(polaris_cfg_sync_t)

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscfg.te
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#

### <summary>Polaris NVRAM Policy Rules.</summary>

########################################################################################################
# Polaris lsmpi
########################################################################################################

########################################################################
## Work (read, write, ioctl) with /dev/lsmpi device.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_lsmpi_dev_use',
gen_require(
    type device_t;
type polaris_lsmpi_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_lsmpi_device_t)
    read_chr_files_pattern($1, device_t, polaris_lsmpi_device_t)
    allow $1 polaris_lsmpi_device_t:chr_file map;
')

####################################################
## <summary>
##      Read lsmpi sysctl file, ie one under /proc/sys/lsmpi and
##      /proc/sys/lsmpi_lodrv directories.
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
## <rolebase/>
#
interface('polaris_lsmpi_sysctl_read',
gen_require(
    type polaris_sysctl_lsmpi_t;
')
    read_files_pattern($1, polaris_sysctl_lsmpi_t, polaris_sysctl_lsmpi_t)
')

####################################################
## <summary>
##      Read from /sys/devices/virtual/contdev sysfs files.
##      /sys files.
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface('polaris_contdev_dev_read',
gen_require(
    type polaris_sysfs_contdev_t;
    type sysfs_t;
')
    read_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
    list_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)

---------------------------------------------
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6474
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
)

##############################################################################
## <summary>
##      Write into /sys/devices/virtual/contdev sysfs files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_contdev_dev_write',
  gen_require(''
    type polaris_sysfs_contdev_t;
    type sysfs_t;
  ')
  write_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
  # genfscon statement specifically excludes symbolic links from
  # genfscon path specific entries. To workaround, let us allow
  # to follow sysfs_t symbolic links
  allow $1 sysfs_t:lnk_file read;
)

##############################################################################
## <summary>
##      Manage /sys/devices/virtual/contdev sysfs files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_manage_contdev_dev',
  gen_require(''
    type polaris_sysfs_contdev_t;
    type sysfs_t;
  ')
  manage_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
  manage_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
  # genfscon statement specifically excludes symbolic links from
  # genfscon path specific entries. To workaround, let us allow
  # to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
')
###################################
## <summary>
## Allow the specified domain to manage punt/inject socket
## files. I.e /tmp/pi/dp_2_iosd_pi and /tmp/pi/iosd_2_dp_pi
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_pi_uds_manage',`
  gen_require(`
    type polaris_pi_uds_t;
  ')

  manage_sock_files_pattern($1, polaris_pi_uds_t, polaris_pi_uds_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislsmpi.if
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#
# August 2017, Shawn Lu
#
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#
## <summary>Polaris odm_proxy Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisodmproxy.if
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dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
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dnl
dnl WLC Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)
dnl in elastic scope each process has its own value
max_elastic_map_set('rp', 'elastic', BPROC_ODM, 1)
max_elastic_map_set('cc', 'elastic', BPROC_ODM, 1)
max_elastic_map_set('fp', 'elastic', BPROC_ODM, 1)
max_elastic_map_set('rp', 'elastic', BPROC_WNCD, 7)
max_elastic_map_set('cc', 'elastic', BPROC_WNCD, 7)
max_elastic_map_set('fp', 'elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('rp', 'elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set('cc', 'elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set('fp', 'elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set('rp', 'elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('cc', 'elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('fp', 'elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/vwlcmaps.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/binos/conf/rollback_timer.sh -- gen_context(system_u:object_r:polaris_rbtimer_exec_t,s0)
/bootflash/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/tmp/rp/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrollbacktimer.fc
No license file was found, but licenses were detected in source scan.

#
# January 2021, Gabriel Lee, Shawn Liu
#
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#
policy_module(polarisezmanage, 1.0);

type polaris_ezmanage_file_t;
files_type(polaris_ezmanage_file_t)
polaris_pfile_type(polaris_ezmanage_file_t)

polaris_process_domain_template(ezmanage)

# Allow ezManage script to be executed by systemd
gen_require(
    type unconfined_service_t;
')

polaris_ezmanage_domtrans(unconfined_service_t)

# Allow ezManage file and directory access
polaris_manage_ezmanage_files(polaris_ezmanage_t)

# Allow ezManage socket access
allow polaris_ezmanage_t self:unix_dgram_socket { connected_socket_perms sendto };

# Allow read of /etc/passwd
auth_use_nsswitch(polaris_ezmanage_t)

# ezManage python script needs access to USB ttys for modem AT channel
term_use_usb_ttys(polaris_ezmanage_t)

# ezManage python script needs /usr/bin/python3 execution and may also call other generic system bin utilities
corecmd_exec_bin(polaris_ezmanage_t)

# ezManage needs to access /bootflash/ciscosdwan.cfg and a variably named tar file in /bootflash/modem_firmware
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "ciscosdwan.cfg")
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "modem_firmware.tar.gz")

# ezManage socket file is created in /var/run
type polaris_ezmanage_var_run_t;
files_pid_file(polaris_ezmanage_var_run_t)
files_pid_filetrans(polaris_ezmanage_t, polaris_ezmanage_var_run_t, sock_file, "cwan_ezmanage_py_server")

# Allow ezManage to access its socket file in /var/run
polaris_manage_ezmanage_var_run_files(polaris_ezmanage_t)

# Allow ezManage to access ngiolite socket file in /var/run
gen_require(
    type polaris_cwan_svr_var_run_t;
')

rw_sock_files_pattern(polaris_ezmanage_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)

# Allow ezManage to access ngiolite dgram_socket
gen_require(
    type polaris_ngiolite_t;
')
allow polaris_ezmanager_t polaris_ngiolite_t:unix_dgram_socket sendto;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisezmanage.te
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#
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#
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#

### <summary>Polaris Rmonbifo Policy Rules.</summary>

```c
# Polaris Rmonbifo Driver policy

```
gen_require(
  type polaris_proc_rmonbifo_t;
)
  setattr_files_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
)

####################################
## <summary>
##      Read /tmp/sw/boot/rmbonbifo files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_rmonbifo_tmp_read',
  gen_require(
    type polaris_rmonbifo_tmp_t;
    type polaris_boot_tmp_t;
    
    read_files_pattern($1, polaris_rmonbifo_tmp_t, polaris_rmonbifo_tmp_t)
    # /tmp/sw/boot/rmonbifo dir is inside of polaris_boot_tmp_t dir
    search_dirs_pattern($1, polaris_boot_tmp_t, polaris_rmonbifo_tmp_t)
  )

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisrmonbifo.if
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl define('max_bay_map', `defn(format(``max_bay_map[%s-%s]", `$1`, `$2`))
define('max_bay_map_set', `define(format(``max_bay_map[%s-%s]", `$1`, `$2`, `$3`))

define('max_elastic_map', `defn(format(``max_elastic_map[%s-%s-%s]", `$1`, `$2`, `$3`))
define('max_elastic_map_set', `define(format(``max_elastic_map[%s-%s-%s]", `$1`, `$2`, `$3`, `$4`))
define('max_scope_map', `ifelse($2, `elastic`, `max_elastic_map($1, $2, $3)`, `max_bay_map($1, $2)`))

dnl RICP scope handling
define('min_bay_ripc_map', `defn(format(``min_bay_ripc_map[%s-%s]", `$1`, `$2`))
define('min_bay_ripc_map_set', `define(format(``min_bay_ripc_map[%s-%s]", `$1`, `$2`, `$3`))
define('min_elastic_ripc_map', 'defn(format(`min_elastic_ripc_map [%s-%s-%s]`, `$1`, `$2`, `$3`))
define('min_elastic_ripc_map_set', 'define(format(`min_elastic_ripc_map [%s-%s-%s]`, `$1`, `$2`, `$3`, `$4`))

define('min_scope_ripc_map_aux', 'ifelse($2, `elastic`, `min_elastic_ripc_map($1, $2, $3)`, `min_bay_ripc_map($1, $2, $3)`)
define('min_scope_ripc_map', 'ifelse(min_scope_ripc_map_aux($1, $2, $3), ``, 0, min_scope_ripc_map_aux($1, $2, $3))

define('max_bay_ripc_map', 'defn(format(`max_bay_ripc_map [%s-%s]`, `$1`, `$2`))
define('max_bay_ripc_map_set', 'define(format(`max_bay_ripc_map [%s-%s]`, `$1`, `$2`, `$3`))
define('max_elastic_ripc_map', 'defn(format(`max_elastic_ripc_map [%s-%s-%s]`, `$1`, `$2`, `$3`))
define('max_elastic_ripc_map_set', 'define(format(`max_elastic_ripc_map [%s-%s-%s]`, `$1`, `$2`, `$3`, `$4`))
define('max_scope_ripc_map_aux', 'ifelse($2, `elastic`, `max_elastic_ripc_map($1, $2, $3)`, `max_bay_ripc_map($1, $2)`)')
define('max_scope_ripc_map', 'ifelse(max_scope_ripc_map_aux($1, $2, $3), ``, 0, max_scope_ripc_map_aux($1, $2, $3))

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_max_scope.m4
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#
# May 2017, Victor Kamensky
#
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#

/opt/confd/bin/confd -- gen_context(system_u:object_r:polaris_confd_exec_t,s0)
/opt/confd/lib/confd/lib/core/confd/priv/mmap_schema --
gen_context(system_u:object_r:polaris_mmap_schema_exec_t,s0)
/usr/binos/bin/vip-confd-startup.sh -- gen_context(system_u:object_r:polaris_confd_exec_t,s0)
/usr/bin/vconfd_script_cdb_backup.sh -- gen_context(system_u:object_r:polaris_confd_exec_t,s0)
/usr/binos/conf/execute_confd_cli.sh -- gen_context(system_u:object_r:polaris_confd_cli_exec_t,s0)
/usr/binos/conf/confd_logs.sh -- gen_context(system_u:object_r:polaris_confd_exec_t,s0)
/var/confd0(/.*)? gen_context(system_u:object_r:polaris_confd_var_t,s0)
/dev/shm/confd(/.*)? gen_context(system_u:object_r:polaris_confd_shm_t,s0)
/tmp/confd(/.*)? gen_context(system_u:object_r:polaris_confd_tmp_t,s0)
/tmp/confd_cli(/.*)? gen_context(system_u:object_r:polaris_confd_cli_tmp_t,s0)
/tmp/vconfd(/.*)? gen_context(system_u:object_r:polaris_vconfd_tmp_t,s0)
/usr/bin/vconfd_script_.*/admin_tech.*\.sh -- gen_context(system_u:object_r:polaris_admin_tech_exec_t,s0)
/var/tech(/.*)? gen_context(system_u:object_r:polaris_admin_tech_var_t,s0)

/bootflash/admintech gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
/bootflash/admintech_trace gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
No license file was found, but licenses were detected in source scan.

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#
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#

```c
#<summary>Polaris ngwc_tbl_mgr Policy Rules.</summary>
```

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#

```c
# polarisfmanrp file contexts place holder
```

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#
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#

```c
#<summary>Polaris ioxman Policy Rules.</summary>
```

```
# Manage ioxman temporary files and directories in /tmp.
# Like /tmp/ios_xml.dat.
```
interface('polaris_iox_manage_tmp_files',
    gen_require(
        type polaris_iox_tmp_t;
    ')

    manage_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
    files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_xml.dat")
    files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_override.conf")
    # /tmp/trace/resource.log can be created by ioxman/vman/caf
    # through sourcing in the family of the psm_* .sh scripts
    files_tmp_filetrans($1, polaris_iox_tmp_t, file, "resource.log")
')

interface('polaris_iox_read_tmp_files',
    gen_require(
        type polaris_iox_tmp_t;
    ')

    read_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
')
# interface('polaris_iox2iosd_tmp_manage',
  gen_require(
    type polaris_iox2iosd_tmp_t;
  )
)

manage_dirs_pattern($1, polaris_iox2iosd_tmp_t, polaris_iox2iosd_tmp_t)
manage_files_pattern($1, polaris_iox2iosd_tmp_t, polaris_iox2iosd_tmp_t)

####################################
## <summary>
##      Read ioxman executable file. Used by caf to read iosman
## version.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ioxman_exec_read',
  gen_require(
    type polaris_ioxman_exec_t;
    type bin_t;
  )
)

read_files_pattern($1, bin_t, polaris_ioxman_exec_t)

####################################
## <summary>
##      Allow the specified domain to get show_version information
## from ioxman executable
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ioxman_show_version',
  gen_require(
    type polaris_ioxman_exec_t;
  )
  polaris_show_version($1, polaris_ioxman_exec_t)
)
## <summary>
## Allow the specified domain to get show_version information
## from dockerd and other container_runtime_t executables
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_container_runtime_show_version',
  gen_require(
    type container_runtime_exec_t;
  )
  polaris_show_version($1, container_runtime_exec_t)
)

## <summary>
## Execute a domain transition to run cat9k_ssd_auth_cmds.sh
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
# interface('polaris_ssd_auth_domtrans',
  gen_require(
    type polaris_ssd_auth_t, polaris_ssd_auth_exec_t;
  )
  domtrans_pattern($1, polaris_ssd_auth_exec_t, polaris_ssd_auth_t)
)

## <summary>
## Read ssd files in /tmp/ssd_blk_device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_read_ssd_tmp_files',
  gen_require('
type polaris_ssd_auth_tmp_t;
)

read_files_pattern($1, polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisioxman.if
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl Crankshaft (Overlord, Utah and Fugazi) Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 3)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 3)

max_bay_ripc_map_set(`rp', `per_bay', 3)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 3)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/mcpmaps.m4
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#
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#
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#

policy_module(polariscppdriver, 1.0);

gen_require('  type polaris_cplp_driver_t;
')
polaris_btrace_data_manage(polaris_cplp_driver_t)
polaris_crft_data_manage(polaris_cplp_driver_t)
polaris_chasfs_manager(polaris_cplp_driver_t)
polaris_tdlresolve_read(polaris_cplp_driver_t)
polaris_tlldb_list_dirs(polaris_cplp_driver_t)
polaris_cpld_read(polaris_cplp_driver_t)
polaris_flashlib_read(polaris_cpp_driver_t)

cpy_FILE(polaris_cpp_driver_t)

polaris_cpp_process(polaris_cpp_driver_t)

cpy_dev_use(polaris_cpp_driver_t)

# Allow read variety of system information from sysfs
# type=AVC msg=audit(1479601620.503:19): avc: denied { open } for pid=22839 comm="cpp_driver"
# path="/sys/devices/system/node/node0/meminfo" dev="sysfs" ino=805
# context=system_u:system_r:polaris_cpp_driver_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# Allow read sysfs(polaris_cpp_driver_t)

optional_policy('n
# cpp_driver reads qfp executable to look at .stabs sections that
# contains qfp code fixups, then this fixup data is passed to kernel
# module to modify qfp code.

gen_require('n
type bin_t;
type polaris_qfp_exec_t;
')

read_files_pattern(polaris_cpp_driver_t, bin_t, polaris_qfp_exec_t)
')

polaris_icc_broken_relocations(polaris_cpp_driver_t)

# Work with /dev/i2c devices

polaris_i2c_use(polaris_cpp_driver_t)

polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_driver_t)

logging_send_syslog_msg(polaris_cpp_driver_t)

# Look at me: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef("crankshaft_family",'
polaris_dev_mem_use(polaris_cpp_driver_t)
')

# Allow access to /tmp/octeon-remote-lock-pci***
# This is required as part of cpp_driver access of octeon chip.
# As part of the init, call is made to octeon_remote_lock()
# Which requires access to the /tmp file.
ifdef("crankshaft_family",'
polaris_cm_fp_tmp_filetrans(polaris_cpp_driver_t)
polaris_cm_fp_tmp_manage(polaris_cpp_driver_t)
')
# LOOK AT ME on overlord cpp_driver needs access to /dev/cavium_e
# and /dev/pcie0 devices, on 1ng cpp_driver needs access to
# /dev/yoda0_tree2, etc
dev_rw_generic_chr_files(polaris_cpp_driver_t)

# /dev/cpp_il on qwlc
optional_policy(
    polaris_cpp_il_dev_use(polaris_cpp_driver_t)
)

ifdef('qwlc_platform',
    polaris_cpld_dev_use(polaris_cpp_driver_t)
)

ifdef('katar_platform',
    polaris_cpld_dev_use(polaris_cpp_driver_t)
)

ifdef('mcp_family',
    polaris_cpld_dev_use(polaris_cpp_driver_t)
)

optional_policy(
    polaris_cpp_htdp_dev_use(polaris_cpp_driver_t)
polaris_cbdma_dev_use(polaris_cpp_driver_t)
polaris_cpp_htdp_dev_use(polaris_cpp_driver_t)
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppdriver.te
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#
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#
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#

policy_module(polariscliagent, 1.0);

gen_require(''
    type polaris_cli_agent_t;
')
polaris_btrace_data_manage(polaris_cli_agent_t)
polaris_crft_data_manage(polaris_cli_agent_t)
polaris_chasfs_manage(polaris_cli_agent_t)
polaris_tdlresolve_read(polaris_cli_agent_t)
polaris_tdlldb_list_dirs(polaris_cli_agent_t)
polaris_cpld_read(polaris_cli_agent_t)
polaris_flashlib_read(polaris_cli_agent_t)

polaris_ripc_sman_ui_serv_connect(polaris_cli_agent_t)

polaris_db_tdlldb_dir_use(polaris_cli_agent_t)

polaris_libeiutil_build_config_directory(polaris_cli_agent_t)

# cli_agent /var/run pid file
type polaris_cli_agent_var_run_t;
files_pid_file(polaris_cli_agent_var_run_t)
manage_files_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
manage_dirs_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
files_pid_filetrans(polaris_cli_agent_t, polaris_cli_agent_var_run_t, { file dir })

polaris_cfg_data_manage(polaris_cli_agent_t)

# Provide sys_resource capability as well for sys_pipe calls
allow polaris_cli_agent_t self:capability { dac_override sys_resource };

logging_send_syslog_msg(polaris_cli_agent_t)

#DB persistence
polaris_tdlldbpersist_setup(polaris_cli_agent_t)
polaris_tmp_tdlldb_persist_setup(polaris_cli_agent_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscliagent.te
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dnl
define(`database_stem', `translit(patsubst($1, `_DB$', `'), `A-Z', `a-z'))
define(`database_label', `format(`polaris_%s_db_tdldb_t', database_stem($1))')
define(`database_use_map', `defn(format(``database_use_map[%s-%s]', `$1', `$2'))')
define(`database_use_map_set', `define(format(``database_use_map[%%s-%%s]', `$1', `$2'), `$3'))'

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_database_db.m4
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# 
# June 2017, Victor Kamensky 
# 
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# 

## <summary>Polaris caf Policy Rules.</summary>

### <summary>Read /bootflash/iox/ files or harddisk IOX files</summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
# 
interface(`polaris_iox_files_read',
    gen_require(`
        type polaris_iox_files_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type polaris_iox_shared_files_t;
        type polaris_iox_alt_hdd_files_t;

    ')

    read_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
    list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
    allow $1 polaris_iox_files_t:file map;

')

### <summary>Manage /bootflash/iox/ files or harddisk IOX files</summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
## <rolebase/>
interface('polaris_iox_files_manage',
  gen_require( 
    type polaris_iox_files_t; 
    type polaris_disk_bootflash_t; 
    type polaris_disk_harddisk_t; 
    type polaris_iox_shared_files_t; 
    type polaris_iox_alt_hdd_files_t; 
  )
)

manage_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)

manage_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)

manage_lnk_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)

allow $1 polaris_iox_files_t:file map;

)
interface('polaris_iox_dir_search',
    gen_require(
        type polaris_iox_files_t;
        type polaris_iox_shared_files_t;
    )
)

search_dirs_pattern($1, polaris_iox_files_t, polaris_iox_files_t)

interface('polaris_guestshell_files_read',
    gen_require(
        type polaris_guestshell_t;
        type polaris_iox_shared_files_t;
    )
)

read_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)
read_lnk_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)

interface('polaris_guestshell_exec_t',
    gen_require(
        type polaris_guestshell_exec_t;
        type polaris_iox_shared_files_t;
    )
)

execute($1, { polaris_guestshell_exec_t polaris_iox_shared_files_t }, polaris_guestshell_t)
interface('polaris_guestshell_exec_files_exec',
    gen_require('type polaris_guestshell_exec_t;
    )
    exec_files_pattern($1, polaris_guestshell_exec_t, polaris_guestshell_exec_t)
')

interface('polaris_guestshell_var_run_files_manage',
    gen_require('type polaris_guestshell_var_run_t;
type var_run_t;
    )
    manage_files_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)
    manage_dirs_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)
')

interface('polaris_caf_tmp_files_read',
    gen_require('type polaris_caf_tmp_files_t;
    )
    read_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
read_link_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
list_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)

######################################
## <summary>
##  Manage CAF tmp files
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
# interface('polaris_caf_tmp_files_manage',
  gen_require(
    type polaris_caf_tmp_files_t;
  )
  manage_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
  manage_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
)

######################################
## <summary>
##  Getattr CAF tmp files
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
# interface('polaris_caf_tmp_files_getattr',
  gen_require(
    type polaris_caf_tmp_files_t;
  )
  getattr_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
)

######################################
## <summary>
##  Read CAF files. Typically at /opt/cisco/caf/
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#

interface('polaris_caf_files_read',
    gen_require('type polaris_caf_files_t;
')
read_files_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
read_lnk_files_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
list_dirs_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
')

#######################################
## <summary>
##      Manage .../guestshell/rootfs_mnt/cisco/cisco_cli/
## This files are used to communicate between guestshell container
## iosd, and shell_exec.sh
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#

interface('polaris_caf_var_run_files_manage',
optional_policy('gen_require('
    type polaris_caf_var_run_t;
')
manage_files_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
manage_dirs_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
')
')

#######################################
## <summary>
##      Read /etc/guestshell_rsa_key file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#

interface('polaris_guestshell_key_read',
    gen_require('}
```c

typedef struct etc_t {
    type polaris_guestshell_ssh_key_t;
} etc_t;

read_files_pattern($1, etc_t, polaris_guestshell_ssh_key_t)


________________________________________________________
## <summary>
##    Manage ../local/local1/core_dir/
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
## <rolebase/>
#
# interface('polaris_caf_local_core_files_manage',`
#    optional_policy(`
#      gen_require(`
#        type polaris_caf_core_files_t;
#    `)
#
manage_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_dirs_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_lnk_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
```

________________________________________________________
## <summary>
##    Manage /mnt/sd3/iox_alt_hdd.dsk and
##    /mnt/sd3/iox_alt_hdd_mount_dir
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
## <rolebase/>
#
# interface('polaris_iox_alt_hdd_manage',`
#    optional_policy(`
#      gen_require(`
#        type polaris_disk_bootflash_t;
#        type polaris_disk_harddisk_t;
#        type polaris_iox_alt_hdd_files_t;
```
```
manage_files_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)
manage_dirs_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)

### <summary>
### Getattr alternate harddisk files
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_iox_alt_hdd_getattr',
#   gen_require(
#       type polaris_iox_alt_hdd_files_t;
#   )

allow $1 polaris_iox_alt_hdd_files_t:filesystem getattr;

### <summary>
### Manage tty device link files. Typically at /dev/
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_caf_tty_lnk_manage',
#   gen_require(
#       type polaris_caf_tty_file_t;
#   )

create_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
read_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
delete_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)

### <summary>
### Manage tty device chr files.
interface('polaris_caf_chr_file_read',
    gen_require('    type devpts_t;
    ')
    setattr_chr_files_pattern($1, devpts_t, devpts_t)
    read_chr_files_pattern($1, devpts_t, devpts_t)
')

interface('polaris_caf_domtrans',
    gen_require('    type polaris_caf_t, polaris_caf_exec_t;
    ')
    domtrans_pattern($1, polaris_caf_exec_t, polaris_caf_t)
')

interface('polaris_caf_proc_signal_perms',
    gen_require('    type polaris_caf_t;
    ')
    #
allow $1 polaris_caf_t:process sigkill;
')

#######################################
## <summary>
##      Write/read /tmp/ioxss_up file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_ioxss_rp_tmp_manage',
       gen_require(`
       type polaris_ioxss_rp_tmp_t;
       ')
       manage_files_pattern($1, {polaris_ioxss_rp_tmp_t}, polaris_ioxss_rp_tmp_t)
')

#######################################
## <summary>
##      Getattr of iosd_portal_app_lipc socket file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_iosd_portal_app_lipc_getattr',
       gen_require(`
       type polaris_iosd_portal_app_lipc_t;
       ')
       getattr_sock_files_pattern($1, polaris_iosd_portal_app_lipc_t, polaris_iosd_portal_app_lipc_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polariscaf.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky
#  
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
## <summary>Polaris TDLDB Policy Rules.</summary>

# Polaris tdldb (infra/tdllib)

### <summary>Make specified domain as one of tdldb types.</summary>

### <param name="domain">

### <summary>The domain serving as polaris_tdldb type</summary>

### <param name="domain">

### <summary>List directories in /tmp/[rp|fp|cc]/tdldb directories.</summary>

### <param name="domain">

### <summary>Use tdldb database files in /tmp/[rp|fp|cc]/tdldb</summary>

```c
interface(`polaris_tdldb_type',`
    gen_require(`
        attribute polaris_tdldb;
    `)
    typeattribute $1 polaris_tdldb;
    files_type($1)
    `)

interface(`polaris_tdldb_list_dirs',`
    gen_require(`
        type polaris_tdldb_t;
    `)
    list_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
    `)

interface(`polaris_tdldb',`
    gen_require(`
        type polaris_tdldb_t;
    `)
    `)
```
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="database_label">
##      <summary>
##      Database file label.
##      </summary>
## </param>
## <param name="object">
##      <summary>
##      Database file name. Also used to derive lock file name.
##      </summary>
## </param>
#
interface(‘polaris_tdldb_use’,
    gen_require(’
      type polaris_tdldb_t;
      type tmp_t;
    ’)
    manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
    manage_files_pattern($1, polaris_tdldb_t, $2)
    allow $1 $2:file map;
    allow $1 polaris_tdldb_t:file lock;
    type_transition $1 polaris_tdldb_t : file $2 "$3”;
    type_transition $1 polaris_tdldb_t : file $2 "$3.lock”;

    # manage /var/tmp/tdldb_ene_fifo.0xYYYYY files - it seems there is
    # no way to assign separate label to them
    manage_fifo_files_pattern($1, tmp_t, tmp_t)

    # tdllib_database_handle_open_internal through libuuid calls
    # uuid_generate_time_generic, which needs access to udp socket
    # once it reaches get_node_id function
    allow $1 self:udp_socket { create ioctl };
’)

####################################################
## <summary>
##      Setup tdldb database persistent files in
##                         /tmp/[rp|fp|cc]/tdldb/persist-config
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="database_label">
##      <summary>
##      Database file label.
##      </summary>
## </param>
## <param name="object">
##      <summary>
##      Database file name. Also used to derive lock file name.
##      </summary>
## </param>
#
# interface('polaris_tmp_tdldb_persist_setup',
gen_require(''
type polaris_tdldb_t;
type polaris_tdldb_persist_t;
')
  filetrans_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t, dir, "persistent-config")
  # allow creation of /tmp/rp/tdldb/persistent-config
  manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t)
  # Manage files inside of its own polaris_tdldb_persist_t directories
  manage_files_pattern($1, polaris_tdldb_persist_t, polaris_tdldb_persist_t)
')

#########################################################################
## <summary>
##      Manage tdldb directories
## </summary>
## <param name="domain">
##      <summary>
##      The domain serving as polaris_tdldb type
##      </summary>
## </param>
#
# interface('polaris_tdldb_manage_dirs',
  gen_require(''
    type polaris_tdldb_t;
  ')
  manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
')

#########################################################################
## <summary>
##      Use polaris_dir_db_tdldb_t database.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
policy_module(polarisboothelper, 1.0);

polaris_process_domain_template(boothelper_evt)

corecmd_exec_bin(polaris_boothelper_evt_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_boothelper_evt_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_boothelper_evt_t)

polaris_cpld_read(polaris_boothelper_evt_t)

# work with /tmp/udev/

type polaris_udev_tmp_files_t;
files_tmp_file(polaris_udev_tmp_files_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_udev_tmp_files_t, dir, "udev")

polaris_bootflash_manage(polaris_boothelper_evt_t)

type polaris_boothelper_tmp_t;
files_tmp_file(polaris_boothelper_tmp_t)
files_tmp_filetrans(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, dir, "rommon_upgrade_ngwc")
manage_files_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)
manage_dirs_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)

# watch over /tmp/rommon_upgrade_ngwc
allow polaris_boothelper_evt_t polaris_boothelper_tmp_t:dir watch;

# nyquist creates /tmp/udev_ssd.log
gen_require(
    type udev_t;
    
')
files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")

# create /dev/harddisk1 softlink during bootup
ifdef("crankshaft_family");
gen_require(
    type device_t;
    type initrc_t;
    type fixed_disk_device_t;
    
')
filetrans_pattern(initrc_t, device_t, fixed_disk_device_t, lnk_file, "harddisk1")

# restorecon under setfiles_t appends to /tmp/udev_ssd.log
gen_require(
    type setfiles_t;
    
')
polaris_udev_tmp_manage(setfiles_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisboothelper.te
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#
# March 2017, Victor Kamensky
#
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#

# Polaris lua files
/lua/(.*)\.(.*)\.lua --gen_context(system_u:object_r:polaris_lua_file_t,s0)
/usr/binos/conf/(.*)\.(.*)\.lua--gen_context(system_u:object_r:polaris_lua_file_t,s0)
/lua/(.*)\.(.*)\.so --gen_context(system_u:object_r:lib_t,s0)
/lua/(.*)\.(.*) --dgen_context(system_u:object_r:usr_t,s0)
/lua

#Polaris nginx lua files
Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislua.fc
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dnl

dnl May 2020, Swati Kumari

dnl

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dnl
dnl rpx86 Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 5)
max_bay_map_set(`fp', `per_bay', 2)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 6)
max_bay_ripc_map_set(`fp', `per_bay', 2)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 6)
max_bay_ripc_map_set(`fp', `global', 2)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/rpx86maps.m4
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#
# March 2017, Victor Kamensky
### <summary>Polaris epc_ws_liaison Policy Rules.</summary>

interface('polaris_epc_ws_liaison_tmp_read',
    gen_require(' 
        type polaris_epc_ws_liaison_tmp_t;
    ')
    read_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
')

### <summary>
##      Allow to open, write, add_name and write /tmp/epc_ws/fed_to_wif_pipe file.  
##      Allow to create and write /tmp/epc_ws dir.
</summary>

### <param name="domain">
### <summary>
##      epc_ws_liaison and ngwc-fed fifo_file interaction.
</summary>

interface('polaris_epc_ws_liaison_fifo_manage',
    gen_require(' 
        type polaris_epc_ws_liaison_tmp_t;
    ')
    manage_dirs_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
    manage_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
')

### <summary>
##      Allow to open, read "/tmp/epc_ws/wif_to_ts_pipe" fifo file.
</summary>

### <param name="domain">
### <summary>
##      epc_ws_liaison and dumpcap fifo_file interaction.
</summary>

interface('polaris_epc_ws_liaison_fifo_read',
    gen_require(' 
        type polaris_epc_ws_liaison_tmp_t;
    ')}
read_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
'}

########################################
## <summary>
## Allow to write, create, unlink "/tmp/*.pcapng" temporary files.
## </summary>
## <param name="domain">
## polaris_wireshark_show fifo_file interaction.
## </param>
#
interface('polaris_wireshark_show_tmp_manage',
  gen_require(
    type polaris_wireshark_show_tmp_t;
  )
  manage_files_pattern($1, polaris_wireshark_show_tmp_t, polaris_wireshark_show_tmp_t)
')

########################################
## <summary>
## Create, read, and write temporary files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_epc_ws_liaison_tmp_file',
  gen_require(
    type polaris_epc_ws_liaison_tmp_t;
  )
  files_tmp_filetrans($1, polaris_epc_ws_liaison_tmp_t, dir, "epc_ws")
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisepcwsliaison.if
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#
# December 2019, Victor Kamensky
#
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#

## <summary>Polaris fnf_agg Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisfnfagg.if

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

#
# October 2019, Patrick O'Halloran
#
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#

policy_module(polarsicrft, 1.0);

#########################################################################
# CRFT policy
#########################################################################
gen_require(`
  attribute domain;
  attribute polaris_extended_domain;
`)

# persistent CRFT files stored under crft_data
type polaris_crft_data_t;
files_type(polaris_crft_data_t)

# allow crft data file reside on persistent storage
polaris_pfile_type(polaris_crft_data_t)

attribute polaris_crft_data_domain;

type attribute polaris_crft_data_t polaris_crft_data_domain;

# Start of mcp_crft_request context elements
polaris_utility_domain_template(crft_request)

# smand calls the mcp_crft_request.sh in bexec context
polaris_bexecute_domain(polarsicrft_request_t)
polarsicrft_bexecute_domain(polarsicrft_request_t, polaris_crft_request_exec_t)

# read the cpld information
polaris_cpld_read(polarsicrft_request_t)

# dev/pty access as part of bexec operations
telnet_use_ptys(polarsicrft_request_t)

# filesystem attributes for df /
fs_getattr_xattr Fs(polaris_crft_request_t)

# btrace used in script uses these
polaris_btrace_tmppub_manage(polaris_crft_request_t)
polaris_use_btrace_fifo(polaris_crft_request_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_crft_request_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_manage(polaris_crft_request_t)

# ufs information captured by the chasfs utils
ifdef('ngwc_family',`
  optional_policy('`
polaris_ncd_tmp_manage(polaris_crft_request_t)
  ')
')
# scripts read /proc/cmdline
kernel_read_system_state(polaris_crft_request_t)

# ping the vrf
netutils_domtrans_ping(polaris_crft_request_t)
sysnet_domtrans_ifconfig(polaris_crft_request_t)

# rsync operations for members and standby rps
gen_require('`
    type rsync_exec_t;
    type rsync_port_t;
  ')
allow polaris_crft_request_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
al low polaris_crft_request_t rsync_port_t:tcp_socket name_connect;

# access to /etc/hosts for rp/members information
gen_require('`
    type net_conf_t;
  ')
files_etc_filetrans(polaris_crft_request_t, net_conf_t, file, "hosts")
auth_use_nsswitch(polaris_crft_request_t)

# execute the bash script
corecmd_exec_bin(polaris_crft_request_t)

# net namespace filesystem
fs_read_nsfs_files(polaris_crft_request_t)
polaris_chasfs_manage(polaris_crft_request_t)

# script also accesses the persistent files from crft
polaris_persistent_manage(polaris_crft_request_t)
polaris_crft_data_manage_all(polaris_crft_request_t)

# ping operations via ip netns
gen_require(' type ifconfig_t; ')
netutils_domtrans_ping(ifconfig_t)

# Curl accesses from IoT boxes like petra/sparrow
gen_require(' type polaris_curl_t;
            type polaris_iosd_t;
    ')
allow polaris_curl_t polaris_crft_request_t:process sigchld;

# handle mktemp creation and cleanup
files_manage_generic_tmp_dirs(polaris_crft_request_t)
allow polaris_crft_request_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscrft.te
No license file was found, but licenses were detected in source scan.

#
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#
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#

policy_module(polarispsvp, 1.0);
polaris_process_domain_template(psvp)

# transition to pman domain, once pman is invoked by psvp
polaris_pman_domtrans(polaris_psvp_t)
# transition to pvp domain, once pvp is invoked by psvp
polaris_pvp_domtrans(polaris_psvp_t)
corecmd_exec_bin(polaris_psvp_t)
corecmd_exec_shell(polaris_psvp_t)

# can execute process in polaris domain
polaris_exec(polaris_psvp_t)

# LOOK AT ME start-stop-daemon from busy box iterates all
# /proc/<pid> directories and reads /proc/<pid>/cmdline
# /proc/<pid>/exe. i.e it need quite a bit of priviledges
domain_read_all_domains_state(polaris_psvp_t)

# another issue of running busybox start-stop-daemon under
# psvp_t label
# type=AVC msg=audit(1480527500.482:46): avc: denied { sys_ptrace } for pid=14853 comm="start-stop-daem"
capability=19 scontext=system_u:system_r:polaris_psvp_t:s0 tcontext=system_u:system_r:polaris_psvp_t:s0
tclass=capability
allow polaris_psvp_t self:capability sys_ptrace;

# allow to read /proc/meminfo
kernal_read_system_state(polaris_psvp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_psvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_psvp_t)

# work with /tmp files
type polaris_psvp_tmp_t;
files_tmp_file(polaris_psvp_tmp_t)
manage_dirs_pattern(polaris_psvp_t, tmp_t, polaris_psvp_tmp_t)
manage_files_pattern(polaris_psvp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
manage_fifo_files_pattern(polaris_psvp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
files_tmp_filetrans(polaris_psvp_t, polaris_psvp_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_psvp_tmp_t, dir, "psvp")

ifdef(`ngwc_family',`
# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy(`
polaris_nccd_tmp_read(polaris_psvp_t)
')
')

# note split entry another psvp capability listed above
allow polaris_psvp_t self:capability sys_resource;

polaris_pvp_getattrs_tmp_dirs(polaris_psvp_t)
dmidecode_domtrans(polaris_psvp_t)

polaris_btrace_data_manage(polaris_psvp_t)
polaris_chasfs_manage(polaris_psvp_t)
polaris_cpld_read(polaris_psvp_t)
polaris_cpld_write(polaris_psvp_t)
polaris_monbifo_tmp_read(polaris_psvp_t)
polaris_hdl_tmp_list_dirs(polaris_psvp_t)
polaris_boot_tmp_read(polaris_psvp_t)
polaris_disk_crashinfo_getattr(polaris_psvp_t)
polaris_flashlib_read(polaris_psvp_t)
polaris_read_debug_conf(polaris_psvp_t)

allow polaris_psvp_t self:capability dac_override;

# watch /tmp/sai/psvp
allow polaris_psvp_t polaris_psvp_tmp_t:dir watch;

# creates /tmp/sai/pvp/rp/run_stg2
polaris_pvp_manage_tmp_files(polaris_psvp_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
ifdef(`vwlc_platform',`
optional_policy(
  polaris_ncd_tmp_read(polaris_psvp_t)
  `)
`)

# permissions during shutdown
polaris_pvp_manage_tmp_files(polaris_psvp_t);

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispsvp.te
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#

## <summary>Polaris Tmp Boot Policy Rules.</summary>

# /tmp/sw/boot policy

## <summary>
##      Read /tmp/sw/boot files. Does not cover rmonbifo file under
## /tmp/sw/boot/rmonbifo. For those use polaris_rmonbifo_tmp_read interface
## </summary>
## <param name="domain">
##      Domain allowed access.
interface('polaris_boot_tmp_read',
    gen_require('type polaris_boot_tmp_t;
    ')
    read_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
')

interface('polaris_boot_tmp_write',
    gen_require('type polaris_boot_tmp_t;
    ')
    write_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
')

interface('polaris_boot_tmp_map',
    gen_require('type polaris_boot_tmp_t;
    ')
    allow $1 polaris_boot_tmp_t:file map;
')

```
## <summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_boot_tmp_manage',`
gen_require(`
type polaris_boot_tmp_t;
`)
manage_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
`)

########################################
## <summary>
## Create an polaris_boot_tmp_t object
## in tmpfs_t, tmp_t directories.
##
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>
## <param name="name" optional="true">
## The name of the object being created.
## </param>
#
interface('polaris_boot_tmp_filetrans',`
gen_require(`
type polaris_boot_tmp_t;
`)
fs_tmpfs_filetrans($1, polaris_boot_tmp_t, $2, $3)
files_tmp_filetrans($1, polaris_boot_tmp_t, $2, $3)
`)

########################################
## <summary>
## Manage partition disk device that contains rommon image.
```
interface('polaris_rommon_device_manage',
    gen_require('type device_t;
type polaris_rommon_device_t;
')
manage_blk_files_pattern($1, device_t, polaris_rommon_device_t)
manage_chr_files_pattern($1, device_t, polaris_rommon_device_t)
')

interface('polaris_rommon_device_read',
    gen_require('type device_t;
type polaris_rommon_device_t;
')
read_blk_files_pattern($1, device_t, polaris_rommon_device_t)
read_chr_files_pattern($1, device_t, polaris_rommon_device_t)
')
manage_files_pattern($1, polaris_boot_file_t, polaris_boot_file_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisboot.if
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# /mnt/sd1 edison and nyquist
/mnt/sd1(/.*)?  gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/mnt/sd1/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd1/system-report_.*.tar.gz  gen_context(system_u:object_r:polaris_system_report_t,s0)

# /mnt/sd3 edison and nyquist
/mnt/sd3(/.*)?  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/mnt/sd3/user/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/mnt/sd3/user/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd3/user/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd3/user/.ssh(/.*)?  gen_context(system_u:object_r:ssh_home_t,s0)
/mnt/sd3/user/.ssh/ssh_host.*.key\_pub  gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/.ssh/ssh_host.*.key  gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/nvram_config --  gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/mnt/sd3/user/debug.conf --  gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/mnt/sd3/user/packages.conf  gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/mnt/sd3/user/dbpersist(/.*)?  gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/mnt/sd3/user/installer(/.*)?  gen_context(system_u:object_r:polaris_disk_install_t,s0)
/mnt/sd3/user/rollback_timer(/.*)?  gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/mnt/sd3/user/kernel/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/mnt/sd3/user/sys_report(/.*)?  gen_context(system_u:object_r:polaris_chasync_files_t,s0)

# /mnt/sd4 nyquist
/mnt/sd4(/.*)?  gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /mnt/sd5 edison and nyquist
/mnt/sd5(/.*)?  gen_context(system_u:object_r:polaris_disk_license_t,s0)

ifdef(`edison_platform`,
# /mnt/sd6
/mnt/sd6(/.*)?  gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /mnt/sd7
ifdef(`nyquist_platform',`
# /mnt/sd6
/mnt/sd6(/.*)?                         gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)?                         gen_context(system_u:object_r:polaris_disk_ucode_t,s0)
#unmount script used ny Nyquist platform
/bin/cat9k_ssd_unmount.sh               gen_context(system_u:object_r:polaris_ssd_unmount_exec_t,s0)
')

ifdef(`quake_platform',`
# /mnt/sd6
/mnt/sd6(/.*)?                         gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)?                         gen_context(system_u:object_r:polaris_disk_ucode_t,s0)
')

# /crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles
/crashinfo                             gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
# /flash is symbolic link to /mnt/sd3/user
/flash                                 gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /lic0 is symbolic link to /mnt/sd4
/lic0                                  gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /lic1 is symbolic link to /mnt/sd5
/lic1                                  gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /ngwc_config/nvram is symbolic link to /mnt/sd3/user
/ngwc_config/nvram --                  gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# /flash1 macallan
/flash1(/.*)?                           gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/flash1/user/core(/.*)?                gen_context(system_u:object_r:polaris_core_file_t,s0)
/flash1/user/tracelogs(/.*)?           gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/flash1/user/ssh(/.*)?                  gen_context(system_u:object_r:ssh_home_t,s0)
/flash1/user/ssh/ssh_host.*_key\pub    gen_context(system_u:object_r:sshd_key_t,s0)
/flash1/user/ssh/ssh_host.*_key        gen_context(system_u:object_r:sshd_key_t,s0)
/flash1/user/nvram_config --           gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/flash1/user/debug.conf --             gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/flash1/user/packages.conf             gen_context(system_u:object_r:polaris_packages_conf_t,s0)
# /flash2 macallan 9500h
flash2(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
flash2/CRASH(/.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
flash2/CRASH/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)

# /flash3 macallan
flash3(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /flash4 macallan
flash4(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /flash5 macallan
flash5(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /flash6 macallan, used for silent roll in macallan
flash6(/.*)? gen_context(system_u:object_r:polaris_disk_udevice_t,s0)

# /flash7 macallan, silent roll
flash7(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# macallan silent roll link
/cc_srdrv gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# macallan /ngmod_config/nvram link will be labeled by systemd-tmpfiles
/ngmod_config gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/ngmod_config/nvram gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# remap_mem0 device
/dev/remap_mem0 -c gen_context(system_u:object_r:polaris_remap_mem_mem_device_t,s0)

# chdrvmmmap device (MMAP Driver for ASIC Memory mapping)
/dev/chdrvmmmap -c gen_context(system_u:object_r:polaris_chdrvmmmap_device_t,s0)

# gettysburg_dev1 device
/dev/gettysburg_dev[0-9]* -c gen_context(system_u:object_r:polaris_gettysburg_fpga_device_t,s0)

# types that might be packages label by other policy
ifdef(`nyquist_platform',
/usr/binos/bin/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)
/usr/binos/bin/cman_fp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
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/usr/binos/bin/cmcc -- gen_context(system_u:object_r:polaris_cm_cc_exec_t,s0)

ifdef(`passport_platform',

/usr/binos/bin/platform_mgr -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_exec_t,s0)
/usr/binos/bin/xcvr_test -- gen_context(system_u:object_r:polaris_xcvr_test_exec_t,s0)
/usr/binos/bin/sif_mgr -- gen_context(system_u:object_r:polaris_sif_mgr_exec_t,s0)
/usr/binos/bin/cmm -- gen_context(system_u:object_r:polaris_cmm_exec_t,s0)
/usr/binos/bin/bt_logger -- gen_context(system_u:object_r:polaris_bt_logger_exec_t,s0)
/usr/binos/bin/torchd -- gen_context(system_u:object_r:polaris_torch_exec_t,s0)
/usr/binos/bin/swift_sampled -- gen_context(system_u:object_r:polaris_faked_exec_t,s0)

# PLEASE LOOK AT ME: why this file in /etc/init.d?
/etc/rc.d/init.d/cat9k_fpgahelper_funcs.sh -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/cat9k_kr_helper.sh -- gen_context(system_u:object_r:bin_t,s0)

# symbolic links in /platform-specific directory
/platform-specific/gryphon -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/gryphon_lite -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/prometheus -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/skyfox -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/vulcan -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/intrepid -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/martion -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/farscape -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/borg -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/scorpion -l gen_context(system_u:object_r:root_t,s0)

# /dev/cisco/dplriomem device, Generic Memory map driver for mapping doppler IO memory to userspace
/dev/cisco/dplriomem -c gen_context(system_u:object_r:polaris_dplr_iomem_mmapdrv_device_t,s0)

# /appstore_hd is symbolic link to /vol/disk0
/appstore_hd -l gen_context(system_u:object_r:root_t,s0)
/appstore_flash -l gen_context(system_u:object_r:root_t,s0)
# /init is symbolic link to /lib/systemd/systemd
/init -l gen_context(system_u:object_r:root_t,s0)
# /install is symbolic link to /flash1/INSTALL
/install -l gen_context(system_u:object_r:root_t,s0)
# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:root_t,s0)

# provide relabeling rules for /platform-specific/personality file
# otherwise, they cause conflicting specifications error during relabeling
/platform-specific/bigbang/lib/modules(/.*)? gen_context(system_u:object_r:root_t,s0)
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/platform-specific/bigbang/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/nyquist/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/passport/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/starfleet/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/intrepid/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/martian/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/farscape/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/borg/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/scorpion/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/imperial/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/jura/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/bigbang/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/nyquist/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/passport/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/starfleet/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/intrepid/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/martian/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/farscape/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/borg/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/scorpion/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/imperial/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/jura/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/quake1/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/quake2/etc/selinux(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/bigbang/etc/hosts[^/]*  -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/nyquist/etc/hosts[^/]*  -- gen_context(system_u:object_r:net_conf_t,s0)
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/platform-specific/passport/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/starfleet/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/intrepid/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/martian/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/farscape/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/borg/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/scorpion/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/imperial/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/jura/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)

/platform-specific/bigbang/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/nyquist/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/passport/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/starfleet/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/intrepid/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/martian/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/farscape/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/borg/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/scorpion/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/imperial/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/jura/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)

/platform-specific/bigbang/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/nyquist/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/passport/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/starfleet/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/intrepid/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/martian/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/farscape/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/borg/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/scorpion/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/imperial/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/jura/etc/udev/rules.d(/.*)? gen_context(system_u:object_r:udev_rules_t,s0)

/dev/shm/sem.i2c_sem000 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem001 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem002 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem003 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem004 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem005 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem006 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem007 gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.io_expander_semaphore gen_context(system_u:object_r:polaris_quake_i2c_t,s0)

# on pangea/bigbang platforms /dev/NVRAM block device is accessed
# by flashlib in iosd. It stores rommon vars
ifdef('bigbang_platform',

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6523

/source/silence/silence

# /mnt/sd6
/mnt/sd6(/.*)?   gen_context(system_u:object_r:polaris_obfl_data_t,s0)
')

/vol/usb1(/.*)?  gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)

/mnt/vbd[a-j]2(/.*)?  gen_context(system_u:object_r:polaris_obfl_data_t,s0)

/tmp/fpga_upgrade  gen_context(system_u:object_r:polaris_fpga_upgrade_tmp_t,s0)

#SBATCH 9300 silent roll
/ucode0(/.*)?  gen_context(system_u:object_r:polaris_disk_ucode0_t,s0)

/dev/cisco/fpgaiomem device, Generic Memory map driver for mapping FPGA IO memory to userspace
/dev/cisco/fpgaiomem -c gen_context(system_u:object_r:polaris_fpga_iomem_mmapfpga_device_t,s0)

# nplusm-power file is located in /bootflash and needs to be accessed by cman-rp/IOSd
/flash1/user/nplusm-power gen_context(system_u:object_r:polaris_nplusm_power_file_t,s0)

Found in path(s):
  */opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwc.fc
No license file was found, but licenses were detected in source scan.

# August 2017, Victor Kamensky
#
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#

## <summary>Polaris crankshaft Platform Policy Rules.</summary>

####################################################
## 
##      Work (read, write, ioctl) with /dev/linux-(user|kernel)-bde devices
## 
##      <param name="domain">
## 
##      Domain allowed access.
## 
##      </param>
## 
##      interface('polaris_bde_dev_use',
##
gen_require(''
      type device_t;

type polaris_bde_device_t;
')

write_chr_files_pattern($1, device_t, polaris_bde_device_t)
read_chr_files_pattern($1, device_t, polaris_bde_device_t)
allow $1 polaris_bde_device_t:chr_file map;
'

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/dash_fpga device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_dash_dev_use',`
gen_require`
    type device_t;
type polaris_dash_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_dash_device_t)
    read_chr_files_pattern($1, device_t, polaris_dash_device_t)
    allow $1 polaris_dash_device_t:chr_file map;
'

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/huron_fpga device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_huron_dev_use',`
gen_require`
    type device_t;
type polaris_huron_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_huron_device_t)
    read_chr_files_pattern($1, device_t, polaris_huron_device_t)
    allow $1 polaris_huron_device_t:chr_file map;
'

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/dplr_sumatra
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_dplr_sumatra_dev_use',`
gen_require`
    type device_t;
type polaris_dplr_sumatra_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_dplr_sumatra_device_t)
    read_chr_files_pattern($1, device_t, polaris_dplr_sumatra_device_t)
    allow $1 polaris_dplr_sumatra_device_t:chr_file map;
'

Opening Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 6524
interface('polaris_sumatra_doppler_dev_use',
    gen_require(
        type device_t;
        type polaris_sumatra_doppler_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
    read_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
    allow $1 polaris_sumatra_doppler_device_t:chr_file map;
)

interface('polaris_sirius_fpga_dev_use',
    gen_require(
        type device_t;
        type polaris_siriusfpga_device_t;
    )
    rw_chr_files_pattern($1, device_t, polaris_siriusfpga_device_t);
)

interface('polaris_nios_dev_use',
    gen_require(
        type device_t;
    )
)
type polaris_nios_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_nios_device_t)
    read_chr_files_pattern($1, device_t, polaris_nios_device_t)
')

.utcnow
###########################################################
## <summary>
## Work (read, write, ioctl) with /dev/qae_mem device
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_qae_dev_use',
    genRequire(')
    type device_t;

type polaris_qae_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_qae_device_t)
    read_chr_files_pattern($1, device_t, polaris_qae_device_t)
')

###########################################################
## <summary>
## Read mokafpga files in /sys/devices/platform directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_mokafpga_read',
    genRequire(')
    type polaris_sysfs_mokafpga_t;
    type sysfs_t;
')
    read_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
    list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
')

###########################################################
## <summary>
## Read/Write mokafpga files in /sys/devices/platform directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_mokafpga_rw',
    gen_require(
        type polaris_sysfs_mokafpga_t;
        type sysfs_t;
    )
    rw_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
    list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/moka_fpga
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_mokafpga_dev_use',
    gen_require(
        type device_t;
        type polaris_mokafpga_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/nim_dm_0_1 and
## /dev/nim_dm devices
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_nim_dm_dev_use',
    gen_require(
        type device_t;
type polaris_nim_dm_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
read_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
allow $1 polaris_nim_dm_device_t:chr_file map;
allow $1 device_t:chr_file map;
')

########################################
## <summary>
##      Execute a domain transition to run load_usbnet.sh.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
# interface('polaris_load_usbnet_domtrans','
  gen_require(
    type polaris_load_usbnet_t, polaris_load_usbnet_exec_t;
  ')

  domtrans_pattern($1, polaris_load_usbnet_exec_t, polaris_load_usbnet_t)
')

########################################
## <summary>
##      Label and allow access to i2c semaphore files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_i2c_sem_manage',
  gen_require(
    type tmpfs_t;
    type polaris_cm_cc_tmpfs_t;
  ')

  manage_files_pattern($1, tmpfs_t, polaris_cm_cc_tmpfs_t)
  mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

#
## Work (read, write, ioctl) with /dev/bp_async device
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
#
interface(`polaris_bp_async_dev_use';`
    gen_require(`
        type device_t;
        type polaris_bp_async_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
    read_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
    allow $1 polaris_bp_async_device_t:chr_file map;
`')

####################################################
## Label and allow access to i2c semaphore files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
#
interface(`polaris_udev_access';`
    gen_require(`
        type tmpfs_t;
        type polaris_udev_tmp_files_t;
    `)
    manage_files_pattern($1, tmpfs_t, polaris_udev_tmp_files_t)
`)
type polaris_sparrow_psu_device_t;

write_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)
read_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)

########################################
## <summary>
## Work (read, write, ioctl) with /dev/nutella_fpga device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_nutella_fpga_dev_use',
  type device_t;
  type polaris_nutella_fpga_device_t;
)
write_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)
read_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)

########################################
## <summary>
## Read and write to qcqmi devices.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_qcqmi_dev_use',
  type device_t, qcqmi_device_t;
)

rw_chr_files_pattern($1, device_t, qcqmi_device_t)

########################################
## <summary>
## Work (read, write, ioctl) with /dev/sm_nim_adpt device files
## </summary>
## <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_sm_nim_adpt_dev_use',
gen_require(
    type device_t;
    type polaris_sm_nim_adpt_device_t;
')
write_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
read_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
allow $1 polaris_sm_nim_adpt_device_t:chr_file map;
')

#########################################################################
### <summary>
### Work (read, write, ioctl) with /dev/dio-*
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>
#
interface('polaris_dio_dev_use',
gen_require(
    type device_t;
    type polaris_dio_device_t;
')
write_chr_files_pattern($1, device_t, polaris_dio_device_t)
read_chr_files_pattern($1, device_t, polaris_dio_device_t)
allow $1 polaris_dio_device_t:chr_file map;
')

#########################################################################
### <summary>
### Read /dev/dio-*
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>
#
interface('polaris_dio_dev_read',
gen_require('
type device_t;
    type polaris_dio_device_t;
)
read_chr_files_pattern($1, device_t, polaris_dio_device_t)
')

########################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/ttyNMEA* and /dev/ttyTunNMEA*
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
#interface('polaris_tty_NMEA_dev_use',
    gen_require(
        type device_t;
        type polaris_tty_NMEA_device_t;
    )
write_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
allow $1 polaris_tty_NMEA_device_t:chr_file map;
')

########################################################################
## <summary>
##      Read /dev/ttyNMEA* and /dev/ttyTunNMEA*
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
#interface('polaris_tty_NMEA_dev_read',
    gen_require(
        type device_t;
        type polaris_tty_NMEA_device_t;
    )
read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
')

########################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/nim_phy
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_nim_phy_dev_use',
    gen_require(
        type device_t;
        type polaris_nim_phy_device_t;
    ') )
    rw_chr_files_pattern($1, device_t, polaris_nim_phy_device_t)
    allow $1 polaris_nim_phy_device_t:chr_file map;
    ')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscrankshaft.if
No license file was found, but licenses were detected in source scan.
#
# March 2019, Shikhar Dogra
#
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#

policy_module(polarisfmancc, 1.0);

gen_require(
    type polaris_fman_cc_t;
    ')

polaris_btrace_data_manage(polaris_fman_cc_t)
polaris_crf_data_manage(polaris_fman_cc_t)
polaris_chasfs_manage(polaris_fman_cc_t)
polaris_tdlresolve_read(polaris_fman_cc_t)
polaris_tlddb_list_dirs(polaris_fman_cc_t)
polaris_cpld_read(polaris_fman_cc_t)
polaris_lua_read(polaris_fman_cc_t)
polaris_flashlib_read(polaris_fman_cc_t)
polaris_cpld_dev_use(polaris_fman_cc_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_cc_t)

# ISR Nightwatch module accesses libraries compiled with icc
polaris_icc_broken_relocations(polaris_fman_cc_t)
# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_fman_cc_t)
polaris_cpp_tmp_files_use(polaris_fman_cc_t)

type polaris_iosd_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_fmanrp_mqipc_t)

polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc1)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc2)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc3)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc4)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisfmancc.te
No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

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dnl
dnl divert(-1)

include(`polaris_process.m4')
dnl Stub out plaris process
define(`polaris_process',``)

dnl Stub out mqipe
define(`polaris_mqipc_service_server',``)
define(`polaris_mqipc_service_client',``)
define(`polaris_mqipc_service_server_elastic_client',``)

dnl Stub out lipc
define(`polaris_lipc_service_server',``)
define(`polaris_lipc_service_client',``)

include(`polaris_lipc_ripc.m4')
include(`polaris_lipc_base_ripc_te.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',``)
define(`polaris_cipc_service_server',``)

include(`polaris_max_scope.m4')
divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

policy_module(autopolarisplatformmpcbase, 1.0);

gen_require(``
    attribute port_type;
    attribute defined_port_type;
``)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_base_te.m4
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#
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#
## <summary>Polaris oct_dp_log_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisoctdplogrp.if
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Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisinstall.te
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaristws.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/binos/conf/reflector.sh -- gen_context(system_u:object_r:polaris_reflector_exec_t,s0)
/tmp/rp/reflector(/.*)? gen_context(system_u:object_r:polaris_reflector_tmp_t,s0)
Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisreflector.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/tmp/pm_post_result -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t,s0)
/tmp/microcode_update(/.*)? gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwcplfmmgr.fc
No license file was found, but licenses were detected in source scan.

#
# November 2020, Christine Hwang
#
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#

policy_module(polarisbbu, 1.0);

gen_require(`
   type polaris_bbu_t;
`)

polaris_btrace_data_manage(polaris_bbu_t)
polaris_chasfs_manage(polaris_bbu_t)
polaris_tdlresolve_read(polaris_bbu_t)
polaris_cpld_read(polaris_bbu_t)
polaris_ripc_sman_ui_serv_connect(polaris_bbu_t)

# Allow I2C Usage
polaris_i2c_use(polaris_bbu_t)
polaris_i2c_sem_manage(polaris_bbu_t)

# Allow sysfs read for platform ID
dev_list_sysfs(polaris_bbu_t)

# Allow bbu to access NVRAM for /flash0/bbu
fs_getattr_tmpfs(polaris_bbu_t)
polaris_nvram_manage(polaris_bbu_t)

# Allow logger which is used for syslog messages
allow polaris_bbu_t self:unix_dgram_socket { connect create }
logging_send_syslog_msg(polaris_bbu_t)

# tty BBU device
type polaris_bbu_device_t;
dev_node(polaris_bbu_device_t)

polaris_bbu_dev_use(polaris_bbu_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbbu.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

## <summary>Polaris dmi_ports_fetch Policy Rules.</summary>

##############################################
## <summary>
##     Work with /bootflash/sdavc
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sdavc_proxy_manage',
    gen_require(
        type polaris_sdavc_proxy_files_t;
    )
    manage_files_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
    manage_dirs_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissdavcproxy.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
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#
#
# some platforms have /usr/bin/fman_fp as hardlink to
# /usr/bin/fman_fp_image
/usr/bin/fman_fp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/bin/fman_fp_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/bin/fman_fp_vwlc_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/bin/fman_fp_us_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisfmanfp.fc
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#
/

/tmp/sm_post_result -- gen_context(system_u:object_r:polaris_sif_mgr_tmp_t,s0)
/tmp/fips_status -- gen_context(system_u:object_r:polaris_sif_mgr_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissifmgr.fc
No license file was found, but licenses were detected in source scan.

# # August 2017, Shawn Lu
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#
#
# polariswncd file contexts place holder

/mnt/images(/.*)? gen_context(system_u:object_r:polaris_wlc_ap_images_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariswnccd.fc
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# # March 2017, Victor Kamensky
policy_module(polarisfmanrp, 1.0);

gen_require(
    type polaris_fman_rp_t;
)

# mqipc manual, one that missing in platform tdl file

# mq.-fman-log-bay0-peer0
type polaris_fman_log_bay0_peer0_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer0_mqipc_t)

# mq.-fman-log-bay0-peer1
type polaris_fman_log_bay0_peer1_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer1_mqipc_t)

# mq.-fman-log-bay0-peer2
type polaris_fman_log_bay0_peer2_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer2_mqipc_t)

# mq.-fman-log-bay0-peer3
type polaris_fman_log_bay0_peer3_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer3_mqipc_t)

# mq.-fman-log-bay0-peer4
type polaris_fman_log_bay0_peer4_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer4_mqipc_t)

# mq.-fman-log-bay0-peer5
type polaris_fman_log_bay0_peer5_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer5_mqipc_t)

# mq.-fman-log-bay0-peer6
type polaris_fman_log_bay0_peer6_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer6_mqipc_t)

# mq.-fman-log-bay0-peer7
type polaris_fman_log_bay0_peer7_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer7_mqipc_t)

# mq.-fman-log-bay0-peer8
type polaris_fman_log_bay0_peer8_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer8_mqipc_t)

polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer0_mqipc_t, fman-log-bay0-peer0)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer1_mqipc_t, fman-log-bay0-peer1)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer2_mqipc_t, fman-log-bay0-peer2)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer3_mqipc_t, fman-log-bay0-peer3)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer4_mqipc_t, fman-log-bay0-peer4)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer5_mqipc_t, fman-log-bay0-peer5)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer6_mqipc_t, fman-log-bay0-peer6)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer7_mqipc_t, fman-log-bay0-peer7)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer8_mqipc_t, fman-log-bay0-peer8)

polaris_btrace_data_manage(polaris_fman_rp_t)
polaris_crft_data_manage(polaris_fman_rp_t)
polaris_chasfs_manage(polaris_fman_rp_t)
polaris_tdlresolve_read(polaris_fman_rp_t)
polaris_tdlldb_list_dirs(polaris_fman_rp_t)
polaris_cpld_read(polaris_fman_rp_t)
polaris_flashlib_read(polaris_fman_rp_t)
polaris_lua_read(polaris_fman_rp_t)

polaris_ripc_sman_ui_serv_connect(polaris_fman_rp_t)
polaris_db_tdlldb_dir_use(polaris_fman_rp_t)

ifdef(`nyquist_platform',`
   gen_require(
      type polaris_bt_logger_fman_rp_mqipc_t;
   )
   # fman_rp may start first and create this mqipc channel
   polaris_mqipc_create_name(polaris_fman_rp_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)
   )

   allow polaris_fman_rp_t self:udp_socket { create ioctl }
   allow polaris_fman_rp_t self:capability { dac_override }
   allow polaris_fman_rp_t self:capability2 block_suspend;

   # not clear why fman_rp tries to load netdev-mgmtbr kernel module
   # it does not exist on ultra anyway
   # type=AVC msg=audit(1478126742.967:98): avc: denied { module_request } for pid=18020 comm="fman_rp"
   # kmod="netdev-mgmtbr" scontext=system_u:system_r:polaris_fman_rp_t:s0
tcontext=system_u:system_r:kernel_t:s0 tclass=system
   kernel_request_load_module(polaris_fman_rp_t)
polaris_socketat_nsfs_read(polaris_fman_rp_t)

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6540
polaris_dyncfg_tmp_read(polaris_fman_rp_t)

# socketat usage from fman_punt_port_mapping_init for AF_NETLINK, SOCK_DGRAM
polaris_lfts_dev_use(polaris_fman_rp_t)
allow polaris_fman_rp_t self:netlink_tcpdiag_socket {create nlmsg_read ;}

# fman_rp tries to write to systemd journal when a peer is stuck
# introduced by CSCvt19772
logging_send_syslog_msg(polaris_fman_rp_t)

optional_policy(')
# fman-rp creates tmp files in acl-mgmt workflow.
polaris_fman_acl_iptbl_tmp_file(polaris_fman_rp_t)
')

# manually create mqipc channel: missing in TDL
type polaris_fmrp2fpm_mqipc_t;
polaris_mqipc_type(polaris_fmrp2fpm_mqipc_t)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fmrp2fpm_mqipc_t, fmrp2fpm_vulcan_mqipc)

optional_policy(')
polaris_fpm2fmrp_mqipc_use(polaris_fman_rp_t)
')
polaris_issu_tmp_files_read(polaris_fman_rp_t)
polaris_install_tmp_read(polaris_fman_rp_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisfmanrp.te
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#
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#
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#
# polariswncmgrd file contexts place holder

#gRPC certificate for ICap, written and read by wncmgrd
/bootflash/NACert.pem   gen_context(system_u:object_r:polaris_icap_cert_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariswncmgrd.fc
No license file was found, but licenses were detected in source scan.
policy_module(polarispttcd, 1.0);

gen_require(
    type polaris_pttcd_t;
    )

polaris_btrace_data_manage(polaris_pttcd_t)
polaris_crft_data_manage(polaris_pttcd_t)
polaris_chasfs_manage(polaris_pttcd_t)
polaris_tdlresolve_read(polaris_pttcd_t)
polaris_tdlrdb_list_dirs(polaris_pttcd_t)
polaris_lua_read(polaris_pttcd_t)
polaris_flashlib_read(polaris_pttcd_t)

auth_use_nsswitch(polaris_pttcd_t)
polaris_cpld_read(polaris_pttcd_t)

allow polaris_pttcd_t self:netlink_route_socket r_netlink_socket_perms;

polaris_disk_bootflash_search(polaris_pttcd_t)
polaris_bootflash_manage(polaris_pttcd_t)
polaris.persistent_getattr(polaris_pttcd_t)

type polaris_pttcd_tmp_t;
files_tmp_file(polaris_pttcd_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_pttcd_tmp_t, dir, "interceptor")
gen_require(
    type polaris_btrace_tmppub_t;
    )
manage_dirs_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)
manage_files_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)
manage_lnk_files_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)

allow polaris_pttcd_t self:tcp_socket create_stream_socket_perms;
allow polaris_pttcd_t self:udp_socket create_socket_perms;

corenets_tcp_bind_generic_node(polaris_pttcd_t)
corenets_tcp_bind_polaris_pttcd_port(polaris_pttcd_t)
corenets_tcp_connect_polaris_pttcd_port(polaris_pttcd_t)
corenets_udp_sendrecv_polaris_pttcd_port(polaris_pttcd_t)
sysnet_read_config(polaris_pttcd_t)

allow polaris_pttcd_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispttcd.te
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#
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#
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#

/dev/dev_lfts -c gen_context(system_u:object_r:polaris_lfts_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarislfts.fc
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
#
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#

policy_module(polaris servicemgr, 1.0);

gen_require(
    type polaris_service_mgr_t;
)

polaris_btrace_data_manage(polaris_service_mgr_t)
polaris_crft_data_manage(polaris_service_mgr_t)
polaris_chasfs_manage(polaris_service_mgr_t)
polaris_cpld_read(polaris_service_mgr_t)
polaris_flashlib_read(polaris_service_mgr_t)
polaris_lua_read(polaris_service_mgr_t)
polaris_tdlresolve_read(polaris_service_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_service_mgr_t)
polaris_db_tdlldb_dir_use(polaris_service_mgr_t)

# Use REPM MQIPC for replication
polaris_repm_peer_mqipc_manage(polaris_service_mgr_t)
# watches of /tmp/[rp][p][cc]/pvp/process_state directory
polaris_process_state_watch(polaris_service_mgr_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisservicemgr.te
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#
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#
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#
#
# /bootflash labels
/bootflash(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\pub gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /csl_p_0
/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_p_1.context
/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_s_0.context
/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /csl_s_1.context
/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /obfl is separate on qwlc
/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /varied
/varied(/.*)? gen_context(system_u:object_r:polaris_disk_varied_t,s0)
/varied/INSTALL_INFO gen_context(system_u:object_r:polaris_vwlinstall_info_t,s0)
/varied/obfl.* gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/varied/grub_cisco_version gen_context(system_u:object_r:polaris_grubver_t,s0)
/varied/grub(/.*)? gen_context(system_u:object_r:boot_t,s0)
/varied/grub2(/.*)? gen_context(system_u:object_r:polaris_grub_bios_t,s0)
/varied/grub/menu.* gen_context(system_u:object_r:bootloader_etc_t, s0)
/sbin/grub* gen_context(system_u:object_r:bootloader_exec_t, s0)

# /grubenv
/bootefi/(.*)? gen_context(system_u:object_r:polaris_grub_efi_t, s0)

# hanet driver used by vwlc and ultra, is there better place for it?
/dev/hanet -c gen_context(system_u:object_r:polaris_hanet_device_t, s0)

# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l gen_context(system_u:object_r:polaris_disk_csl_p_t, s0)
/lic1 -l gen_context(system_u:object_r:polaris_disk_csl_s_t, s0)

# /harddisk labels (qwlc)
/vol/harddisk/(.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t, s0)
/vol/harddisk/tracelogs/(.*)? gen_context(system_u:object_r:polaris_btrace_data_t, s0)
/vol/harddisk/tan/(.*)? gen_context(system_u:object_r:polaris_btrace_data_t, s0)
/vol/harddisk/core/(.*)? gen_context(system_u:object_r:polaris_core_file_t, s0)
/vol/harddisk/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t, s0)

# /init is symbolic link to /lib/systemd/systemd
/init  -l gen_context(system_u:object_r:init_exec_t, s0)

# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t, s0)

# /dev/epa device on qwlc
/dev/epa[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t, s0)
/dev/epactrl[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t, s0)

# /dev/luna_fpga on qwlc
/dev/luna_mbfpga -c gen_context(system_u:object_r:polaris_luna_mbfpga_device_t, s0)

# /dev/astro on qwlc
/dev/astro -c gen_context(system_u:object_r:polaris_astro_device_t, s0)

# /dev/cpp_il on qwlc
/dev/cpp_il -c gen_context(system_u:object_r:polaris_cpp_il_device_t, s0)

# /flash is symbolic link to /bootflash on qwlc
flash gen_context(system_u:object_r:polaris_disk_bootflash_t, s0)

# /dev/oob_evfc on qwlc
/dev/oob_evfc -c gen_context(system_u:object_r:polaris_oob_evfc_device_t, s0)

# /dev/sfp-ktr on katar
/dev/sfp-ktr -c gen_context(system_u:object_r:polaris_sfp_katar_device_t, s0)

# To store tcpdump output in file haIntCaptureLo.pcap
Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariswlc.fc
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#
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#

## <summary>Polaris ngwc_fed_debug Policy Rules.</summary>

shed require(`
type polaris_fed_debug_sock_t;
type polaris_ngwc_fed_debug_mgr_t;
type tmp_t;
`
)
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
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#  
### <summary>Polaris ngwc_fed Policy Rules.</summary>

#########################################################  
### <summary>  
###     Connect to and send messages to /tmp/dbgmn_log_sv unit  
### datagram socket.  
### </summary>  
### <param name="domain">  
###     <summary>  
###     Domain allowed access.  
### </summary>  
### </param>  
#  
interface('polaris_fed_sock_write',  
  gen_require(  
    type polaris_fed_sock_t;  
    type polaris_ngwc_fed_t;  
    type tmp_t;  
  )

  allow $1 self:unix_stream_socket {create_socket_perms};  
  allow $1 polaris_ngwc_fed_t:unix_stream_socket {connectto};  
  write_sock_files_pattern($1, tmp_t, polaris_fed_sock_t)  
)

#########################################################  
### <summary>  
###     Allow the specified domain able to read fed /tmp files.  
### </summary>  
### <param name="type">  
###     <summary>  
###     Domain allowed access.  
### </summary>  
### </param>  
### <param name="object">  
###     <summary>  
###     File name in /tmp that the fed domain creates and other domains  
### access.  
### </summary>
interface(`polaris_fed_tmp_files_read',
    gen_require(
        type polaris_fed_tmp_t;
    )
)
read_files_pattern($1, polaris_fed_tmp_t, polaris_fed_tmp_t)
')

interface(`polaris_fed_shm_file_read',
    gen_require(
        type polaris_ngwc_fed_t;
    )
)
allow $1 polaris_ngwc_fed_t:shm { associate read unix_read unix_write write }
')

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#
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#

/bootflash/sdavc(/.*)? gen_context(system_u:object_r:polaris_sdavc_proxy_files_t,s0)

# July 2017, Victor Kamensky
#
policy_module(polarismcp, 1.0);

# scooby device
type polaris_scooby_device_t;
dev_node(polaris_scooby_device_t)

# spa devices i.e sys_platform_module_1ng
type polaris_spa_device_t;
dev_node(polaris_spa_device_t)

# htdp device
type polaris_htdp_device_t;
dev_node(polaris_htdp_device_t)

# epaN and epactrlN devices
type polaris_epa_device_t;
dev_node(polaris_epa_device_t)

# luna_fpgs device
type polaris_luna_mbfpga_device_t;
dev_node(polaris_luna_mbfpga_device_t)

# dash fpga device (/dev/dash_fpga)
type polaris_dash_device_t;
dev_node(polaris_dash_device_t)

# astro device
type polaris_astro_device_t;
dev_node(polaris_astro_device_t)

# cpp_il device
type polaris_cpp_il_device_t;
dev_node(polaris_cpp_il_device_t)

# blzi_fpga device
type polaris_blzi_device_t;
dev_node(polaris_blzi_device_t)

# oob_evfc device
type polaris_oob_evfc_device_t;
dev_node(polaris_oob_evfc_device_t)

# ds31408 device
type polaris_ds31408_device_t;
dev_node(polaris_ds31408_device_t)

# icp_ads_ctl device
#  Note that fugazi gets this from polarisqfp module
ifndef(`fugazi_platform',`
  type polaris_icp_device_t;
  dev_node(polaris_icp_device_t)
')

type polaris_cpp_htdp_device_t;
dev_node(polaris_cpp_htdp_device_t)

type polaris_cbdma_device_t;
dev_node(polaris_cbdma_device_t)

type polaris_n2_device_t;
dev_node(polaris_n2_device_t)

type polaris_cy2213_device_t;
dev_node(polaris_cy2213_device_t)

type polaris_vega_device_t;
dev_node(polaris_vega_device_t)

# Fugazi makes use of fugazi_platform.tdl for IPCs and processes definition
# and it uses mcp_platform.tdl for databases definition. The below symbols
# are referred by mcp_platform.tdl but not fugazi_platform.tdl and hence these
# type definitions.
ifdef(`fugazi_platform',`
  type polaris_fnf_agg_t;
')

optional_policy(`
# access to /dev/icp_XXX device on asr1k platforms
  gen_require(`
    type polaris_cck_qat_t;
  ')
  polaris_icp_dev_use(polaris_cck_qat_t)
  dev_list_sysfs(polaris_cck_qat_t)
  polaris_chasfs_read(polaris_cck_qat_t)
  polaris_cpld_read(polaris_cck_qat_t)
  polaris_tdlresolve_read(polaris_cck_qat_t)
')

# Handling denial for rsync_t for socket -
# comm="rsync" path="/socket:[16784]" dev="sockfs" ino=16784
# scontext=system_u:system_r:rsync_t:s0 tcontext=system_u:system_r:init_t:s0
  gen_require(`
type rsync_t;
')
init_rw_stream_sockets(rsync_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux/selinux/polarismcp.te
No license file was found, but licenses were detected in source scan.

#
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#

# polarisnifmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux/selinux/polarisnifmgr.fc
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#

/usr/bin/vconfd_script_reboot\sh -- gen_context(system_u:object_r:polaris_vconfd_reboot_exec_t.s0)
/usr/bin/vconfd_script_if_reset\sh -- gen_context(system_u:object_r:polaris_vconfd_ifreset_exec_t.s0)
/usr/bin/vconfd_script_get_config\sh -- gen_context(system_u:object_r:polaris_vconfd_cfg_exec_t.s0)
/usr/bin/vconfd_script_vmanage_list_stats\sh --
gen_context(system_u:object_r:polaris_vconfd_history_exec_t.s0)
/usr/bin/vconfd_script_vmanage_clear_stats\sh --
gen_context(system_u:object_r:polaris_vconfd_history_exec_t.s0)
/usr/bin/vconfd_script_activate\sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t.s0)
/usr/bin/mcp_upgrade_wrapper\sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t.s0)
/usr/bin/vconfd_script_nms_action\sh -- gen_context(system_u:object_r:polaris_vconfd_nms_exec_t.s0)
/usr/bin/vconfd_script_add_chassis_numbers_to_ztp\sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t.s0)
/usr/bin/vconfd_script_remove_chassis_numbers_from_ztp\sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t.s0)
/usr/bin/vconfd_script_upload_chassis_number_file\sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t.s0)
/usr/bin/reset-conf -- gen_context(system_u:object_r:polaris_vconfd_reset_exec_t.s0)
/usr/bin/reset-logs -- gen_context(system_u:object_r:polaris_vconfd_reset_exec_t.s0)
/usr/bin/patch\sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t.s0)
Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisedge.fc

No license file was found, but licenses were detected in source scan.
policy_module(polarisngwctblmgr, 1.0);

gen_require(
    type polaris_ngwc_tbl_mgr_t;
')

  polaris_btrace_data_manage(polaris_ngwc_tbl_mgr_t)
polaris_crft_data_manage(polaris_ngwc_tbl_mgr_t)
polaris_chasfs_manage(polaris_ngwc_tbl_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_tbl_mgr_t)
polaris_tlddb_list_dirs(polaris_ngwc_tbl_mgr_t)
polaris_cpld_read(polaris_ngwc_tbl_mgr_t)
polaris_lua_read(polaris_ngwc_tbl_mgr_t)
polaris_flashlib_read(polaris_ngwc_tbl_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_tbl_mgr_t)

allow polaris_ngwc_tbl_mgr_t self:capability dac_override;

polaris_dyncfg_tmp_read(polaris_ngwc_tbl_mgr_t)

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwctblmgr.te
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#
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#
#
# /harddisk   /harddisk -> /misc/scratch
# /harddisk   gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
# /misc/scratch gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /usb0        gen_context(system_u:object_r:removable_t,s0)
# /usb1        gen_context(system_u:object_r:removable_t,s0)
# /misc/usb0   gen_context(system_u:object_r:removable_t,s0)
# /misc/usb1   gen_context(system_u:object_r:removable_t,s0)
dnl

dnl April 2018, Victor Kamensky

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dnl

dnl Process Names Map

define('process_map', `defn(format(``process_map[%s]'', `$1'))')
define('process_map_set', `define(format(``process_map[%s]'', `$1'), `$2')')

dnl Process Names and Labels

define('process_short_name', `patsubst($1, `^BPROC_', `')
define('process_default_stem', `translit(process_short_name($1), `A-Z', `a-z')')
define('process_stem', `ifelse(process_map(process_short_name($1)), `', process_default_stem($1), process_map(process_short_name($1))))'
define('process_label', `format(`polaris_%s_t', process_stem($1))')
define('process_exec_label', `format(`polaris_%s_exec_t', process_stem($1))')

dnl Process Type Map: track that type declations unique

define('process_type_map', `defn(format(``process_type_map[%s]'', `$1'))')
define('process_type_map_set', `define(format(``process_type_map[%s]'', `$1'), `$2')')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisstorage.fc
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#

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#

policy_module(polarisiosd, 1.0);

gen_require(
    type polaris_iosd_t;
    )

############################################################################
# mqipc manual, one that missing in platform tdl file
############################################################################

ifdef(`nyquist_platform',

gen_require('  
  type polaris_bt_logger_iosd_mqipc_t;
  
');

# iosd may start first and create this mqipc channel
polaris_mqipc_create_name(polaris_iosd_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)

polaris_btrace_data_manage_all(polaris_iosd_t)
polaris_chasfs_manage(polaris_iosd_t)
polaris_tdlresolve_read(polaris_iosd_t)
polaris_tdlldb_list_dirs(polaris_iosd_t)
polaris_cpld_read(polaris_iosd_t)
polaris_lua_read(polaris_iosd_t)
polaris_flashlib_read(polaris_iosd_t)
polaris_crft_data_manage_all(polaris_iosd_t)
optional_policy('  
  polaris_gnmib_gnoi_images_manage(polaris_iosd_t)
  
');
polaris_ripc_sman_ui_serv_connect(polaris_iosd_t)
polaris_db_tdlldb_dir_use(polaris_iosd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_iosd_t)

# allow iosd read/write via hostname <>
systemd_hostnamed_manage_config(polaris_iosd_t)

# creates /etc/netns/1/resolv.conf via ip domain-name <> command
# creates /etc/netns/vrf.VRFNAME via ip vfr VRFNAME command
# creates /etc/netns/vrf.VRFNAME/resolv.conf via ip
# domain-name vrf VRFNAME <> command
gen_require('  
  type net_conf_t;
  
');
files_etc_filetrans(polaris_iosd_t, net_conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_iosd_t, net_conf_t, file, "hosts")
files_etc_filetrans(polaris_iosd_t, net_conf_t, dir, "netns")
sysnet_manage_config(polaris_iosd_t)
sysnet_manage_config_dirs(polaris_iosd_t)

# for pluggable FS, allow iosd to access files on them.
polaris_getattr_removable(polaris_iosd_t)
polaris_removable_manage(polaris-iosd_t)
fs_read_removable_symlinks(polaris_iosd_t)

polaris_lsmpi_dev_use(polaris_iosd_t)
polaris_lsmpi_sysctl_read(polaris_iosd_t)
polaris_cfg_data_manage(polaris_iosd_t)
polaris_proc_rmonbifo_read(polaris_iosd_t)

polaris_icc_broken_relocations(polaris_iosd_t)

allow polaris_iosd_t self:capability { sys_nice chown fsetid sys_rawio dac_overide dac_read_search ipc_lock };

gen_require(' type httpd_config_t;
type tmp_t;
')

# iosd creates /tmp/nginx.conf file
manage_files_pattern(polaris_iosd_t, tmp_t, httpd_config_t)
# transition nginx.conf into httpd_config_t
files_tmp_filetrans(polaris_iosd_t, httpd_config_t, file, "nginx.conf")
# RW access to /usr/binos/conf/nginx-conf/servers (utd feature)
manage_dirs_pattern(polaris_iosd_t, httpd_config_t, httpd_config_t)

#iosd create /tmp/nginx/cert/ca.cert
polaris_nginx_tmp_manage(polaris_iosd_t)

# !!!LOOK AT ME!!! - we allow iosd to read raw memory
# dev_read_raw_memory(polaris_iosd_t)

polaris_flashlib_write(polaris_iosd_t)
polaris_nvram_manage(polaris_iosd_t)
polaris_persistent_manage(polaris_iosd_t)

# smu management in iosd (linked in via libberdu.so) accesses
# files created by the installer under /tmp/patch
polaris_install_tmp_read(polaris_iosd_t)

optional_policy(' polaris_cpp_tmp_ifdev_use(polaris_iosd_t)
')

polaris_dyncfg_tmp_read(polaris_iosd_t)

# lsmpi_fetch_linux_ifindex tries to ioctl(skfd, SIOCGIFINDEX, &ifr) on
# non existent ethN interface, as result kernel triggers attempt to
# load kernel module that would correspond to such interface. Deny
# and don't audit iosd_t attempt to load kernel modules.
# LOOK AT ME: in long term we don't want iosd even try to load modules
# and we would actually would want to report and fail such
kernel_dontaudit_request_load_module(polaris_iosd_t)
iosd calls nice function to change fast path priority (mcp_fastpath_thread_func)
allow polaris_iosd_t self:process setsched;

ifdef(‘crankshaft_family’,
ifconfig_attach_tun_iface(polaris_iosd_t)
corenets_tap_dev(polaris_iosd_t)
)

ifdef(‘mcp_family’,
ifconfig_attach_tun_iface(polaris_iosd_t)
corenets_tap_dev(polaris_iosd_t)
allow polaris_iosd_t polaris_iosd_t:tun_socket relabelfrom;
)

# on ultra iosd is figuring out parameters of interfaces of underlying
# hypervisors kvm, vmware, etc. See vxe_gethd_ifdb_scan
ifdef(‘crankshaft_family’,
dev_rw_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
)
ifdef(‘vxe_family’,
dev_read_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
polaris_objstore_sem_use(polaris_iosd_t)
)
ifdef(‘vwlc_platform’,
polaris_disk_objstore_manage(polaris_iosd_t)
opt_policy(
polaris_vwlc_grub_efi_use(polaris_iosd_t)
)
)
ifdef(‘wlc_family’,
dev_read_sysfs(polaris_iosd_t)
polaris_tlsced_uds_manage(polaris_iosd_t)
gen_require(
type polaris_tlsced_t;
)
allow polaris_iosd_t polaris_tlsced_t:unix_dgram_socket sendto;
)

# on 1ng mcpcc-lc-ms reads /sys/devices/system/cpu/online
ifdef(‘mcp_family’,
dev_read_sysfs(polaris_iosd_t)
)

# neptune need to figure fan type by reading
#/sys/bus/platform/devices/nios/h2h_fan_ctrl_fan_tray_status
ifdef(‘neptune_platform’,
dev_read_sysfs(polaris_iosd_t)
)
# radium need to figure fan type by reading
# /sys/bus/platform/devices/nios/n2h_fan_ctrl_fan_tray_status
ifdef(`radium_platform',`
    dev_read_sysfs(polaris_iosd_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`quake_platform',`
    dev_read_sysfs(polaris_iosd_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`supernova_platform',`
    dev_read_sysfs(polaris_iosd_t)
')

# work with /tmp/boottime, /tmp/booted files: create/write
type polaris_iosd_tmp_files_t;
files_tmp_file(polaris_iosd_tmp_files_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, file, "boottime")
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, file, "booted")
create_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)

#allow polaris_iosd_t polaris_udev_tmp_files_t:dir { getattr open read search };
#allow polaris_iosd_t polaris_udev_tmp_files_t:file { open, read, write };
# LOOK AT ME (need to review write access with iosd team)
polaris_udev_tmp_manage(polaris_iosd_t)

# work with /tmp/restconf
type polaris_restconf_tmp_t;
files_tmp_file(polaris_restconf_tmp_t)
polaris_restconf_tmp_use(polaris_iosd_t)
files_tmp_filetrans(polaris_iosd_t, polaris_restconf_tmp_t, dir, "restconf")
filetrans_pattern(polaris_iosd_t, polaris_restconf_tmp_t, polaris_restconf_tmp_t, file)

# work with /tmp/netio0
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, dir, "netio0")
# sockets and dirs created under /tmp/netio0
manage_dirs_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
manage_sock_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
allow polaris_iosd_t self:unix_dgram_socket create_socket_perms;

gen_require(`
    type inetd_child_t;
    '
')
# sendto permission for /tmp/netio0/ttyC100
allow polaris_iosd_t inetd_child_t:unix_dgram_socket sendto;

polaris_socketat_nsfs_read(polaris_iosd_t)
# onep uses TIPC sockets see onep_tipc_transport_start
allow polaris_iosd_t self:socket { bind create listen accept getattr read ioctl getopt setopt };

# mcp_eobc_create_socket creates UDP socket for eobc
corenet_udp_bind_polaris_iosd_eobc_port(polaris_iosd_t)
gen_require(
    type node_t;
)
allow polaris_iosd_t node_t:udp_socket node_bind;
allow polaris_iosd_t self:udp_socket { bind create ioctl setopt read write };

# direct access to serial TTY devices like /dev/ttyS1
term_use_unallocated_ttys(polaris_iosd_t)

# on ultra cvac_load_config function tried to access cdrom0:/iosxe_config.txt
# and if exists read
ifdef(`vxe_family',`
fs_read_iso9660_files(polaris_iosd_t)
')
ifdef(`wlc_family',`
fs_read_iso9660_files(polaris_iosd_t)
')

# ifs_get_free_bytes invokes mcp_fs_stats and eventually mcp_wrapper_statvfs
# with "/bootflash"...this needs attr access for "/"
fs_getattr_xattr_fs(polaris_iosd_t)

# iosd works with cpp /dev/shm/cpifdev_shmem shared mmory
optional_policy(`
polaris_cpp_tmpfs_ifdev_rw(polaris_iosd_t)
')

# iosd reads/writes into grubenv for confreg
optional_policy(`
polaris_grub_efi_use(polaris_iosd_t)
')

# when /bootflash or /harddisk are 100% full
allow polaris_iosd_t self:capability sys_resource;

# mcp_set_clock wants to call settimeofday
allow polaris_iosd_t self:capability sys_time;

# Need this for bluetooth to work. HCI library uses this
allow polaris_iosd_t self:capability net_raw;

ifdef(`mcp_family',`
polaris_obfl_data_read(polaris_iosd_t)
)

# iosd uses quack on mcp and crankshaft and ngwc
ifdef(`mcp_family',`
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`crankshaft_family',`
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`ngwc_family',`
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`qwlc_platform',`
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`katar_platform',`
  polaris_quack_dev_use(polaris_iosd_t)
')

ifdef(`mcp_family',`
  polaris_spa_dev_use(polaris_iosd_t)
  polaris_sysfs_platform_dev_use(polaris_iosd_t)
')

# on 1ng write/ioctl into /dev/cpld-ha
# on vwlc ha scenario, iosd needs write access to /dev/cpld-ha
optional_policy(`
  polaris_cpld_dev_use(polaris_iosd_t)
')

# deals with /dev/shm files semaphors; like uuid_sem semaphore
# created by btrace_get_uuid function
type polaris_iosd_tmpfs_t;
files_tmpfs_file(polaris_iosd_tmpfs_t)
fos_tmpfs_filetrans(polaris_iosd_tmpfs_t, file)
manage_files_pattern(polaris_iosd_t, tmpfs_t, polaris_iosd_tmpfs_t)
optional_policy(`
  polaris_iodb_tmpmanage(polaris_iosd_t)
')

# on ngwc FIPS code reads /tmp/hw_entropy
# seems like iosd can delete the file as well
polaris_hw_entropy_create(polaris_iosd_t)

optional_policy(`
# on macallan iosd needs to access /dev/cpld
polaris_cpld_dev_read(polaris_iosd_t)
')

# on tsn iosd needs write access to
# sys/devices/platform/cpld/reg_rp_reset_button_status
# sys/devices/platform/cpn-110-master DSR/DTR status
ifdef(`crankshaft_family',`
type polaris_quake_i2c_t;

polaris_cpld_write(polaris_iosd_t)
polaris_ggpio_dev_read_write(polaris_iosd_t)
polaris_quake_i2c_manage(polaris_iosd_t)
')

ifdef(`katar_platform',`
polaris_cpld_write(polaris_iosd_t)
')

# on tsn iosd needs access to /sys/devices/platform/moka_fpga
#/sys/devices/platform/moka_fpga/led_status
optional_policy(`
polaris_mokafpga_rw(polaris_iosd_t)
')

# iosd reads /tmp/iosd_level
polaris_lm_tmp_read(polaris_iosd_t)

# iosd needs manage_dirs, manage_files and manage_lnk
# permissions at `'/tmp/ufs/lic0/<remote_ip>/*'
optional_policy(`
polaris_ncd_tmp_manage(polaris_iosd_t)
')

# access NFS mounted directories from other nodes or members
fs_getattr_nfs(polaris_iosd_t)

# mcp/mcprp/if_unix_se.c code works with /sys/devices/virtual/contdev
# files and /proc/net/dev
polaris_manage_contdev_dev(polaris_iosd_t)
kernal_read_network_state(polaris_iosd_t)

# iosd creates /tmp/iox_xml.dat file
optional_policy(`
polaris_iox_manage_tmp_files(polaris_iosd_t)
')

polaris_caf_var_run_files_manage(polaris_iosd_t)
container_read_lib_files(polaris_iosd_t)

# work with files like /tmp/tmp.shell_exec.5B1BF1D7648E21AEE3000002
# work with files like /tmp/rp.shell_exec.5B1BF1D7648E21AEE3000002
files_tmp_file(polaris_iosd2iox_tmp_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosd2iox_tmp_t, file)
polaris_iosd2iox_tmp_manage(polaris_iosd_t)
# work with response
optional_policy({
    polaris_iox2iosd_tmp_manage(polaris_iosd_t)
})

polaris_sandbox_file_dir_list(polaris_iosd_t)

# lfts 2.0 iosd provides route information to kernel. it talks
# using generic netlink family socket. See iosd bsock_sar_netlink_process
# process
allow polaris_iosd_t self:netlink_generic_socket create_socket_perms;
allow polaris_iosd_t self:netlink_socket create_socket_perms;

# LOOK AT ME
# on nyquist iosd accesses files like lic0-2:/sanosync.data.readLock
# from saLockCheck function and it happens just right after lic0-2 was
# mounted over NFSv4. It seems that labels from remote node did not
# take an effect yet. For now allow access to dir and files that
# are not yet labeled.
ifdef(`nyquist_platform',`
    files_manage_isid_type_dirs(polaris_iosd_t)
    files_manage_isid_type_files(polaris_iosd_t)
')

ifdef(`ngwc_family',`
polaris_getattr_filesystem_disk_ucode(polaris_iosd_t)
#policy needed for accessing sys/bus/usb/drivers/usb/*/authorized
dev_rw_sysfs(polaris_iosd_t)
')

ifdef(`passport_platform',`
polaris_cm_rp_tmp_manage(polaris_iosd_t)
')

polaris_lfts_dev_use(polaris_iosd_t)

# /dev/shm/vrf_shm access for show command
polaris_vrf_shm_manage(polaris_iosd_t)

# /dev/shm/sdm access
optional_policy("
polaris_sdm_shm_manage(polaris_iosd_t)

')

# iосd needs access to logging facility
logging_send_syslog_msg(polaris_iosd_t)

# iосd need access to /webui/*.odm files
polaris_read_webui_files(polaris_iosd_t)

# allow getting bins networking stats AF_NETLINK
allow polaris_iosd_t self:netlink_route_socket rw_netlink_socket_perms;

# confd needs to talk with IOSd via real linux udp snmp socket
allow polaris_iosd_t self:udp_socket { create_socket_perms recv_msg send_msg };
corenet_udp_bind_snmp_port(polaris_iosd_t)

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphor created by qfp process
ifdef(`vxe_family',`
polaris_qfp_sem_use(polaris_iosd_t)
')
ifdef(`wlc_family',`
polaris_qfp_sem_use(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenw_tun_tap_dev(polaris_iosd_t)
')

# lsmpi replacement punt/inject over domain sockets
ifdef(`vxe_family',`
polaris_pi_uds_manage(polaris_iosd_t)
polaris_qfp_dgram_send(polaris_iosd_t)
corenw_tun_tap_dev(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
')

# CSR when operating in VGA mode uses /dev/tty0 as the console for the system
# (including IOSD). IOSD setup scripts pass in the tty device(s) to use in the
# REAL_CONSOLE and REAL_AUX environment variables. IOSD configures the tty
# for its operation and hence need the capability.
allow polaris_iosd_t self:capability sys_tty_config;

# LOOK AT ME: hot patch upon a reboot requires execmem operation - which
# currently is not allowed. Remove the following policy when CSCvq59763
# has been completed.
allow polaris_iosd_t self:process execmem;
# /dev/epaN on qwlc/asr1k(mcp)
optional_policy(
  polaris_epa_dev_use(polaris_iosd_t)
)

# /dev/qae_mem device access on overlord
optional_policy(
  polaris_qae_dev_use(polaris_iosd_t)
)

# ioucon binary invoked on standby console attach.
polaris_ioucon_dgram_send(polaris_iosd_t)

# usb device requires read permissions.
kernel_read_debugfs(polaris_iosd_t)

# iosd requires access to /tmp/sv
ifdef(`ngwc_family',`
polaris_sv_tmp_use(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
')
polaris_i2c_use(polaris_iosd_t)

# on CSR AWS deployment iosd needs read access to /dev/console
term_read_console(polaris_iosd_t)

# On vxe platforms the cloudint config is stored in /varied. We need
# to be able to read it.
ifdef(`vxe_family',`
polaris_disk_varied_read(polaris_iosd_t)
')

# In stacked and ha setup secondary SUP bootflash and hardisk
# are mounted on active and is accessed by iosd.
polaris_getattr_bootflash(polaris_iosd_t)
polaris_getattr_harddisk(polaris_iosd_t)

# read access to /dev/random
dev_read_rand(polaris_iosd_t)

# Allow access of /tmp/maroon_stats files
polaris_maroon_data_manage_all(polaris_iosd_t)

#access to /dev/bp_async device on nanook platform
optional_policy(
polaris_bp_async_dev_use(polaris_iosd_t)
)
# Permission for access file attribute to list the file info
polaris_caf_tmp_files_getattr(polaris_iosd_t)

# DB persistence
polaris_tdldbpersist_setup(polaris_iosd_t)
polaris_tmp_tdldb_persist_setup(polaris_iosd_t)

# IOSCC needs access to /mnt/firmware for intelligent spa during bootup
polaris_firmware_read(polaris_iosd_t)

# On Sparrow platform: IOSd requires access to /dev/remap_mem0
# and /dev/usb_console for OOB management
# Also allows access to /dev/sparrow_psu and /dev/net/tun
# /dev/shm/sem._dev_i2c_0 sempaphor
ifdef('sparrow_platform',
    gen_require(''
        type polaris_cm_cc_tmpfs_t;
    ')
polaris_remap_mem_dev_use(polaris_iosd_t)
term_use_usb_ttys(polaris_iosd_t)
polaris_sparrow_psu_dev_use(polaris_iosd_t)
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenctrw_tun_tap_dev(polaris_iosd_t)
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

# On Blackheart platform: /dev/shm/sem._dev_i2c_0 sempaphor
# Allow access to /tmp/udev/etc/udev/msata/udev-info and /dev/net/tun
# Allow access to /dev/remap_mem0 for alarm port
ifdef('blackheart_platform',
    gen_require(''
        type polaris_cm_cc_tmpfs_t;
    ')
polaris_udev_access(polaris_iosd_t)
polaris_remap_mem_dev_use(polaris_iosd_t)
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenctrw_tun_tap_dev(polaris_iosd_t)
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cm_tmpks_t)
')

# handle /tmp/rp/.iosp_client_app token
type polaris_iosp_client_app_token_t;
files_tmp_file(polaris_iosp_client_app_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosp_client_app_token_t, file, ".iosp_client_app")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_app_token_t, polaris_iosp_client_app_token_t)

# handle /tmp/rp/.iosp_client_dmi token
type polaris_iosp_client_dmi_token_t;
files_tmp_file(polaris_iosp_client_dmi_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosp_client_dmi_token_t, file, ",.iosp_client_dmi")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_dmi_token_t, polaris_iosp_client_dmi_token_t)

# handle /tmp/rp/.iosp_dmiauthd token
type polaris_dmiauthd_token_t;
files_tmp_file(polaris_dmiauthd_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_dmiauthd_token_t, file, ",.iosp_dmiauthd")
manage_files_pattern(polaris_iosd_t, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)

# handle /tmp/rp/.iosp_gnmib token
type polaris_gnmib_token_t;
files_tmp_file(polaris_gnmib_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_gnmib_token_t, file, ",.iosp_gnmib")
manage_files_pattern(polaris_iosd_t, polaris_gnmib_token_t, polaris_gnmib_token_t)

polaris_udev_tmp_watch(polaris_iosd_t)

# Interfaces needed for Aventus platform, allow access to
# /dev/shm/sem._dev_i2c_0 sempaphor
# /dev/usb_console for OOB management
# /dev/net/tun
# brctl process needs access to fifo_file
ifdef(`aventus_platform',`
gen_require(`
  type brctl_t;
  type polaris_pman_t;
  type polaris_cm_cc_tmpfs_t;
  type ifconfig_t;
  type polaris_i2c_device_t;
')
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenets_rtw_tun_tap_dev(polaris_iosd_t)
term_use_usb_ttys(polaris_iosd_t)
allow brctl_t polaris_pman_t:fifo_file append;
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
allow ifconfig_t polaris_i2c_device_t:chr_file { read write };
')

# allow access and modify files in /tftp/inv directory
# TODO Need to revisit this for further analysis
ifdef(`mcp_family',`
gen_require(`


type tftpdir_rw_t;
')
read_files_pattern(polaris_iosd_t, tftpdir_rw_t, tftpdir_rw_t)
')

# allow access and modify awips file in /bootflash
gen_require('  type polaris_awips_signature_file_t;
')
filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
allow polaris_iosd_t polaris_awips_signature_file_t:file { write create read open getattr unlink};

# handle geodb file access
  type polaris_geodb_files_t;
  polaris_disk_type(polaris_geodb_files_t)
filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_geodb_files_t, dir, ".geo")
filetrans_pattern(polaris_iosd_t, polaris_disk_harddisk_t, polaris_geodb_files_t, dir, ".geo")
polaris_geodb_files_manage(polaris_iosd_t)

# handle /var/ip_local_port_range
  type polaris_ip_linux_port_var_t;
files_tmp_file(polaris_ip_linux_port_var_t)
files_var_filetrans(polaris_iosd_t, polaris_ip_linux_port_var_t, file, "ip_local_port_range")

# linux_iosd-imag access to file /var/ip_local_port_range
manage_files_pattern(polaris_iosd_t, var_t, polaris_ip_linux_port_var_t)

# Allow access to /bootflash/certs
  polaris_wlc_ap_cert_manage(polaris_iosd_t)

# command "ls" on /var/ip_local_port_range
gen_require('  type polaris_shell_t;
')
allow polaris_shell_t polaris_ip_linux_port_var_t:file getattr;

# handling /boot/vcpu_template.txt or /csl_p_0/vcpu_template.txt file
# created by iosd by platform resource config command
  type polaris_iosd_vcpu_t;
files_type(polaris_iosd_vcpu_t)
gen_require('  type polaris_disk_csl_p_t;
  type polaris_disk_varied_t;
')
filetrans_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t, file, "vcpu_template.txt")
manage_files_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t)
# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_iosd_t)
fs_search_cgroup_dirs(polaris_iosd_t)

# for Dynamic Core Allocation IOSd needs write access to cpu sets/shares
ifdef('crankshaft_family',
    fs_write_cgroup_files(polaris_iosd_t)
')

# sdwan_admintech_generate() creates admintech and admintech_trace files
gen_require(
    type polaris_admin_tech_data_t;
')
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin_tech_data_t, file, "admintech")
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin_tech_data_t, file, "admintech_trace")

filetrans_pattern(polaris_iosd_t, polaris_chasfs_t, polaris_admin_tech_data_t, file, "ios_admintech_done")
filetrans_pattern(polaris_iosd_t, polaris_chasfs_t, polaris_admin_tech_data_t, file, "ios_admintech_request")
polaris_admin_tech_data_manage(polaris_iosd_t)

# with "/bootflash"...this needs attr to access for logfile
polaris_user_file_getattr(polaris_iosd_t)
allow polaris_iosd_t polaris_user_file_t:file { open unlink};

#=======================================================
# petra platform
ifdef('petra_platform',
    # iosd need access to petra fpga
    polaris_iots_fpga_dev_use(polaris_iosd_t)
    # iosd need access to memory devices
    polaris_iots_tm_dev_use(polaris_iosd_t)
    #allow map permission for /dev/shm/TM_A53_APIS
    allow polaris_iosd_t polaris_iots_tmpfs_t:file map;
    #allow access to polaris_cm_rp_t sem
    polaris_cm_rp_sem_use(polaris_iosd_t)
    #allow access to userio
    dev_rw_userio_dev(polaris_iosd_t)
    allow polaris_iosd_t userio_device_t:chr_file { map };
    #iosd need access to sysfs
    dev_rw_sysfs(polaris_iosd_t)
    allow polaris_iosd_t sysfs_t:file { create map };
    dev_manage_sysfs_dirs(polaris_iosd_t)
    # iosd need access to sdflash files image is stored
    polaris_swipedrive_file_manage(polaris_iosd_t)
polaris_getattr_swipedrive(polaris_iosd_t)
    #iosd need access to mmcblk0p3
    gen_require(
        type polaris_disk_recovery_t;
    ')
    allow polaris_iosd_t polaris_disk_recovery_t:filesystem getattr;
    #iosd need access to mmcblok0p2
    polaris_getattr_filesystem_disk_ucode(polaris_iosd_t)
# iosd need access to /dev/mvDmaDrv
polaris_mvDmaDrv_dev_use(polaris_iosd_t)
# iosd need access to /dev/mvIntDrv
polaris_mvIntDrv_dev_use(polaris_iosd_t)
# iosd need permission for LED
polaris_led_dev_use(polaris_iosd_t)
# iosd need access to rawip socket by initscripts/rc.d/init.d/iptables
allow polaris_iosd_t self:rawip_socket create_socket_perms;
# iosd needs access to /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_iosd_t)
# iosd need permission to /dev/rtc0 done via imsp_update_sw_hwclock()
dev_rw_realtime_clock(polaris_iosd_t)
)
# work with /tmp/usb-disable: create/write
type polaris_iosd_usb_disable_tmp_t;
files_tmp_file(polaris_iosd_usb_disable_tmp_t);
polaris_iosd_usb_disable_tmp_manage(polaris_iosd_t)
ifdef(`ngwc_family',`
# SELINUX Mismatch warning when doing power redundancy configuration commands
# Allow access /bootflash/nplusm-power
polaris_nplusm_power_manage(polaris_iosd_t)
')
optional_policy(`
   polaris_efi_files_list_dirs(polaris_iosd_t)
')

# work with /dev/shm/mq.-iosd_to_timingd
type polaris_iosd_timing_mqipc_t;
polaris_mqipc_type(polaris_iosd_timing_mqipc_t)
polaris_mqipc_create_name(polaris_iosd_t, polaris_iosd_timing_mqipc_t, iosd_to_timingd)

# watch /tmp
allow polaris_iosd_t tmp_t:dir watch;

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisiosd.te
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#
# August 2017, Victor Kamensky
#
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#

policy_module(polarisflashcheck, 1.0);

gen_require(
    type polaris_flashcheck_t;
')

# allow read of /etc/passwd
auth_use_nsswitch(polaris_flashcheck_t)

corecmd_exec_bin(polaris_flashcheck_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_flashcheck_t)

# uses pidof
domain_read_all_domains_state(polaris_flashcheck_t)
dev_read_sysfs(polaris_flashcheck_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_flashcheck_t)
polaris_btrace_data_manage(polaris_flashcheck_t)
polaris_chasfs_manage(polaris_flashcheck_t)
polaris_cpld_read(polaris_flashcheck_t)
polaris_read_debug_conf(polaris_flashcheck_t)
polaris_boot_tmp_read(polaris_flashcheck_t)
logging_send_syslog_msg(polaris_flashcheck_t)

# directly output to /dev/ttyS0
term_use_unallocated_ttys(polaris_flashcheck_t)
polaris_bootflash_read(polaris_flashcheck_t)

allow polaris_flashcheck_t self:capability [ sys_resource dac_override ];

# pidof needs below
allow polaris_flashcheck_t self:capability sys_ptrace;

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_flashcheck_t)

# access of crashinfo dir for flash_check.sh, it does source of pglobals.sh
# which needs access to /crashinfo
polaris_disk_crashinfo_getattr(polaris_flashcheck_t)

# this is for NFS access mounted in a dir of ncd context
optional_policy(
    polaris_ncd_tmp_read(polaris_flashcheck_t)
)

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#

policy_module(polarisepcwsliaison, 1.0);

gen_require(
    type polaris_epc_ws liaison_t;
    
)
polaris_btrace_data_manage(polaris_epc_ws liaison_t)
polaris_crft_data_manage(polaris_epc_ws liaison_t)
polaris_chasfs_manage(polaris_epc_ws liaison_t)
polaris_tdlresolve_read(polaris_epc_ws liaison_t)
polaris_tdlldb_list_dirs(polaris_epc_ws liaison_t)
polaris_cpld_read(polaris_epc_ws liaison_t)
polaris_flashlib_read(polaris_epc_ws liaison_t)
polaris_ripc_sman_ui_serv_connect(polaris_epc_ws liaison_t)

allow polaris_epc_ws liaison_t self:capability { dac_override }; 

# tshark invoked by epc_ws liaison needs to map /etc/passwd file.
auth_map_passwd(polaris_epc_ws liaison_t)

# access to execute /sbin/tshark
corecmd_exec_bin(polaris_epc_ws liaison_t)

# dumpcap needs access to net dir in sysfs
dev_read_sysfs(polaris_epc_ws liaison_t)

# comm="dumpcap" kmod="net-pf-16,proto-12"
kernel_dontaudit_request_load_module(polaris_epc_ws liaison_t)

# write pcap files to /bootflash
polaris_bootflash_manage(polaris_epc_ws liaison_t)
# epc_ws_liaison and ngwc-fed pipe interaction
polaris_fed_shm_file_read(polaris_epc_ws_liaison_t)

# for pluggable FS, allow epc liaison to access files on them.
polaris_removable_manage(polaris_epc_ws_liaison_t)

# tshark and dumpcap runtime requirements
allow polaris_epc_ws_liaison_t self:capability { net_raw setgid setuid };
allow polaris_epc_ws_liaison_t self:netlink_netfilter_socket create;
allow polaris_epc_ws_liaison_t self:netlink_route_socket { bind createattr nlmsg_read };
allow polaris_epc_ws_liaison_t self:packet_socket { bind create getopt ioctl map setopt };
allow polaris_epc_ws_liaison_t self:process setcap;
allow polaris_epc_ws_liaison_t self:unix_dgram_socket { create ioctl };
allow polaris_epc_ws_liaison_t self:udp_socket { create ioctl };

# /tmp/lsn.log and /tmp/epc_ws (WS_TMP_FOLDER)
type polaris_epc_ws_liaison_tmp_t;
files_tmp_file(polaris_epc_ws_liaison_tmp_t)
files_tmp_filetrans(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, { file dir })
manage_dirs_pattern(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
manage_files_pattern(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
manage_fifo_files_pattern(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)

########################################################################
# CLI: show platform software wireshark show
########################################################################
polaris_utility_domain_template(wireshark_show)
polaris_bexecute_domain(polaris_wireshark_show_t, polaris_wireshark_show_exec_t)
polaris_chasfs_manage(polaris_wireshark_show_t)
corecmd_exec_bin(polaris_wireshark_show_t)

# map /etc/passwd
auth_map_passwd(polaris_wireshark_show_t)

# open, read, getattr pcap files
polaris_bootflash_read(polaris_wireshark_show_t)

# write into pipe that smand created for us with popen
polaris_smmand_use_fifo(polaris_wireshark_show_t)
corecmd_exec_shell(polaris_wireshark_show_t)

# sys file /sys/devices/system/cpu/online
dev_read_sysfs(polaris_wireshark_show_t)

# tshark and dumpcap runtime requirements
allow polaris_wireshark_show_t self:capability { setgid setuid net_admin };  
allow polaris_wireshark_show_t self:netlink_netfilter_socket create;  
allow polaris_wireshark_show_t self:netlink_route_socket { bind create getattr nlmsg_read };  
allow polaris_wireshark_show_t self:process setcap;  
allow polaris_wireshark_show_t self:udp_socket { create ioctl };  
allow polaris_wireshark_show_t self:unix_dgram_socket { create ioctl };  

#dumpcap needs access "/tmp/epc_ws/wif_to_ts_pipe" fifo file  
polaris_epc_ws_liaison_fifo_read(polaris_wireshark_show_t)  

# comm="dumpcap" kmod="net-pf-16,proto-12"  
kernel_request_load_module(polaris_wireshark_show_t)  

#/tmp/*.pcapng  
type polaris_wireshark_show_tmp_t;  
files_tmp_file(polaris_wireshark_show_tmp_t);  
files_tmp_filetrans(polaris_wireshark_show_t, polaris_wireshark_show_tmp_t, file)  
polaris_wireshark_show_tmp.manage(polaris_wireshark_show_t)  

Found in path(s):  
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisepcwsliaison.te  
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dnl  
dnl April 2018, Victor Kamensky  
dnl  
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dnl  
define(`polaris_mqipc_service_server_aux',`dnl  
type $1;  
polaris_mqipc_type($1)  
polaris_mqipc_$2_create_name($3))  

define(`polaris_mqipc_service_server',`dnl  
polaris_mqipc_service_server_aux(mqipc_label($1), mqipc_stem($1), process_label($2))dnl ')  

define(`polaris_mqipc_service_client_aux',`dnl  
polaris_mqipc_$2_use($3))  

define(`polaris_mqipc_service_client',`dnl  
polaris_mqipc_service_client_aux(mqipc_label($1), mqipc_stem($1), process_label($2))dnl ')  

define(`polaris_mqipc_service_server_elastic_client',')  

Found in path(s):
policy_module(polariswncd, 1.0);

gen_require(`
    type polaris_wncd_t;
`)

polaris_btrace_data_manage(polaris_wncd_t)
polaris_crft_data_manage(polaris_wncd_t)
polaris_chasfs_manage(polaris_wncd_t)
polaris_tdlresolve_read(polaris_wncd_t)
polaris_tdlldb_list_dirs(polaris_wncd_t)
polaris_cpld_read(polaris_wncd_t)
polaris_lua_read(polaris_wncd_t)
polaris_flashlib_read(polaris_wncd_t)

polaris_ripc_sman_ui_serv_connect(polaris_wncd_t)

polaris_db_tdlldb_dir_use(polaris_wncd_t)

# wncd need setrlimit to change limit of resource
allow polaris_wncd_t self:process setrlimit;
allow polaris_wncd_t self:capability sys_resource;

# allow tcp connection from http port
allow polaris_wncd_t self:capability net_bind_service;
corenets_tcp_bind_http_port(polaris_wncd_t)

# allow udp for dhcpd
corenet_udp_bind_dhcpd_port(polaris_wncd_t)
corenets_udp_bind_generic_node(polaris_wncd_t)
allow polaris_wncd_t self:udp_socket { create_socket_perms recv_msg send_msg };

# allow AF_PACKET
allow polaris_wncd_t self:capability net_raw;
allow polaris_wncd_t self:packet_socket { create_socket_perms recv_msg send_msg };

# required in function ewlc_capwap_dgram_srvr_state_update()
allow polaris_wncd_t self:rawip_socket { create_socket_perms setopt ioctl };

* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_te.m4
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#
# August 2017, Shawn Lu
#
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#

corenet_raw_bind_generic_node(polaris_wncd_t)

gen_require(
    type port_t;
')
allow polaris_wncd_t port_t:rawip_socket name_bind;

#allow to read /etc/passwd
auth_use_nsswitch(polaris_wncd_t)

#stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_wncd_t)
polaris_socketat_nsfs_read(polaris_wncd_t)

#each instance of wncd has a devshell support
corenets_tcp_bind_polaris_wncd_devshell_port(polaris_wncd_t)

# extra instances of wncd do set up cyan database for given elastic number
polaris_dynconfig_setup(polaris_wncd_t)

allow polaris_wncd_t self:capability dac_override;

# wncd does ionotify for /bootflash/apple_device_map.xml file in
# wsa_notif_register_filepath function
polaris_bootflash_read(polaris_wncd_t)
polaris_persistent_watch(polaris_wncd_t)

# manage pem certificates on /bootflash
polaris_persistent_manage(polaris_wncd_t)

# for /dev/shm/cerrno_dll
polaris_cerr_shm_manage(polaris_wncd_t)

########################################################################
# For ewlc, wncd and wncmgrd needs access to files under /mnt/images/...these
# are related to AccessPoint images
########################################################################

type polaris_wlc_ap_images_t;
files_type(polaris_wlc_ap_images_t)

# wncd calls ewlc_get_ap_sw_version() to open/read
# /tmp/sw/rp/0/0/rp_wlc/mount/mnt/images/ap.pri/version.info
# call-chain: main -> ewlc_app_context_init -> wncd_evlib_app_init_cb ->
# ewlc_capwapac_lib_init -> capwapac_init_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wncd_t)
polaris_odm_clnt2svr_mqipc_create(polaris_wncd_t)

# wncd works with AF_NETLINK NLMSG_APP_SIP ewlc_sip_netlink_sock_init
allow polaris_wncd_t self:netlink_socket create_socket_perms;

logging_send_syslog_msg(polaris_wncd_t)

# binds to mdns port from mdns_ipv4_socket_init function
corenet_udp_bind_mdns_port(polaris_wncd_t)

# bind CAPWAP control and data
corenet_udp_bind_polaris_capwap_ctr_port(polaris_wncd_t)
corenet_udp_bind_polaris_capwap_data_port(polaris_wncd_t)

#allow read/write/mmap access to awips file
gen_require(`
type polaris_awips_signature_file_t;
')
allow polaris_wncd_t polaris_awips_signature_file_t:file { map read open getattr unlink};

# allow read / write / unlink access to /bootflash/certs
polaris_wlc_ap_cert_manage(polaris_wncd_t)

# wncd ewlc-lisp interaction module, connect to lisp map-server on port 4342
corenet_tcp_connect_lisp_cons_control_port(polaris_wncd_t)

# binds to mdns bcp port from mdns_bcp function
corenet_udp_bind_mdns_bcp_port(polaris_wncd_t)

#DB persistence
polaris_tldbpersist_setup(polaris_wncd_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariswncd.te
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##

## <summary>Polaris periodic Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisperiodic.if
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#
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#
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#

policy_module(polaris_bhytoolsd, 1.0);

polaris_process_domain_template(bhytoolsd)

polaris_btrace_data_manage(polaris_bhytoolsd_t)
polaris_chasfs_manage(polaris_bhytoolsd_t)
polaris_cpld_read(polaris_bhytoolsd_t)

# vmtoolsd transits from polaris_bhytoolsd_t to vmtools_t -
# bhytoolsd is small wrapper that calls vmtoolsd
vmtools_domtrans(polaris_bhytoolsd_t)

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaris_bhytoolsd.te
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#
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#
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#

/usr/bin/os/sbin/ncsshd -- gen_context(system_u:object_r:polaris_dmi_ncsshd_mgmt_exec_t,s0)
/var/run/ncsshd_mgmt.pid -- gen_context(system_u:object_r:polaris_dmi_ncsshd_mgmt_var_run_t,s0)

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polaris_dmincsshdmgmt.fc
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#
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#
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#

# polarisrogued file contexts place holder
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define('polaris_ripc_service_server_aux',
dnl polaris_ripc_\$2_bind($3)
polaris_ripc($3)
')

define('polaris_ripc_service_server_full',
dnl polaris_ripc_service_server_aux(ripc_label($1), ripc_stem($1), process_label($2))
')

define('polaris_ripc_service_server',
dnl ifelse(ripc_type_map($1), ', ', 'polaris_ripc_service_server_full($1, $2, $3, $4, $5)')
ripc_type_map_set(ripc_label($1), process_label($2))
')

define('polaris_ripc_service_client_aux',
dnl polaris_ripc($3)
polaris_ripc_\$2_connect($3)
')

define('polaris_ripc_service_client',
dnl polaris_ripc_service_client_aux(ripc_label($1), ripc_stem($1), process_label($2))
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/polaris_ipc_ripc_te.m4
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#
# January 2021, Gabriel Lee, Shawn Liu
#
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#
#
## <summary>Polaris ezmanage Policy Rules.</summary>

##################################################
## <summary>
## Transition to ezmanage

### <summary>
Domain allowed to transition.
</summary>

### <param name="domain">
</param>

# interface('polaris_ezmanage_domtrans','
gen_require('
type polaris_ezmanage_t, polaris_ezmanage_exec_t;
')

domtrans_pattern($1, polaris_ezmanage_exec_t, polaris_ezmanage_t)
')

###################################################################

## Read files under polaris_ezmanage_file_t label

### <summary>
Domain allowed access.
</summary>

### <param name="domain">
</param>

# interface('polaris_ezmanage_files','
gen_require('
type polaris_ezmanage_file_t;
')

manage_files_pattern($1, polaris_ezmanage_file_t , polaris_ezmanage_file_t)
read_lnk_files_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
manage_dirs_pattern($1, polaris_ezmanage_file_t , polaris_ezmanage_file_t)
')

###################################################################

## Manage files under polaris_ezmanage_var_run_t label

### <summary>
Domain allowed access.
</summary>

### <param name="domain">
</param>
gen_require(
    type polaris_ezmanage_var_run_t;
')

    manage_sock_files_pattern($1, polaris_ezmanage_var_run_t, polaris_ezmanage_var_run_t);
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisezmanage.if
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dnl April 2018, Victor Kamensky
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dnl
dnl Macallan Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 9)
max_bay_map_set(`fp', `per_bay', 9)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 10)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 10)
max_bay_ripc_map_set(`fp', `global', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/macallanmaps.m4
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#
# August 2017, Shawn Lu
#
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#

class Module(polarismobilityd, 1.0);

gen_require(''
    type polaris_mobilityd_t;
');

polaris_btrace_data_manage(polaris_mobilityd_t)
polaris_cfrt_data_manage(polaris_mobilityd_t)
polaris_chasfs_manage(polaris_mobilityd_t)
polaris_tdlresolve_read(polaris_mobilityd_t)
polaris_tdlldb_list_dirs(polaris_mobilityd_t)
polaris_cpld_read(polaris_mobilityd_t)
polaris_lua_read(polaris_mobilityd_t)
polaris_flashlib_read(polaris_mobilityd_t)
polaris_ripc_sman_ui_serv_connect(polaris_mobilityd_t)
polaris_db_tdlldb_dir_use(polaris_mobilityd_t)

# allow to use setrlimit
allow polaris_mobilityd_t self:capability sys_resource;
allow polaris_mobilityd_t self:process setrlimit;
allow polaris_mobilityd_t self:capability dac_override;
allow polaris_mobilityd_t self:udp_socket { create_socket_perms recv_msg send_msg };

logging_send_syslog_msg(polaris_mobilityd_t)
polaris_lfts_dev_use(polaris_mobilityd_t)
polaris_cpld_read(polaris_mobilityd_t)
polaris_odm_clnt2svr_mqipc_create(polaris_mobilityd_t)
polaris_tmptdlldb_persist_setup(polaris_mobilityd_t)
polaris_tdlldbpersist_setup(polaris_mobilityd_t)
corenert udp_bind_generic_node(polaris_mobilityd_t)
corenet_udp_bind_polaris_mobility_ctl_port(polaris_mobilityd_t)
corenet_udp_bind_polaris_mobility_data_port(polaris_mobilityd_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.30/selinux-tar/selinux/polarismobilityd.te
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#
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#
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#
#
## <summary>Polaris bexecute Policy Rules.</summary>

###############################################
## <summary>
##	Execute bexecute in the polaris_bexecute domain.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##
## </summary>
## </param>
#
interface('polaris_bexecute_domtrans',
gen_require(
type polaris_bexecute_t, polaris_bexecute_exec_t;
')
corecmd_search_bin($1)
dontrans_pattern($1, polaris_bexecute_exec_t, polaris_bexecute_t)
')

###############################################
## <summary>
## Allow domain to be started by bexecute with
##
## transition into specific service domain.
## </summary>
## <param name="domain">
##
## </param>
## <param name="entry_point">
##
## </param>
## <summary>
##
## Type of the program to be used as an entry point to this domain.
##
## Type to be used to run utility.
##
## Type of the program to be used as an entry point to this domain.
### <summary>
### Execute mcp_chvrf.sh in the polaris_chvrf domain.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
interface('polaris_chvrf_domain',
  gen_require(
    type polaris_chvrf_t,
    polaris_chvrf_exec_t;
  ')
)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_chvrf_exec_t, polaris_chvrf_t)
')

### <summary>
### Execute mcp_chvrf.sh in the caller domain.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_exec_chvrf',
  gen_require(
    type polaris_chvrf_exec_t;
  ')
)
corecmd_search_bin($1)
can_exec($1, polaris_chvrf_exec_t)
')
### <summary>
### Execute ngio_module_session.sh in the polaris_ngio_module_session domain
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
interface('polaris_ngio_module_session_domtrans',
gen_require(''
type polaris_ngio_module_session_t, polaris_ngio_module_session_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_ngio_module_session_exec_t, polaris_ngio_module_session_t)
')

### <summary>
### Allow the specified domain to send signals to any polaris process.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_send_signal_to_bexecute',
gen_require(''
type polaris_bexecute_t;
')
allow $1 polaris_bexecute_t:process signal_perms;
')

### <summary>
### Allow manage of polaris_bash_tmp_t.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
## <summary>
## Execute bexecute in the polaris_bexecute domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_bconsole_domtrans',
    gen_require(
        type polaris_bconsole_t, polaris_bconsole_exec_t;
    ')
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_bconsole_exec_t, polaris_bconsole_t)
')

## <summary>
## Send messages to ioucon unix datagram sockets.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_ioucon_dgram_send',
    gen_require(
        type polaris_ioucon_t;
    ')
    allow $1 polaris_ioucon_t:unix_dgram_socket sendto;
')
### <summary>
### Execute cat9k-primary-capsule-upgrade.sh, cat9k-capsule-upgrade.sh in its own domain.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>

```c
interface(`polaris_capsule_upgrade_domtrans',`
gen_require(`
    type polaris_capsule_upgrade_t, polaris_capsule_upgrade_exec_t;
')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_capsule_upgrade_exec_t, polaris_capsule_upgrade_t)
')
```

### <summary>
### Work(open,create,append,getattr) with /capsule-upgrade.log file
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

```c
interface(`polaris_capsule_upgrade_log_use',`
gen_require(`
    type polaris_disk_bootflash_t;
    type polaris_capsule_upgrade_log_t;
')
allow $1 polaris_capsule_upgrade_log_t:filesystem getattr;

filetrans_pattern($1, polaris_disk_bootflash_t, polaris_capsule_upgrade_log_t, file, "capsule-upgrade.log")
manage_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
create_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
getattr_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
append_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
allow $1 polaris_capsule_upgrade_log_t:file map;
')
```

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* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbexecute.if
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#
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#
#
/var/virtual-instance(/.*)?  gen_context(system_u:object_r:polaris_var_vman_t,s0)

/bootflash/virtual-instance(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/virtual-instance.conf --  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/vman_fdb(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)

/vol/harddisk/virtual-instance(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/virtual-instance.conf --  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/vman_fdb(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)

#sparrow, blackheart
/flash1/virtual-instance(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/virtual-instance.conf --  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/vman_fdb(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)

/tmp/vman(/.*)?  gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/cgroup.log  gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/vman_lxc_wdt_[0-9]*  gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/trace(/.*)?  gen_context(system_u:object_r:polaris_vman_tmp_t,s0)

/usr/binos/conf/vman_exec.sh --  gen_context(system_u:object_r:polaris_vman_shell_exec_t,s0)
/usr/binos/conf/cgroup_reports.sh --  gen_context(system_u:object_r:polaris_cgroup_reports_exec_t,s0)
/usr/binos/conf/vman_techsupport.sh --  gen_context(system_u:object_r:polaris_vman_tech_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisvman.fc
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#
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#
#
## <summary>Polaris polarisqfp Policy Rules.</summary>

########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/netmap device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_netmap_dev_use',
gen_require(''
    type device_t;
type polaris_netmap_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_netmap_device_t)
    read_chr_files_pattern($1, device_t, polaris_netmap_device_t)
    allow $1 polaris_netmap_device_t:chr_file map;
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/svc_eng_puntNN devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_svc_eng_punt_dev_use',
gen_require(''
    type device_t;
type polaris_sep_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_sep_device_t)
    read_chr_files_pattern($1, device_t, polaris_sep_device_t)
')

########################################
## <summary>
## Allow access to semaphore with type polaris_qfp_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_qfp_sem_use',
    gen_require(
        type polaris_qfp_t;
    )
    allow $1 polaris_qfp_t:sem rw_sem_perms;
)

########################################
## <summary>
## Send messages to qfp unix datagram sockets.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_qfp_dgram_send',
    gen_require(
        type polaris_qfp_t;
    )
    allow $1 polaris_qfp_t:unix_dgram_socket sendto;
)

# CSR & C8KV infiniband devices in Azure
interface('polaris_infiniband_dev_use',
    gen_require(
        type device_t;
        type polaris_infiniband_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_infiniband_device_t)
    read_chr_files_pattern($1, device_t, polaris_infiniband_device_t)
    allow $1 polaris_infiniband_device_t:chr_file map;
)

########################################
## Execute iodbd.sh script in the polaris_iodbd_t domain.
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_iodbd_domtrans',
    gen_require('
type polaris_iodb_t, polaris_iodb_exec_t;
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_iodb_exec_t, polaris_iodb_t)
')

******************************************************************************
## <summary>
## Manage files and directoris under /tmp/iodb
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface(`polaris_iodb_tmp_manage',`
    gen_require(
        type polaris_iodb_tmp_t;
    )

manage_files_pattern($1, polaris_iodb_tmp_t, polaris_iodb_tmp_t)
manage_dirs_pattern($1, polaris_iodb_tmp_t, polaris_iodb_tmp_t)

fs_getattr_tmpfs($1)
')

******************************************************************************
## <summary>
## Manage files and directoris under /tmp/memif
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface(`polaris_qfp_memif_manage',`
    gen_require(
        type polaris_qfp_memif_t;
    )

manage_files_pattern($1, polaris_qfp_memif_t, polaris_qfp_memif_t)
manage_sock_files_pattern($1, polaris_qfp_memif_t, polaris_qfp_memif_t)
    gen_require(
        type tmp_t;
## <summary>Polaris dmi_ports_fetch Policy Rules.</summary>

### <summary>
### Execute a domain transition to run dmi_ports_fetch.
### </summary>

### <param name="domain">
### Domain allowed to transition.
### </param>

interface('polaris_dmi_ports_fetch_domtrans',
    gen_require(
        type polaris_dmi_ports_fetch_t, polaris_dmi_ports_fetch_exec_t;
    )
)

domtrans_pattern($1, polaris_dmi_ports_fetch_exec_t, polaris_dmi_ports_fetch_t)
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisdmiportsfetch.if
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dnl

dnl July 2020, Victor Kamensky

dnl

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dnl
c8kv Platform Max Bay Limits
max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 3)
max_bay_map_set('fp', 'per_bay', 0)
max_bay_ripc_map_set('rp', 'per_bay', 0)
max_bay_ripc_map_set('cc', 'per_bay', 3)
max_bay_ripc_map_set('fp', 'per_bay', 0)
max_bay_ripc_map_set('rp', 'global', 0)
max_bay_ripc_map_set('cc', 'global', 3)
max_bay_ripc_map_set(’fp’, ’global’, 0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/c8kvmaps.m4
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#
# Nov 2020, Swati Kumaro
#
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#

/dev/blzi_fpga -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_gps_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_lol_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_0 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_1 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_2 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_3 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_4 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_5 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisptdpdrp.fc
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#
# February 2020, Victor Kamensky
#
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#

policy_module(polarissdavcproxy, 1.0);

gen_require(
    type polaris_sdavc_proxy_t;
')

# btrace_application_start
polaris_chasfs_read(polaris_sdavc_proxy_t)
polaris_tdlresolve_read(polaris_sdavc_proxy_t)
polaris_cpld_read(polaris_sdavc_proxy_t)

# Allow SDAVC exports using UDP socket.
allow polaris_sdavc_proxy_t self:udp_socket create_socket_perms;
# Change namespace to allow network communication with vManage
(process_namespace_network_change_internal - opens /var/run/netns/*)
polaris_cedge_set_ns(polaris_sdavc_proxy_t)

# Reset the namespace back to default (process_namespace_network_default opens /proc/1/ns/net)
polaris_cedge_reset_ns(polaris_sdavc_proxy_t)

type polaris_sdavc_proxy_files_t;
files_type(polaris_sdavc_proxy_files_t)
polaris_pfile_type( polaris_sdavc_proxy_files_t)

# Create /bootflash/sdavc directory, Write, Read & Removed files (For SDAVC imports)
polaris_bootflash_filetrans(polaris_sdavc_proxy_t, polaris_sdavc_proxy_files_t, dir, "sdavc")
polaris_bootflash_filetrans(polaris_iosd_t, polaris_sdavc_proxy_files_t, dir, "sdavc")
polaris_sdavc_proxy_manage(polaris_sdavc_proxy_t)

# IOSd process also should have access to /bootflash/sdavc directory
gen_require(`
    type polaris_iosd_t;
`)
polaris_sdavc_proxy_manage(polaris_iosd_t)

# Allow SDAVC imports (HTTP GET, PUT) we use /usr/bin/curl executable.
# Exe: curl -f -s --connect-time 10 -o /bootflash/sdavc/... -w%{http_code} http://<user>:<pw>@<vManage system ip>:<port>
# Run CURL in its domain so it wont have all sdavcproxy permissions.

gen_require(`
    type polaris_curl_t;
`)
polaris_curl_domtrans(polaris_sdavc_proxy_t)
corenet_tcp_connect_generic_port(polaris_curl_t)

# cURL process also should have access to /bootflash/sdavc directory
polaris_sdavc_proxy_manage(polaris_curl_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarissdavcproxy.te
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#
# July 2017, Victor Kamensky
#
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#
## <summary>Polaris cpp_cdm Policy Rules.</summary>

### <summary>
### Allow access to semaphore with type polaris_cpp_cdm_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_cpp_cdm_sem_use',`
  gen_require(`
    type polaris_cpp_cdm_t;
  `)
  allow $1 polaris_cpp_cdm_t:sem rw_sem_perms;
`)

### <summary>
### Allow access to shared memory with type polaris_cpp_cdm_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_cpp_cdm_shm_use',`
  gen_require(`
    type polaris_cpp_cdm_t;
  `)
  allow $1 polaris_cpp_cdm_t:shm rw_shm_perms;
`)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppcdm.if
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#
# September 2017, Victor Kamensky
#
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#
policy_module(polarisunconfined, 1.0);

## <desc>
## <p>
## IOSd runs in unconfined mode
## </p>
## </desc>
gen_tunable(polaris_unconfined_iosd, true)

## <desc>
## <p>
## All polaris processes except IOSd runs in unconfined mode
## </p>
## </desc>
gen_tunable(polaris_unconfined_all, true)

gen_require('type apmd_t;
type auditd_t;
type inetd_t;
type init_t;
type initrc_t;
type journalctl_t;
type rpcreq_t;
type rpcbind_t;
type sshd_t;
type syslogd_t;
type telnetd_t;
type udev_t;
type virtd_t;
type virtlogd_t;
type vmtools_t;
type ifconfig_t;
type setfiles_t;
type iptables_t;
type virt_t;
type svirt_t;
type svirt_lxc_net_t;
type svirt_lxc_t;
')
polaris_domain_maybe_unconfined(apmd_t)
polaris_domain_maybe_unconfined(auditd_t)
polaris_domain_maybe_unconfined(inetd_t)
polaris_domain_maybe_unconfined(init_t)
polaris_domain_maybe_unconfined(initrc_t)
polaris_domain_maybe_unconfined(journalctl_t)
polaris_domain_maybe_unconfined(rpcbind_t)
polaris_domain_maybe_unconfined(rpcd_t)
polaris_domain_maybe_unconfined(sshd_t)
polaris_domain_maybe_unconfined(syslogd_t)
polaris_domain_maybe_unconfined(telnetd_t)
polaris_domain_maybe_unconfined(udev_t)
polaris_domain_maybe_unconfined(virtd_t)
polaris_domain_maybe_unconfined(virtlogd_t)
polaris_domain_maybe_unconfined(vmtools_t)
polaris_domain_maybe_unconfined(ifconfig_t)
polaris_domain_maybe_unconfined(setfiles_t)
polaris_domain_maybe_unconfined(iptables_t)
polaris_domain_maybe_unconfined(virsh_t)
polaris_domain_maybe_unconfined(svirt_t)
polaris_domain_maybe_unconfined(svirt_lxc_net_t)
polaris_domain_maybe_unconfined(virtd_lxc_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisunconfined.te

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# # Aug 2020, Sridhar
#
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#
#
### <summary>Polaris tlscd process Policy Rules.</summary>

### <summary>
###  Allow the specified domain to manage UDS socket
###  files. I.e /tmp/tlscd/
### </summary>
### <param name="domain">
###  Domain allowed access.
### </param>
### </param>

# interface(`polaris_tlscd_uds_manage`,
  gen_require(
    type polaris_tlscd_uds_t;
  )

  manage_sock_files_pattern($1, polaris_tlscd_uds_t, polaris_tlscd_uds_t)
)

Found in path(s):
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policy_module(polaristamsrp, 1.0);

#

gen_require(`
    type polaris_tams_rp_t;
`)

polaris_btrace_data_manage(polaris_tams_rp_t)
polaris_crft_data_manage(polaris_tams_rp_t)
polaris_chasfs_manage(polaris_tams_rp_t)
polaris_tdlresolve_read(polaris_tams_rp_t)
polaris_tdlldb_list_dirs(polaris_tams_rp_t)
polaris_flashlib_read(polaris_tams_rp_t)
polaris_cpld_read(polaris_tams_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_tams_rp_t)

# tams_tamc_tipc_listener_init function create tipc socket
allow polaris_tams_rp_t self:socket { bind create listen accept getattr read write };

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policy_module(polarisbexecute, 1.0);

polaris_utility_domain_template(bexecute)
polaris_utility_domain_template(chvrf)
polaris_bexecute_domtrans(polaris_chvrf_t)
polaris_chvrf_domtrans(polaris_bexecute_t)
polaris_ngio_module_session_domtrans(polaris_bexecute_t)

polaris_rom_upgrade_use_fifo(polaris_chvrf_t)

******************************************************************************
# bexecute
******************************************************************************
corecmd_exec_bin(polaris_bexecute_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_bexecute_t)

dev_setattr_null_dev(polaris_bexecute_t)

polaris_btrace_data_manage(polaris_bexecute_t)
polaris_crft_data_manage(polaris_bexecute_t)
polaris_chasfs_manage(polaris_bexecute_t)
polaris_cpld_read(polaris_bexecute_t)
polaris_boot_tmp_read(polaris_bexecute_t)
polaris_rmonbifo_tmp_read(polaris_bexecute_t)
polaris_proc_rmonbifo_read(polaris_bexecute_t)
polaris_dyncfg_tmp_read(polaris_bexecute_t)
polaris_read_debug_conf(polaris_bexecute_t)
polaris_tlddb_list_dirs(polaris_bexecute_t)
polaris_disk_bootflash_read_lnk(polaris_bexecute_t)
polaris_disk_harddisk_read_lnk(polaris_bexecute_t)

# open/read /tmp/sw/rp/max_elastic_bays
polaris_pvp_read_tmp_files(polaris_bexecute_t)

# search/getattr of /tmp/udev/etc/udev
polaris_udev_tmp_list_dirs(polaris_bexecute_t)

# manage files in /tmp/pman_ports
polaris_pman_manage_tmp_files(polaris_bexecute_t)

# brelay.sh does rm -rf of "/tmp/pman_ports/gdbport/9910"
# This checks tmpfs file system attributes
#
# Denial is observed after "show platform software audit summary"
# which uses brelay to trigger corresponding audit_log.sh script
fs_getattr_tmpfs(polaris_bexecute_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_bexecute_t)

# follow /tftp/inv symlink to /tmp/chassis/local/rp/chasfs/inventory
gen_require('
type tftpdir_rw_t;
')
read_link_files_pattern(polaris_bexecute_t, tftpdir_rw_t, tftpdir_rw_t)

# tries to do mkdir -p /tmp/rp/lipc, but it should exist already so
# getattr should be sufficient
polaris_lipc_getattr(polaris_bexecute_t)

# read /proc/cmdline
kernel_read_system_state(polaris_bexecute_t)

# binary tracing fifo file as standard output
polaris_use_btrace_fifo(polaris_bexecute_t)

# write into pipe that smand created for us with popen
polaris_smand_use_fifo(polaris_bexecute_t)

allow polaris_bexecute_t self:capability { chown setgid setuid fowner net_admin };
allow polaris_bexecute_t self:process { setpgid setcap };

# temporary files created by bexecute like /tmp/get_status_type_pkg_list.rp-1-0-0.20170707094059.out.log
type polaris_bexecute_tmp_t;
files_tmp_file(polaris_bexecute_tmp_t)
files_tmp_filetrans(polaris_bexecute_t, polaris_bexecute_tmp_t, file)
manage_files_pattern(polaris_bexecute_t, polaris_bexecute_tmp_t, polaris_bexecute_tmp_t)

# smand calls many commands through bexec.sh
polaris_smand_domain(polaris_bexecute_t, polaris_bexecute_exec_t)

# hman invokes cpp_shm_mgr_info_show.sh which in turn invokes "mktemp -p /tmp/tmppub..." 
polaris_btrace_tmppub_manage(polaris_bexecute_t)

ifdef("nyquist_platform",
term_use_unallocated_ttys(polaris_bexecute_t)
term_setattr_unallocated_ttys(polaris_bexecute_t)
')

ifdef("radium_platform",
polaris_load_usbnet_domtrans(polaris_bexecute_t)

    # allow /usr/binos/conf/bexecute.sh for tcp_socket access
    # due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
    # /usr/binos/conf/bexecute.sh -c /usr/binos/conf/module_direct.py
    # 0 bp0 PROMETHIUM-L"
gen_require(
        type polaris_cm_rp_t;
    ')
allow polaris_chvrf_t polaris_cm_rp_t/tcp_socket ioctl;
# allow /usr/binos/conf/bexecute.sh for tcp_socket access
# due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
# /usr/binos/conf/bexecute.sh -c /bin/mcp_pkg_wrap rp_daemons
# /usr/binos/conf/execute_co"

  gen_require(
      type polaris_dmi_ncsshd_fwd_t;
  )
  allow polaris_chvrf_t polaris_dmi_ncsshd_fwd_t:tcp_socket ioctl;
)

ifdef(`sumatra_platform',`
  polaris_load_usbnet_domtrans(polaris_bexecute_t)
')

ifdef(`nanook_platform',`
  polaris_load_usbnet_domtrans(polaris_bexecute_t)
')

ifdef(`supernova_platform',`
  polaris_load_usbnet_domtrans(polaris_bexecute_t)
')

polaris_issu_tmp_files_manage(polaris_bexecute_t)

# Unlike other platforms, quake platform has runin_exec_proc.sh script,
# which is started by xinetd in inetd_t domain,
# and needs to switch to bexecute domain.
# In turn, runin_exec_proc.sh then starts in.telnetd process which needs
# to run in telnetd_t domain, for the existing policies to do the rest.
ifdef(`quake_platform',`
  gen_require(
      type inetd_t;
      type telnetd_t;
      type telnetd_exec_t;
  )
  polaris_bexecute_domtrans(inetd_t)
  polaris_bexecute_domain(telnetd_t, telnetd_exec_t)
')

################################################################################
# chvrf
################################################################################
corecmd_exec_bin(polaris_chvrf_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_chvrf_t)

# read polaris vrf net namespace file(s) /var/run/nets/0
fs_read_nsfs_files(polaris_chvrf_t)

# write into pipe that various binos processes created for us with popen
polaris_smand_use_fifo(polaris_chvrf_t)
polaris_hman_use_fifo(polaris_chvrf_t)
polaris_dmiauthd_use_fifo(polaris_chvrf_t)
optional_policy('
    polaris_cmrp_use_fifo(polaris_chvrf_t)
  )
optional_policy('
    polaris_dmi_ncesshd_fwd_use_fifo(polaris_chvrf_t)
  ')

# mcp_chvrf.sh may run into files created by bexecute
manage_files_pattern(polaris_chvrf_t, polaris_bexecute_tmp_t, polaris_bexecute_tmp_t)

# init may transition to polaris_chvrf_t - certain systemd units use
# mcp_chvrf.sh to start services
gen_require(''
    type init_t;
  ')
polaris_chvrf_domtrans(init_t)

# mcp_chvrf.sh used to start xinetd services
gen_require(''
    type inetd_t;
    type inetd_exec_t;
  ')
domtrans_pattern(polaris_chvrf_t, inetd_exec_t, inetd_t)

# in some cases mcp_chvrf needs to write into someone fifo stdout
# file, i.e when called from ncd.sh script
polaris_use_btrace_fifo(polaris_chvrf_t)

sysnet_domtrans_ifconfig(polaris_chvrf_t)

# during some execve calls chvrf needs list /tmp/etc
polaris_etc_list(polaris_chvrf_t)

ifdef('ngwc_family',
    # /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
    # also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
    polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_bexecute_t)
  ')

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6602
ifdef(`mcp_family',`

 ifdef(`wlc_family',`

 # For "request platform software system shell" CLI, we have:
 # /bin/sh /usr/binos/conf/mcp_chvrf.sh eobc /usr/binos/conf/bexecute.sh
 # -c /usr/binos/conf/mcp_record_shell.sh
 # mcp_chvrf.sh needs read/write access to /dev/pts/1:
 # allow polaris_chvrf_t telnetd_devpts_t:chr_file { read write };
 telnet_use_ptys(polaris_chvrf_t)

 ifdef(`nyquist_platform',`

 term_use_unallocated_ttys(polaris_chvrf_t)

 # some times run with unix_stream_socket as stdin
 init_ioctl_stream_sockets(polaris_chvrf_t)

 # install_engine.sh uses brelay to re-launch install_engine in all FRUs.
 # So, op_rp_switch_to_remote_loc_in_parallel() outputs to install tmp log file;
 # check invocation-point for comms_run_on_remote_fru.
 polaris_install_tmp_log_write(polaris_bexecute_t)
 polaris_install_tmp_log_write(polaris_chvrf_t)

 # CLI: show platform hardware cpp active infrastructure shared-memory all
 # this results in hman invoking following chain of shell scrips.
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/cpp_shm_mgr_info_show.sh
# /bin/bash /usr/binos/conf/bexecute.sh -c /usr/binos/conf/cpp_shm_mgr_info_show.sh
# /bin/sh /usr/binos/conf/cpp_shm_mgr_info_show.sh
# /bin/bash /usr/binos/conf/bshell.sh -S -c "show platform hardware qfp active \n  infrastructure shared-memory process cpp-control-process"
# All these are executed in polaris_bexecute_t domain and write access to following lipc
# is needed: /tmp/rp/lipc/shell_mgr_bshell_serv_socket

polaris_sman_bshell_serv_lipc_write(polaris_bexecute_t)
polaris_tdlresolve_read(polaris_bexecute_t)

# This block is policies for "sh pla so process memory r0 name iosd maps" CLI
polaris_utility_domain_template(process_maps)
polaris_bexecute_domain(polaris_process_maps_t, polaris_process_maps_exec_t)

# needs to read maps files.
domain_read_all_domains_state(polaris_process_maps_t)

# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_process_maps_t)
kernell_read_system_state(polaris_process_maps_t)

# need write/ioctl/getattr access for pipes like "pipe:[118396]"
polaris_hman_use_fifo(polaris_process_maps_t)

corecmd_exec_bin(polaris_process_maps_t)

# This block is policies for "request platform software system shell" CLI.
# Eventually, mcp_record_shell.sh is invoked. That needs its own domain.
polaris_utility_domain_template(platform_shell)
polaris_bexecute_domain(polaris_platform_shell_t, polaris_platform_shell_exec_t)
corecmd_exec_bin(polaris_platform_shell_t)
auth_use_nsswitch(polaris_platform_shell_t)
polaris_btrace_persistent_data_manage(polaris_platform_shell_t)
polaris_cpld_read(polaris_platform_shell_t)

# cyan libraries access /tmp/sw/boot/monbifo/boardsubtype
polaris_monbifo_tmp_read(polaris_platform_shell_t)

# pglobals.sh accesses /tmp/ufs//crashinfo on cat9k platforms
optional_policy(`
polaris_ncd_tmp_read(polaris_platform_shell_t)

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6604
# mcp_record_shell.sh needs read access to chasfs
polaris_chasfs_read(polaris_platform_shell_t)

# mcp_record_shell.sh needs read access to /dev/pts/0 (telnetd_devpts_t)
telnet_use_ptys(polaris_platform_shell_t)

# rsync /tmp/system_shell_access_logs/$system_shell_access_log_file
# rsync://rp0-0/chasfs/etc/system_shell_access_logs/.
gen_require(
    type rsync_t;
    ')
rsync_entry_domtrans(polaris_platform_shell_t, rsync_t)
allow rsync_t polaris_platform_shell_t:process sigchld;
telnet_use_ptys(rsync_t)

logging_send_syslog_msg(polaris_platform_shell_t)
init_list_pid_dirs(polaris_platform_shell_t)

# when reload command is issued, needs "kill" capability
allow polaris_platform_shell_t self:capability kill;

# brelay started from telnetd as result it inherits stdin/stdout of pty opened
# by telnetd
telnet_use_ptys(polaris_bexecute_t)

gen_require(
    type telnetd_devpts_t;
    ')
allow polaris_bexecute_t telnetd_devpts_t:chr_file setattr_chr_file_perms;
allow polaris_bexecute_t self:capability fsetid;

# mcp_record_shell.sh invokes:
# /usr/bin/script -q /harddisk/tracelogs/system_shell_R0*
# - needs access to /root/.bash_history
# - performs chmod on /dev/pts/2 (needs fsetid on self)
# - ioctl/open/read/write on /dev/ptmx
# - needs read/search access to /harddisk/tracelogs
type polaris_bash_tmp_t;
files_type(polaris_bash_tmp_t)
filetrans_pattern(domain, user_home_dir_t, polaris_bash_tmp_t, file, ".bash_history")
polaris_bash_tmp_manage(polaris_platform_shell_t)
allow polaris_platform_shell_t self:capability fsetid;
term_use_generic_ptys(polaris_platform_shell_t)
term_setattr_generic_ptys(polaris_platform_shell_t)
term_getattr_pty_fs(polaris_platform_shell_t)
term_use_ptmx(polaris_platform_shell_t)
polaris_disk_bootflash_read_lnk(polaris_platform_shell_t)
polaris_disk_harddisk_read_lnk(polaris_platform_shell_t)

# mcp_record_shell.sh invokes:
# mkdir /tmp/system_shell_access_logs
# create /tmp/system_shell_access_logs/SHELL_ACCESSED_*

files_tmp_file(polaris_platform_shell_tmp_t)
files_tmp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, dir, "system_shell_access_logs")
files_tmp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, file)
manage_dirs_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, polaris_platform_shell_tmp_t)
manage_files_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, polaris_platform_shell_tmp_t)

# read /proc/cmdline

kernel_read_system_state(polaris_platform_shell_t)

# read /tmp/sw/boot/base_pkg

polaris_boot_tmp_read(polaris_platform_shell_t)

polaris_disk_crashinfo_getattr(polaris_platform_shell_t)

polaris_utility_domain_template(shell)

term_use_generic_ptys(polaris_shell_t)

domtrans_pattern(polaris_platform_shell_t, polaris_shell_exec_t, polaris_shell_t)

# reload command needs the following policies to send signal

polaris_send_signal_to_bexecute(polaris_platform_shell_t)
polaris_send_signal_to_shell(polaris_platform_shell_t)

## <desc>
## <p>
## Polaris "request platform system shell" drops into unconfined shell
## </p>
## </desc>

tunable_policy(`polaris_dev_shell',`
    polaris_unconfined_domain(polaris_shell_t)
')
polaris_domain_storage_unconfined_type(polaris_shell_t)

# PLEASE LOOK AT ME do we have to many ports open
# btelnet runs under bexecute in case of guest shell console access
# command like app-hosting connect appid guestshell console
allow polaris_bexecute_t self:tcp_socket { connect create setopt };
corennet_tcp_connect_unreserved_ports(polaris_bexecute_t)
sysnet_read_config(polaris_bexecute_t)

# brelay.sh does ls /tmp/ufs//crashinfo on cat9k
allow polaris_bexecute_t self:capability dac_override;

# handling /var/run/agetty-iosd.pid
type polaris_bconsole_var_run_t;
files_pid_file(polaris_bconsole_var_run_t)
manage_files_pattern(polaris_bconsole_var_run_t, polaris_bconsole_var_run_t, polaris_bconsole_var_run_t)
files_pid_filetrans(polaris_bconsole_var_run_t, polaris_bconsole_var_run_t, file, "agetty-iosd.pid")

# access /dev/ttyS0
term_use_unallocated_ttys(polaris_bconsole_t)

auth_use_nsswitch(polaris_bconsole_t)

# This block is policies for
# "request platform software console attach switch standby RO" CLI.
# It invokes usr/binos/conf/mcp_console_attach.sh, eventually invoking
# ioucon binary, to telnet to standby.

polaris_utility_domain_template(mcp_console_attach)
polaris_bexecute_domain(polaris_mcp_console_attach_t, polaris_mcp_console_attach_exec_t)
corecmd_exec_bin(polaris_mcp_console_attach_t)

allow polaris_mcp_console_attach_t self:process setpgid;
polaris_chasfs_read(polaris_mcp_console_attach_t)
telnet_use_ptys(polaris_mcp_console_attach_t)

# working with ioucon binary, invoked by usr/binos/conf/mcp_console_attach.sh
polaris_utility_domain_template(ioucon)
polaris_bexecute_domain(polaris_ioucon_t, polaris_ioucon_exec_t)

allow polaris_ioucon_t self:unix_dgram_socket create_socket_perms;
polaris_iosd_dgram_send(polaris_ioucon_t)
polaris_iosd_tmp_file_use(polaris_ioucon_t)
telnet_use_ptys(polaris_ioucon_t)

# "test platform hardware eobc ping" invokes eobc_ping.sh
# send sigchld when it is done
gen_require(''
   type ping_t;
')
allow ping_t polaris_bexecute_t:process sigchld;
polaris_confd_domtrans(polaris_bexecute_t)

# app-hosting connect appid <> console/session
# Beluga/Meraki container
ifdef('ms_platform',"
polaris_iox_container_domtrans(polaris_bexecute_t)
"
)

# Bottlenose/Meraki container
ifdef('bottlenose_platform',"
polaris_iox_container_domtrans(polaris_bexecute_t)
"
)

# IOx downloads the application package using network protocol (e.g http)
gen_require(''
   type fifo_var_run_t;
')
allow polaris_bexecute_t fifo_var_run_t: fifo_file read;

# on vxe platforms with MBRv2/MBRv4/GPTv1/GPTv3 partition layouts
# /config is file system and export_mcp_environment tries to create it anyway
polaris_getattr_disk_config(polaris_bexecute_t)

################################################################################
# This block is policies for
# "hw-module session <x/y>" CLI.
# It invokes usr/binos/conf/ngio_module_session.sh, eventually invoking
# open64.

polaris_utility_domain_template(ngio_module_session)
polaris_bexecute_domain(polaris_ngio_module_session_t, polaris_ngio_module_session_exec_t)
corecmd_exec_bin(polaris_ngio_module_session_t)
polaris_bexecute_domtrans(polaris_ngio_module_session_t)
term_use_unallocated_tty(polaris_ngio_module_session_t)
dev_read_sysfs(polaris_ngio_module_session_t)
allow polaris_ngio_module_session_t self:process setsched;
auth_map_passwd(polaris_ngio_module_session_t)
polaris_chasfs_read(polaris_ngio_module_session_t)
polaris_cpld_read(polaris_ngio_module_session_t)
telnet_use_ptys(polaris_ngio_module_session_t)

# work with /tmp files
type polaris_ngio_module_session_tmp_t;
files_tmp_file(polaris_ngio_module_session_tmp_t)
manage_dirs_pattern(polaris_ngio_module_session_t, tmp_t, polaris_ngio_module_session_tmp_t)
manage_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t,
polaris_ngio_module_session_tmp_t)
manage_fifo_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t,
polaris_ngio_module_session_tmp_t)
files_tmp_filetrans(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t, { file dir })

# CLI: show platform software tech-support
# requires bshell execution
# /bin/bash /usr/binos/conf/bshell.sh -S -P ---- __CMD__ ---- -f
/usr/binos/conf/mcp_tech_support_command_file.txt
gen_require(
    type polaris_bshell_t;
    type polaris_bshell_exec_t;
)
domtrans_pattern(polaris_bexecute_t, polaris_bshell_exec_t, polaris_bshell_t)
# scripts stdin is set by hman and needs write/append access to pipes like pipe:[80159]
polaris_hman_use_fifo(polaris_bshell_t)
# in case of ISR4k show tech input for bshell dynamically created
polaris_tech_support_tmp_read(polaris_bshell_t)

# CLI: show software authenticity running
# this results in hman invoking below command:
# /bin/sh /usr/binos/conf/bexec.sh -c "/usr/bin/code_sign_verify show3 abcd "
polaris_code_verify_domtrans(polaris_bexecute_t)

# stdin is inherited when bexecute calls fts_client
polaris_fts_client_tmp_manage(polaris_bexecute_t)

# disk space full issue
allow polaris_platform_shell_t self:capability sys_resource;

# CLI: request platform software sdwan admin-tech
# executes: /bin/sh vconfd_script_show_installerfs.sh
polaris_conf_unix_stream_stdio_use(polaris_bexecute_t)

# executes: bash bshell.sh -S -P ---- __CMD__ ---- -f /tmp/sdwan_tech_support_command_file_out.txt
polaris_conf_unix_stream_stdio_use(polaris_bshell_t)

# write to /tmp/out_$(date "+%Y%m%d%H%M%S%N") for base version verification on smu install
polaris_install_tmp_write(polaris_bexecute_t)

# Nutella-XE install image
#/bin/bash /usr/binos/conf/brelay.sh -E -f rp 0 16023 -c /usr/binos/conf/install_engine.sh --operation install_commit
--isremote
polaris_conf_unix_tmp_use_fifo(polaris_bexecute_t)

#awk -v what=^.BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/rp/0/0/rp_security/mount/.pkginfo
polaris_read_packages_conf(polaris_bexecute_t)

dev_read_rand(polaris_bexecute_t)

#/usr/bin/python3 /usr/binos/conf/issu_client_comp.py compare -b /usr/binos/conf/base_clients.txt -n
/bootflash/.installer/current_clients.txt
polaris_disk_install_read(polaris_bexecute_t)

# allow "/usr/binos/conf/module_direct.py" (bexecute_t) to execute
#="/usr/sbin/ethtool" (ifconfig_exec_t) when invoking CLI
# "show platform1 hardware subslot <slot/card> backplane statistics"
sysnet_domtrans_ifconfig(polaris_bexecute_t)

# Write into pipe created by stack_mgr
# Parent Child Relation - stack_mgr -> mcp_trace_request -> brelay (to relay output to active)
optional_policy(
    polaris_use_stack_mgr_fifo(polaris_bexecute_t)
)

polaris_etc_list(polaris_bexecute_t)

#manage /tmp/existing_rommon_info file
polaris_manage_rommon_info(polaris_capsule_upgrade_t)

#Policies for "upgrade rom-monitor capsule primary switch 1 R0" CLI
#/usr/binos/conf/bexecute.sh -c /usr/binos/conf/cat9k-primary-capsule-upgrade.sh
cat9k-primary-capsule-upgrade.sh have to run in its own domain

polaris_utility_domain_template(capsule_upgrade)

polaris_bootflash_manage(polaris_capsule_upgrade_t)

type polaris_capsule_upgrade_log_t
polaris_pfile_type(polaris_capsule_upgrade_log_t)
polaris_capsule_upgrade_log_use(polaris_capsule_upgrade_t)
polaris_bexecute_domain(polaris_capsule_upgrade_t, polaris_capsule_upgradeExec_t)
polaris_bexecute_domtrans(polaris_capsule_upgrade_t)
corecmd_exec_bin(polaris_capsule_upgrade_t)
auth_use_nsswitch(polaris_capsule_upgrade_t)
polaris_chasfs_manage(polaris_capsule_upgrade_t)
polaris_cpld_read(polaris_capsule_upgrade_t)
telnet_use_ptys(polaris_capsule_upgrade_t)
polaris_rommon_device_read(polaris_capsule_upgrade_t)

# For "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
# /usr/binos/conf/bexecute.sh -c /usr/binos/conf/install_engine.sh
# --operation install_c”.
# uses unix stream socket created by confd as standard I/O.
polaris_confd_unix_stream_stdio_use(polaris_chvrf_t)

#########################################################################
# mcp_dmesg_service
#########################################################################
polaris_utility_domain_template(mcp_dmesg)
polaris_bexecute_domain(polaris_mcp_dmesg_t, polaris_mcp_dmesg_exec_t)
dmesg_domtrans(polaris_mcp_dmesg_t)
corecmd_exec_bin(polaris_mcp_dmesg_t)
polaris_smand_use_fifo(polaris_mcp_dmesg_t)
auth_use_nsswitch(polaris_mcp_dmesg_t)
telnet_use_ptys(polaris_mcp_dmesg_t)

# allow creation/access of temporary files like /tmp/sh-thd-1608024622
type polaris_mcp_dmesg_tmp_t;
files_type(polaris_mcp_dmesg_tmp_t)
files_tmp_file(polaris_mcp_dmesg_tmp_t)
files_tmp_filetrans(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, file)
manage_files_pattern(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, polaris_mcp_dmesg_tmp_t)
fs_getattr_tmpfs(polaris_mcp_dmesg_t)

# allowing reload_fru.sh for doing systemctl list-jobs
systemd_config_generic_services(polaris_bexecute_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisbexecute.te
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

## <summary>Polaris MQIPC Policy Rules.</summary>

# Polaris mqipc (infra/mqipc)

### <summary>Maque speciﬁed domain as one of mqipc types.</summary>
### <param name="domain">
###   <summary>
###   The domain serving as polaris_mqipc type
###   </summary>
### </param>

interface('polaris_mqipc_type',
    gen_require(
        attribute polaris_mqipc;
    )
    typeattribute $1 polaris_mqipc;
    files_type($1)
    )

### <summary>Manage mqipc shared memory file in /dev/shm directory</summary>
### <param name="domain">
###   <summary>
###   Domain allowed access.
###   </summary>
### </param>
### <param name="mqipc_label">
###   <summary>
###   Mqipc file label.
###   </summary>
### </param>
### <param name="object">
## <summary>
## Mqipc channel file name stem. It is used to derive set of file names used by MQIPC.
## </summary>
## </param>
#
interface('polaris_mqipc_create_name',
gen_require(''
type tmpfs_t;
    type tmp_t;
')
    manage_files_pattern($1, tmpfs_t, $2)
    allow $1 $2:file map;
type_transition $1 tmpfs_t : file $2 "mq.-$3";
    manage_fifo_files_pattern($1, tmp_t, $2)
    type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
    fs_getattr_tmpfs($1)
')

#######################################
## <summary>
## Manage mqipc shared memory file in /dev/shm/dir directory where dir is also derived from object parameter used as stem. It should be used only in cases where mqipc server operates with chanell under subdirectory. TDL autogeneration does not pick up this so interface call should be added explicitely.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="mqipc_label">
## <summary>
## Database file label.
## </summary>
## </param>
## <param name="object">
## <summary>
## Mqipc file name stem. It is used to derive set of file names used by MQIPC.
## </summary>
## </param>
#
interface('polaris_mqipc_create_name_dir',
gen_require(''
type tmpfs_t;
type tmp_t;

manage_files_pattern($1, { tmpfs_t $2 }, $2)
allow $1 $2:file map;
manage_dirs_pattern($1, tmpfs_t, $2)
type_transition $1 tmpfs_t : { file dir } $2 "mq.-$3";
manage_fifo_files_pattern($1, { tmp_t $2 }, $2)
type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
fs_getattr_tmpfs($1)

### <summary>
## Manage mqipc shared memory file in /dev/shm directory
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
### <param name="mqipc_label">
## Mqipc channel file label.
### </param>

interface(`polaris_mqipc_use',
gen_require(`
type tmpfs_t;
')
read_files_pattern($1, { tmpfs_t $2 }, $2)
write_files_pattern($1, { tmpfs_t $2 }, $2)
read_fifo_files_pattern($1, { tmp_t $2 }, $2)
write_fifo_files_pattern($1, { tmp_t $2 }, $2)
fs_getattr_tmpfs($1)
allow $1 $2:file map;
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarismqipc.if
No license file was found, but licenses were detected in source scan.

#
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#
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policy_module(polaris_qfp, 1.0);

polaris_process_domain_template(qfp)

polaris_cpp_process(polaris_qfp_t)
polaris_cpp_dev_use(polaris_qfp_t)
polaris_btrace_data_manage(polaris_qfp_t)
polaris_crft_data_manage(polaris_qfp_t)
polaris_chasfs_manage(polaris_qfp_t)
polaris_lsmpi_dev_use(polaris_qfp_t)
polaris_persistent_list_dirs(polaris_qfp_t);

# allow for hot add on azure
kernel_read_irq_sysctls(polaris_iomdb_t)
kernellr_irq_sysctls(polaris_iomdb_t)

# allow read variety of system information from sysfs, as well as write
# into configuration of some pcie devices
# type=AVC msg=audit(1479597040.739:218): avc: denied { write } for  pid=30997 comm="ucode_ctl_rx"
name="config" dev="sysfs" ino=22363 scontext=system_u:system_r:polaris_qfp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_qfp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_qfp_t)

# allow access to uio devices like /dev/uio0
dev_rw_userio_dev(polaris_qfp_t)

# Platforms with QAT v1.7 need map permission also
# qae device (/dev/icp_adf_ctl)
type polaris_icp_device_t;
dev_node(polaris_icp_device_t)

allow polaris_qfp_t userio_device_t:chr_file map;

# allow to read /proc/meminfo
kernel_read_system_state(polaris_qfp_t)

# qfp FIA (Feature Invocation Array) resides in /dev/shm/cpp_ucode_dram
# Those are set of instructions assembled by cpp control plane and passed
# to qfp to execute.
polaris_cpp_tmpfs_exec(polaris_qfp_t)

# qfp /var/run pid file
type polaris_qfp_var_run_t;

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6615
files_pid_file(polaris_qfp_var_run_t)
manage_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
manage_dirs_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
files_pid_filetrans(polaris_qfp_t, polaris_qfp_var_run_t, { file dir })

# mmap /var/run/dpdk/rte/config
allow polaris_qfp_t polaris_qfp_var_run_t:file map;

# qfp memif directory and file
type polaris_qfp_memif_t;
files_tmp_file(polaris_qfp_memif_t);
# qfp memif interface for binos clients in /tmp/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "memif")
# creates /tmp/binos-IOX/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "binos-IOX")
polaris_qfp_memif_manage(polaris_qfp_t)
# qfp memif interface for container in /bootflash/SHARED-IOX/memif
polaris_disk_type(polaris_qfp_memif_t)
gen_require(''
    type polaris_disk_bootflash_t;
    ')
filetrans_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_qfp_memif_t, dir, "memif")

# work with /bootflash/SHARED-IOX/memif/memif-dp-svr
polaris_utdl_container_dgram_send(polaris_qfp_t)

# work (create/open/read/write) with hugetlbs files
fs_manage_hugetlbs_dirs(polaris_qfp_t)
fs_rw_hugetlbs_files(polaris_qfp_t)
gen_require(''
    type hugetlbs_t;
    ')
allow polaris_qfp_t hugetlbs_t:file create;
# dpdk may unlinks unneeded pages in unmap_unneeded_hugepages function
allow polaris_qfp_t hugetlbs_t:file unlink;

allow polaris_qfp_t self:capability { sys_rawio sys_nice sys_admin }; allow polaris_qfp_t self:process setsched;

# is_nic_netmap_capable function, which is used by vnic_cfg_port, needs socket to
# work with interface parameters
allow polaris_qfp_t self:udp_socket create_socket_perms;

ifdef('crankshaft_family','
polaris_icc_broken_relocations(polaris_qfp_t)
')

# access to /dev/dash_xxx devices on crankshaft platforms
optional_policy('
polaris_dash_dev_use(polaris_qfp_t)
)

# netmap device (/dev/netmap)
type polaris_netmap_device_t;
dev_node(polaris_netmap_device_t)
polaris_netmap_dev_use(polaris_qfp_t)

# access to /dev/icp_XXX device on crankshaft platforms
optional_policy(
    polaris_icp_dev_use(polaris_qfp_t)
)

# netmap device (/dev/svc_eng_puntNN)
type polaris_sep_device_t;
dev_node(polaris_sep_device_t)
polaris_svc_eng_punt_dev_use(polaris_qfp_t)

# transition and access to /var/log/cdal-tsn-info.log
ifdef(`tsn_platform',`
    polaris_qfp_log_manage("cdal-tsn-info.log")
')

# transition and access to /var/log/cdal-tsn-info.log
ifdef(`blackheart_platform',`
    polaris_qfp_log_manage("cdal-tsn-info.log")
')

# aventus needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
# transition and access to /var/log/cdal-tsn-info.log
ifdef(`aventus_platform',`
gen_require(`
    type syslogd_t;
    polaris_qfp_log_manage("cdal-tsn-info.log")
    polaris_ggpio_dev_read_write(polaris_qfp_t)
    polaris_ggpio_dev_read_write(syslogd_t)
')

# transition and access to /var/log/cdal-tsn-info.log
ifdef(`cabo_platform',`
    polaris_qfp_log_manage("cdal-tsn-info.log")
')

# transition and access to /var/log/cdal-tsn-info.log
ifdef('supernova_platform',
    polaris_qfp_log_manage("cdal-tns-info.log")
')

# LOOK AT ME: qfp process links libcrypto.so.1.0.0 which has DT_TEXTREL
# that should be addressed by CSCvj99896, once that is fixed remove below
# under CSCvj99905.
gen_require('type lib_t;
')

allow polaris_qfp_t lib_t:file execmod;

# LOOK AT ME: qfp process on TSN LE has executable stack with GNU_STACK marked RWE
# that should be addressed by CSCvk66808, once that is fixed remove below
# under CSCvk66832.
ifdef('tsn_platform',
    allow polaris_qfp_t self:process execmem;
')

# lsmpi replacement punt/inject over domain sockets
polaris_pi_uds_manage(polaris_qfp_t)
polaris_iosd_dgram_send(polaris_qfp_t)

# dpdk code reads CPU model specific register (MSR)
dev_read_cpuid(polaris_qfp_t)

# dpdk code in rte_mp_channel_init function creates and works
# with /var/run/dpdk/rte/mp_socket socket
manage_sock_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# dpdk code in dev_uev_socket_fd_create creates and work with
# netlink_kobj_t:uevent_socket socket
# Note: radium with QAT v1.7 requires getattr and setopt
allow polaris_qfp_t self:netlink_kobj_t:uevent_socket { getattr setopt bind create };

# hal_random32_init calls hw_random32_init and it opens /dev/random
dev_read_rand(polaris_qfp_t)

gen_require('type sysfs_t;
')
mmap_files_pattern(polaris_qfp_t, sysfs_t, sysfs_t)

# LOOK AT ME: remove after CSCvs34007 fixed
# qfp runs hidedir hide /bootflash/SHARED-IOX/memif
corecmd_exec_bin(polaris_qfp_t)
corecmd_exec_shell(polaris_qfp_t)
auth_use_nsswitch(polaris_qfp_t)

# CSR & C8KV use infiniband and tun/tap devices for Azure
type polaris_infiniband_device_t;
dev_node(polaris_infiniband_device_t)

corenet_rw_tun_tap_dev(polaris_qfp_t)

kernel_request_load_module(polaris_qfp_t)
allow polaris_qfp_t self:netlink_rdma_socket { bind create setopt };
allow polaris_qfp_t self:capability { ipc_lock net_admin net_raw };
allow polaris_qfp_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_qfp_t self:tun_socket { create relabelfrom relabelto };
coremnet_rw_tun_tap_dev(polaris_qfp_t)

# CSR Azure IO model requires read access
gen_require(`
    type proc_net_t;
    `)
allow polaris_qfp_t proc_net_t:file { read };

# manage MLX NIC socket files in /var/tmp/net_mlx5*
type polaris_qfp_var_tmp_t;
files_tmp_file(polaris_qfp_var_tmp_t);
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_var_tmp_t, { sock_file })
manage_sock_files_pattern(polaris_qfp_t, polaris_qfp_var_tmp_t, polaris_qfp_var_tmp_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_xattr_fs(polaris_qfp_t)

# allow create of dir /bootflash/SHARED-IOX on first install of VM
create_dirs_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t)

corenet_cpld_read(polaris_qfp_t, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)

# tsn needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`tsn_platform',`
    polaris_ggpio_dev_read_write(polaris_qfp_t)
`)

# blackheart needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`blackheart_platform',`
    polaris_ggpio_dev_read_write(polaris_qfp_t)
`)

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# sparrow needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
# Also needs access to cdal-tns-info.log
ifdef('sparrow_platform',
   polaris_qfp_log_manage("cdal-tns-info.log")
   polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# ucode also needs access to ttyUSB4
ifdef('cabo_platform',
   term_use_usb_ttys(polaris_qfp_t)
')

# qfp starts /usr/binos/bin/net_hotremove-vxe.sh
init_read_script_files(polaris_qfp_t)

# access to /dev/dash_xxx devices on cranshaft platforms
optional_policy(

   polaris_htx_dgram_send(polaris_qfp_t)
)

# net_hotremove-vxe.sh that works with /tmp/iodb
polaris_iodb_tmp_manage(polaris_qfp_t)
# net_hotremove-vxe.sh sends signal to iodbd.sh
gen_require(
   type polaris_iodbd_t;
)
allow polaris_qfp_t polaris_iodbd_t:process signal;
# net_hotremove-vxe.sh reads /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_qfp_t)

# long running helper script iodbd.sh
polaris_process_domain_template(iodbd)

# iodbd.sh started by /etc/init.d/binos that runs under initrc_t
gen_require(
   type initrc_t;
)
polaris_iodbd_domtrans(initrc_t)

polaris_boot_tmp_read(polaris_iodbd_t)
polaris_chasfs_manage(polaris_iodbd_t)
polaris_cpld_read(polaris_iodbd_t)
polaris_rmonbifo_tmp_read(polaris_iodbd_t)

auth_use_nsswitch(polaris_iodbd_t)
corecmd_exec_bin(polaris_iodbd_t)
# hot add interfaces virtio/sriov
dev_manage_sysfs_dirs(polaris_iodb_t)
polaris_sysfs_manage(polaris_iodb_t)

# write into sysfs file like /sys/devices/pci0000:00/0000:00:03.2/config
dev_rw_sysfs(polaris_iodb_t)

# read/write /run/dpdk/rte/config
manage_files_pattern(polaris_iodb_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# lspci reads /etc/modprobe.d
modutils_read_module_config(polaris_iodb_t)
# lspci reads /lib/modules/5.4.40/modules.softdep
files_read_kernel_modules(polaris_iodb_t)
files_map_kernel_modules(polaris_iodb_t)

# runs dmidecode
dmidecode_domtrans(polaris_iodb_t)
# dmidecode when run in this context needs access initrc stdin/stdout
gen_require(`
  type dmidecode_t;
`)
ninit_rw_stream_sockets(dmidecode_t)

# calls ethtool -i intsvc0
sysnet_domtrans_ifconfig(polaris_iodb_t)

# reads /etc/rc.d/init.d/binos.functions-pd-iodb
init_read_script_files(polaris_iodb_t)

# read /proc/sys/vm/nrhugepages
kernel_read_vm_sysctls(polaris_iodb_t)

# cat /sys/class/net/intsvc0/address
dev_read_sysfs(polaris_iodb_t)

# read /proc/cmdline
kernel_read_system_state(polaris_iodb_t)

type polaris_iodb_tmp_t;
files_tmp_file(polaris_iodb_tmp_t)

# /tmp/iodb is created by /etc/init.d/binos that runs under initrc_t
gen_require(`
  type initrc_t;
`)
files_tmp_filetrans(intrc_t, polaris_iodb_tmp_t, dir, "iodb")
polaris_iodb_tmp_manage(intrc_t)

# udev_t can drop entries into /tmp/iodb to process
gen_require(
    type udev_t;
)
polaris_iodb_tmp_manage(udev_t)

# Radium and Thallium need to check rommon version when initializing static
# interface table (access /proc/rmonbifo).
optional_policy(
    polaris_proc_rmonbifo_read(polaris_qfp_t)
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisqfp.te
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#
# March 2017, Victor Kamensky
#
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#
/usr/cpp/bin/cpp_cp_svr -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_us_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_vwlc -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/binos/conf/geo_ipv4_db -- gen_context(system_u:object_r:polaris_geodb_files_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppcp.fc
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#
# July 2017, Victor Kamensky
#
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#
policy_module(polarisesgtamcfg, 1.0);

gen_require("
type polaris_esg_tam_cfg_t;

polaris_btrace_data_manage(polaris_esg_tam_cfg_t)
polaris_chasfs_manage(polaris_esg_tam_cfg_t)
polaris_tdlresolve_read(polaris_esg_tam_cfg_t)
polaris_tdldb_list_dirs(polaris_esg_tam_cfg_t)
polaris_flashlib_read(polaris_esg_tam_cfg_t)

polaris_cpld_read(polaris_esg_tam_cfg_t)
allow polaris_esg_tam_cfg_t self:capability net_admin;

# handle /tmp/tam_cfg_done
type polaris_tam_tmp_t;
files_tmp_file(polaris_tam_tmp_t)
files_tmp_filetrans(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, dir, "tam_cfg_done")
manage_files_pattern(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, polaris_tam_tmp_t)
gen_require(''
  type tmp_t;
')
manage_dirs_pattern(polaris_esg_tam_cfg_t, tmp_t, polaris_tam_tmp_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisesgtamcfg.te
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#
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#
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#

policy_module(polarisnvram, 1.0);

########################################################################
# NVRAM
########################################################################

ifdef(`ngwc_family',
# suppose that in edison case nvram is not in partition
type polaris_nvram_file_t;
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
')
ifdef(`blackheart_platform',

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 6623
gen_require(
    type polaris_nvram_file_t;
    type polaris_iosd_t;
)
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`sparrow_platform',
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`aventus_platform',
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`cabo_platform',
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`petra_platform',
    type polaris_nvram_file_t;
    files_type(polaris_nvram_file_t)
    # suppose that in edison case nvram is not in partition
    gen_require("
type polaris_iosd_t;

/')
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

Found in path(s):
*/opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisnvram.te
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dnl
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dnl
WLC Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 1)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 1)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 1)
max_bay_ripc_map_set(`fp', `global', 0)

in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 7)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_WNCD, 7)

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#
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#
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#

policy_module(polariscppstats, 1.0);

gen_require(`
    type polaris_cpp_stats_t;
`
)

polaris_btrace_data_manage(polaris_cpp_stats_t)
polaris_crft_data_manage(polaris_cpp_stats_t)
polaris_chasfs_manage(polaris_cpp_stats_t)
polaris_tdlresolve_read(polaris_cpp_stats_t)
polaris_tdlldb_list_dirs(polaris_cpp_stats_t)
polaris_cpld_read(polaris_cpp_stats_t)
polaris_flashlib_read(polaris_cpp_stats_t)

polaris_ripc_sman_ui_serv_connect(polaris_cpp_stats_t)

polaris_cpp_tmp_files_use(polaris_cpp_stats_t)
# works with /dev/cpp_dev_info, /dev/cpp and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_stats_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_stats_t)

polaris_icc_broken_relocations(polaris_cpp_stats_t)

# get attributes of /dev/shm from glibc where_is_shmfs function
fs_getattr_tmpfs(polaris_cpp_stats_t)

optional_policy(`
polaris_cbdma_dev_use(polaris_cpp_stats_t)
`
)

polaris_cpp_tmpfs_manage(polaris_cpp_stats_t)
polaris_cpld_dev_use(polaris_cpp_stats_t)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/m4/wlcmaps.m4
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#
# March 2017, Victor Kamensky
## <summary>Polaris polarisautoupgrade Policy Rules.</summary>

### <summary>Execute auto-upgrade scripts in their own domain</summary>

### <param name="domain">

Domain allowed access.

### </param>

### <rolecap/>

interface('polaris_autoupgrade_domtrans',

    gen_require(
        type polaris_autoupgrade_t;
        type polaris_autoupgrade_exec_t;
    )
)

domtrans_pattern($1, polaris_autoupgrade_exec_t, polaris_autoupgrade_t)

### Manage tmp files created by autoupgrade.

### <param name="domain">

Domain allowed access.
```c

Found in path(s):
  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisautoupgrade.if
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#  # March 2017, Victor Kamensky
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#

policy_module(polarisngwc, 1.0);

# chdrvmmmap device (MMAP Driver for ASIC Memory mapping)
type polaris_chdrvmmmap_device_t;
dev_node(polaris_chdrvmmmap_device_t)

# gettysburg_fpga device (/dev/gettysburg_dev1)
type polaris_gettysburg_fpga_device_t;
dev_node(polaris_gettysburg_fpga_device_t)

# dplr io memory maping driver /dev/cisco/dplriomem
type polaris_dplr_iomem_mmapdrv_device_t;
dev_node(polaris_dplr_iomem_mmapdrv_device_t)

# /dev/shm/ngwc_shm shared memory
type polaris_ngwc_shm_t;
files_type(polaris_ngwc_shm_t)

# /dev/shm/ngwc_scc_shm shared memory
type polaris_ngwc_scc_shm_t;
files_type(polaris_ngwc_scc_shm_t)

# /dev/shm/iomd_to_fed_ptp_offload shared memory
```
type polaris_ngwc_itfpo_t;
files_type(polaris_ngwc_itfpo_t)

# /dev/shm/sdm shared memory
type polaris_sdm_shm_t;
files_type(polaris_sdm_shm_t)

# /dev/shm/sem.i2c_sem00N quake sempaphor
type polaris_quake_i2c_t;
files_type(polaris_quake_i2c_t)

#FPGA io memory mapping driver /dev/cisco/fpgaiomem
type polaris_fpga_iomem_mmapfpga_device_t;
dev_node(polaris_fpga_iomem_mmapfpga_device_t)

# Mapping permission for /dev/shm/<name>
ifdef(`quake_platform',``
gen_require('``
    type systemd_tmpfiles_t;
')
mmap_files_pattern(systemd_tmpfiles_t, polaris_quake_i2c_t, polaris_quake_i2c_t)
')

# In combined image we have several policies and we choose
# one to use in run-time, but file system is shared and
# labeled with different file_context files, so it is
# possible that we may have some labels that other policy
# does not understand for now just hard missing entries
ifdef(`nyquist_platform',``
type polaris_cm_cc_exec_t;
files_type(polaris_cm_cc_exec_t)
type polaris_cm_fp_exec_t;
files_type(polaris_cm_fp_exec_t)
type polaris_flashcheck_exec_t;
files_type(polaris_flashcheck_exec_t)
type polaris_emd_exec_t;
files_type(polaris_emd_exec_t)
type polaris_ngwc_ishow_exec_t;
files_type(polaris_ngwc_ishow_exec_t)

# Adding here as this unmount command is specific to Nyquist platform.
# /bin/cat9k_ssd_auth_cmds.sh
polaris_utility_domain_template(ssdUnmount)
corecmd_exec_bin(polaris_ssdUnmount_t)
storage_getattr_fixed_disk_dev(polaris_ssdUnmount_t)
fstools_domtrans(polaris_ssdUnmount_t)
mount_domtrans(polaris_ssdUnmount_t)
polaris_use_btrace_fifo(polaris_ssdUnmount_t)
#allow to read /etc/passwd
auth_use_nsswitch(polaris_ssd_unmount_t)
polaris_chasfs_read(polaris_ssd_unmount_t)
polaris_cpld_read(polaris_ssd_unmount_t)

#Read /tmp/sw/boot files
polaris_boot_tmp_read(polaris_ssd_unmount_t)
# Allow read to btrace tmp files
polaris_btrace_tmppub_read(polaris_ssd_unmount_t)
# Allow getattr to tmpfs
fs_getattr_tmpfs(polaris_ssd_unmount_t)
# Allow read to ssd auth tmp files /tmp/ssl_blk_device created by udev
polaris_read_ssd_tmp_files(polaris_ssd_unmount_t)

# allow creation/access of temporary files created by bash such as
# /tmp/sh-thd-1499428203 etc

type polaris_ssd_unmount_tmp_t;
files_tmp_file(polaris_ssd_unmount_tmp_t)
files_tmp_filetrans(polaris_ssd_unmount_t, polaris_ssd_unmount_tmp_t, file)
manage_files_pattern(polaris_ssd_unmount_t, polaris_ssd_unmount_tmp_t, polaris_ssd_unmount_tmp_t)
allow polaris_ssd_unmount_t polaris_ssd_unmount_tmp_t:file { unlink };

# Allow nfs dir/file read
rpc_manage_nfs_state_data_dir(polaris_ssd_unmount_t)
rpc_manage_nfs_state_data(polaris_ssd_unmount_t)
# Allow read access to files on nfsd file system
fs_read_nfsd_files(polaris_ssd_unmount_t)
kernel_rw_rpc_sysctls(polaris_ssd_unmount_t)
fs_getattr_xattr_fs(polaris_ssd_unmount_t)

# allow create/sendto/connect operations for logger
allow polaris_ssd_unmount_t self:unix_dgram_socket sendto;
allow polaris_ssd_unmount_t self:unix_dgram_socket create_socket_perms;
logging_create_develog_dev(polaris_ssd_unmount_t)
logging_send_syslog_msg(polaris_ssd_unmount_t)
polaris_persistent_getattr(polaris_ssd_unmount_t)
# allow dir:search getattr read for udev tmp files
# allow file:write open for udev tmp files
polaris_udev_tmp_manage(polaris_ssd_unmount_t)
gen_require(`
    type rsync_exec_t;
    type rsync_port_t;
`)
# allow tcp_socket:name_connect for rsync_port_t
# polaris_ssd_unmount_t has superset privileges of rsync, so its good
# to run rsync in unmount domain. This is not the case everywhere. Please use
# corenet_tcp_connect_rsync_port if rsync needs to be run in its own domain
allow polaris_ssdUnmount_t rsync_port_t:tcp_socket name_connect;
#allow file:get_attr exec read open map execute_no_trans for rsync_exec_t
allow polaris_ssdUnmount_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
#allow dir:getattr for removable_t
polaris_getattr_removable(polaris_ssdUnmount_t)
')
ifdef(`passport_platform',

type polaris_auto_upgrade_server_rp_exec_t;
files_type(polaris_auto_upgrade_server_rp_exec_t)
type polaris_bt_logger_exec_t;
files_type(polaris_bt_logger_exec_t)
type polaris_cmm_exec_t;
files_type(polaris_cmm_exec_t)
type polaris_ngwc_plfm_mgr_exec_t;
files_type(polaris_ngwc_plfm_mgr_exec_t)
type polaris_sif_mgr_exec_t;
files_type(polaris_sif_mgr_exec_t)
type polaris_torch_exec_t;
files_type(polaris_torch_exec_t)
type polaris_xcvr_test_exec_t;
files_type(polaris_xcvr_test_exec_t)
type polaris_faked_exec_t;
files_type(polaris_faked_exec_t)
type polaris_emd_exec_t;
files_type(polaris_emd_exec_t)
type polaris_ngwc_ishow_exec_t;
files_type(polaris_ngwc_ishow_exec_t)
type polaris_gr_mgr_exec_t;
files_type(polaris_gr_mgr_exec_t)
type polaris_ioxss_rp_exec_t;
files_type(polaris_ioxss_rp_exec_t)
')
ifdef(`starfleet_platform',

type polaris_xcvr_test_exec_t;
files_type(polaris_xcvr_test_exec_t)
type polaris_auto_upgrade_server_rp_exec_t;
files_type(polaris_auto_upgrade_server_rp_exec_t)
type polaris_bt_logger_exec_t;
files_type(polaris_bt_logger_exec_t)
type polaris_cmm_exec_t;
files_type(polaris_cmm_exec_t)
type polaris_ngwc_plfm_mgr_exec_t;
files_type(polaris_ngwc_plfm_mgr_exec_t)
type polaris_sif_mgr_exec_t;
files_type(polaris_sif_mgr_exec_t)
type polaris_torch_exec_t;
files_type(polaris_torch_exec_t)
type polaris_disk_ucode0_t;
files_type(polaris_disk_ucode0_t);

type polaris_nplusm_power_file_t;
polaris_pfile_type(polaris_nplusm_power_file_t)

#permission for /ucode0
optional_policy(
    gen_require(
        type polaris_periodic_t;
    )
    polaris_disk_ucode0_read_ink(polaris_periodic_t)
)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisngwc.te
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#
# March 2017, Victor Kamensky
#
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#
/usr/bin/os/bin/.*linux_iosd.*ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)
/usr/bin/os/bin/mcpcc-lc-ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)
/tmp/boottime                          gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/booted                            gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/restconf(/.*)?                    gen_context(system_u:object_r:polaris_restconf_tmp_t,s0)
/tmp/netio0(/.*)?                      gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/nginx.conf                        gen_context(system_u:object_r:httpd_config_t,s0)
/bootflash/.geo(/.*)?                  gen_context(system_u:object_r:polaris_geodb_files_t,s0)
/harddisk/.geo(/.*)?                   gen_context(system_u:object_r:polaris_geodb_files_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisiosd.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
policy_module(polariscmrp, 1.0);

gen_require(`
    type polaris_cm_rp_t;
`)

polaris_btrace_data_manage(polaris_cm_rp_t)
polaris_crft_data_manage(polaris_cm_rp_t)
polaris_chasfs_manage(polaris_cm_rp_t)
polaris_tdlresolve_read(polaris_cm_rp_t)
polaris_tldldb_list_dirs(polaris_cm_rp_t)
polaris_cpld_read(polaris_cm_rp_t)
polaris_lua_read(polaris_cm_rp_t)
polaris_flashlib_read(polaris_cm_rp_t)
polaris_flashlib_write(polaris_cm_rp_t)

# cm_rp opens log file to collect required RP, CC, FP and rommon details
# and write into /vol/harddisk/inv/inv_log_file
# This file is accessed by crashinfo collecting script and others

polaris_cm_rp_inv_log_file_t;
polaris_disk_type(polaris_cm_rp_inv_log_file_t)
polaris_cm_rp_inv_log_setup(polaris_cm_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cm_rp_t)
polaris_cpld_dev_use(polaris_cm_rp_t)
polaris_lfts_dev_use(polaris_cm_rp_t)
polaris_proc_rmonbifo_read(polaris_cm_rp_t)
polaris_obfl_data_read(polaris_cm_rp_t)
polaris_db_tldldb_dir_use(polaris_cm_rp_t)

# cman_rp needs read access to cpu identity
#/dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)
allow polaris_cm_rp_t self:capability { sys_rawio dac_override chown sys_resource};

# on ultra read eeprom through i2c
?type=AVC msg=audit(1479569571.044:3): avc: denied { getattr } for pid=5283 comm="cmand"
path="/sys/devices/i2c-0/i2c-1-0056/eeprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_rp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
?type=AVC msg=audit(1479569571.045:4): avc: denied { read write } for pid=5283 comm="cmand"
nename="eeprom" dev="sysfs" ino=25556 scontext=system_u:system_r:polaris_cm_rp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_cm_rp_t)
polaris_gpio_dev_read_write(polaris_cm_rp_t)

# accessing obfl files like /obfl/obfl_uptime_v2.log
polaris_bootflash_read(polaris_cm_rp_t)
polaris_obfl_data_manage(polaris_cm_rp_t)

corecmd_exec_shell(polaris_cm_rp_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_cm_rp_t)

# cman_data_chasfs_mgmt_eth_override (cman/rp/src/cman_data.c:1096) tries to do
# ioctl(sk, SIOCIFHWADDR, &ifr) for "eth2", which is not present on ultra, but
# such ioctl in kernel triggers dev_load attempt in kernel. Since interface
# and module does exist anyway, it is OK to deny it
kernel_dontaudit_request_load_module(polaris_cm_rp_t)

# cmacd creates udp socket to get interface hw address cmlib_if_config_addr
allow polaris_cm_rp_t self:udp_socket create_socket_perms;

# dyncfg_setup.sh is started by cmacd
polaris_dyncfg_domtrans(polaris_cm_rp_t)
polaris_dyncfg_tmp_read(polaris_cm_rp_t)
# on crankshaft cm_rp does init directly
polaris_dyncfg_setup(polaris_cm_rp_t)

# denied { search read open } subject: polaris_cm_rp_t; object: polaris_disk_varied_t
#   name="/" dev="sda5"; path="/varied"
polaris_disk_varied_manage(polaris_cm_rp_t)

#allow polaris_cm_rp_t polaris_udev_tmp_files_t:dir { read search }
polaris_udev_tmp_list_dirs(polaris_cm_rp_t)

# LOOK AT ME: /tmp/rp/chasfs/inventory has symbolic links back to
# /bootflash/core/modules and /bootflash/tracelogs/modules cman_inv_restart_init
# calls chasfs_properties_internal over this node and as result it tries to
# access those directories
polaris_core_file_search(polaris_cm_rp_t)
polaris_disk_bootflash_search(polaris_cm_rp_t)
polaris_btrace_persistent_data_search(polaris_cm_rp_t)
polaris_dyncfg_tmp_manage(polaris_cm_rp_t)

ifdef(`mcp_family',`
polaris_scooby_dev_use(polaris_cm_rp_t)
# read/write /dev/ds3100 chr device
dev_rw_generic_chr_files(polaris_cm_rp_t)
polaris_spa_dev_use(polaris_cm_rp_t)
')

# temporary files created for repm in /tmp/replication
type polaris_cm_rp_tmp_t;
files_tmp_file(polaris_cm_rp_tmp_t)
gen_require('
  
  type tmp_t;
  ')
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pfu_oirtime.lock")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "golden_boot")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sr_message_debug.txt")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "ngwc_sudi_auth_done")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "codesign.txt")
polaris_cm_rp_tmp_manage(polaris_cm_rp_t)
logging_send_syslog_msg(polaris_cm_rp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_rp_t)
dev_getattr_sysfs_fs(polaris_cm_rp_t)

# /var files
gen_require('
  
  type var_log_t;
  ')
type polaris_cm_rp_var_log_t;
logging_log_file(polaris_cm_rp_var_log_t)
logging_log_filetrans(polaris_cm_rp_t, polaris_cm_rp_var_log_t, file, "obfl_uptime_v2.log")
manage_files_pattern(polaris_cm_rp_t, var_log_t, polaris_cm_rp_var_log_t)

# needed for "show platform hardware slot R0 eobc interface primary status"
kernel_read_network_state(polaris_cm_rp_t)

########################################################################
# show platform hardware slot R0 pcie status
# mcp_pcie_status_cmd.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_pcie_status_cmd.sh
########################################################################

polaris_utility_domain_template(pcie_status_cmd)
polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_pcie_status_cmd_t, polaris_pcie_status_cmd_exec_t)
# allow read of /etc/passwd
auth_use_nsswitch(polaris_pcie_status_cmd_t)

# "lspci" needs access to files like /sys/devices/pci0000:00/0000:00:00.0/resource
dev_read_sysfs(polaris_pcie_status_cmd_t)

polaris_send_signal_to_bexecute(polaris_cm_rp_t)

# need write/getattr access for pipes like "pipe:[118396]"
polaris_cmrp_use_fifo(polaris_pcie_status_cmd_t)

corecmd_exec_bin(polaris_pcie_status_cmd_t)

# on utah need to get model info
optional_policy(`
    polaris_dash_dev_use(polaris_cm_rp_t)
    polaris_nios_dev_use(polaris_cm_rp_t)
')

#access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform',`
    polaris_dash_dev_mcp_use(polaris_cm_rp_t)
')

ifdef(`crankshaft_family',`
polaris_quack_dev_use(polaris_cm_rp_t)
')

ifdef(`sparrow_platform',`
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
')

ifdef(`blackheart_platform',`
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
')

ifdef(`cabo_platform',`
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
')

ifdef(`aventus_platform',`
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`qwlc_platform',`
polaris_quack_dev_use(polaris_cm_rp_t)
')
ifdef(`katar_platform',
  polaris_quack_dev_use(polaris_cm_rp_t)
 )

ifdef(`wlc_family',
  netutils_domtrans_ping(polaris_cm_rp_t)
 )

ifdef(`ngwc_family',
  # In cman_rp module fips/entropy component
  # calls cman_ngwc_tam_platform_get_act2_entropy() to
  # retrieve entropy from ACT2 chip.
  polaris_act2_dev_use(polaris_cm_rp_t)

  # cman-rp init needs access to quack chip
  polaris_quack_dev_use(polaris_cm_rp_t)

  # read /proc/cmdline
  kernel_read_system_state(polaris_cm_rp_t)

  # on macallan and nyquist cman_rp needs to access /flash<#/lic0/sudi_cert_data_v3
  polaris_disk_license_read(polaris_cm_rp_t)

  # on macallan and starfleet cli "show firmware version lan_spi" triggers ethtool usage
  sysnet_domtrans_ifconfig(polaris_cm_rp_t)
  )

  # cman-rp needs to read /tmp/fed_post_result and /tmp/sm_post_result
  # on ngwc platforms
  optional_policy(
  polaris_fed_tmp_files_read(polaris_cm_rp_t)
  )

  optional_policy(
  polaris_sif_mgr_tmp_files_read(polaris_cm_rp_t)
  )

ifdef(`starfleet_platform',
  polaris_dmammap_dev_use(polaris_cm_rp_t)
 )

ifdef(`nyquist_platform',
  polaris_ngwc_shm_manage(polaris_cm_rp_t)

  # /dev/dmammap usage
  polaris_dmammap_dev_use(polaris_cm_rp_t)
# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)

files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "mcu_upgrading")

# executes tar for microcode
allow polaris_cm_rp_t self:capability { fowner fsetid };
'
)

ifdef(`radium_platform',`
# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)
')

ifdef(`sumatra_platform',`
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_cm_rp_t)
# access huron FPGA
polaris_huron_dev_use(polaris_cm_rp_t)
')

ifdef(`quake_platform',`polaris_ngwc_shm_manage(polaris_cm_rp_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_cm_rp_t)

files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "mcu_upgrading")
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvm48950 is fixed using CSCvm48953
ifdef(`nyquist_platform',`
polaris_dev_mem_use(polaris_cm_rp_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef(`quake_platform',`
polaris_dev_mem_use(polaris_cm_rp_t)
')

******************************************************************************
# CLI: "show platform hardware slot R0 xau1i statistics"
# this results in cman (/usr/binos/bin/cmand) invoking
# "/bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/dash_fpga_xau1i.py show".
# The python script dash_fpga_xau1i.py runs in polaris_bexecute_t domain
# and as part of its functionality it needs to create an UDP socket and make an ioctl call.
******************************************************************************

polaris_utility_domain_template(dash_fpga_xau1i)

polaris_bexecute_domain(polaris_dash_fpga_xau1i_t, polaris_dash_fpga_xau1i_exec_t)
polaris_cmrp_use_fifo(polaris_dash_fpga_xau1i_t)
allow polaris_dash_fpga_xau1i_t self:udp_socket { create ioctl }; 

******************************************************************************
# CLI: show plat soft cpu share
# - invokes functions in binos/tools/bin/cgroup_reports.sh
# - also cman_cli_show_cpu_share_cb in binos/cman/rp/src/cman_cli.c
# allow open/read/search cgroup files like
# /sys/fs/cgroup/cpu,cpuacct/iosxe_control_processes/cpu.shares
******************************************************************************
fs_read_cgroup_files(polaris_cm_rp_t)
fs_list_cgroup_dirs(polaris_cm_rp_t)

# on tsn need access to /dev/moka_fpga
optional_policy('
polaris_mokafpga_dev_use(polaris_cm_rp_t)
')

optional_policy('
# betelgeuse need access to /dev/sirius_fpga
polaris_sirius_fpga_dev_use(polaris_cm_rp_t)
')

# on tsn read access to /sys/devices/platform/moka_fpga
optional_policy('
polaris_mokafpga_read(polaris_cm_rp_t)
')

optional_policy('
polaris_tam_getattrs_tmp_dirs(polaris_cm_rp_t)
')

# on vwlc/macallan, cmand creates /tmp/hw_entropy
polaris_hw_entropy_create(polaris_cm_rp_t)
# on tsn need write access to
# sys/devices/platform/cpld/reg_rp_sku_register
# on starfleet need write access to
# sys/devices/platform/cpld/reg_fan_fault_shutdown
optional_policy(
    polaris_cpld_write(polaris_cm_rp_t)
)

# LOOK AT ME: /dev/mem access restriction
ifdef(`tsn_platform',`
    polaris_dev_mem_use(polaris_cm_rp_t)
')

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums
polaris_kgv_data_manage(polaris_cm_rp_t)

optional_policy(
    polaris_quake_i2c_manage(polaris_cm_rp_t)
')

ifdef(`qwlc_platform',`
    # read/write /dev/ds3100 chr device
    dev_rw_generic_chr_files(polaris_cm_rp_t)
')

ifdef(`katar_platform',`
    # read/write /dev/ds3100 chr device
    dev_rw_generic_chr_files(polaris_cm_rp_t)
    # Read access to /tmp/ldwm_envelope file
    polaris_ldwm_envelope_read(polaris_cm_rp_t)
')

ifdef(`mcp_family',`
    # Read access to /tmp/ldwm_envelope file
    polaris_ldwm_envelope_read(polaris_cm_rp_t)
')

# /dev/luna_fpga on qwlc
optional_policy(
    polaris_luna_mbfpga_dev_use(polaris_cm_rp_t)
)

# open /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_rp_t)

optional_policy(
    polaris_ngwc_scc_shm_manage(polaris_cm_rp_t)
)
ifdef(`ngwc_family`,
# on nyquist in ngwe_update_member_config nvram_config is
# copied from /tmp/chassis/local/rp/tam/00001.nvram_config
polaris_nvram_manage(polaris_cm_rp_t)
# CMAN needs to create nvram_config with the right label instead of bootflash_t
    gen_require(`
        type polaris_nvram_file_t;
        type polaris_disk_bootflash_t;
    `)
    filetrans_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_nvram_file_t, file, "nvram_config")
`)  

# CMANRP needs to create right label instead of bootflash_t
    type polaris_user_file_t;
    files_type(polaris_user_file_t);
    polaris_bootflash_filetrans(polaris_cm_rp_t, polaris_user_file_t, file);
    manage_files_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_user_file_t)

# on virtual platforms cman reads virtual sudi file /csl_p_0/vudi.pri
ifdef(`vxe_family`,
    polaris_disk_csl_read(polaris_cm_rp_t)
  `)
ifdef(`wlc_family`,
    polaris_disk_csl_read(polaris_cm_rp_t)
  `)

# from cman_util_chasfs_watch_stby_harddisk
    polaris_udev_tmp_watch(polaris_cm_rp_t)

# watch read over /tmp/chassis/local/rp/tam by cman_nyq_board_auth_init
    polaris_chasfs_watch_read(polaris_cm_rp_t)

# /dev/aikido access
    polaris_aikido_dev_use(polaris_cm_rp_t)

# access SERDES /tmp/serdes_asc_key_dir/*
    optional_policy(`
        polaris_serdes_asc_key_tmp_manage(polaris_cm_rp_t)
    `)

# run /sbin/hwclock in its own domain
    clock_domtrans(polaris_cm_rp_t)

ifdef(`crankshaft_family`,
# modprobe sm_nim_adpt.ko for Switzer-CC
    modutils_domtrans_insmod(polaris_cm_rp_t)
# /dev/sm_nim_adpt device files for Switzer-CC
polaris_sm_nim_adpt_dev_use(polaris_cm_rp_t)

# "show platform hardware subslot <slot/card> backplane statistics"
# triggers ethtool with ifconfig_t using fifo_file (pipe) on polaris_cm_rp_t.
gen_require(
    type ifconfig_t;
')

polaris_cmrp_use_fifo(ifconfig_t)
')

polaris_iosd_vcpu_read(polaris_cm_rp_t)

########################################################################
# show platform hardware slot R0 fpga
# mcp_fpga_status_cmd.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_fpga_status_cmd.sh
########################################################################

polaris_utility_domain_template(fpga_status_cmd)

polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_fpga_status_cmd_t, polaris_fpga_status_cmd_exec_t)
polaris_cmrp_use_fifo(polaris_fpga_status_cmd_t)

auth_use_nsswitch(polaris_fpga_status_cmd_t)
corecmd_exec_bin(polaris_fpga_status_cmd_t)

# PLEASE LOOK AT ME: /sys/devices/platform/nios should have Cisco specific label
# read content under /sys/devices/platform/nios
dev_read_sysfs(polaris_fpga_status_cmd_t)

ifdef(`sparrow_platform',`
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`cabo_platform',`
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`starfleet_platform',`
polaris_fpga_upgrade_tmp_use(polaris_cm_rp_t)
')

type polaris_fpga_upgrade_tmp_t;
files_tmp_file(polaris_fpga_upgrade_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_fpga_upgrade_tmp_t, file, "fpga_upgrade")
# cman_rp needs read access to cpu identity
# /dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)

# cman_rp needs read/write access to cpu msr
# /dev/cpu/0/msr
# following definition provides that
dev_rw_cpu_microcode(polaris_cm_rp_t)

type polaris_cmrp_nim_xxd_tmp_t;
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

ifdef(`2kp_platform',`
# blzi device
polaris_blzi_dev_use(polaris_cm_rp_t)
')

#define debug file access
polaris_tamlib_dbg_file_manage(polaris_cm_rp_t)

ifdef(`wlc_family',`
# tcpdump access for RP
# packet dump is stored in file /bootflash/haIntCaptureLo.pcap
type polaris_netutils_data_t;
polaris_pfile_type(polaris_netutils_data_t)
gen_require(
  type polaris_disk_bootflash_t;
  type netutils_t;
')
filetrans_pattern(netutils_t, polaris_disk_bootflash_t, polaris_netutils_data_t, file, "haIntCaptureLo.pcap")
manage_files_pattern(netutils_t, polaris_netutils_data_t, polaris_netutils_data_t)

# tcpdump access
netutils_run(polaris_cm_rp_t, system_r)

# pidof access
  dev_read_sysfs(polaris_cm_rp_t)
  kernel_read_system_state(polaris_cm_rp_t)
  domain_read_all_domains_state(polaris_cm_rp_t)

# /usr/sbin/ethtool access for show platform hardware slot x ha_port interface stats command
  sysnet_domtrans_ifconfig(polaris_cm_rp_t)
')

optional_policy(`
polaris_ds31408_dev_use(polaris_cm_rp_t)
polaris_ddr_dev_use(polaris_cm_rp_t)

# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
fstools_exec(polaris_cm_rp_t)

# allow acces to /tmp/cmlib_eeprom_sim_smartctl.out
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "cmlib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
dev_nvme_chr_files_manage(polaris_cm_rp_t)
dev_nvme_blk_files_manage(polaris_cm_rp_t)

#DB persistence
polaris_tdldbPersist_setup(polaris_cm_rp_t)
polaris_tmp_tdldbPersist_setup(polaris_cm_rp_t)

#code_sign_verify is started by cmand
polaris_code_verify_domtrans(polaris_cm_rp_t)

ifdef(`ngwc_family',`
  # SELINUX Mismatch warning when doing power redundancy configuration commands
  # Allow access /bootflash/nplusm-power
  polaris_nplusm_power_manage(polaris_cm_rp_t)
')

ifdef(`crankshaft_family',`
  # For USB disable feature, /sys/bus/usb/drivers/usb/*/authorized is accessed
  gen_require(`
    type sysfs_t;
  ')
  allow polaris_cm_rp_t sysfs_t:file create;
  dev_manage_sysfs_dirs(polaris_cm_rp_t)
')

ifdef(`petra_platform',`
  #allow access to /dev/petra-fpga
  polaris_iots_fpga_dev_use(polaris_cm_rp_t)
  #allow access to /flash6/moncfg/cfg.dat
  polaris_nvram_read(polaris_cm_rp_t)
')

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscmrp.te
No license file was found, but licenses were detected in source scan.
/tmp/sw/boot(/.*)?               gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/sw/isos(/.*)?               gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/bootup_timestamp            gen_context(system_u:object_r:polaris_boot_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisboot.fc
No license file was found, but licenses were detected in source scan.

/tmp/.ncsshd_authorized_keys(/.*)? gen_context(system_u:object_r:polaris_ncsshd_keys_t,s0)

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarispsd.fc
No license file was found, but licenses were detected in source scan.

## <summary>Polaris cpp_ha Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polariscppha.if
No license file was found, but licenses were detected in source scan.

# polarisripc file contexts place holder
# March 2017, Victor Kamensky
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policy_module(polarisboot, 1.0);

# /tmp/sw/boot policy

type polaris_boot_tmp_t;
files_tmp_file(polaris_boot_tmp_t)
gen_require(''
    attribute domain;
')
files_tmp_filetrans(domain, polaris_boot_tmp_t, dir, "boot")

# /tmp/sw/isos
files_tmp_filetrans(domain, polaris_boot_tmp_t, dir, "isos")

# dmesg command is executed in its own domain and result is store
# into /tmp/sw/boot/dmesg file
gen_require(''
    type dmesg_t;
')
polaris_boot_tmp_write(dmesg_t)

# /tmp/reload_reason copied from /bootflash/prst_sync/reload_info
files_tmp_filetrans(domain, polaris_boot_tmp_t, file, "reload_reason")

# /tmp/bootup_timestamp created by /etc/init.d/binos
gen_require(''
    type initrc_t;
    type init_t;
')
files_tmp_filetrans( { initrc_t init_t }, polaris_boot_tmp_t, file, "bootup_timestamp")

type polaris_boot_file_t;
files_type(polaris_boot_file_t)
polaris_pfile_type(polaris_boot_file_t)
gen_require(''
    type polaris_disk_bootflash_t;
filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "reload_info")
filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "stack_reload_info")

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  * /opt/cola/permits/1194465592_1641580217.3/0/selinux-tar/selinux/polarisboot.te
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### <summary>Polaris mobilityd Policy Rules.</summary>

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policy_module(polariscyan, 1.0);

# dyncfg_setup.sh runs under cmand label

polaris_process_domain_template(dyncfg)

polaris_btrace_data_manage(polaris_dyncfg_t)
polaris_cpld_read(polaris_dyncfg_t)
polaris_lua_read(polaris_dyncfg_t)
polaris_cpld_dev_use(polaris_dyncfg_t)
polaris_moninfo_tmp_read(polaris_dyncfg_t)
polaris_chasfs_read(polaris_dyncfg_t)

# this script works with /tmp/dyncfg files
type polaris_dyncfg_tmp_t;
files_tmp_file(polaris_dyncfg_tmp_t)

files_tmp_filetrans(polaris_dyncfg_t, polaris_dyncfg_tmp_t, dir, "cyan")
files_tmp_filetrans(polaris_dyncfg_t, polaris_dyncfg_tmp_t, file)

manage_files_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_dirs_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_lnk_files_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)

corecmd_exec_bin(polaris_dyncfg_t)
corecmd_exec_shell(polaris_dyncfg_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_dyncfg_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_dyncfg_t)

# dyncfg_setup calls luajit and luajit needs execute JIT generated code
allow polaris_dyncfg_t self:process execmem;

# allow objstore access
polaris_disk_objstore_read(polaris_dyncfg_t)

type polaris_dyncfg_log_t;
files_tmp_file(polaris_dyncfg_log_t)

gen_require(’
    attribute polaris_domain;
’)

filetrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan.log")
filetrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan_runtime.log")
files_tmp_filetrans(polaris_domain, polaris_dyncfg_log_t, file, "cyan.lock")
manage_files_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t)

polaris_dyncfg_tmp_read(polaris_domain)

# on utah need to get model info
optional_policy(’
```c
polaris_dash_dev_use(polaris_dyncfg_t)
'

#ifdef(`fugazi_platform',`
    polaris_dash_dev_mcp_use(polaris_dyncfg_t)
')

#ifdef(`crankshaft_family',`
    ifdef(`starfleet_platform',`
        polaris_quack_dev_use(polaris_dyncfg_t)
    ')`)

#ifdef(`quake_platform',`
    polaris_flashlib_write(polaris_dyncfg_t)
')

# In chassis_attrs.lua method THIS.WIRELESS checks whether wireless package is installed
# by opening (why open, not stat) wncmgrd binary.
optional_policy(`
    gen_require(`
        type polaris_wncmgrd_exec_t;
```
read_files_pattern(polaris_dyncfg_t, bin_t, polaris_wncmgrd_exec_t)

# lua/cyan/vwlc_chassis_attrs.lua needs to read /bootflash/rommon_vars file on vwlc
ifdef(`wlc_family',`
  polaris_bootflash_read(polaris_dyncfg_t)
')

# lua/cyan/vwlc_chassis_attrs.lua needs to read /boot/vcpu_template file on vwlc
ifdef(`wlc_family',`
  polaris_disk_varied_read(polaris_dyncfg_t)
')

# on macallan passport SUP card idprom is in act2 chip.
# hw_passport_read_midplane_idprom invoked from cyan_init
# reads /dev/act2 device.
ifdef(`ngwc_family',`
  polaris_act2_dev_use(polaris_dyncfg_t)
')

ifdef(`passport_platform',`
  # open /dev/ttyS0 console in hw_passport_read_midplane_idprom, invoked by
  # cyaninit
  term_use_unallocated_ttys(polaris_dyncfg_t)
')

# during wlc subpackage install cyan_init.sh called from
# /dev/ttyS0-wireless_startup_script.sh script and output redirected
# into some install_tmp file
ifdef(`ngwc_family',`
  polaris_install_tmp_log_write(polaris_dyncfg_t)
')

# /dev/aikido access
polaris_aikido_dev_use(polaris_dyncfg_t)

gen_require(`
    type rsync_t;
')

rsync_entry_domtrans(polaris_dyncfg_t, rsync_t)
corenent_tcp_connect_rsync_port(polaris_dyncfg_t)

ifdef(`sumatra_platform',`
  # LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
  # /dev/mem
  polaris_dev_mem_use(polaris_dyncfg_t)
# For Cabo, allow for stronger permissions to access env_var
ifdef('cabo_platform','
polaris_proc_rmonbifo_read(polaris_dyncfg_t)
')

# For Cabo, also allow access to i2c-0
ifdef('cabo_platform','
polaris_i2c_use(polaris_dyncfg_t)
')

# /dev/i2c-0 access
ifdef('petra_platform','
polaris_i2c_use(polaris_dyncfg_t)
')

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policy_module(polarisrrmmgr, 1.0);

gen_require(' type polaris_rrm_mgr_t;
')

polaris_btrace_data_manage(polaris_rrm_mgr_t)
polaris_chasfs_manage(polaris_rrm_mgr_t)
polaris_tdlresolve_read(polaris_rrm_mgr_t)
polaris_tdlldb_list_dirs(polaris_rrm_mgr_t)
polaris_cpld_read(polaris_rrm_mgr_t)
polaris_lua_read(polaris_rrm_mgr_t)
polaris_flashlib_read(polaris_rrm_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_rrm_mgr_t)
polaris_db_tdlldb_dir_use(polaris_rrm_mgr_t)

# allow to use setrlimit
allow polaris_rrm_mgr_t self:process setrlimit;
allow polaris_rrm_mgr_t self:capability sys_resource;
allow polaris_rrm_mgr_t self:capability dac_overwrite;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_rrm_mgr_t)
polaris_socketat_nsfs_read(polaris_rrm_mgr_t)

# allow to open udp socket on port 12134
corenet_udp_bind_polaris_rrm_mgr_port(polaris_rrm_mgr_t)
corenet_udp_bind_generic_node(polaris_rrm_mgr_t)
allow polaris_rrm_mgr_t self:udp_socket { create_socket_perms recv_msg send_msg };

corenet_udp_bind_polaris_rrm_clnt_port(polaris_rrm_mgr_t)
polaris_odm_clnt2svr_mqipc_create(polaris_rrm_mgr_t)

# access "/bootflash/dbpersist"
polaris_tlddbpersist_setup(polaris_rrm_mgr_t)

# access /tmp/rp/tldb/persistent-config/ dir and files in this dir
polaris_tmp_tlddb_persistent_setup(polaris_rrm_mgr_t)

logging_send_syslog_msg(polaris_rrm_mgr_t)

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B. HISTORY OF THE SOFTWARE

JPython was created in late 1997 by Jim Hugunin. Jim was also the primary developer while he was at CNRI. In February 1999 Barry Warsaw took over as primary developer and released JPython version 1.1.

In October 2000 Barry helped move the software to SourceForge where it was renamed to Jython. Jython 2.0 and 2.1 were developed under the Jython specific license below.

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jaxen-1.1.1.jar

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groovy-all-1.0.jar

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jsch-0.1.31.jar
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wsdl4j-1.6.2.jar  
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1.552 jest 24.9.0

1.553 uuid 3.4.0

1.553.1 Available under license:

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 * UUIDGen.java
 * 
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/*
 * UUID.java
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 * Created 07.02.2003
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* MACAddressParserTest.java
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1.554 process-nextick-args 2.0.0

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1.555 Kubernetes-client 5.8.0

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* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/VIAdmissionRegistrationAPIClient.java
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  jar/io/fabric8/kubernetes/client/informers/cache/Lister.java
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* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/MetricAPIGroupExtensionAdapter.java
* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Createable.java
* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1APIGroupClient.java
* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Patchable.java
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* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/KubernetesClientTimeoutException.java
* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/StorageAPIGroupClient.java
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* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/RbacAPIGroupDSL.java
* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/internal/MetricOperationsImpl.java
* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/RequestConfigurable.java
* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/PortForwardable.java
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* /opt/cola/permits/1226134097_1636506069.49/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Ttyable.java
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#

io.fabric8.kubernetes.client.URLFromEnvVarsImpl
io.fabric8.kubernetes.client.URLFromIngressImpl
io.fabric8.kubernetes.client.URLFromNodePortImpl
io.fabric8.kubernetes.client.URLFromClusterIPImpl

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```java
io.fabric8.kubernetes.client.AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V2beta1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1BatchAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1BatchAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.SchedulingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1SchedulingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1SchedulingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1StorageAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1DiscoveryAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1DiscoveryAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.CertificatesAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1CertificatesAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1CertificatesAPIGroupExtensionAdapter
```
1.556 libdap25 3.20.3-1
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1.558 man-db 2.8.5-2

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1.565 read-package-tree 5.3.1

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1.567 cos-go-sdk-v5 0.0.0-20200311031902-5eb2ce1f587d

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1.568 azure-sdk-for-go 26.3.0

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# Please keep the list sorted.

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Gocheck - A rich testing framework for Go

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BSON library for Go

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mgo - MongoDB driver for Go

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1.575 wso2-carbon-event-output-adapter-jms

5.1.42

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   /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannelConfig.java
   /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java
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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/Epoll.java
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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollChannelImpl.java
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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
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 */
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 * Set the @code TCP_MD5SIG option on the socket. See @code linux/tcp.h for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
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 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket.
 * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a> for more details.
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Found in path(s):
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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---

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

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=head1 NAME

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

=head1 SYNOPSIS

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

=head1 DESCRIPTION

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

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

=head1 EXAMPLES

The sample program:

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

produces:

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

demonstrating:

=over 4
=item 0Z<>
a simple word
=item 1Z<>
multiple spaces are skipped because of our $delim
=item 2Z<>
use of quotes to include a space in a word
=item 3Z<>
use of a backslash to include a space in a word
=item 4Z<>
use of a backslash to remove the special meaning of a double-quote

=item 5Z<>

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

=back

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

=head1 SEE ALSO

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

=head1 AUTHORS

Maintainer: Alexandr Ciornii <alexchornyATgmail.com>.

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

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

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

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1.586 wso2-carbon-um-ws-api-stub 5.1.11

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# Jackson JSON processor

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

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

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========

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iconv (Charset Conversion Library) v2.0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
==============================================================================

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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

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

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

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

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

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

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

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

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

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

\appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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```
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```

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```
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```
That's all there is to it!

1.603 jzlib 1.1.2
1.603.1 Available under license :
/*
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*/

1.604 libjpeg 6b
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README for release 6b of 27-Mar-1998
====================================

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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

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

DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

OVERVIEW
========

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

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

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

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

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

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

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

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

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."
REFERENCES
===============

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

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

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


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

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

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

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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

ARCHIVE LOCATIONS

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
==============

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

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

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

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

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

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

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

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

TO DO
=====

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

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

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
1.605 kubernetes-klog v2.4.0

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

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

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

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

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

That's all there is to it!

// This file was generated by gir (https://github.com/gtk-rs/gir)
// from gir-files (https://github.com/gtk-rs/gir-files)
// DO NOT EDIT

use Cancellable;
use Error;
use ffi;
use glib;
use glib::object::Downcast;
use glib::object::IsA;
use glib::signal::SignalHandlerId;
use glib::signal::connect;
use glib::translate::*;
use glib::ffi;
use gobject_ffi;
use std::boxed::Box as Box_;
use std::mem;
use std::mem::transmute;
use std::ptr;

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

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

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

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

    fn get_allowed(&self) -> bool;

    fn get_can_acquire(&self) -> bool;

    fn get_can_release(&self) -> bool;

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

    fn release<'a, P: Into<Option<&'a Cancellable>>>(&self, cancellable: P) -> Result<(), Error>;

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

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

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

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

impl<O: IsA<Permission> + IsA<glib::object::Object>> PermissionExt for O {
    fn acquire<'a, P: Into<Option<&'a Cancellable>>>(&self, cancellable: P) -> Result<(), Error> {
        let cancellable = cancellable.into();
    }
let cancellable = cancellable.to_glib_none();
unsafe {
    let mut error = ptr::null_mut();
    let _ = ffi::g_permission_acquire(self.to_glib_none().0, cancellable.0, &mut error);
    if error.is_null() { Ok(()) } else { Err(from_glib_full(error)) }
}

fn acquire_async<'a, P: Into<Option<&'a Cancellable>>, Q: FnOnce(Result<(), Error>) + Send + 'static>(&self, cancellable: P, callback: Q) {
    let cancellable = cancellable.into();
    let cancellable = cancellable.to_glib_none();
    let user_data: Box<Box<Q>> = Box::new(Box::new(callback));
    unsafe extern "C" fn acquire_async_trampoline<Q: FnOnce(Result<(), Error>) + Send + 'static>(_source_object: *mut gobject_ffi::GObject, res: *mut ffi::GAsyncResult, user_data: glib_ffi::gpointer) {
        let callback_guard!();
        let mut error = ptr::null_mut();
        let _ = ffi::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() { Ok(()) } else { Err(from_glib_full(error)) };
        let callback: Box<Box<Q>> = Box::from_raw(user_data as *mut _);
        callback(result);
    }
    let callback = acquire_async_trampoline::<Q>;
    unsafe {
        ffi::g_permission_acquire_async(self.to_glib_none().0, cancellable.0, Some(callback),
            Box::into_raw(user_data) as *mut _);
    }
}

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

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

fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(ffi::g_permission_get_can_release(self.to_glib_none().0))
    }
}
fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        ffi::g_permission_impl_update(self.to_glib_none().0, allowed.to_glib(), can_acquire.to_glib(),
        can_release.to_glib());
    }
}

fn release<'a, P: Into<Option<&'a Cancellable>>>(&self, cancellable: P) -> Result<(), Error> {
    let cancellable = cancellable.into();
    let cancellable = cancellable.to_glib_none();
    unsafe {
        let mut error = ptr::null_mut();
        let _ = ffi::g_permission_release(self.to_glib_none().0, cancellable.0, &mut error);
        if error.is_null() { Ok(()) } else { Err(from_glib_full(error)) }
    }
}

fn release_async<'a, P: Into<Option<&'a Cancellable>>, Q: FnOnce(Result<(), Error>) + Send + 'static>(&self,
cancellable: P, callback: Q) {
    let cancellable = cancellable.into();
    let cancellable = cancellable.to_glib_none();
    let user_data: Box<Box<Q>> = Box::new(Box::new(callback));
    unsafe extern "C" fn release_async_trampoline<Q: FnOnce(Result<(), Error>) + Send + 'static>(_source_object: *mut gobject_ffi::GObject, res: *mut ffi::GAsyncResult, user_data: glib_ffi::gpointer) {
        callback_guard!();
        let mut error = ptr::null_mut();
        let _ = ffi::g_permission_release_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() { Ok(()) } else { Err(from_glib_full(error)) };
        let callback: Box<Box<Q>> = Box::from_raw(user_data as *mut _);
        callback(result);
    }
    let callback = release_async_trampoline::<Q>;
    unsafe {
        ffi::g_permission_release_async(self.to_glib_none().0, cancellable.0, Some(callback),
        Box::into_raw(user_data) as *mut _);
    }
}

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe {
        let f: Box<Box<Fn(&Self) + 'static>> = Box::new(Box::new(f));
        connect(self.to_glib_none().0, "notify::allowed",
            transmute(notify_allowed_trampoline::<Self> as usize), Box::into_raw(f) as *mut _)
    }
}

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
unsafe {
    let f: Box<_Box<_Box<_Fn(&Self) + 'static>>> = Box::new(Box::new(f));
    connect(self.to_glib_none(), 0, "notify::can-acquire",
             transmute(notify_can_acquire_trampoline::<Self> as usize), Box::into_raw(f) as *mut _)
}

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe {
        let f: Box<_Box<_Box<_Fn(&Self) + 'static>>> = Box::new(Box::new(f));
        connect(self.to_glib_none(), 0, "notify::can-release",
                 transmute(notify_can_release_trampoline::<Self> as usize), Box::into_raw(f) as *mut _)
    }
}

unsafe extern "C" fn notify_allowed_trampoline<P>(this: *mut glib::ffi::GPermission, _param_spec: glib::ffi::gpointer, f: glib::ffi::gpointer)
where P: IsA<Permission> {
    callback_guard!();
    let f: &&(Fn(&P) + 'static) = transmute(f);
    f(&Permission::from_glib_borrow(this).downcast_unchecked())
}

unsafe extern "C" fn notify_can_acquire_trampoline<P>(this: *mut glib::ffi::GPermission, _param_spec: glib::ffi::gpointer, f: glib::ffi::gpointer)
where P: IsA<Permission> {
    callback_guard!();
    let f: &&(Fn(&P) + 'static) = transmute(f);
    f(&Permission::from_glib_borrow(this).downcast_unchecked())
}

unsafe extern "C" fn notify_can_release_trampoline<P>(this: *mut glib::ffi::GPermission, _param_spec: glib::ffi::gpointer, f: glib::ffi::gpointer)
where P: IsA<Permission> {
    callback_guard!();
    let f: &&(Fn(&P) + 'static) = transmute(f);
    f(&Permission::from_glib_borrow(this).downcast_unchecked())
}

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[[contributing-to-docs]]
= Contributing to the documentation

This section shows you how to contribute to the Strimzi documentation and contains important guidelines for
creating accessible content.

== Getting started

Before you begin you need to:

. xref:setting-up-git[Install and set up Git]

== Accessibility guidelines

Strimzi aims to make its content accessible.

When contributing to the documentation, ensure that your content adheres to the following guidelines:

* Images:
  ** Include a caption
  ** Provide alternative text
  ** Are described in the surrounding text
* Images of text are not used (such as with code fragments)
* Links provide descriptive text about the target (not _click here_)
* tables:
  ** Include a caption
  ** Contain headings
  ** Provide a logical reading order
  ** Don’t contain empty cells
* Color is not used as the only visual means to convey information (not _check the green text_)

.Example image caption and description
[source,asciidoc]

----
.Operators within the Strimzi architecture
image:operators.png[Operators within the Strimzi architecture]

----

.Example table headings
[source,asciidoc]

----
.File connectors
[cols="2*",options="header"]

<table>
<thead>
<tr>
<th>File Connector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FileStreamSourceConnector</td>
<td>Transfers data to your Kafka cluster from a file (the source).</td>
</tr>
</tbody>
</table>

|==|
Once you have your local repository set up and have up to date copies of upstream content you need to follow these steps to contribute to the documentation.

- Open your terminal
- `cd` to the directory where your documentation resides
- Checkout the main branch
  - $ git checkout main
- Update your local repository and fork with the upstream content
  - $ git pull upstream main
  - $ git push origin main --force
- Create a new branch for your work (using the issue number is helpful)
  - $ git checkout -b <branch-name>
- Make your edits in the editor of your choice
- Save your changes locally
- Build your documentation to verify that there are no build errors and that everything looks right
  - This can be done with the xref:make-tooling[Make tooling]
- If you are creating new files, add the files to the repository
  - $ git status
  - $ git add <file-name>
- Commit your changes
  - $ git commit -a -s -m "<message>"
Note that the project requires all commits to be signed off, indicating that _you_ certify the changes with the link: https://developercertificate.org/[developer certificate of origin (DCO)].

. Push your changes to your fork

+ [source]

```bash
$ git push origin HEAD
```

. If the update is rejected because the commit is behind, merge your changes

+ [source]

```bash
$ git pull upstream main
$ git push -f origin HEAD
```

. Visit your fork on GitHub
. Click *Compare & pull request*
. If a SME review is needed:
   .. Add *SME Review Needed* label.
   .. When SME review is complete, remove *SME Review Completed* label and go to step 16.
   . Add *Peer Review Needed* label and assign a Reviewer.
   .. When peer review has been completed, the reviewer deletes the *Peer Review Needed* label and adds the *Peer Review Done* label.
   . When *Peer Review Done* label has been added:
      .. If no changes are needed, remove *Peer Review Done* label and add *Ready for Merge* label.
      .. If changes are needed and the changes are minor, make changes to the files, commit, and push, and then remove *Peer Review Done* label and add *Ready for Merge* label.
      .. If you want an additional review on the updated content, add the *Peer Review Needed* label and ask for another review in a comment.

1.617 protobuf 0.5

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1.618 x-crypto 0.0.0-20190820162420-60c769a6c586

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1.619 prettytable 0.7.2-7.ph4

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1.620 python-requests 2.21.0 1

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1.621 readline 7.0-3

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1.625 bluebird 3.7.2

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1.626 string_decoder 0.10.31

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1.627 hoek 6.1.3

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

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

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

-----

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

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

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

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.632 mpdecimal 2.5.1-r1
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1.633 array-each 1.0.1

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1.634 kafka-oauth-server-plain 0.9.0
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```
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 */

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* /opt/cola/permits/1283600548_1646732510.52/0/kafka-oauth-server-plain-0-9-0-sources-jar/io/strimzi/kafka/oauth/server/plain/ServerPlainConfig.java
```

1.635 https-proxy-agent 2.2.4

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```
https-proxy-agent

=============
### An HTTP(s) proxy `http.Agent` implementation for HTTPS
[![Build Status](https://travis-ci.org/TooTallNate/node-https-proxy-agent.svg?branch=master)](https://travis-ci.org/TooTallNate/node-https-proxy-agent)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other protocols that use this method when connecting over proxies (i.e. WebSockets). See the "Examples" section below for more.

Installation
------------

Install with `npm`:

```bash
$ npm install https-proxy-agent
```
```
Examples
--------

#### `https` module example

``` js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j, proxy);

// HTTPS endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;

https.get(options, function (res) {
    console.log("response" event!, res.headers);
    res.pipe(process.stdout);
});
```

#### `ws` WebSocket connection example

``` js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j, proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);
```
var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
    console.log('"open" event!');
    socket.send('hello world');
});

socket.on('message', function (data, flags) {
    console.log('"message" event! %j %j', data, flags);
    socket.close();
});
```

### new HttpsProxyAgent(Object options)

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests. This is achieved by using the [HTTP `CONNECT` method][CONNECT].

The `options` argument may either be a string URI of the proxy server to use, or an "options" object with more specific properties:

- * `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
- * `port` - Number - Proxy port to connect to. Required.
- * `protocol` - String - If `https:`, then use TLS to connect to the proxy.
- * `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
- * Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

---

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[CONNECT]: http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling

Found in path(s):
* /opt/cola/permits/1112087480_1607035434.28/0/https-proxy-agent-2-2-4-6-tgz/package/README.md

1.636 systemd 241-7~deb10u8

1.636.1 Available under license:

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1.641 base-files 10.3+deb10u8

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1.642 postgresql 12.6

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1.645 define-properties 1.1.3

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1.646 wso2-carbon-directory-server-manager

5.12.153

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1.648 @babel/plugin-transform-react-jsx-self

7.18.6

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1.649 cheshire 5.3.1

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1.650 prometheus-client 0.0.0-
20170216185247-6f3806018612

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1.651 facette-natsort 0.0.0-20181210072756-2cd4dd1e2dcb

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1.652 tzdata 2019c 0+deb9u1

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It was downloaded from http://www.iana.org/time-zones

Upstream Author: The Internet Assigned Numbers Authority (IANA)
Commentary should be addressed to tz@iana.org

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1.653 ca-certificates 20211220-r0

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Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/mk-
  ca-bundle.pl
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-
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#
#
# certdata.txt
#
# This file contains the object definitions for the certs and other
# information "built into" NSS.
#
# Object definitions:
#
# Certificates
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 (varies)
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT DER+base64 (varies)
# CKA_ID byte array (varies)
# CKA_ISSUER DER+base64 (varies)
# CKA_SERIAL_NUMBER DER+base64 (varies)
# CKA_VALUE DER+base64 (varies)
# CKA_NSS_EMAIL ASCII7 (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER DER+base64 (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64 (varies)
#
# Trust
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS CK_OBJECT_CLASS CKO_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 (varies)
# CKA_ISSUER DER+base64 (varies)
# CKA_SERIAL_NUMBER DER+base64 (varies)
# CKA_CERT_HASH binary+base64 (varies)
# CKA_EXPIRES CK_DATE (not used here)
# CKA_TRUST_DIGITAL_SIGNATURE CK_TRUST (varies)
# CKA_TRUST_NON_REPUDIATION CK_TRUST (varies)
# CKA_TRUST_KEY_ENCIPHERMENT CK_TRUST (varies)
# CKA_TRUST_DATA_ENCIPHERMENT CK_TRUST (varies)
# CKA_TRUST_KEY_AGREEMENT CK_TRUST (varies)
# CKA_TRUST_KEY_CERT_SIGN CK_TRUST (varies)
# CKA_TRUST_CRL_SIGN CK_TRUST (varies)
# CKA_TRUST_SERVER_AUTH CK_TRUST (varies)
# CKA_TRUST_CLIENT_AUTH CK_TRUST (varies)
# CKA_TRUST_CODE_SIGNING CK_TRUST (varies)
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST (varies)
# CKA_TRUST_IPSEC_END_SYSTEM CK_TRUST (varies)
# CKA_TRUST_IPSEC_TUNNEL CK_TRUST (varies)
# CKA_TRUST_IPSEC_USER CK_TRUST (varies)
# CKA_TRUST_TIME_STAMPING CK_TRUST (varies)
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL (varies)
# (other trust attributes can be defined)
#
#
# The object to tell NSS that this is a root list and we don't
# have to go looking for others.
#
BEGINDATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"
#
# Certificate "GlobalSign Root CA"
#
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
\256\261\256\101\046\010\310\031\053\321\106\252\110\326\144\052
\327\203\064\377\050\045\023\011\154\031\013\011\200\072\205\347\323\174
\366\041\150\357\352\362\122\237\177\223\220\317\01\02\00\03\00\1000
\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\001\170\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\006\035\006\003\125\035\016\004\026\004
\024\140\173\146\032\105\015\227\312\211\120\057\175\004\315\064
\250\377\374\375\113\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\011\000\326\163\347\174\117\166\320
\215\277\354\272\242\276\064\305\050\062\265\174\374\154\234\054
\053\275\011\236\123\277\153\136\252\021\110\266\345\010\243\263
\31\207\5\141\115\323\106\011\263\076\303\324\343\143\125\033\362
\272\357\255\071\341\103\271\070\243\346\057\212\046\073\357\240
\120\126\371\130\061\012\375\070\315\304\013\160\121\224\227\230\004
\337\303\137\224\325\025\311\024\101\234\304\135\165\144\025\015
\377\125\060\354\206\217\377\015\357\054\271\143\106\366\252\374
\337\274\151\375\056\022\110\044\232\340\225\360\246\357\051\217
\001\216\025\265\010\043\025\376\151\054\151\044\170\036\263\024
\034\161\142\356\031\123\102\227\254\027\135\212\302\237\072\061\156
\052\204\102\266\061\125\320\147\211\205\053\371\154\246\135\016\235
\014\252\202\344\233\121\133\356\160\267\333\126\075\141\344\152\341
\134\286\366\376\075\336\101\134\007\256\143\122\277\123\123\364
\053\513\073\789\266\367\202\137\205\322\101\030\333\201\126\004
\034\305\037\244\200\157\025\040\311\336\014\210\012\305\326\146
\125\342\374\110\311\051\046\151\340
END
CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for Certificate "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\274\226\213\324\364\235\142\052\250\232\011\362\025\001\122
\244\035\202\234
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
# Certificate "Verisign Class 1 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,O=VeriSign, Inc., C=US
# Serial Number:00:8b:5b:75:56:84:54:85:00:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,O=VeriSign, Inc., C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

# Certificate "Verisign Class 1 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,O=VeriSign, Inc., C=US
# Serial Number:00:8b:5b:75:56:84:54:85:00:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,O=VeriSign, Inc., C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
# Trust for Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\102\205\334\367\353\166\101\122\5127\216\023\153\324\v267\321\351\l16\016\245
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\261\107\274\030\127\321\030\v240\170\055\354\161\13\052\225\163
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\206\124\13\011\006\003\125\004\006\023\002\125\123
\151\47\156\054\040\111\156\143\056\061\137\056\035\006\033\125
\004\013\023\026\156\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\172\060\070\006\003
\125\004\120\132\036\105\043\051\010\107\107\10\140\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\203
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\140\013\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\201\000\213\133\165\126\204\124\205\013\000\317\257\070\110
\316\261\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Certificate "Verisign Class 2 Public Primary Certification Authority - G3"

Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Not Valid Before: Fri Oct 01 00:00:00 1999

# Certificate "Verisign Class 2 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After: Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\124\162\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\101\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\124\162\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\101\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
\222\212\220\360\010\201\126\226\225\255\151\243\122\320\313\034\304
\043\075\037\231\137\61\143\50\026\143\216\306\010\216\366\061\136
\322\372\345\163\335\265\034\222\243\311\315\315\001\315\150\315
\251\151\272\243\353\035\015\234\244\40\024\360\1\240\305\321\106
\114\027\155\222\254\146\077\226\214\340\204\324\066\377\042\131
\305\371\021\140\250\137\004\175\362\032\366\045\102\141\017\304
\112\270\076\211\002\000\001\000\010\060\015\006\011\105\206\110
\206\367\015\001\000\005\000\000\032\020\010\100\000\064\046\025
\074\300\215\115\103\110\035\275\351\041\222\327\146\234\267\336
\305\270\320\344\135\137\166\60\042\300\046\371\204\072\072\371\214
\265\373\354\140\361\350\316\004\260\310\335\247\003\217\060\363
\230\337\244\346\244\061\137\323\034\013\310\63\334\162\040\077\256
\356\005\074\244\063\077\013\071\254\160\170\163\113\231\053\337
\060\032\124\260\250\073\125\241\137\60\260\050\315\102\275\164\156
\200\333\047\104\247\316\104\135\324\033\220\230\015\036\102\224
\261\100\054\004\320\164\243\002\005\042\143\143\315\203\265\373
\301\155\142\153\151\165\375\135\160\101\271\365\277\174\337\276
\301\062\163\042\041\213\130\201\173\025\221\172\272\344\144\110
\260\177\373\060\045\332\225\320\361\044\024\027\335\030\200\153
\106\043\071\124\365\216\142\011\004\035\224\202\460\233\346\045
\342\102\105\252\270\220\255\276\010\217\251\013\020\030\224\317
\162\071\134\261\110\340\050\317\267\347\132\154\023\153\111\263
\377\343\030\174\211\123\063\135\254\063\327\247\371\332\072\125
\311\130\020\371\252\357\132\266\317\113\113\337\052
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Wed Aug 31 00:00:00 2022

CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\060\060\060\060\132
END

# Trust for Certificate "Verisign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"
CKA_CERT_SHA1HASH MULTILINE_OCTAL
Certificate "Entrust.net Premium 2048 Secure Server CA"

# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029

# Certificate "Entrust.net Premium 2048 Secure Server CA"

# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029

Certificate "Entrust.net Premium 2048 Secure Server CA"
# Trust for "Entrust.net Premium 2048 Secure Server CA"

# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net

# Serial Number: 946069240 (0x3863def8)

# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net

# Not Valid Before: Fri Dec 24 17:50:51 1999

# Not Valid After: Tue Jul 24 14:15:12 2029


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"

CKA_ISSUER_MULTILINE_OCTAL
\120\060\006\011\035\227\324\365\256\071\351\321\114\025\103\013\322
\134\200\220\215\263\147\233\157\110\010\025\126\317\277\361\053
\174\136\232\166\351\131\220\305\174\203\065\021\145\121
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\070\143\336\370
END
# Certificate "Baltimore CyberTrust Root"

# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x2000069)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025

```plaintext
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL
```

END
# Trust for Certificate "Baltimore CyberTrust Root"
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x200000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"

# Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\026\060\061\013\060\011\006\000\0125\004\006\023\002\125\123
\061\026\060\024\060\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\090\011\156\143\056\061\071\060\067\060\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\060\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\060\003\125\004\030\23\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END
CKA_VALUE MULTILINE_OCTAL
\060\020\022\060\020\031\171\240\003\002\001\002\002\004\105
\153\120\124\060\015\006\011\052\206\110\206\367\015\001\001\005

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7681
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4

END

# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4

END

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7683
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\245\303\355\135\335\076\000\301\075\207\222\037\035\077\344
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\126\060\061\013\060\011\060\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\106\067\006\003\125\004
\013\023\060\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\004\012\123\026\050\143
\051\040\062\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\105\060\053\006\003\125\004\003\023\044\105
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\105\060\053\006\003\125\004\003\023\044\105
\156\146\162\165\163\164\040\012\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Certum Root CA"
#
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\126\060\061\013\060\011\060\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\106\067\006\003\125\004
\013\023\060\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\004\012\123\026\050\143
\051\040\062\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\105\060\053\006\003\125\004\003\023\044\105
\156\146\162\165\163\164\040\012\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_ID UTF8 "0"
# Trust for Certificate "Certum Root CA"
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After: Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\122\334\100\367\021\103\242\057\336\236\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\03\125\004\03\023\011\103\145\162\165\155\040\103\101
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\217\237\146\035\030\220\261\107\046\235\216\206\202\214\251
END
CKA_ISSUER MULTILINE_OCTAL
\106\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\03\30\03\100\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\03\125\004\03\023\011\103\145\162\165\155\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\000\01\000\040
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\102\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\030\140\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\013\061\013\060\011\006\003\125\004\006\023\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\102\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\030\140\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

CKA_VALUE MULTILINE_OCTAL
\060\202\004\062\060\202\003\032\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\063\367\015\001\001\005\005\000\060
\173\061\013\060\011\060\003\125\004\006\023\023\002\107\102\061\033
\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145\162
\040\115\141\156\143\150\145\163\164\145\162\061\102\060\016\006

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\024\111\150\004\166\350\346\356\135\354\002\017\140\326\215\120
\030\117\046\116\001\134\334\346\260\245\356\277\274\164\124\101\277
\137\374\022\270\037\117\132\364\211\140\005\177\140\267\005\112
\363\366\361\032\277\304\271\164\206\266\055\175\153\314\322\363
\106\335\057\306\340\152\303\030\064\003\054\175\226\335\132\302
\016\247\012\313\010\005\213\253\014\057\363\134\072\317\154\067
\125\011\120\073\361\123\100\154\130\357\374\266\253\145\156\004\366
\033\334\074\343\013\205\306\236\331\361\131\110\060\041\145\003
\154\354\351\041\163\354\330\003\241\340\067\255\240\025\030\217
\372\272\002\216\247\054\251\020\023\054\324\345\010\046\253\042
\227\140\370\229\033\164\342\242\232\123\275\362\251\150\340\242
\156\032\032\154\261\243\017\236\277\353\150\347\126\362\256\362
\343\053\070\072\011\120\265\153\205\327\276\055\355\077\032\267
\262\143\342\263\142\054\020\023\152\000\101\120\361\071\203\237
\225\351\066\226\230\156
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\353\043\244\155\027\326\217\331\045\144\302\361\136\1\140\027
\144\330\343\111
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\117\004\260\353\207\031\254\107\260\274\021\121\233\164\320
END
CKA_ISSUER MULTILINE_OCTAL
\060\017\306\010\130\060\011\100\060\003\125\004\006\023\002\107\120\061
\033\060\031\006\003\125\004\010\142\221\071\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\060\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\155\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\140\030\101\101\101\040\103\145\162\164\151\146\151
# Certificate "QuoVadis Root CA 2"

# Issuer: CN=QuoVadis Root CA 2, O=QuoVadis Limited, C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2, O=QuoVadis Limited, C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After: Mon Nov 24 18:23:33 2031

cka_class Ck_Object_Class CkObject_certificate
cka_token Ck_BBOOL Ck_TRUE
cka_private Ck_BBOOL Ck_FALSE
cka_modifiable Ck_BBOOL Ck_FALSE
cka_label UTF8 "QuoVadis Root CA 2"
cka_certificate_type Ck_Certificate_Type CkC_X_509
cka_subject Multiline_Octal
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157 \157\164\040\103\101\040\062
end
cka_id UTF8 "0"
cka_issuer Multiline_Octal
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157 \157\164\040\103\101\040\062
end
cka_serial_number Multiline_Octal
\002\002\005\111
end
cka_value Multiline_Octal
\060\020\005\267\060\202\003\237\240\003\002\001\002\002\002\005 \011\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000 \060\010\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\003\304\031\106\321\224\241\150\125\035\043\004\147
\060\145\200\024\032\204\142\274\110\114\063\045\004\324\356\320
\366\003\304\031\106\321\224\153\242\111\124\117\060\105\061\013
\060\011\100\063\012\250\04\006\023\002\012\115\061\103\116\060\027\006
\003\125\004\101\023\020\012\116\165\157\126\141\144\151\163\040\114
\151\155\115\164\145\144\061\033\060\031\106\003\012\250\04\003\023
\022\121\165\157\126\141\144\151\163\040\103
\101\104\062\202\002\005\111\060\150\156\011\052\206\110\206\067
\105\150\010\005\000\000\103\202\020\010\100\107\126\152\337
\006\133\250\256\161\135\057\005\057\147\346\023\105\203\304\066
\366\363\300\046\104\151\265\107\144\135\370\264\162\311\116\0245
\003\030\047\125\211\170\175\166\352\226\064\200\027\040\334\347
\203\370\215\373\004\72\270\332\137\115\056\147\262\204\375\331\104
\374\167\120\201\346\174\264\311\105\013\162\23\370\166\007\007
\101\107\226\204\143\373\340\202\046\223\125\214\376\042\037\140\145
\174\137\347\046\263\367\062\220\230\120\324\067\161\125\366\222
\041\170\367\225\171\372\370\055\046\207\146\126\060\167\246\067
\170\063\122\030\256\077\141\126\362\152\261\357\030\176\112
\131\143\312\125\242\126\325\247\057\274\126\037\317\071\301\342
\373\30\125\290\225\054\175\115\172\143\306\154\227\104\074\322\157
\303\1\220\27\220\232\127\242\031\121\245\055\227\101\332
\007\117\251\120\332\220\215\224\106\341\076\360\224\375\020\000
\070\365\073\350\100\341\264\156\162\032\040\314\157\130\215\355
\056\110\217\326\351\122\307\347\261\054\337\072\326\042\214\334
\204\273\042\151\332\037\034\060\071\351\004\210\074\303\272\2353
\125\172\155\200\231\044\345\154\001\373\370\227\260\224\333\335
\375\322\157\361\167\150\015\065\144\043\032\254\270\125\24\100\0332
\115\102\033\343\370\165\131\126\243\337\125\111\171\370\257\016
\271\012\240\174\267\152\355\064\320\266\046\141\202\003\207\014
\370\035\037\506\323\220\177\007\221\105\235\326\176\134\205\203
\231\126\070\010\077\351\136\371\106\500\073\344\311\142\156\127\177
\247\120\225\367\272\310\233\346\216\242\001\030\53\164\162\277\171
\141\136\074\034\343\127\120\134\135\240\033\351\133\100\275\031
\242\021\024\031\115\362\206\033\150\076\110\067\032\210\267\135
\226\136\234\037\507\047\142\010\342\221\031\134\322\361\041\335
\272\027\102\202\227\161\201\123\061\251\237\366\175\142\277\162
\341\124\23\323\035\314\121\046\132\011\070\320\136\327\015\200\026
\264\170\245\072\207\014\142\152\212\245\325\106\227\362\054\020\271
\274\124\042\300\001\120\151\103\236\364\262\357\155\370\035\343
\361\134\263\157\357\337\221\171\124\052\013\045\301\046\031\130\4122
\020\005\145\325\202\020\352\020\061\135\056
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "QuoVadis Root CA 2"
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
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# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\072\373\317\022\100\066\113\104\262\026\040\210\200\110\071
\031\223\174\367
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\071\173\335\370\272\354\202\351\254\142\272\014\124\000\053
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\130\060\001\100\060\003\125\004\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "QuoVadis Root CA 3"
#
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_NSS_MOZILLA_CA_POLICY</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
</tbody>
</table>

# Trust for Certificate "QuoVadis Root CA 3"

# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After: Mon Nov 24 19:06:44 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "Security Communication Root CA"

# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After: Sat Sep 30 04:20:49 2023

# Certificate "QuoVadis Root CA 3"

# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After: Sat Sep 30 04:20:49 2023
# Trust for Certificate "Security Communication Root CA"
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After: Sat Sep 30 04:20:49 2023

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\261\053\111\371\201\126\327\114\236\170\070\017\306\126\217\135\254\126\237
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\361\124\143\152\124\340\265\047\365\315\347\032\343\115\156\112
END

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\101\030\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\013\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\010\157\155
# Certificate "Camerfirma Chambers of Commerce Root"

# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After: Wed Sep 30 16:13:44 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL

# Trust for Certificate "Camerfirma Chambers of Commerce Root"
# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU

END
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:14 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061\060\141\360\261
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\260\001\356\024\331\257\051\030\224\166\216\361\151\063\052\204
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145\156\162\155\141\140\123\101\104\103\111\106\040\101\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013\023\032\150\164\161\160\072\057\057\167\167\167\167\056\143\150\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163\160\015\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Camerfirma Global Chambersign Root"
#
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:20 2037

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CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL

END

# Trust for Certificate "Camerfirma Global Chambersign Root"
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:20 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END

END

CKA_NSS_SERVER_DISTRUST_AFTER_MULTILINE_OCTAL
"06206106006306061060066006006000600132"

END

END

END

END

END

END

END

END
# Certificate "XRamp Global CA Root"

# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\070\062\067\064\063\062\067\061\043\060\041\006\003\125\004
\013\023\027\034\006\003\023\025\071\167\167\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\157\156\056\157\162\147\061\040\060
\036\000\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END
# Trust for Certificate "XRamp Global CA Root"

# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US


# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US

# Not Valid Before: Mon Nov 01 17:14:04 2004

# Not Valid After : Mon Jan 01 05:37:19 2035

# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1


CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "Go Daddy Class 2 CA"

# Issuer: OU=Go Daddy Class 2 Certification Authority, O="The Go Daddy Group, Inc.", C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority, O="The Go Daddy Group, Inc.", C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After: Thu Jun 29 17:06:20 2034

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

# Token
...

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"

# Certificate
...

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# Other Properties
...

CKA_SUBJECT MULTILINE_OCTAL

END

# Trust
...

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END

# Issuer
...

CKA_ISSUER MULTILINE_OCTAL

END

# Serial Number
...

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Go Daddy Class 2 CA"
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After: Thu Jun 29 17:06:20 2034
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\047\226\272\346\077\030\001\342\167\046\033\240\327\167\002
\217\040\356\344
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\221\336\006\045\253\332\375\062\027\014\273\045\027\052\204\147
END
CKA_ISSUER_MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\040\141\144\144\141\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\144\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTHCK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Starfield Class 2 CA"
#
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After: Thu Jun 29 17:39:16 2034
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
# Trust for Certificate "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\320\343
\067\016\265\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
END
CKA_ISSUER_MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \
045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151 \
145\144\040\124\145\143\150\156\157\154\157\147\151\145\163 \
054\040\111\115\143\056\061\062\060\060\060\003\125\004\013\023 \
051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163 \
040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156 \
040\010\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Assured ID Root CA"
#
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
# Trust for Certificate "DigiCert Assured ID Root CA"

# Issuer: CN=DigiCert Assured ID Root CA, OU=www.digicert.com, O=DigiCert Inc, C=US

# Serial Number: 0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
\011\040\314\001\223\247\116\060\0267\123\367\103\304\151\000\127
\235\342\215\042\335\207\006\100\000\020\101\113\316\310\033\203\277
\337\151\073\161\106\342\326\146\307\005\263\166\047\026\217\173
\236\036\225\175\356\267\110\243\010\332\326\257\172\014\071\006
\145\177\121\353\037\274\027\370\253\276\356\050\327\164\177\172
\170\231\131\020\150\156\134\043\062\113\327\116\300\350\132\155
\343\160\277\167\020\207\073\374\001\366\205\033\121\040\104\020\130\062
\251\165\030\325\321\124\227\107\342\047\152\364\232\063\370\111
\101\140\213\324\137\26\072\204\277\241\125\112\114\175\076\063\17
\117\137\154\166\136\240\113\067\221\236\334\042\346\155\316\024
\032\216\152\313\376\315\263\024\144\202\370\113\051\23\606\2277
\362\356\373\232\013\102\324\253\267\101\062\332\014\324\357\370
\201\132\257\232\151\030\077\265\033\350\11\105\024\216\033\026\010\004
\335\367\262\206\362\114\012\116\007\250\355\11\207\51\136\265\177
\243\220\303\257\047\002\003\001\000\001\124\143\060\141\060\016
\006\003\125\035\017\000\100\137\700\044\004\003\002\001\120\606\001\17
\006\003\125\035\020\23\001\000\137\700\044\005\060\003\001\001\377\060
\035\006\003\125\035\016\004\026\004\024\003\334\120\065\126\321
\114\273\146\360\024\334\023\033\033\033\027\262\075\321\112\506\003\17
\006\003\125\035\034\030\043\030\060\026\200\024\033\162\065\512
\321\114\273\146\360\243\342\030\033\033\027\262\075\321\125\060\120
\101\050\061\110\052\206\110\020\63\67\155\011\000\50\000\032\202
\001\000\100\133\234\047\252\110\023\022\012\372\335\104\234\117
\112\226\364\337\256\004\365\171\171\010\243\044\030\374\113\053
\204\300\055\271\325\037\376\364\301\037\130\313\270\155\324\172
\164\93\230\051\125\021\265\343\160\240\242\131\151\14\210\231\223
\214\221\160\342\225\230\070\342\276\223\251\137\143\235\344\007\140
\332\343\146\337\132\346\326\211\156\010\121\52\055\265\352
\167\112\237\235\030\324\053\131\300\100\043\355\055\050\020\105
\076\112\142\222\046\230\340\020\110\250\067\357\360\326\171\114\10
\026\336\254\350\016\131\156\254\104\027\070\057\111\133\324\110
\076\052\271\066\123\317\072\120\006\367\056\350\304\127\111\1154
\141\140\303\254\004\255\170\074\054\072\200\153\247\353\047\025
\024\351\133\021\130\127\070\154\342\221\154\212\377\144\271\18
\045\127\060\030\033\044\243\341\334\351\337\107\174\265\264\044
\101\050\060\354\275\013\277\110\027\120\271\251\363\353\230
\001\022\255\310\210\036\230\064\137\215\120\074\306\351\132\225
\225\151\336

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Certificate "DigiCert High Assurance EV Root CA"

# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"

END

END

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8 &quot;DigiCert High Assurance EV Root CA&quot;</td>
</tr>
<tr>
<td>CKA_CLASS</td>
<td>CK_OBJECT_CLASS CKO_NSS_TRUST</td>
</tr>
<tr>
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<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL CK_TRUE</td>
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</tbody>
</table>
# Trust for Certificate "SwissSign Platinum CA - G2"
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036

cka_nss_mozilla_ca_policy CK_BBOOL CK_TRUE
cka_nss_server_distrust_after CK_BBOOL CK_FALSE
cka_nss_email_distrust_after CK_BBOOL CK_FALSE

cka_nss_mozilla_ca_policy CK_BBOOL CK_TRUE
cka_nss_server_distrust_after CK_BBOOL CK_FALSE
cka_nss_email_distrust_after CK_BBOOL CK_FALSE

cka_class CK_OBJECT_CLASS CKO_NSS_TRUST
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "SwissSign Platinum CA - G2"
cka_cert_sha1_hash multline_octal
cka_cert_md5_hash multline_octal
cka_issuer multline_octal
cka_cert_sha1_hash multline_octal
cka_cert_md5_hash multline_octal
cka_issuer multline_octal
# Certificate "SwissSign Gold CA - G2"

# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036

END

# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "SwissSign Gold CA - G2"

END

# CKA(serializers)

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
Certificate "SwissSign Gold CA - G2"

Certificate "SwissSign Gold CA - G2"

Certificate "SwissSign Silver CA - G2"

Certificate "SwissSign Silver CA - G2"

\113\123\355\331\043\132\066\003\145\243\301\003\255\101\060\0363
\106\033\205\220\025\71\145\265\325\261\344\026\133\170\165\035\227
\172\155\131\251\052\221\71\173\336\303\020\71\020\231\111\163\170
\310\075\275\121\065\164\052\325\361\176\151\033\052\273\073\125
\045\270\232\132\075\162\141\220\146\207\146\356\014\326\115\324\021
\164\013\152\376\013\003\374\243\125\127\211\176\122\131\125\356\133
\027\005\310\136\215\043\061\123\070\122\055\152\077\202\271\125
\010\152\367\136\011\164\156\303\021\176\007\254\051\140\221\077
\070\031\127\020\011\257\145\265\101\134\220\146\207\350\101\240\332\256\005
\020\7\32\124\024\145\154\114\011\104\211\127\212\207\033\271\300\223
\212\060\372\215\345\232\153\025\001\116\147\252\322\142\126\076
\204\011\146\322\040\66\175\247\076\020\374\121\034\032\240\034\035
\000\275\252\363\116\006\243\127\152\237\142\162\140\333\011\117\353
\233\016\000\043\361\237\273\17\4\334\334\154\021\227\045\126\2362
\264\134\024\322\006\052\147\214\203\365\316\352\007\330\232\2152
\036\354\344\012\273\052\114\353\011\140\071\316\312\142\230\056
\156
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\233\252\345\237\126\356\041\313\103\132\276\045\223\337\247\360
\100\321\035\313
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\340\006\241\311\175\317\311\137\015\300\126\165\226\330\142\023
END

CKA_ISSUER_MULTILINE_OCTAL
\060\107\061\103\060\011\100\060\031\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\238\041\231\167\151\163\163\123
\151\147\156\040\010\107\061\041\100\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
# Certificate "SecureTrust CA"

# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\100\060\003\125\004\006\023\002\125\123\061\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165\162\145\124\162\165\163\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\100\060\003\125\004\006\023\002\125\123\061\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\014\360\216\060\202\001\134\010\002\026\245\255\102\177\360\035\047\030\131\320
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\270\060\202\002\240\204\000\03\002\001\002\002\020\014\360\216\134\010\002\26\245\255\102\177\360\035\047\030\131\130
END
# Trust for Certificate "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number: 0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\207\202\306\303\004\065\073\317\322\226\032\132\131\320
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\062\303\247\155\045\127\037\150\011\235\352\055\251\242\321
END
CKA_ISSUER_MULTILINE_OCTAL
\060\110\006\010\136\060\011\106\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "Secure Global CA"

# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After: Mon Dec 31 19:52:06 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\001\006\003\125\004\006\002\002\125\123\061\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040\03\157\162\160\157\162\141\164\151\157\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157\142\141\154\040\03\101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\001\006\003\125\004\006\002\002\125\123\061\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040\03\157\162\160\157\162\141\164\151\157\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157\142\141\154\040\03\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\150\132\122\211\115\156\023\310\360\137\352\245\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\112\061\013\060\011\006\003\125\004\006\002\012\125\123\061\104\060\03\125\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040\03\157\162\160\157\162\141\164\151\157\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157\142\141\154\040\03\101

END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\127\140\060\020\002\244\140\003\002\001\002\002\020\007\126\042\120\324\122\211\115\156\023\310\360\137\352\245\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\112\061\013\060\011\006\003\125\004\006\002\012\125\123\061\104\060\03\125\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040\03\157\162\160\157\162\141\164\151\157\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157\142\141\154\040\03\101

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Secure Global CA"
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After : Mon Dec 31 19:52:06 2029
CKA_TOKEN CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\104\163\132\345\201\220\037\044\206\141\106\036\073\234\304\317\364\047\015\324\355\334\145\026\111\155\075\332\277\156\336

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\112\060\007\126\042\244\350\324\212\211\115\364\023\310\360\370\352\245

CKA_ISSUER MULTILINE_OCTAL
\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020 \035\245

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "COMODO Certification Authority"

# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After: Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\010\061\013\060\011\006\060\03\125\004\006\023\002\107\012
\061\033\060\03\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\0060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\03\000\003\125\004\012\023\021\103\117\115\117\104\117
\040\010\010\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\013\117\115\117\04\010\03\145\162
\164\151\146\151\143\141\164\151\157\156\040\01\165\164\150\157
\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\010\061\013\060\011\006\060\03\125\004\006\023\002\107\012
\061\033\060\03\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\0060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\03\000\003\125\004\012\023\021\103\117\115\117\104\117
\040\010\010\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\013\117\115\117\04\010\03\145\162
\164\151\146\151\143\141\164\151\157\156\040\01\165\164\150\157
\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\061\013\060\011\006\060\03\125\004\006\023\002\107\012
\061\033\060\03\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\0060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\03\000\003\125\004\012\023\021\103\117\115\117\104\117
\040\010\010\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\013\117\115\117\04\010\03\145\162
\164\151\146\151\143\141\164\151\157\156\040\01\165\164\150\157
\162\151\164\171
END

CKA_VALUE MULTILINE_OCTAL
\060\020\010\061\013\060\011\006\060\03\125\004\006\023\002\107\012
\061\033\060\03\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\0060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\03\000\003\125\004\012\023\021\103\117\115\117\104\117
\040\010\010\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\013\117\115\117\04\010\03\145\162
\164\151\146\151\143\141\164\151\157\156\040\01\165\164\150\157
\162\151\164\171
END
# Trust for Certificate "COMODO Certification Authority"
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:ce5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

"Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7744"
# Certificate "Network Solutions Certificate Authority"
#
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After: Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

END


```
\164\171\105\116\132\131\164\020\132\166\171\130\130\105\016\102\067\015\\001\001\005\005\000\003\320\323\001\000\102\111\132\131\130\105\016\102\067\015\\035\116\132\125\055\026\167\163\107\205\152\301\134\44\245\035\344\047\074\\035\136\143\145\167\265\172\133\132\215\045\066\340\172\227\056\\070\030\127\140\203\230\006\203\237\271\166\172\156\120\340\272\\121\054\374\105\314\030\260\231\225\121\016\354\035\270\210\377\\207\120\034\202\302\343\340\062\200\077\240\013\107\310\303\061\\035\231\147\062\200\011\170\027\041\171\014\151\134\336\136\064\256\\002\226\046\352\120\337\177\030\145\054\311\136\143\341\251\007\\176\174\161\037\153\063\044\152\036\005\536\005\150\300\152\202\\313\056\136\141\133\125\050\032\323\176\026\146\221\046\137\074\\056\044\137\313\130\017\335\050\035\345\257\021\226\363\334\173\157\\300\247\210\362\123\167\263\140\136\256\256\050\032\065\054\157\\064\105\323\046\341\336\354\133\117\047\153\026\174\275\104\004\\030\202\263\211\171\027\020\161\075\172\242\026\116\365\001\315\\244\154\145\150\241\111\166\134\103\311\133\027\046\147\154\245\\224\265\324\134\271\127\152\065\126\041\136\330\303\353\373\313\\244\140\114\260\125\240\240\173\127\262
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Network Solutions Certificate Authority"
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
e3:90:31:68:e0
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\370\243\303\357\347\263\1220\006\113\203\220\074\041\144\140\\040\345\337\316
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\363\246\026\300\137\213\035\131\121\055\226\115\016\021\056
END

CKA_ISSUER_MULTILINE_OCTAL
\060\142\020\131\036\060\011\006\003\125\004\006\023\002\125\123\061\\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162\\153\040\123\157\154\165\164\151\157\156\163\040\14\056\114\056\\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
```
# Certificate "COMODO ECC Certification Authority"
#
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After : Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END
# Trust for Certificate "COMODO ECC Certification Authority"
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038

CKA_NSS_MOZILLA_CA_POLICY  CK_BBOOL  CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER  CK_BBOOL  CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER  CK_BBOOL  CK_FALSE

# Trust for Certificate "COMODO ECC Certification Authority"
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038

CKA_CLASS  CK_OBJECT_CLASS  CKO_NSS_TRUST
CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE  CK_BBOOL  CK_FALSE
CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
CKA_LABEL  UTF8 "COMODO ECC Certification Authority"
CKA_CERT_SHA1_HASH  MULTILINE_OCTAL
\237\164\116\237\053\115\272\354\017\061\054\120\266\126\073\216 \055\223\303\021
END

CKA_CERT_SHA1_HASH  MULTILINE_OCTAL
\174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043
END

CKA_ISSUER  MULTILINE_OCTAL
\060\020\120\056\061\103\060\001\11\006\003\125\004\006\023\002\107\102 \061\033\060\031\010\006\003\125\004\010\002\022\107\162\145\141\164 \145\162\040\115\141\156\143\150\145\143\164\145\162\061\020\060 \016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061 \013\020\060\030\006\003\125\004\012\023\021\103\117\151\17\104\117 \040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006 \003\125\004\003\023\024\102\117\151\17\104\104\105\103\101\104 \040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101 \165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER  MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143 \231\052
END

CKA_TRUST_SERVER_AUTH  CK_TRUST  CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION  CK_TRUST  CKT_NSS_TRUSTED_DELEGATOR
# Trust for Certificate "OISTE WISeKey Global Root GA CA"
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\042\241\341\132\352\026\065\041\370\230\071\152\106\106\260
\104\033\017\251

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\274\154\121\063\247\351\332\146\143\124\025\162\033\041\222\223

END

CKA_ISSUER MULTILINE_OCTAL
\06\02\12\06\10\13\06\01\11\00\06\03\12\05\00\04\00\06\02\03\02\103\110
\06\02\00\06\04\00\06\00\03\12\05\00\04\01\23\23\07\12\11\12\3\145\113
\145\17\06\01\03\00\06\03\10\06\00\03\12\05\00\04\01\03\23\02\103\157\160
"171"|162|151|147|150|164|140|050|143|051|040|062|060|060|065|061
|042|060|040|060|003|125|004|013|023|031|117|111|123|124|105|040
|106|157|165|160|144|141|164|151|157|156|040|105|156|144|157|162
|163|145|144|061|050|060|046|006|003|125|004|003|023|037|117|111
|123|124|105|040|127|11|123|145|113|145|171|040|107|154|157|142
|141|154|040|122|157|157|164|040|107|101|040|103|101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certigna"
#
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After: Tue Jun 29 15:13:05 2027
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"

END

CKA_ID UTF8 "0"

/171/162/151/147/150/164/040/050/143/051/040/062/060/060/065/061
/042/060/040/060/003/125/004/013/023/031/117/111/123/124/105/040
/163/145/144/061/050/060/046/006/003/125/004/003/023/037/117/111
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
END
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

7755
# Trust for Certificate "Certigna"
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number: 00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027

cka_class CK_OBJECT_CLASS CKO_NSS_TRUST
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "Certigna"
cka_cert_sha1_hash MULTILINE_OCTAL
cka_cert_md5_hash MULTILINE_OCTAL
cka_issuer MULTILINE_OCTAL
cka_serial_number MULTILINE_OCTAL
cka_trust_server_auth CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_email_protection CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "ePKI Root Certification Authority"

# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number: 15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:be:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After: Wed Dec 20 02:31:27 2034

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"

END

CKA_ID UTF8 "0"

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\145\015\361\176\216\176\133\202\100\244\364\126\113\317\342
\075\151\306\360
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\056\000\312\046\006\220\075\376\157\025\150\323\153\263
END

CKA_ISSUER MULTILINE_OCTAL
\060\136\061\133\060\011\100\000\125\000\000\125\000\000\125\000\000\125\000\000\125\000\000\125\000\000
\043\060\041\006\013\060\011\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\001\052\060\050\006\003\125\004\013\140\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\010\027\145\107\134\257\270\227\000\136\344\006\322
\274\235
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "certSIGN ROOT CA"
#
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7760
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\001\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\230\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\014\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\070\060\202\002\040\240\003\002\001\002\002\006\040
\006\005\026\160\002\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\006\073\061\013\060\001\106\006\003\125\004\006\023
\002\122\117\061\021\060\001\17\006\003\125\004\012\230\010\143\145
\162\164\123\111\107\116\061\031\060\027\006\003\125\004\013\023
\020\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103
\101\060\036\027\015\060\066\060\067\060\064\061\067\062\060\060
\064\132\027\015\063\060\060\067\060\064\061\067\062\060\060
\132\060\073\061\013\060\001\106\006\003\125\004\006\023\002\122\117
\061\012\060\001\17\006\003\125\004\004\012\230\010\143\145\162\164\123
\111\107\116\061\031\060\027\006\003\125\004\013\023\020\014\143\145
\162\164\123\111\107\116\040\122\117\117\124\040\103\101\060\020
\001\014\020\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\000\032\020\010\17\000\060\020\001\012\002\020\001\001\000\0267
\063\327\117\063\10\045\112\216\265\333\264\050\033\252\127\220\350
\321\142\323\144\272\323\222\350\324\254\061\14\100\152\140\127
\150\124\204\115\274\152\124\002\005\377\373\233\232\052\256\135
\007\217\112\033\050\177\373\373\035\372\171\361\307\255\360\020
\123\044\220\123\146\311\125\210\253\257\132\243\000\351\276\272
\106\356\133\163\173\054\047\207\202\011\361\42\054\241\002\145\263
\275\035\053\000\176\304\374\003\063\127\015\355\342\372\316\135
\105\326\070\315\065\266\262\031\032\023\420\11\12\252\344\262\001
\134\035\217\137\231\304\261\255\333\200\041\353\220\010\020\200
\363\060\243\103\346\420\202\256\250\051\11\355\133\327\251\020
\070\016\376\217\114\133\233\106\352\101\136\260\010\164\303\320
\210\063\266\174\327\164\337\334\204\321\103\016\165\071\241\045
\010\005\352\170\313\016\054\056\071\235\214\213\156\026\034\057
\046\202\020\342\343\145\224\012\004\300\136\367\135\133\370\020
\342\202\272\172\113\373\336\067\000\000\032\133\050\343\322\234
\163\076\062\207\230\241\311\121\057\327\336\254\063\363\117\002
\003\001\000\000\124\3\102\060\0100\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\016\060\003\125\035\017
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\372\267\356\066\027\046\142\373\055\260\052\366\277\003\375\350\174\113\057\233
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\030\230\300\326\351\072\374\371\260\365\014\367\113\001\104\027
END

CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\001\100\060\003\125\004\060\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
# Certificate "NetLock Arany (Class Gold) Ftanstvny"

# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanstvny"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\021\060\017\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\14\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\140\056\124\14\156\033\272\163\033\255\16\166\033
\241\156\171\153\151\141\144\030\023\153\040\050\013\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\014\040\050\013\154\141
\163\163\040\107\157\154\144\051\040\106\035\221\164\141\156\033
\272\163\033\255\164\166\033\241\156\171

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\021\060\017\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\14\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "NetLock Arany (Class Gold) Ftanstvny"
# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Fstanstvny"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\010\077\131\077\025\241\004\240\151\124\153\251\003\320\006
\267\227\011\221
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\241\267\377\163\335\326\327\064\062\030\337\374\074\255\210
END
CKA_ISSUER MULTILINE_OCTAL
\060\021\067\061\013\060\001\110\006\003\125\004\006\023\002\110\0125
\061\021\067\060\017\066\003\125\004\007\014\010\012\165\144\141\160
\145\163\164\061\025\060\023\066\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\050\161\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\104\060\050\103\154\141
\163\163\040\107\157\154\144\050\104\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\111\101\054\344\000\020
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Hongkong Post Root CA 1"
#
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\001\110\006\003\125\004\006\023\002\110\113\061
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Hongkong Post Root CA 1"
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After: Mon May 15 04:52:29 2023
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\332\250\040\215\011\322\025\115\044\265\057\313\064\156\262
\130\262\212\130
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\250\015\157\071\170\271\103\155\167\102\155\230\132\314\043\312
END
CKA_ISSUER MULTILINE_OCTAL
\060\010\061\013\060\001\006\003\125\004\006\023\002\110\113\061
# Certificate "SecureSign RootCA11"

# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029

cka_class CK_OBJECT_CLASS CKC_X_509
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "SecureSign RootCA11"
cka_certificate_type CK_CERTIFICATE_TYPE CKC_X_509
cka_subject_multiline_octal
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\03\101\040\001

002\002\003\350
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SecureSign RootCA11"
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\304\237\110\370\363\163\240\234\036\125\370\133\303\145\307\330\021\263
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\122\164\342\222\264\200\223\362\165\344\314\327\362\352\352\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\110\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\122\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\040\003
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "Microsec e-Szigno Root CA 2009"

# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"

END

CKA_ID UTF8 "0"

END

CGA_ISSUER_MULTILINE_OCTAL
\060\021\020\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\1160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\140\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\140\103\101\1040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\302\176\103\004\116\107\077\031
END

CKA_VALUE MULTILINE_OCTAL
\060\020\004\012\060\020\02\362\240\003\002\001\002\002\011\000\302\176\103\004\116\107\077\031\060\015\060\006\011\052\206\110\206

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7772
\004\310\277\332\315\171\270\103\220\360\244\276\357\362\357\041
\230\274\324\324\135\006\366\356\102\354\060\154\242\252\251\132
\361\257\212\372\077\013\163\152\076\352\056\100\176\037\256\124
\141\171\353\056\106\067\327\043\363\242\237\276\035\261\134\124
\165\333\242\032\242\026\272\034\051\124\030\366\022\272\224
\024\202\034\313\065\100\377\267\340\005\166\127\300\103\131
\362\370\277\344\355\045\142\134\204\360\176\176\037\263\276\371
\267\041\012\134\003\001\126\160\247\020\022\036\033\064\201\036
\255\234\032\033\004\074\355\002\141\326\036\006\363\137\072\207
\362\053\361\105\207\345\075\254\321\307\127\204\275\153\256\334
\330\371\266\033\142\160\013\075\066\311\112\362\062\327\172\141
\346\322\333\075\317\310\251\311\233\333\333\130\104\327\157\070
\257\177\170\323\243\255\032\165\272\034\106\174\217\036\155
\034\030\165\106\256\065\005\246\366\134\075\041\356\126\360\311
\202\042\055\172\124\253\160\033\175\042\145\202\160\226
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\337\164\376\134\364\017\112\200\371\134\067\175\124\332\221
\341\001\061\016
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\111\364\003\274\104\055\203\276\110\151\175\051\144\374\261
END

CKA_ISSUER MULTILINE_OCTAL
\060\020\120\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\033\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\14\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7774
The certificate is signed by GlobalSign Root CA - R3 with the following details:

**Issuer:** CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3

**Serial Number:** 04:00:00:00:00:01:21:58:53:08:a2

**Not Valid Before:** Wed Mar 18 10:00:00 2009

**Not Valid After:** Sun Mar 18 10:00:00 2029


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**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7775**

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# Trust for Certificate "GlobalSign Root CA - R3"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number: 04:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After: Sun Mar 18 10:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\233\126\021\110\360\034\167\305\105\170\301\011\046\337\133\205\151\166\255

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\337\270\111\131\200\050\023\125\356\055\272\032\030\076\260\050

CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\050\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\041\130\123\010\0242

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
\000\064\000\067\000\040\000\102\000\141\000\162\000\143\000\0145
\000\154\000\157\000\156\000\141\000\004\000\000\060\000\070\000\0060
\000\061\000\067\060\015\006\011\052\206\110\206\367\015\001\001
\005\050\050\000\03\02\00\2000\000\02\175\240\371\264\335\305\303
\353\255\113\044\265\241\000\025\335\245\210\112\262\017\125\113
\053\127\214\073\334\061\133\335\376\304\062\363\134\114\226\066
\062\203\034\054\245\062\167\327\343\104\266\300\02\105\2200\271\075
\152\156\174\233\233\232\55\374\303\326\243\346\144\051\174\321\341
\070\036\202\053\377\047\145\257\373\026\25\30\045\061\12\204\345
\265\377\372\244\107\275\144\062\273\336\045\024\242\047\102\365
\040\260\302\230\202\02\131\020\252\272\022\220\052\322\104\341
\226\046\035\306\111\102\237\350\322\311\006\317\164\036\251\113
\325\207\050\371\170\064\222\076\056\104\350\366\217\117\217\065
\077\045\263\071\334\143\052\220\153\040\137\304\122\022\116\227
\054\052\254\232\257\233\361\110\362\243\146\333\302\322\03\225\024
\146\247\236\045\017\351\013\063\222\114\050\12\132\033\331\124\022
\335\257\303\011\060\037\046\136\015\334\263\215\354\325\201\160
\336\322\17\044\005\363\154\116\365\114\111\146\215\322\177\332
\010\345\101\110\376\121\204\061\102\257\200\004\031\73\20\176\144
\111\344\362\337\242\354\261\114\300\052\035\347\264\261\145\242
\30\042\36\132\036\252\160\007\1\342\264\270\332\073\114\372\100
\042\060\133\021\246\363\005\016\306\002\03\110\253\206\233\205
\335\333\335\025\242\166\200\163\175\365\234\034\105\215\347
\271\034\123\236\352\237\165\321\162\261\133\361\165\104\347\102\175
\342\271\153\175\334\231\274\075\50\352\200\223\215\305\114
\145\301\160\201\270\070\374\103\061\262\363\003\064\107\262\254
\373\042\006\03\306\335\027\107\034\137\146\271\133\032\242\332
\021\126\124\242\274\043\311\344\276\027\377\271\224\260\370\135\040
\112\324\137\347\275\150\173\145\362\025\363\322\072\251\055\351
\330\153\044\254\227\130\104\107\255\131\030\361\041\145\160\336
\316\064\140\250\100\361\363\074\244\303\050\043\214\376\047\063
\103\100\240\027\074\353\352\073\260\162\246\243\271\112\113\136
\026\110\364\262\274\310\214\222\230\253\325\237\162\066\274\064
\200\064\153\251\123\222\300\270\273\355\354\166\123\365\044\001
\214\263\042\350\113\174\125\306\235\372\243\024\273\145\205\156
\1561\170\222\176\012\074\235\025
END

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\256\305\373\077\310\341\277\304\345\117\003\007\132\232\350\000
\267\367\266\372
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\163\072\164\172\354\273\243\226\246\302\344\342\310\233\300\303
END

CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\114\071\101\165\164\157\162\151
\141\141\140\140\140\140\140\140\140\140\140\140\140\140\140
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Izenpe.com"

# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"

# Certificate "Izenpe.com"

# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
# Trust for Certificate "Izenpe.com"

# Issuer: CN=Izenpe.com, O=IZENPE S.A., C=ES
# Subject: CN=Izenpe.com, O=IZENPE S.A., C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After: Sun Dec 13 08:27:25 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"

CKA_LABEL UTF8 "Izenpe.com"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\170\075\045\122\030\247\112\145\071\161\265\054\242\234\105\025\157\351\031

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\260\315\205\200\332\134\120\064\243\071\220\057\125\147\163

END

END

CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\001\100\060\003\125\004\006\023\002\105\123\061
\024\060\022\020\000\003\125\004\012\014\013\111\132\105\116\120\105
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\260\267\132\026\110\037\277\341\313\365\213\327\031


END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Chambers of Commerce Root - 2008"
#
# Issuer: CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid
# (see current address at www.camerfirma.com/address), C=EU
# Serial Number: 00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid
# (see current address at www.camerfirma.com/address), C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After: Sat Jul 31 12:29:50 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\256\013\060\011\060\003\125\004\006\023\002\105\125
\061\13\060\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\060\036\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\13\03\040\03\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\256\013\060\011\060\003\125\004\006\023\002\105\125
\061\13\060\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\060\036\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\13\03\040\03\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
# Trust for Certificate "Chambers of Commerce Root - 2008"

Issuer: CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid

(secret address at www.camerfirma.com/address), C=EU

Serial Number: 00:a3:da:42:7e:a4:b1:ae:da

Subject: CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid

(see current address at www.camerfirma.com/address), C=EU


Not Valid After: Sat Jul 31 12:29:50 2038


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Certificate "Global Chambersign Root - 2008"

# Issuer: CN=Global Chambersign Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid (see current address at www.camerfirma.com/address), C=EU

# Serial Number: 00:e9:cd:d3:e9:d5:23:ce

# Subject: CN=Global Chambersign Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid (see current address at www.camerfirma.com/address), C=EU

# Not Valid Before: Fri Aug 01 12:31:40 2008

# Not Valid After: Sat Jul 31 12:31:40 2038


# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL\n\170\152\164\254\166\253\024\177\234\152\060\120\272\236\250\176\n\376\232\316\074
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL\n\136\200\236\204\132\016\145\013\027\002\363\125\030\052\076\327
END

CKA_ISSUER MULTILINE_OCTAL\n\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125\n\061\103\060\010\006\003\125\004\007\023\072\115\141\144\162\151\n\144\040\050\163\145\145\040\143\165\162\151\145\156\164\040\141\n\144\144\162\145\163\163\040\141\164\040\167\167\167\167\056\143\141\n\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144\n\162\145\163\163\051\061\102\220\060\020\006\031\125\004\005\023\011\n\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125\004\005\023\011\n\000\012\023\022\010\013\040\103\141\155\145\162\146\151\162\155\n\141\040\123\056\101\056\061\051\060\047\006\031\125\004\003\023\n\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155\n\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060\n\070
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL\n\002\011\000\243\332\102\176\244\261\256\332
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7789
\223\256\231\240\357\045\152\163\230\211\133\072\056\023\210\0036
\277\300\222\224\064\033\344\047\267\213\036\157\102\377\347\351
\067\233\120\035\055\242\237\100\235\363\313\130\130\072\161\274\150
\343\252\301\257\034\050\037\242\334\043\145\077\201\352\256\231
\323\330\060\317\023\015\117\025\311\204\274\247\110\055\370\060
\043\167\330\106\113\171\155\366\214\355\072\177\140\021\170\364
\351\233\256\325\124\300\164\200\321\013\102\237\301
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\112\275\356\364\225\015\065\234\211\256\307\122\241\054\133\051
\366\326\252\014
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\014\056\301\066\275\376\226\220\156\010\363
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\103\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\167\167\056\143\141
\155\145\162\145\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\102\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\106\060\031\106\060\031
\004\002\023\022\101\103\040\101\141\155\145\162\146\151\162\155
\141\040\123\060\101\056\061\047\060\045\006\003\125\004\003\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL


END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Go Daddy Root Certificate Authority - G2"
#
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\003\010\007\006\003\125\005\004\002\125\121\125\121\125\005\003\125\004\001\023\007\101\162\151\172\157\156\141\061\023\060\021\006\003\125\004\006\023\002\125\123\061\120\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156\141\061\023\060\021\006\003\125\004\004\023\023\012\123\143\157\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\104\155\040\107\062

END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\002\003\006\101\013\060\011\006\003\125\004\006\023\002\125\123\061\120\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156\141\061\023\060\021\006\003\125\004\004\023\023\012\123\143\157\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\104\155\040\107\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7794
\131\147\003\141\361\176\073\006\061\165\055\241\040\216\117\145
\207\264\070\102\332\005\173\007\165\270\375\245\261\327\256
\366\327\336\023\123\020\176\212\106\321\227\372\267\056\053
\021\253\222\026\004\77\037\130\356\106\237\253\344\337
\154\263\320\027\235\075\331\044\117\171\221\065\326\137\043
\200\203\253\232\002\055\265\020\364\330\220\030\041\163\100\355
\162\045\240\072\123\354\236\253\150\022\221\127\306\217\022\072
\011\244\275\043\375\006\250\067\301\233\344\062\243\355\070\350
\330\144\363\054\176\024\374\002\352\237\315\377\007\150\027\333
\042\220\070\055\172\215\321\124\361\151\343\137\063\312\172\075
\173\012\343\121\177\137\071\144\354\232\165\272\305\166\030\063\316
\054\360\057\114\255\367\261\347\316\117\250\030\423\12\124\006
\305\177\175\325\010\017\342\034\376\176\027\270\254\136\366\324
\026\262\103\011\141\115\366\247\153\264\231\204\045\312\172\210
\134\232\104\276\134\367\352\034\125
END

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Go Daddy Root Certificate Authority - G2"
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\107\276\253\311\042\135\235\016\170\170\064\142\247\237\105\302
\124\375\346\213
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\072\274\042\301\134\037\321\235\073\047\112\062\033\232\001
END

CKA_ISSUER_MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\203\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7796
# Certificate "Starfield Root Certificate Authority - G2"
#
# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.".,L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.".,L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\072\173\061\042\060\040\041\010\043\015\163\157\157\154\157\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164
\173\003\023\004\161\151\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164
\176\141\023\001\022\043\164\162\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164\151\164
\171\040\055\040\010\070\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7797


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\166\132\036\166\136\064\300\003\050\226\126\231\121\263\360\177\244
\315\275\334\062\206\174\221\317\340\137\021\370\153\252\111\134
\321\123\122\43\321\242\334\143\133\011\166\265\126\142\341\113\164
0\355\226\324\046\324\010\004\131\230\016\016\346\336\174\303
\354\037\220\361\002\003\300\010\000\012\234\102\060\100\060\017\006
\003\125\039\230\001\001\137\77\004\005\060\003\000\010\137\77\060\016
\006\003\125\350\170\010\001\137\77\004\000\000\002\001\006\060\035
\006\003\125\350\160\004\026\000\004\241\174\014\062\037\247\331\060
\177\304\175\150\243\142\250\241\136\253\007\133\047\060\015\006
\011\052\206\110\206\367\015\001\010\13\035\000\003\320\200\010\001
\000\021\131\137\204\045\177\003\157\224\231\107\232\037\202\205\071
\324\166\005\224\136\341\050\223\155\142\213\011\302\240\250\032
\260\165\070\361\064\152\235\344\237\12\206\046\121\136\054\321
\306\055\156\225\040\112\222\001\135\270\212\147\173\061\342\147
\056\214\225\003\046\056\103\235\112\061\136\060\142\273\267
\342\067\177\042\272\000\243\016\173\122\373\153\273\073\304\323
\171\121\116\135\220\364\147\007\031\130\074\106\172\015\000\117\051
\305\134\371\155\346\205\060\027\232\044\304\020\340\004\367\340
\362\177\324\252\012\377\102\035\067\355\224\345\144\131\022\040
\167\70\032\230\062\076\070\201\165\226\163\372\150\217\261\133\16
\037\303\135\343\237\224\176\317\176\261\136\007\055\266\337\247\732
\124\277\320\227\005\112\274\352\030\050\002\220\275\124\170\011
\041\161\132\332\175\035\331\026\260\251\141\075\320\012\000\042
\374\037\173\013\011\144\105\013\073\100\201\367\175\174\062\365
\230\312\130\216\175\052\356\220\131\163\144\371\066\164\136\045
\241\365\146\005\056\177\071\025\251\052\373\120\213\216\205\151
\364

END

CKA_NSS MOZILLA_CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Starfield Root Certificate Authority - G2"
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc." ,L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```
# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7800
\040\055\040\107\070\076\020\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020\020\010\020

END

# Trust for Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,

### CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
### CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
### CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

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**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7802**
# Certificate "AffirmTrust Commercial"

# Issuer: CN=AffirmTrust Commercial, O=AffirmTrust, C=US
# Serial Number: 77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial, O=AffirmTrust, C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After: Tue Dec 31 14:06:06 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 “AffirmTrust Commercial”
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\000\003\125\004\012\014\013\101\014\016\015\116\155
\124\162\165\163\164\010\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\116\155\124\162\165\163\164\040\013\015\157\155\155
\145\162\143\151\141\154
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\000\003\125\004\012\014\013\101\014\016\015\116\155
\124\162\165\163\164\010\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\116\155\124\162\165\163\164\040\013\015\157\155\155
\145\162\143\151\141\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\261\174
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\114\060\020\002\064\240\003\002\001\002\002\125\167\060\015\011\052\206\110\206\367
\015\001\001\013\005\000\006\010\046\010\130\001\11\006\003\125\004
\006\023\002\125\123\061\024\060\022\000\003\125\004\012\014\013\101\014\016\015\116\155
\124\162\165\163\164\010\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\116\155\124\162\165\163\164\040\013\015\157\155\155
\145\162\143\151\141\154
END

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7804
# Trust for Certificate "AffirmTrust Commercial"

# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US

# Serial Number: 77:77:06:27:26:a9:b1:7c

# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US

# Not Valid Before: Fri Jan 29 14:06:06 2010

# Not Valid After: Tue Dec 31 14:06:06 2030


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7805
# Certificate "AffirmTrust Networking"

# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\046\103\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\261\174

CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\046\103\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154

END

# Certificate "AffirmTrust Networking"

# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\046\103\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154

END
# Trust for Certificate "AffirmTrust Networking"
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number: 7c:4f:04:39:1c:d4:99:2d
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220
\237\105\000\057

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\001\232\232\114\251\121\101\111\135\300\325\177

END

CKA_ISSUER MULTILINE_OCTAL
\060\014\006\011\036\000\011\006\003\132\500\04\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\031\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147

END
# Certificate "AffirmTrust Premium"

# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

END

END

END

END
# Trust for Certificate "AffirmTrust Premium"
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number: 6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After : Mon Dec 31 14:10:36 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\246\063\054\340\003\157\261\120\053\66\143\117\175\152\006\145
\046\062\050\047
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127
END
CKA_ISSUER MULTILINE_OCTAL
\060\101\100\100\100\003\125\004\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\103\406\032\006\003\125\004\003\104\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\155\214\024\106\261\246\012\356
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "AffirmTrust Premium ECC"
#
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number:74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After : Mon Dec 31 14:20:24 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\103\101\013\003\125\004\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\104\060\036\006\003\125\004\003\104\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_ID UTF8 "0"
# Trust for Certificate "AffirmTrust Premium ECC"
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number: 74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After: Mon Dec 31 14:20:24 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\043\153\000\057\035\026\206\123\001\125\154\021\244\067\312\353\377\303\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\144\260\011\125\317\261\325\231\342\276\023\253\246\135\352\115
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\100\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\101\164\127\045\212\207\077\172\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid After: Mon Dec 31 12:07:37 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\230\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\012\047\060\045\006\003\125\004\013\230\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\230\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\012\047\060\045\006\003\125\004\013\230\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\030
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\273\060\202\002\243\240\003\002\001\002\002\003\004
\104\300\060\015\006\061\105\206\110\206\367\015\001\001\005\005
\000\060\176\061\101\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\230\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\061\062\062\061\067\063\067\132\060\176\061\101\060\011\006\003\125\004\006\023\002\120\114
\162\165\163\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\010\043
END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid After: Mon Dec 31 12:07:37 2029
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Certum Trusted Network CA"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# CKA_CERT_MD5_HASH MULTILINE_OCTAL
# CKA_ISSUER MULTILINE_OCTAL
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After: Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
060137060101306001100600311250040060230021124127061
022060020006003112500401201401011241011111127101116
0551031010610200601600600311250040130140071221157
157164040103101061052060050006003112500404014041
12412710310104012211571571640401031451621641511146
151114311411641511571560401011651641501571621511164
171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
060137060101306001100600311250040060230021124127061
022060020006003112500401201401011241011111127101116
0551031010610200601600600311250040130140071221157
157164040103101061052060050006003112500404014041
12412710310104012211571571640401031451621641511146
151114311411641511571560401011651641501571621511164
171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020001001
END
CKA_VALUE MULTILINE_OCTAL
060137060101306001100600311250040060230021124127061
022060020006003112500401201401011241011111127101116
0551031010610200601600600311250040130140071221157
157164040103101061052060050006003112500404014041
12412710310104012211571571640401031451621641511146
151114311411641511571560401011651641501571621511164
171
Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma

# Trust for Certificate "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority, OU=Root CA, O=TAIWAN-CA, C=TW
# Serial Number: 1 (0x1)
# Subject: CN=TWCA Root Certification Authority, OU=Root CA, O=TAIWAN-CA, C=TW

END
# Not Valid After : Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\236\207\155\323\353\374\102\046\227\243\265\243\172\240\166
\251\006\043\110
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\010\217\366\371\173\267\362\261\247\036\233\352\352\275\171
END

CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\120\140\011\124\101\111\127\101\116
\055\103\101\061\120\060\16\006\003\125\004\013\014\007\122\157
\157\144\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Explicitly Distrust DigiNotar Root CA"
#
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
# Trust for Certificate "Explicitly Distrust DigiNotar Root CA"
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number: 0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CK_A_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
 CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

\314\310\242\237\312\360\150\275\153\035\262\337\215\157\007\235
\332\216\147\307\107\036\312\271\277\052\202\221\267\143\123\146
\361\102\243\341\364\312\115\130\153\265\344\244\063\255\134\160
\035\334\340\362\335\163\024\221\123\003\315\352\000\145\274\007
\374\317\022\021\042\054\256\240\275\072\234\242\052\330\131\351
\051\132\030\065\244\254\021\137\031\265\265\033\377\042\112\134
\306\172\344\027\357\040\251\247\364\077\255\212\247\232\004\045
\235\016\312\067\346\120\375\214\102\051\004\232\354\271\317\113
\162\275\342\010\066\257\043\057\142\345\301\323\160\333\174
\202\043\054\026\061\014\306\066\007\220\172\261\037\147\130\304
\073\130\131\121\260\214\120\263\330\206\313\150\243\304\012
\347\151\11\040\031\063\126\113\225\251\043\150\330\060\330
\303\353\260\125\121\315\345\375\053\270\365\273\021\237\123\124
\366\064\031\214\171\101\066\312\141\027\045\027\013\202\230\163
\014\167\164\303\325\015\307\250\022\114\307\247\124\161\107\056
\054\032\175\311\343\053\073\110\336\047\204\247\143\066\263\175
\217\240\144\071\044\015\075\173\207\257\146\134\164\033\113\163
\262\345\214\360\206\231\270\345\305\337\204\301\267\353
END
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\017\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377
\377\377
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"
#
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\140\061
\027\060\025\006\003\125\004\012\014\016\014\151\147\151\116\1157
\164\141\162\040\102\056\012\056\061\062\060\060\060\060\063\125\004
\003\014\051\104\151\147\151\116\157\164\141\162\040\102\013\111
\157\166\145\162\150\145\151\144\040\013\101\040\117\162\147\141
\156\151\163\141\164\151\145\040\055\040\107\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\140\061
\027\060\025\006\003\125\004\012\014\016\014\151\147\151\116\1157
\164\141\162\040\102\056\012\056\061\062\060\060\060\060\063\125\004
\003\014\051\104\151\147\151\116\157\164\141\162\040\102\013\111
\157\166\145\162\150\145\151\144\040\013\101\040\117\162\147\141
\156\151\163\141\164\151\145\040\055\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\017\377\377\377
END

CKA_VALUE MULTILINE_OCTAL
\060\202\006\225\060\202\004\175\240\003\002\001\002\002\004\017

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7824
# Trust for Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"

# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xfffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

# Trust for Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"

# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xfffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
# Certificate "Security Communication RootCA2"

# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\203\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\056\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\203\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\056\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_VALUE MULTILINE_OCTAL
\060\027\003\167\060\027\002\137\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\020\036\71\015\001\001\013\005\000\060
\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045
\060\043\006\003\125\004\012\023\034\123\105\03\117\115\040\124
\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\054\114\124\104\056\061\047\060\045\056\003\125\004\013\023
\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\143\141\164\151\157\156\040\122\157\157\164\103\101\062
\027\015\006\071\060\065\062\071\060\065\060\060\063\071\132\027
\015\062\071\060\065\062\071\060\065\060\060\063\071\132\060\135
\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045\060
\043\006\003\125\004\012\023\034\123\105\03\117\115\040\124\162
# Trust for Certificate "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\073\214\362\370\020\263\175\170\264\316\354\031\031\303\163\064\271\307\164
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\154\071\175\244\016\125\131\262\077\326\101\261\022\120\336\103
END

CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\001\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\104\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\104\010\157\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "EC-ACC"
#
# Issuer: CN(EC-ACC),OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)2003,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN(EC-ACC),OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)2003,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\073\066\071\073\060\060\011\006\003\125\004\006\023\002\105\123
\061\107\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\161\160\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\134\035\106\063\060\065
\060\063\006\003\125\004\013\023\054\121\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006
\105\103\055\101\103\103

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\136\061\103\060\060\011\006\003\125\004\006\023\002\105\123
\061\107\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\161\160\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\134\035\106\063\060\065
\060\063\006\003\125\004\013\023\054\121\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006
\105\103\055\101\103\103

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\356\053\075\353\324\041\033\040\024\250\142\254\004\363\335
\304\001
# For Server Distrust After: Sat Dec 28 00:00:00 2019
CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL

# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL

END

cka_nss_mozilla_ca_policy cK_BBOOL cK_TRUE

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7833
# Trust for Certificate "EC-ACC"
# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "EC-ACC"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272
\246\112\362\350
# CKA_CERT_MD5_HASH MULTILINE_OCTAL
\353\365\235\051\015\141\371\102\037\174\302\272\155\343\025\011
# CKA_ISSUER MULTILINE_OCTAL
\062\062\060\070\063\061\061\060\060\060\060\060\060\060\0132
END
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\356\053\075\353\324\041\336\024\250\142\254\004\363\335
\304\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Hellenic Academic and Research Institutions RootCA 2011"
#
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\0201\225\061\013\060\001\11\006\003\12\004\006\023\002\107\122
\061\104\060\102\006\003\12\004\012\023\073\11\014\15\154\145
\156\151\143\040\101\143\144\145\155\151\143\040\141\156\144
\140\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\12\004\004\033\023
\067\110\145\154\145\156\151\143\040\101\143\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\163\040\122\157\157
\164\103\101\040\062\060\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\0201\225\061\013\060\001\11\006\003\12\004\004\023\002\107\122
\061\104\060\102\006\003\12\004\012\023\073\11\014\15\154\145
\156\151\143\040\101\143\144\145\155\151\143\040\141\156\144
\140\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\12\004\004\033\023
\067\110\145\154\145\156\151\143\040\101\143\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\163\040\122\157\157
\164\103\101\040\062\060\061\061
END
```
0040260004024246221102375023\141\112043\236010244051
\345\330023004043\3561010450601070060031250335036004
\100060076240074060000520220030561147162600005202003
\0561451665060062020040561451444165060006202004056
\1571621470600052010030561471626060005201003056145
\1650600062010040561451444165060006201004056157162
\14706001500601105220611020636701500110010050000
\0032020010010000373357\1711013411731556077262214206
\0671021112116340670362115146272044201131111722210
\041130000322720604511551052230420511250154242015251
\053507050061\1332310723073143303232064177253016310116
\0340341372344334315011527627704433761543475153302015
\131000623611621511410502461528375345366142352030074
\1162240123235262072234353245234221026266115202340
\014005110251154365314370313235111264360002245375
\160003355212041245256023206111303063163276207073
\164212071050461114026222120376614717531511543147
\37232630032222170000621526114735521627726237117
\0023651263011057363114207337052331225174001314254
\0661722772421633172367217301625322410242622217063
\2370153570423341461731204275105027006075074312271
\1670642127312352317077061076343210343200111045310
\2272652352232331152600743701120002333435237071
\113321047237270
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After: Mon Dec 01 13:49:52 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_TRUE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\376\105\145\233\171\003\133\230\241\141\265\121\056\254\332\130
\011\110\042\115
END
```
# Explicitly Distrust "MITM subCA 1 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000005 (0x6b49d205)
# Not Before: Apr 7 15:37:15 2011 GMT
# Not After : Apr 4 15:37:15 2021 GMT
# Explicitly Distrust "MITM subCA 2 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000006 (0x6b49d206)
# Not Before: Apr 18 21:09:30 2011 GMT
# Not After : Apr 15 21:09:30 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 2 issued by Trustwave"

# Certificate "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030
# Trust for "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Actalis Authentication Root CA"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\163\263\207\006\132\050\204\212\362\363\112\316\031\053\335
\307\216\234\254
END
# Certificate "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040

# Certificate "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040

# Certificate "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040
### Certificate "Buypass Class 2 Root CA"

# Trust for "Buypass Class 2 Root CA"
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306
\013\022\100\231
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\247\322\376\105\373\144\132\250\131\122\023\170\104\233\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\001\006\003\012\50\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

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### Certificate "Buypass Class 3 Root CA"

# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After: Fri Oct 26 08:28:58 2040

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\166\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\107\063\061\066\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\166\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\107\063\061\066\063\062\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\131\060\020\003\101\124\003\002\001\002\002\001\000
\060\035\006\011\052\206\110\206\367\015\001\001\001\005\000\066
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\107\063\061\066\063\062\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101\060
\036\027\015\060\106\060\106\062\066\060\070\062\070\065\070\132
\027\15\064\060\061\106\062\066\060\070\062\070\065\070\132\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\107\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101\060
\020\002\024\060\015\006\011\052\206\110\206\367\015\001\001\000
\005\000\003\202\002\017\000\060\020\002\012\022\020\020\020\010\000
\245\332\012\225\026\120\343\225\362\136\235\166\061\106\062\172
\233\361\020\166\270\000\232\265\122\066\115\044\107\260\123\070\03
\144\274\232\266\037\325\171\133\022\012\41\14\024\057\336\070\075
\326\340\250\351\134\045\133\170\021\351\126\150\121\025\162\307
\363\363\120\034\240\013\013\134\340\127\007\052\060\365\315\034
\067\167\050\115\030\221\346\277\325\123\375\161\055\160\076\347
\306\304\012\343\360\050\133\364\166\230\241\123\070\125\262\072
\123\374\267\076\047\067\126\042\343\350\117\052\357\140\273\075
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "T-TeleSec GlobalRoot Class 3"
#
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\001\11\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\1037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\060\1045
\060\004\006\003\125\004\003\014\034\124\055\124\145\145\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\001\11\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\1037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\060\1045
\060\004\006\003\125\004\003\014\034\124\055\124\145\145\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\235\052\276
\021\343\201\321
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\132\373\100\250\116\071\222\212\035\376\216\057\304\047\352\357
END

CKA_ISSUER_MULTILINE_OCTAL
\060\201\202\061\103\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\344\033\041\164\033\176\300\356\136\151\052\045\257\134\326\035
\332\222\176\136\363\227\051\340\062\073\336\004\131\101\73\136\113
\324\144\205\113\232\157\045\004\036\311\106\251\227\336\202\262
\033\160\237\234\366\257\161\061\335\173\005\245\054\323\271\313
\107\366\362\266\364\227\55\271\110\077\274\026\267\301\155\364
\352\011\257\354\363\265\347\005\236\246\036\212\121\326\223
\201\134\164\223\366\271\332\246\045\005\164\171\132\176\100\076
\202\113\046\021\060\156\341\077\101\307\107\000\065\325\365\332
\367\124\076\201\075\332\111\152\232\263\357\020\075\346\353\157
\321\310\042\107\313\314\317\001\061\222\331\030\343\042\276\011
\036\032\076\132\262\344\153\014\124\172\175\103\116\270\211\245
\173\327\242\075\226\206\314\362\046\064\055\152\222\235\232\032
\320\060\342\135\116\004\260\137\213\040\176\167\301\075\225\202
\321\106\232\073\074\170\270\157\241\320\015\144\242\170\036\051
\116\223\303\244\124\024\133

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\235\052\276
\021\343\201\321
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\132\373\100\250\116\071\222\212\035\376\216\057\304\047\352\357
END

CKA_ISSUER_MULTILINE_OCTAL
\060\201\202\061\103\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\013\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\164\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\013\014\034\124\055\124\145\154\145\123
\145\163\040\125\004\013\014\034\124\124\122\125\123\124\040\105\154\145\153\164\162\157
\156\151\153\040\123\165\156\165\143\165\040\123\145\162\164\151
\146\151\153\141\163\304\261\040\101\101\101\172\155\145\164\154\145
\162\151\061\101\013\060\001\000\003\125\004\003\006\023\002\124\122\061
\136\060\134\006\003\125\004\012\014\125\124\032\234\122\113\124
\122\125\123\124\040\102\151\154\147\151\040\304\260\154\145\164
\151\130\135\237\151\155\040\166\145\040\102\151\154\151\130\237\151
\155\040\107\303\274\166\145\156\154\151\304\237\151\040\110\151
\172\155\145\164\154\145\162\151\040\105\236\056\040\050
\143\051\040\113\141\163\304\261\155\040\040\062\060\060\065
END

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik
# Sunucu Sertifikas.. Hizmetleri
# Serial Number: 2087 (0x827)
# Subject: CN=*_.EGO.GOV.TR,OU=EGO BILGI ISLEM,O=EGO,L=ANKARA,ST=ANKARA,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 1"

\060\020\125\040\061\075\060\073\060\060\003\125\004\003\014\064\124\303\123\113\124\122\125\123\124\040\105\154\145\153\164\162\157
\156\151\153\040\123\165\156\165\143\165\040\123\145\162\164\151
\146\151\153\141\163\304\261\040\101\101\101\172\155\145\164\154\145
\162\151\061\101\013\060\001\000\003\125\004\003\006\023\002\124\122\061
\136\060\134\006\003\125\004\012\014\125\124\032\234\122\113\124
\122\125\123\124\040\102\151\154\147\151\040\304\260\154\145\164
\151\130\135\237\151\155\040\166\145\040\102\151\154\151\130\237\151
\155\040\107\303\274\166\145\156\154\151\304\237\151\040\110\151
\172\155\145\164\154\145\162\151\040\105\236\056\040\050
\143\051\040\113\141\163\304\261\155\040\040\062\060\060\065
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\014

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 2", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik
Sunucu Sertifikas.., Hizmetleri
# Serial Number: 2148 (0x864)
# Subject: E=ileti@kktcmerkezbankasi.org,CN=e-islem.kktcmerkezbankasi.org,O=KKTC Merkez
Bankasi,L=Lefkosa,ST=Lefkosa,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Thu Aug 05 07:07:51 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 2"

# Certificate "D-TRUST Root Class 3 CA 2 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983F3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# Trust for "D-TRUST Root Class 3 CA 2 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"

# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\110\060\003\125\004\006\023\002\104\105\056
\025\060\023\006\003\125\004\012\014\014\014\014\055\124\162\165\163
\164\040\107\155\142\110\061\105\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\163\040\063\040\103\101\104\062\104\105\126\040\062\060
\060\071
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\110\060\003\125\004\006\023\002\104\105\056
\025\060\023\006\003\125\004\012\014\014\014\014\055\124\162\165\163
\164\040\107\155\142\110\061\105\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\163\040\063\040\103\101\104\062\104\105\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\103\030\060\202\003\105\032\040\030\002\001\100\02\002\003\011
\203\364\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\012\020\061\013\060\001\110\060\003\125\004\006\023\002\104\105
\061\125\060\023\006\003\125\004\012\014\014\014\014\055\124\162\165\163
\163\164\040\010\7\155\142\111\061\052\060\050\006\003\125\004\003
\014\014\014\014\040\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\104\062\104\105\126\040\062\060
\060\071
END
CKA_SERIALNUMBER MULTILINE_OCTAL
\002\003\011\203\364
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\103\030\060\202\003\105\032\040\030\002\001\100\02\002\003\011
\203\364\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\012\020\061\013\060\001\110\060\003\125\004\006\023\002\104\105
\061\125\060\023\006\003\125\004\012\014\014\014\014\055\124\162\165\163
\163\164\040\010\7\155\142\111\061\052\060\050\006\003\125\004\003
\014\014\014\014\040\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\104\062\104\105\126\040\062\060
\060\071
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\103\030\060\202\003\105\032\040\030\002\001\100\02\002\003\011
\203\364\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\012\020\061\013\060\001\110\060\003\125\004\006\023\002\104\105
\061\125\060\023\006\003\125\004\012\014\014\014\014\055\124\162\165\163
\163\164\040\010\7\155\142\111\061\052\060\050\006\003\125\004\003
\014\014\014\014\040\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\104\062\104\105\126\040\062\060
\060\071
END

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7858
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\311\033\013\225\264\020\230\102\372\320\330\042\171\376\140
\372\271\026\203

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\306\103\054\136\055\315\304\064\300\120\117\021\002\117\266

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\13\006\001\10\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\014\005\124\162\165\163
\164\040\107\155\142\11\006\105\060\050\06\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\023\064

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "CA Disig Root R2"
#
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number: 00:92:b8:88:db:bo:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

06012206111306001100600031250004006023002112311361
023060210060031250040007023012102162141116411511163
15411141661141606102360021006003125004012023012104
15116315114704011410561630560610310600270060003125
0040030230020103101040104151616315114704011221157157
1640401122062

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

06012206111306001100600031250004006023002112311361
023060210060031250040007023012102162141116411511163
15411141661141606102360021006003125004012023012104
15116315114704011410561630560610310600270060003125
0040030230020103101040104151616315114704011221157157
1640401122062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

00201100002222702103332602123011143

END

CKA_VALUE MULTILINE_OCTAL

0602020005151060202003112124000300200110020020111000
2222702103332602123011430600150060110522061110206
3670150001010130050000601220610130600110060003125
0040060230021231130610236002100600312500040070230
121021621411164115111631541141166114106120360021006
0031250040120230121041511631511470401141056163056
0611031060027006003125004003023020103101040104151
163151147040112215711571640401122062060036027015061
6206006706610710600710610650630600132027015064062
0600606107106007106106506306001320601122061013060
011100600312500400602300212311306102360021006003125
0250040702301210216214111641151116315411411661141061
203260021006003125004012023012104151163151147040
14110561630560610310600270060003125004003023020103
1011040104115116315114704012215711571640401122062060
2020020420600150060011052206110206367015001001001
005000003220200201700000600200020120020200201000
024224304000011326205135055155024366302303163236
06530216112517620113732531061203403011174111170346
2531711130074133237717403423733302270021700761153110
\156\215\023\155\373\173\353\060\320\034\115\257\305\325\266\245
\114\133\161\131\135\061\276\350\070\066\110\241\032\342\352\322
\336\022\071\130\032\377\200\016\202\165\346\267\311\007\154\016
\357\377\070\361\230\161\304\267\177\016\205\320\045\151\275\042
\235\053\355\005\366\106\107\254\355\003\360\324\073\342\354\356
\226\133\220\031\160\036\126\072\353\260\037\226\273\226\043\021
\272\362\103\206\164\144\225\310\050\165\337\035\065\272\322\067
\203\070\123\070\066\073\317\154\351\371\153\016\320\373\004\350
\117\161\327\145\000\170\206\014\172\076\041\142\361\177\143\161
\014\311\237\104\333\250\047\242\165\276\156\201\076\327\300\353
\033\230\017\161\134\064\262\212\131\143\020\050\333\156\172\263
\367\132\241\007\277\251\102\222\363\140\042\227\344\024\241\100
\233\116\166\030\216\175\375\144\045\307\107\355\377\037\163\254
\314\030\245\351\157\012\216\233\145\302\120\205\265\243\240\123
\022\314\125\207\141\363\201\256\020\106\141\275\104\041\270\032
\075\164\317\176\044\065\372\034\007\016\233\075\042\312\357\061
\057\214\254\022\275\357\100\050\374\051\147\237\262\023\117\146
\044\304\123\031\351\036\051\025\357\346\155\260\177\055\147\375
\363\154\033\165\106\243\345\112\027\351\124\43\327\013
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “CA Disig Root R2”
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 “CA Disig Root R2”

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302
06\43\07\331\161
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\001\373\330\047\247\027\232\105\124\070\032\103\001\073\003
END

CKA_ISSUER MULTILINE_OCTAL
\06\01\22\06\01\13\06\00\11\00\06\00\13\25\00\40\06\02\30\22\123\113\061
\02\3\06\00\21\06\00\03\12\5\00\4\00\7\02\3\12\1\6\1\4\0\1\6\4\0\1\63
\1\5\4\1\1\6\6\1\4\0\6\0\2\1\0\6\0\0\3\12\5\00\4\0\1\2\3\0\1\2\104
# Certificate "ACCVRAIZ1"

# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number: 5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After: Tue Dec 31 09:37:37 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\010\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\010\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\015\123

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\010\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\010\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\015\123

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\010\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\015\123

END

CKA_VALUE MULTILINE_OCTAL
\000\000\073\023\060\020\005\273\240\003\002\001\002\002\010\136
# Trust for "ACCVRAIZ1"

# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After: Tue Dec 31 09:37:37 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST 
CKA_TOKEN CK_BBOOL CK_TRUE 
CKA_PRIVATE CK_BBOOL CK_FALSE 
CKA_MODIFIABLE CK_BBOOL CK_FALSE 
CKA_LABEL UTF8 "ACCVRAIZ1" 
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "TWCA Global Root CA"
#
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 7869

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020020014276
END

CKA_VALUE MULTILINE_OCTAL
06020200051010602020030512400003002001002002002014
2760601015000601105220661102063670150010010113005000
0601210610130600111006003125004006230200124127061
02206002006000312500400120230111241011111127101116
055103101061020600160060031250040130230071221517
157164040103101061034060032006003125004003023023
1241271031010401071154157142141154040122157157164
04010310106003627015010620600660620670606606062
07006306313202701506306061062063061061065065071
06507113206001120610130601110060031250040060203002
1241270610220600200600031250040120230111124101111
12710111605510310106102060016006003125004013023
00712215715716404010310106103406003206003125004
0030203231241271031010401071154157142141154040122
15716404010310106003627015010620600660620670606606062
11020636701500100100005000003202002017000060202
002012002020020010000260005333310353214304156212
0401357121611523416101203711221603551552022342227305
132711411610511111313100210265022064154031302164244
0601137205002227354103063012112332232421216267270
1711335035325152362216146304356053001107222324263
1320002337120366125257146016131340107140057053062
071106512207020502033701730263060302701423326107045
22113616300301221152551433653230771651370515360241
060603452524023016620527535617503106663630432221103
21713723123620602047111114357335301361205160233312
325250321306374155820615716335106710525136066307
131421050362731540063772331530760273541141252161
174300635242367711135102526507433262421143650211367
001515735357022176320600073020512600111160460334
34332422502211520373022211052101343452302701611245
0255031311174165021314160164117055233035221104375
126050240376273206152031037213401313033430601113166
1310253042331163017245364132002211077117236042202
3562422164123052075123047151035154216602501444000
0461431410066116243106267077175263055254155220242
2252423163173322023470070640312623512700411252051
176246070272616051112041146171037263032659011147
cka_nss_mozilla_ca_policy ck_bbool ck_true
cka_nss_server_distrust_after ck_bbool ck_false
cka_nss_email_distrust_after ck_bbool ck_false

# Trust for "TWCA Global Root CA"
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
cka_class ck_object_class cko NSS_TRUST
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label UTF8 "TWCA Global Root CA"
cka_cert_sha1_hash multiline_octal
\234\273\110\123\366\244\366\323\122\244\350\062\122\125\023
\365\255\257\145
end
cka_cert_md5_hash multiline_octal
\371\003\176\317\346\236\074\163\172\052\220\007\151\377\053\226
end
cka_issuer multiline_octal
\060\121\061\103\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\23\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
end
cka_serial_number multiline_octal
\002\002\014\276
end
cka_trust_server_auth ck_trust ckt NSS_TRUSTED_DELEGATOR
cka_trust_email_protection ck_trust ckt NSS_TRUSTED_DELEGATOR
cka_trust_code_signing ck_trust ckt NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved ck_bbool ck_false

#
# Certificate "TeliaSonera Root CA v1"
#
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\124\145\154\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\022\255\276\026\240\367\056\106\361\173\071\120\162\372\213\315\226
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\070\060\202\003\040\024\003\002\001\002\002\021\000
\225\276\026\240\367\056\106\361\173\071\120\162\372\213\315\226
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122\157
\157\164\040\103\101\040\166\061\060\036\027\015\060\067\061\060
\061\070\061\062\060\060\065\060\061\320\271\15\063\062\061\160\060
\070\061\062\060\060\065\060\132\060\067\061\024\060\022\006\003
\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141
\061\037\060\035\006\003\125\004\003\014\026\124\145\154\151\141
\123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166
\061\060\202\002\040\020\001\052\206\110\206\367\015\001\015\201
\001\000\050\000\003\02\002\017\000\060\020\002\012\002\020\002
\001\000\030\202\076\035\047\360\041\243\363\151\046\125\176\235\305
\125\026\221\134\375\357\041\277\123\200\172\055\322\221\214\143
\061\036\350\044\360\033\324\322\162\174\020\155\364\067\267\345
\346\174\171\135\214\265\202\213\256\110\260\254\000\033\145\165
\354\052\115\137\301\207\365\040\145\053\201\250\107\076\211\043
\225\060\026\220\177\350\127\007\110\347\031\256\277\105\147\261
\067\033\006\052\237\63\363\172\51\175\203\373\136\272\234\217\227
\147\276\113\216\215\144\000\127\070\125\151\064\066\075\023\110
# Trust for "TeliaSonera Root CA v1"

## Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera


## Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera

## Not Valid Before: Thu Oct 18 12:00:50 2007

## Not Valid After: Mon Oct 18 12:00:50 2032


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "TeliaSonera Root CA v1"

CKA_ISSUER MULTILINE_OCTAL

```
\067\101\111\033\030\126\232\046\365\255\302\146\373\100\245\114
```

CKA_SERIAL_NUMBER MULTILINE_OCTAL

```
\002\021\000\225\276\026\240\367\056\063\036\173\071\202\162\372
\213\315\226
```
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "E-Tugra Certification Authority"
#
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A......L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A......L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
  \060\201\262\061\013\060\001\11\006\003\125\004\006\023\002\124\122
  \061\17\060\015\006\003\125\004\007\014\006\010\116\153\141\162
  \141\061\100\006\076\006\003\125\004\012\014\067\105\055\124\165
  \130\237\162\141\040\105\102\107\040\102\151\154\151\130\237\151
  \155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
  \166\145\040\110\151\172\155\145\154\145\162\151\040\101\056
  \130\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
  \124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
  \171\11\15\15\16\140\115\145\152\152\151\154\143\141\164\151\157\156\040\101\165\164\150
  \157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
  \060\201\262\061\013\060\001\11\006\003\125\004\006\023\002\124\122
  \061\17\060\015\006\003\125\004\007\014\006\010\116\153\141\162
  \141\061\100\006\076\006\003\125\004\012\014\067\105\055\124\165
  \130\237\162\141\040\105\102\107\040\102\151\154\151\130\237\151
  \155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
  \166\145\040\110\151\172\155\145\154\145\162\151\040\101\056
  \130\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
  \124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
  \171\11\15\15\16\140\115\145\152\152\151\154\143\141\164\151\157\156\040\101\165\164\150
  \157\162\151\164\171
END


# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
Teknolojileri ve Hizmetleri A.....,L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
Teknolojileri ve Hizmetleri A.....,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\306\347\010\111\006\156\363\322\324\320\320\323\260\015\155\243\142
\217\303\122\071

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111

END

CKA_ISSUER MULTILINE_OCTAL
\060\020\126\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\107\060\150\006\003\125\004\007\140\006\101\156\153\141\162
\141\061\010\060\007\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\130\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
# Certificate "T-TeleSec GlobalRoot Class 2"

# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

# Serial Number: 1 (0x1)

# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE


# Not Valid After : Sat Oct 01 23:59:59 2033

# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A


CA_CLASS CKA_OBJECT_CLASS CKO_CERTIFICATE
CA_TOKEN CK_BBOOL CK_TRUE
CA_PRIVATE CK_BBOOL CK_FALSE
CA_MODIFIABLE CK_BBOOL CK_FALSE
CA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CA_SUBJECT MULTILINE_OCTAL
06020120020610130600110060031125004000600311250040130140351050055
1241165114716214110401231451621461511461511451141163
171157156040115145162153145172151061050060046006
00312500400301403710550551241651471621411040103145
1621641511461511431411641511571560401011165164150
157162151164171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020101521500762234121233313123

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
<table>
<thead>
<tr>
<th>Key</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_NSS_MOZILLA_CA_POLICY</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td># Trust for “T-TeleSec GlobalRoot Class 2”</td>
<td></td>
</tr>
<tr>
<td># Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE</td>
<td></td>
</tr>
<tr>
<td># Serial Number: 1 (0x1)</td>
<td></td>
</tr>
<tr>
<td># Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE</td>
<td></td>
</tr>
<tr>
<td># Not Valid After : Sat Oct 01 23:59:59 2033</td>
<td></td>
</tr>
<tr>
<td>CKA_CLASS CK_OBJECT_CLASS</td>
<td>CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN CK_BBOOL CK_TRUE</td>
<td></td>
</tr>
<tr>
<td>CKA_PRIVATE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_MODIFIABLE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_LABEL UTF8 “T-TeleSec GlobalRoot Class 2”</td>
<td></td>
</tr>
<tr>
<td>CKA_CERT_SHA1_HASH MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_CLASS CK_OBJECT_CLASS</td>
<td>CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN CK_BBOOL CK_TRUE</td>
<td></td>
</tr>
<tr>
<td>CKA_PRIVATE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_MODIFIABLE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_LABEL UTF8 “T-TeleSec GlobalRoot Class 2”</td>
<td></td>
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<tr>
<td>CKA_CERT_SHA1_HASH MULTILINE_OCTAL</td>
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<tr>
<td>CKA_CLASS CK_OBJECT_CLASS</td>
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<tr>
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<td></td>
</tr>
<tr>
<td>CKA_MODIFIABLE CK_BBOOL CK_FALSE</td>
<td></td>
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<td>CKA_LABEL UTF8 “T-TeleSec GlobalRoot Class 2”</td>
<td></td>
</tr>
<tr>
<td>CKA_CERT_SHA1_HASH MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_CLASS CK_OBJECT_CLASS</td>
<td>CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN CK_BBOOL CK_TRUE</td>
<td></td>
</tr>
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<td>CKA_PRIVATE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_MODIFIABLE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_LABEL UTF8 “T-TeleSec GlobalRoot Class 2”</td>
<td></td>
</tr>
<tr>
<td>CKA_CERT_SHA1_HASH MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_CLASS CK_OBJECT_CLASS</td>
<td>CKO_NSS_TRUST</td>
</tr>
</tbody>
</table>
# Certificate "Atos TrustedRoot 2011"

# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number: 5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After: Tue Dec 31 23:59:59 2030
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Atos TrustedRoot 2011"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT MULTILINE_OCTAL
# CKA_ISSUER MULTILINE_OCTAL
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "Atos TrustedRoot 2011"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number: 5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After: Tue Dec 31 23:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"

CKA_ISSUER MULTILINE_OCTAL
\053\261\365\076\125\014\035\305\361\324\346\267\152\106\113\125\006\002\254\041
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\256\271\304\062\113\254\177\135\146\314\167\224\273\052\167\126
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060\061\060\015\060\013\030\060\003\125\004\012\014\004\101\164\157\163\061\013\060\011\006\003\125\004\006\023\002\041\105
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
Certificate "QuoVadis Root CA 1 G3"

Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 17:27:44 2012
Not Valid After: Sun Jan 12 17:27:44 2042

Certificate_Type CK_Certificate
Subject_MULTILINE_OCTAL
Issuer_MULTILINE_OCTAL
Serial_Number_MULTILINE_OCTAL
Value_MULTILINE_OCTAL

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7885
# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\033\216\352\127\226\051\032\311\071\352\270\012\201\032\163\163
\300\223\171\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\274\133\077\376\067\232\144\360\342\372\005\075\013\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\000\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\141\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\110\104\006\104\010\070\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "QuoVadis Root CA 2 G3"

# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\003\125\004\006\023\002\102\115\061
\031\060\027\000\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\141\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\110\104\006\104\010\070\063
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\011\074\141\363\213\213\334\175\125\337\165\070\002\005\000\341
\045\365\310\066
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\272\022\120\272\022\075\006
END

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\131\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073
\133\247\046\360\165\050
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After: Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\001\110\006\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\003\006\000\003\012\023\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103\101\040\006\03\040\107\063\END
# CKA_ID UTF8 "0"
# CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\001\110\006\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\003\006\000\003\012\023\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103\101\040\006\03\040\107\063\END
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\056\365\233\002\020\050\024\7\333\172\377\325\243\251\356\275\003\240\317\022\152\035\END
# CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\020\003\110\024\003\002\001\102\002\002\024\056\365\233\002\020\050\024\7\333\172\377\325\243\251\356\275\003\240\317\022\152\035\END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_After CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_After CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 7894
# Certificate "DigiCert Assured ID Root G2"

# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\066\101\013\060\001\100\066\003\125\004\006\023\002\112\25\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\056\144\151\147\151\143\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
CKA общественно используемый в Connected-Pharma 1.7.7 - Merck Connected Pharma 7895
# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL


\241\113\110\331\103\356\012\016\100\220\117\074\340\244\300\221
\223\121\135\077
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\222\070\271\137\143\044\202\145\054\127\063\340\244\300\221
END

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\230\141\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\230\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Assured ID Root G3"
#
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\230\141\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\230\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G3"
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\365\027\242\117\232\110\306\311\370\242\000\046\237\334\017\110
\054\253\060\211

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\177\145\061\014\201\133\72\15\272\076\231\342\134\255\156\373

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\130\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "DigiCert Global Root G2"

# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"

CKA_SUBJEC_MULTILINE_OCTAL
\060\141\061\013\060\001\006\001\132\500\004\000\023\002\125\123\061
\025\060\023\000\000\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\03\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\140\060\036\006\000\03\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\001\006\001\132\500\004\000\023\002\125\123\061
\025\060\023\000\000\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\03\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\140\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\346\024\027\021\251\240\027\050\144\261\035\011
\372\345
END

CKA_VALUE MULTILINE_OCTAL
\060\202\020\003\216\060\020\002\166\024\003\002\001\002\002\020\003
\072\361\346\024\027\021\125\240\027\050\144\261\035\011\1372\345
\015\050\011\052\026\110\206\367\015\01\01\103\005\000\060\141
\061\013\060\001\006\003\125\0040\006\023\0021\125\123\016\02506
\023\006\003\125\004\012\023\014\014\151\147\151\103\145\162\164

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7901
# Trust for "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "DigiCert Global Root G3"

# Issuer: CN=DigiCert Global Root G3,OU.www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU.www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\003\060\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\003\060\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\033\244\017\325\253
\105\162
END

CKA_VALUE MULTILINE_OCTAL
\060\020\002\077\060\020\001\130\524\003\002\001\002\002\020\005
\125\126\274\362\136\244\065\065\033\244\017\325\253\105\162\060
\012\006\010\052\026\110\316\075\004\003\003\060\141\061\013\060
\011\006\031\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\012\023\001\14\015\147\151\103\145\162\164\040\111\156
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056
\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036
\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040
\107\154\157\142\141\154\022\122\157\151\164\040\107\063\060\036
\027\015\061\063\060\070\060\061\061\062\060\060\060\060\132\027
\015\063\070\060\061\065\061\062\060\060\060\060\0132\060\0141
\061\103\060\011\063\031\125\004\003\023\200\022\125\123\016\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\03\106\027\006\003\125\004\013\023\020\0167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145
\162\164\040\010\154\157\142\141\154\040\122\157\151\164\040\107
\063\060\166\060\020\006\007\052\206\110\136\160\075\002\001\006\0005
\053\201\004\000\004\202\003\142\000\004\335\247\331\273\212\270\013
\373\013\177\041\132\23\60\276\276\163\363\063\135\032\274\064\352
\336\036\233\274\320\225\366\360\143\320\013\272\141\133\121\106
\176\236\055\237\356\216\143\014\027\354\007\160\365\317\204\056
\100\023\234\350\077\101\155\073\253\323\244\024\131\066\170\235
\003\130\036\020\154\162\336\256\201\247\241\153\265\103\316
\147\334\043\377\003\034\243\342\076\243\102\060\100\060\170\006
\003\125\035\023\001\000\137\000\040\005\060\003\000\011\377\006\016
\006\003\125\035\017\001\000\137\000\040\004\003\000\020\120\060\035
\006\003\125\035\016\004\026\004\024\263\333\110\244\371\241\305
\330\256\066\101\134\021\143\151\142\051\127\144\013\306\060\012\006
\010\052\206\110\316\075\004\003\000\033\150\000\000\145\002\006
\000\255\274\362\154\077\022\11\321\305\071\013\012\112\227\163
\364\13\066\214\210\047\273\346\210\215\120\205\247\143\371\1236
\062\336\146\223\031\361\134\261\011\127\335\154\253\372\153\177
\240\002\060\071\114\133\302\144\121\257\023\126\034\253\325\111
\324\355\037\334\332\111\117\027\001\270\031\206\217\116\214\210
\053\200\232\251\212\305\321\000\275\370\124\342\232\345\133\174
\263\047\027
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
# Certificate "DigiCert Trusted Root G4"

# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# Certificate "DigiCert Trusted Root G4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL\176\004\336\211\152\076\146\155\000\346\207\323\077\372\331\073\350\075\064\236

CKA_CERT_MD5_HASH MULTILINE_OCTAL\365\135\244\120\245\373\050\176\036\017\015\314\226\127\126\312

CKA_ISSUER MULTILINE_OCTAL\060\141\061\013\060\011\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\065\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036\006\003\125\004\003\023\027\041\151\147\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107\063

CKA_SERIAL_NUMBER MULTILINE_OCTAL\002\020\000\125\126\274\362\136\244\065\065\303\244\017\325\253\105\162

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
### KEY

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CLASS</td>
<td>CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8 &quot;DigiCert Trusted Root G4&quot;</td>
</tr>
<tr>
<td>CKA_CERT_SHA1_HASH</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_CERT_MD5_HASH</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_NSS_MOZILLA_CA_POLICY</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER</td>
<td>CK_FALSE</td>
</tr>
</tbody>
</table>

### Trust for "DigiCert Trusted Root G4"

- **Issuer:** CN=DigiCert Trusted Root G4, OU=www.digicert.com, O=DigiCert Inc, C=US
- **Serial Number:** 05:9b:1b:57:9e:8e:21:32:e2:39:07:bd:a7:77:75:5c
- **Subject:** CN=DigiCert Trusted Root G4, OU=www.digicert.com, O=DigiCert Inc, C=US
- **Not Valid Before:** Thu Aug 01 12:00:00 2013
- **Not Valid After:** Fri Jan 15 12:00:00 2038

**Fingerprint (SHA-256):**


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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7909
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7910
# Trust for "COMODO RSA Certification Authority"
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\257\345\322\104\250\321\031\102\060\377\107\237\342\370\227\273
\315\172\214\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\061\260\161\100\006\003\014\024\066\222\125\304\076\375\354\030
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\120\055\061\013\060\001\1\006\000\031\125\004\060\023\002\107\102
\061\033\060\031\126\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\0060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\010\103\101\040\114\141\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\102\123\101
\040\010\131\145\162\164\151\146\151\143\141\164\151\157\156\040\010
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
# Certificate "USERTrust RSA Certification Authority"

# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

# Certificate "USERTrust RSA Certification Authority"

# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END
# Trust for "USERTrust RSA Certification Authority"

# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\217\033\127\063\015\273\242\320\172\154\121\367\016\332\271\255
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\376\151\132\122\126\031\063\243\162\250\017\341\125\134\265 END

CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\000\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\033\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\060\105\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\001\375\155\060\374\243\312\121\250\033\274\144\016\065
\003\055 END
CAA TRUST_SERVER_AUTH CKA_TRUST CKA_NSS_TRUSTED_DELEGATOR
CAA TRUST_EMAIL_PROTECTION CKA_TRUST CKA_NSS_TRUSTED_DELEGATOR
CAA TRUST_CODE_SIGNING CKA_TRUST CKA_NSS MUST_VERIFY_TRUST
CAA TRUST_STEP_UP_APPROVED CKA_BBOOL CKA_FALSE

# Certificate "USERTrust ECC Certification Authority"

# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CAA_CLASS CKA_OBJECT_CLASS CKA_CERTIFICATE
CAA_TOKEN CKA_BBOOL CKA_TRUE
CAA_PRIVATE CKA_BBOOL CKA_FALSE
CAA_MODIFIABLE CKA_BBOOL CKA_FALSE
CAA_LABEL UTF8 "USERTrust ECC Certification Authority"
CAA_CERTIFICATE_TYPE CKA_CERTIFICATE_TYPE CKA_C X_509
CAA_SUBJECT MULTILINE_OCTAL
\060\020\012\010\061\010\063\013\060\006\003\012\050\000\004\010\023\012\011\066\014\015\067\040\012
\145\162\163\145\171\060\102\040\060\022\060\006\003\012\050\000\040\007\023\013
\012\145\162\163\145\171\040\010\031\015\164\171\061\036\060\034\006
\003\125\000\040\12\023\025\12\015\014\050\040\12\05\123\105\122\124\122
\125\123\124\040\116\014\016\016\171\162\153\061\056\060\054\006
\003\125\000\030\023\045\12\015\105\122\124\162\165\163\164\040
\105\103\103\040\013\014\156\162\164\151\146\151\143\141\164\151\157
\156\040\101\116\164\150\157\162\151\164\171
END
CAA_ID UTF8 "0"
CAA_ISSUER MULTILINE_OCTAL
\060\020\012\010\061\010\063\013\060\006\003\012\050\004\006\023\002\125\012
\061\023\060\021\006\003\012\050\004\10\023\012\1\161\145\167\040\012
\145\162\163\145\171\060\102\040\060\022\060\006\003\012\050\004\007\023\013
\012\145\162\163\145\171\040\010\031\015\164\171\061\036\060\034\006
\003\125\000\040\12\023\025\12\015\014\050\040\12\05\123\105\122\124\122
\125\123\124\040\116\014\016\016\171\162\153\061\056\060\054\006
\003\125\000\030\023\045\12\015\105\122\124\162\165\163\164\040
\105\103\103\040\013\014\156\162\164\151\146\151\143\141\164\151\157
\156\040\101\116\164\150\157\162\151\164\171
END
CAA_SERIAL_NUMBER MULTILINE_OCTAL
END

CKA_VALUE MULTILINE_OCTAL
\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200\314\046
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\313\312\135\262\325\052\177\151\073\147\115\345\360\132\035
\014\225\175\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\372\150\274\331\265\177\255\375\311\035\006\203\050\314\044\301
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\121\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\123\060\021\060\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\124\060\022\060\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\030\023\045\125\123\105\122\124\162\165\163\164\164
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200
\314\046
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "GlobalSign ECC Root CA - R5"
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\044\306\060\315\244\030\357\040\151\137\225\117\335\137\106
\072\033\151\252
# Certificate "Staat der Nederlanden Root CA - G3"

# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After: Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):

CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\020\140\025\123\164\141\141\164\040
\141\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\141\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\020\140\025\123\164\141\141\164\040
\141\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\141\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\020\140\025\123\164\141\141\164\040

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# Trust for "Staat der Nederlanden Root CA - G3"
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):

# Certificate "Staat der Nederlanden EV Root CA"
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\130\060\001\100\060\003\125\004\006\023\002\116\114\061\036\060\034\006\003\125\004\012\140\025\123\164\141\141\164\040\044\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040\014\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040\010\51\126\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\130\060\001\100\060\003\125\004\006\023\002\116\114\061\036\060\034\006\003\125\004\012\140\025\123\164\141\141\164\040\044\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040\014\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040\010\51\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\215
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\160\060\020\003\130\240\003\002\001\002\004\000\230\226\215
\006\060\034\006\003\125\004\012\140\025\123\164\141\141\164\040\044\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040\014\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040\010\51\126\040\122\157\157\164\040\103\101
End
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Staat der Nederlanden EV Root CA"
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END
# Certificate "IdenTrust Commercial Root CA 1"

# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):

CA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CA_TOKEN CK_BBOOL CK_TRUE
CA_PRIVATE CK_BBOOL CK_FALSE
CA_MODIFIABLE CK_BBOOL CK_FALSE
CA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\100\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\104\0061

END

CA_ID UTF8 "0"
CA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\100\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
# Trust for "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number: 0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034

cka_class CKO_NSS_TRUST
cka_token CK_TRUE
cka_private CK_FALSE
cka_modifiable CK_FALSE
cka_label UTF8 "IdenTrust Commercial Root CA 1"
cka_cert_sha1_hash MULTILINE_OCTAL
cka_cert_md5_hash MULTILINE_OCTAL
cka_issuer MULTILINE_OCTAL
cka_serial_number MULTILINE_OCTAL
cka_trust_server_auth CKT_NSS_TRUSTED_DELEGATOR
cka_trust_email_protection CKT_NSS_TRUSTED_DELEGATOR
cka_trust_code_signing CKT_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved CK_TRUE

# Certificate "IdenTrust Public Sector Root CA 1"
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number: 0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After : Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\010\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\012\200\000\000\000\105\043\317\106\174\000\000
\000\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\146\060\020\003\116\240\003\002\000\102\020\012
\001\012\200\000\000\000\010\043\317\106\174\000\000
\000\002
END

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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7936

# Trust for "IdenTrust Public Sector Root CA 1"

# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number: 0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After: Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

"IdenTrust Public Sector Root CA 1"
# Certificate "Entrust Root Certification Authority - G2"
# 
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".,C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".,C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\141\164\151\157\156\151\157\155\166\164\151\157\162\151\151\164\171\1040
\055\050\040\107\062\060\202\200\014\020\060\150\056\150\011\052\206\110\206
\367\150\150\100\010\005\000\000\032\202\001\17\000\060\202\000\101\12
\002\202\000\100\000\272\204\266\162\333\236\011\14\153\342\231\1351
\060\009\124\171\60\352\062\270\225\010\032\311\332\141\111\161\130\016
\317\366\366\202\171\277\163\141\006\001\22\245\047\330\263\137\3323
\105\110\034\162\326\116\062\362\162\212\017\167\203\031\130\20152
\200\200\000\105\036\260\307\347\232\277\022\12\047\034\243\150
\057\12\027\275\152\153\016\136\145\363\034\167\325\324\205\215
\169\044\126\263\062\347\213\242\325\206\071\100\226\012\070\322\107
\316\344\311\111\130\040\073\247\336\373\124\171\272\276\360\350\156
\302\17\12\072\013\112\53\241\12\023\002\062\023\134\057\170\10126
\301\130\22\24\263\362\132\44\047\232\237\044\327\036\354\320\233
\045\202\234\333\143\032\034\105\305\214\227\172\006\153\052\201\237
\251\012\156\110\073\157\333\324\021\031\102\367\217\007\277\365
\123\137\234\076\364\042\270\054\346\151\254\116\062\114\142\167\352
\267\350\345\273\064\274\031\12\252\234\141\123\43\267\176\265\123
\261\016\042\143\51\31\160\074\040\323\223\241\147\266\023\364
\215\245\257\142\114\115\340\130\254\144\064\022\100\370\266\215
\224\143\044\244\161\002\000\001\000\012\43\100\060\060\016
\006\003\125\035\017\001\001\177\004\004\003\002\000\201\006\060\017
\006\003\125\035\023\000\100\177\004\005\060\000\000\001\000\0177\060
\035\056\003\031\245\035\016\004\260\004\024\152\162\046\172\320\036
\357\175\347\073\151\112\324\154\215\237\220\022\146\253\060\015
\006\011\052\026\063\367\015\001\001\013\005\000\003\202\001
\001\000\107\112\037\055\226\063\062\171\077\042\125\027\207\323\207\003
\004\140\152\153\232\056\131\121\111\362\125\103\321\365\062\233
\215\071\053\030\136\275\117\160\214\251\015\073\252\027\304\013\124
\236\324\033\226\032\063\074\250\255\142\242\000\166\253\131\115
\156\006\035\176\304\271\110\042\152\023\057\202\324\141\333\012\031
\106\017\136\333\357\143\301\100\005\100\245\322\267\364\265\032
\066\027\251\210\166\210\004\125\004\053\234\207\177\032\067\074
\176\055\245\032\333\034\211\136\121\275\254\075\154\330\155\257
\325\363\166\071\035\107\321\070\042\235\154\223\232\304\075\227
\202\033\145\077\246\017\135\252\374\345\262\025\312\265\255\306
\274\075\320\204\350\352\006\162\260\115\071\026\170\277\076\021
\234\013\244\235\232\041\363\360\233\103\060\170\033\301\013\342\027
\103\376\274\143\232\312\035\020\343\110\037\215\377\073\022\130
\100\346\266\075\354\172\054\116\373\203\226\161\014\074\151\120
\124\163\244\163\302\223\377\211\020\254\025\124\001\055\304\105
\261\211\241\177\164\203\323\111\327\334\116\173\212\110\157\213
\105\366
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust Root Certification Authority - G2"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

END

END
# Trust for "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\330\006\100\337\233\045\072\021\352\367\131\212
\353\024\265\107
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\176\035\360\130\305\111\044\073\075\355\230\030\355\274
END

CKA_ISSUER_MULTILINE_OCTAL
\060\020\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\012\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\167\167\167\167\167\156\164\162\165
\163\164\056\156\145\145\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\006\026\061\062\040\010\156\164\162\165\163\164\054\040\111
\156\143\056\040\155\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\016\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\246\213\171\051\000\000\000\000\120\320\221\371
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#  
# Certificate "CFCA EV ROOT"
#  
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184acc6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
060126/061/013/060/011/006/003/125/004/006/023/002/103/116/061
060060/056/006/003/125/004/012/014/047/103/150/151/156/141/040
1061151/156/141/156/143/141/141/154/040/103/145/162/164/151/146
151/143/141/164/151/157/156/040/101/165/164/150/157/162/151/164
171/061/025/060/023/006/003/125/004/003/14/14/103/106/103/101
040/105/126/040/122/117/117/124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
060126/061/013/060/011/006/003/125/004/006/023/002/103/116/061
060060/056/006/003/125/004/012/014/047/103/150/151/156/141/040
1061151/156/141/156/143/141/141/154/040/103/145/162/164/151/146
151/143/141/164/151/157/156/040/101/165/164/150/157/162/151/164
171/061/025/060/023/006/003/125/004/003/14/14/103/106/103/101
040/105/126/040/122/117/117/124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002/004/030/112/314/326
END
CKA_VALUE MULTILINE_OCTAL
060202/005/215/060/202/003/165/240/003/002/001/002/002/004/030
005/000/060/126/061/013/060/011/006/003/125/004/006/023/002/103
116/061/060/060/056/060/003/125/004/012/014/047/103/150/151/156
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7946

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# Trust for "CFCA EV ROOT"

# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN

# Serial Number: 407555286 (0x184accd6)

# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN

# Not Valid Before: Wed Aug 08 03:07:01 2012
END

cka_nss.mozilla_ca_policy cK_bbool cK_true
cka_nss_server_distrust_after cK_bbool cK_false
cka_nss_email_distrust_after cK_bbool cK_false

# Trust for "OISTE WISEKey Global Root GB CA"
# Issuer: CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Subject: CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7849
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WiSeKey Global Root GB CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\371\100\166\030\323\327\152\113\230\360\250\065\236\014\375
\047\254\314\355
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\353\271\141\050\056\267\057\230\260\065\046\220\231\121\035
END
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\113\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\150\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\105\060\046\006\003\125\004\003\230\37
\117\111\123\124\105\040\127\111\123\145\133\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366
\302\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SZAFIR ROOT CA2"
#
# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After : Fri Oct 19 07:43:30 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
open source used in connected-pharma, 1.7.7 - merck connected pharma
# Trust for “SZAFIR ROOT CA2”

# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL


# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL

# Not Valid Before: Mon Oct 19 07:43:30 2015

# Not Valid After: Fri Oct 19 07:43:30 2035

# Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7952
# Certificate "Certum Trusted Network CA 2"

# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
\057\323\335\130\232\112\271\116\316\065\072\260\137\160\115\136\343
\051\136\159\139\030\056\016\131\126\253\302\214\246\064\034\167\054\046
\166\065\213\050\247\151\240\371\073\365\043\335\205\020\164\311
\220\003\126\221\347\257\272\107\324\022\227\021\042\234\242\111
\224\154\347\267\224\113\272\055\244\332\063\121\114\246\104\377
\13\207\306\035\144\330\265\061\344\246\074\172\250\127\013\333
\355\141\032\133\361\163\163\167\143\244\207\157\114\121\070\326
\344\137\307\073\237\266\201\052\344\205\110\171\130\136\073\370\333
\002\202\147\010\111\333\300\164\113\075\066\036\371\051\223\210
\150\133\250\104\031\041\360\247\350\201\015\054\350\223\066\264
\067\262\312\6\030\046\172\232\045\037\232\232\200\236\113\052
\077\73\243\232\237\061\6\026\161\302\236\306\162\341\121\150\047
\361\134\017\264\034\114\245\151\223\370\227\020\007\052\060\045
\251\271\310\161\270\357\150\314\055\176\365\340\176\017\202\250
\157\266\272\154\203\103\167\315\212\222\207\241\236\133\170\026
\075\105\342\063\162\335\341\146\312\233\312\333\113\050\463\375\015
\150\004\106\256\266\331\233\214\276\031\276\261\306\320\031\343
\134\002\312\054\333\057\117\120\073\331\311\065\332\100\165\362\304
\247\031\157\236\012\020\230\165\346\225\213\140\274\355\305\222
\327\212\316\325\230\303\134\126\226\003\305\356\167\006\065\377\317
\344\356\077\231\241\136\333\332\055\205\360\315\256\235\262\2030
\011\105\030\022\224\16\202\273\107\266\240\013\054\361\304\336
\103\150\010\152\137\073\360\166\143\373\314\006\054\246\306\342
\016\265\271\276\044\217
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\323\335\110\076\053\277\114\005\350\257\020\365\372\166\046\317
\323\334\060\222
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\106\236\331\045\155\010\043\133\136\164\175\036\047\333\362
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\001\11\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\140\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\215\351
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Hellenic Academic and Research Institutions RootCA 2015"
#
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\246\061\013\060\001\11\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7957
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
# Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015, O=Hellenic Academic and Research Institutions Cert. Authority, L=Athens, C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015, O=Hellenic Academic and Research Institutions Cert. Authority, L=Athens, C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After: Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# Certificate "ISRG Root X1"

# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERTIFICATE_TYPE CK_Certificate_Type CKC_X_509
CKA_SUBJ_MULTILINE_OCTAL
\060\117\061\013\060\001\110\060\003\125\004\006\023\002\125\123\061\051\060\047\006\003\125\004\006\023\002\125\123\061

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_TOKEN UTF8 "ISRG Root X1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\014\022\037\011\034\032\027\163\351\355\206\115\245\343\160\347\116
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\117\061\013\060\001\106\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\012\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END

CKA_ISSUER_MULTILINE_OCTAL
\020\202\100\000\020\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000
END
# Certificate "AC RAIZ FNMT-RCM"

# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After: Tue Jan 01 00:00:00 2030

Fingerprint (SHA-256):

Fingerprint (SHA1):

# Certificate_TYPE CK_Certificate_Type CKC_X_509

# SUBJECT_MULTILINE_OCTAL

# SERIAL_NUMBER_MULTILINE_OCTAL

# VALUE_MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE  CK_BBOOL  CK_FALSE
CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
CKA_LABEL  UTF8  "AC RAIZ FNMT-RCM"
CKA_CERT_SHA1_HASH  MULTILINE_OCTAL
\354\120\065\007\262\025\304\225\142\031\342\250\232\133\102\231
\054\114\054\040
END
CKA_CERT_MD5_HASH  MULTILINE_OCTAL
\342\011\004\264\323\275\321\240\024\375\032\322\107\304\127\035
END
CKA_ISSUER  MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_SERIAL_NUMBER  MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
END
CKA_TRUST_SERVER_AUTH  CK_TRUST  CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION  CK_TRUST  CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING  CK_TRUST  CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED  CK_BBOOL  CK_FALSE

# Certificate "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS  CK_OBJECT_CLASS  CKO_CERTIFICATE
CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE  CK_BBOOL  CK_FALSE
CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
CKA_LABEL  UTF8  "Amazon Root CA 1"
CKA_CERTIFICATE_TYPE  CK_CERTIFICATE_TYPE  CKC_X_509
CKA_SUBJECT  MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061

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&&100600150060011052206d1102060367015000100010130005000
1003202000100010002030362007113210112202410323051661121
0500400660430161256334600502732523702242561110244060
\17703337440442151132643102412273662663611172160310
\12322313140100503432300453170432443713360411323174
\20501112551165072302013115222111701664104107030
\145154121510121607311772323133642652471203270005054
\06735000311325535114124000021563356362360305262355
\133267334372241341672360232451772122552253623270
\2230733621313413331213212211331405257024367113357
\2433533237100225155061124374102323037106037043255
\33101711101602333116517016132116210306411651561127
\13110200201340461400051317043031026216210103245324
\3443101030373043021103501030511621422412511351136
\10103242202562570330316024302320125362206366034223
\1031167146141300271350101327227170140003156112162
\2562453211752720202362606154033212271131063370353
\304220276361271
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\2152473711453541363740672210170341156131375301314
\152156336026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103306277256354376255057030306221011500600374310346
END
CKA_ISSUER MULTILINE_OCTAL
\0600710610135060111006003125004006023002125123061
\017060015006003125004012023061011155141172157156
\061031060027006003125004003023020101155141172157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\134\223\360\170\212\103
\346\226\066\133\312
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Amazon Root CA 2"
#
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\071\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\101\060\202\003\051\240\003\122\102\002\023\006
\154\237\322\226\065\206\237\012\017\345\206\170\370\133\046\273

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\214\357\105\327\246\230\131\166\172\214\213\104\226\265\170
\317\107\113\032
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\061\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Amazon Root CA 3"

# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112

END

CKA_VALUE MULTILINE_OCTAL
\060\202\001\266\060\202\000\011\133\240\003\002\001\002\002\023\006
\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\015\104\335\214\074\214\032\032\130\165\144\201\351\017\056\052\377\263\322\156
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\240\324\357\013\367\265\330\111\225\052\354\365\304\374\201\207
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\056\040\122\157\157\164\040\103\101\040\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350\236\166\003\362\112
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Amazon Root CA 4"
#
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_ISSUER MULTILINE_OCTAL
\145\002\060\072\213\041\361\275\176\021\255\320\357\130\226\057
\326\353\235\176\220\215\053\317\146\125\303\054\343\050\251\160
\012\107\016\360\067\131\122\377\055\231\224\050\116\052\117\065
\115\063\132\002\061\000\035\213\041\361\275\176\021\255\320\357\130\226\057
存储
# Certificate "Symantec Class 1 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\060\033\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\033\125\004\013\023\026\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\146\167\157\162\153
\061\105\060\010\030\060\033\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\104\010\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\104\055\040\107\066
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\060\033\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\033\125\004\013\023\026\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\146\167\157\162\153
\061\105\060\010\030\060\033\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\104\010\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\104\055\040\107\066
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320
\363\230
END
# For Email Distrust After: Wed Aug 31 00:00:00 2022

CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\060\060\060\060\060\132 END

# Trust for "Symantec Class 1 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US


# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US

# Not Valid Before: Tue Oct 18 00:00:00 2011

# Not Valid After : Tue Dec 01 23:59:59 2037

# Fingerprint (SHA-256):


# Fingerprint (SHA1):


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\177\141\036\051\221\153\123\202\347\162\022\371\106\075\124\032\174\260 END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\057\250\264\332\366\144\113\036\202\371\106\075\124\032\174\260 END

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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7984
# Certificate "Symantec Class 2 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):

cka_class cK_OBJECT_CLASS CKO_CERTIFICATE
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
cka_certificate_type CK_CERTIFICATE_TYPE CKC_X_509
cka_subject multiline_octal
\060\020\224\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\170\104\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
end

cka_serial_number multiline_octal
\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320
end

cka_trust_server_auth cK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_email_protection cK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_code_signing cK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\000\013\125\004\006\023\002\125\123
\061\035\060\033\000\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\157\162\161\057\162\141\164\151\157\156\061
\037\060\035\000\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\012\164\162\165\163\164\011\165\167\157\162\153
\061\105\060\033\000\003\125\004\003\023\020\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\101

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\366\060\020\002\336\240\003\002\001\002\002\020\144
\202\236\374\067\036\164\135\374\227\377\227\310\261\377\101
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\006\020\01
\224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035
\006\033\000\003\125\004\012\023\024\123\171\155\141\156\164\145
\134\030\013\157\162\161\157\162\141\164\151\157\156\061\037\060
\035\000\003\125\004\013\023\026\123\171\155\141\156\164\145\143
\040\124\162\165\163\164\040\116\145\164\167\157\162\153\061\010
\060\030\000\003\125\004\003\023\074\123\171\155\141\156\164\145
\143\040\103\154\141\163\163\040\062\040\120\165\142\154\151\143
\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\140\055\040\107\066\060\036\027\150\106\010\060\010\060
\060\060\060\060\060\060\132\027\015\063\067\061\062\060\061\062\063
\065\071\067\071\132\060\201\122\040\013\030\011\006\003\013\250
\006\023\002\125\123\061\035\060\030\000\003\125\004\012\023\024
\123\171\155\141\156\164\145\143\040\103\157\162\160\157\162\141
\164\151\157\156\061\037\060\035\000\003\125\004\013\023\026\123
\171\155\141\156\164\145\143\040\124\162\165\163\164\040\116\145
\164\167\157\162\153\015\060\013\030\000\003\125\004\003\023\074
\123\171\155\141\156\164\145\143\040\103\153\141\163\163\164\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\166
\164\150\157\162\151\164\171\040\055\040\107\066\060\020\001\004
\060\015\006\011\005\220\061\102\060\367\015\001\001\001\005\000
\003\202\001\017\000\006\020\020\001\012\002\020\001\000\003\135\143\351
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# For Email Distrust After: Wed Aug 31 00:00:00 2022

# Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust

END
# Certificate "D-TRUST Root CA 3 2013"

# Issuer: CN=D-TRUST Root CA 3 2013, O=D-Trust GmbH, C=DE
# Serial Number: 1039788 (Oxffdac)
# Subject: CN=D-TRUST Root CA 3 2013, O=D-Trust GmbH, C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
0600105061010306001110060003125000400602300211041105061
02506002300600031250040120140141040551241162165163
16404010715514211006103706035006003125004003014
02610405512411221251123124040122115711571640401031101
040063040062060061063

END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0600105061010306001110060003125000400602300211041105061
02506002300600031250040120140141040551241162165163
16404010715514211006103706035006003125004003014
02610405512411221251123124040122115711571640401031101
040063040062060061063

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002003017335254

END
CKA_VALUE MULTILINE_OCTAL
0600202000401606020200236624000030020010020020030117
03351254060015060011105220611102063670150010101103005
00006010506101030600111006000312500400602300211041105061
0610256002300600031250040120140141040551241162165163
16404010715514211006103706035006003125004003014
02610405512411221251123124040122115711571640401031101
040063040062060061063

END
# Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfddac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After: Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"

# Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu
# Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
0611033543160473543355072077013217015344350
2213355356312
# Certificate "GDCA TrustAUTH R5 ROOT"

# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.".,C=CN

# Serial Number: 7d:09:97:fe:f0:47:ea:7a

# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.".,C=CN

# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After: Mon Dec 31 15:59:59 2040

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

# CKA_TOKEN CK_BBOOL CK_TRUE

# CKA_PRIVATE CK_BBOOL CK_FALSE

# CKA_MODIFIABLE CK_BBOOL CK_FALSE

# CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"

# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# CKA_SUBJECT MULTILINE_OCTAL

# CKA_ISSUER MULTILINE_OCTAL

# CKA_SERIAL_NUMBER MULTILINE_OCTAL

# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7995
# Trust for "GDCA TrustAUTH R5 ROOT"
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.".C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.".C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\066\070\133\201\032\045\303\233\061\116\203\312\351\064\146
\160\314\164\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\066\010\13\060\001\110\060\003\125\004\006\023\002\103\116\061
\062\060\060\060\000\03\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 7998
# Certificate "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After : Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_SUBJECT MULTILINE_OCTAL
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"

CKA_SUBJECT MULTILINE_OCTAL
\2722\2712\2363\5417\1600\001\164\372\223\255\1540\051\222\256\121\264
\2733\2321\2772\2633\3632\2501\2152\2343\640\0441\113\052\3262\231\236
\3642\3637\6300\1761\0207\2347\0113\2252\1233\3222\2671\1500\16220
\1143\3731\6200\0177\2111\12054\2243\6304\6635\3301\143151\2511\224330
\0201\1630\0170\0101\2202\2310\3300\2721\115271\1541\1563571\140222
\0211\2264\0141\2026\2575\2401\1633\3300\3202\2621\1673\3041\0503\352132
\0463\3731\146166\1663700063\03711411550171\125305203\267020
\1261\6200\00072453\63261032003003454410016235132212326
\2061\6003\340443363760502120533201522603374172242334
\2621\1710\1621314501700200301010000001243143060141060
\03500600312503501600040260040243561531111074172077
\0153432610112672123102530311237163063120347060037
\006003\12503504300400406026200024356153111074172
\07701534332610112672123102530311237163063120347060
\01700600312503502300100113770040050600030010013177
\06001600600031250350170010011377004004000000002001206
\06001500600011052206110012063670150010001103005000003
\02020010001000450303242212170233652617036035021123
\33205510405010312403061530612361120162360255075134
\101115722520503404241171230720706063732731146236110
\37722022035707532427023264207165077040233316162
\3137241125301115114424203100624101070630140130511345
\3613352233243534265021164220307175162362327134237
\2213357221213267334355146242317216146073274237072
\00234004733502623030225324501224434201232165224
\06523422013721067006255131225012126032147323031
\31221137402612306034076202250132223276306320144
\221212663173312660303173331763322145243246304216027
\06133013731761663333323205343130262167172166073154
\0571200334373333366147171037365202225232007247024
\25727133490504114701113223262115132034031034216167
\1343032240440750621531131763241702242032760671115
\316137307036616074340211063225013017245062326074
\1321711054031
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
# R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ee:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
# R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After: Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\377\275\315\347\202\310\103\136\074\157\046\206\134\312\250\072
\105\133\303\012
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\156\205\361\334\032\000\323\042\325\262\262\254\153\067\005\105
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\107\060\015\060\003\125\004\010\001\140\006\120\141\156\141\155
\141\061\024\060\002\22\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\150\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\163\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\201\000\032\233\354\161\163\003\260\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "TrustCor RootCert CA-2"
#
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.L.=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.L.=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 8002
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\017\060\015\006\003\125\004\006\023\002\120\010
\061\017\060\015\006\003\125\004\010\014\006\120\014\156\141\155
\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\017\060\015\006\003\125\004\006\023\002\120\010
\061\017\060\015\006\003\125\004\010\014\006\120\014\156\141\155
\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\131\131\002
END
CKA_VALUE MULTILINE_OCTAL
\060\020\124\040\061\130\060\011\011\060\003\125\004\006\023\002\120 \010
\061\017\060\015\006\003\125\004\010\014\006\120\014\156\141\155 \141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141 \155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012 \101\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145 \155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060 \045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162 \104\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164 \150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014 \1026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145 \162\164\040\103\101\055\062
END
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 8004
END

# Trust for “TrustCor RootCert CA-2”
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\276\155\313\126\361\125\271\143\324\022\312\116\006\064\307
\224\262\034\300
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\341\370\030\013\272\105\003\125\067\052\273\067\122\105\144
END
CKA_ISSUER MULTILINE_OCTAL
\060\017\060\015\060\006\003\0125\004\006\023\002\120\010
\061\017\060\015\060\006\003\0125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\020\006\003\0125\004\007\014\013\120\141\156\141
\155\141\040\010\033\151\164\171\061\044\060\042\006\003\0125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\153\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\0125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\115\165
\150\157\162\151\164\171\061\037\060\035\006\003\0125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TrustCor ECA-1"
#
# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:84:82:2c:5f:1c:62:0d:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama
City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:D8:84:0B:C8:78:BD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\010\234\061\013\060\011\006\003\125\004\006\023\002\120\010
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\016\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\035\060\040\144\145\040\122\056\114\056\061\047\060
\045\006\033\125\004\013\014\036\124\162\165\163\164\010\157\162
\040\013\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\013\157\162\040\015\010\101\055\061
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\020\123\040\061\013\060\011\006\003\125\004\006\023\002\120\010
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\016\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\035\060\040\144\145\040\122\056\114\056\061\047\060
\045\006\033\125\004\013\014\036\124\162\165\163\164\010\157\162
\040\013\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\013\157\162\040\015\010\101\055\061
END
CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100
END
CKA_VALUE_MULTILINE_OCTAL
\060\020\123\040\061\013\060\011\006\003\125\004\006\023\002\120\010
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\016\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\035\060\040\144\145\040\122\056\114\056\061\047\060
\045\006\033\125\004\013\014\036\124\162\165\163\164\010\157\162
\040\013\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\013\157\162\040\015\010\101\055\061
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor ECA-1"
# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama
# City, ST=Panama, C=PA
# Serial Number: 00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama
# City, ST=Panama, C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After: Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\321\337\225\225\147\153\143\300\360\133\034\027\115\213\204 \013\310\170\275
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\222\043\035\012\365\100\174\351\346\153\235\330\365\347\154
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\234\065\013\060\011\006\003\125\004\006\023\002\120\010 \061\017\060\015\060\003\125\004\010\014\006\120\141\156\141\155 \141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141 \155\141\040\013\151\164\171\061\044\060\042\006\003\125\004\012 \014\033\124\162\165\163\164\013\157\162\040\123\171\163\164\145 \155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
END

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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 8009
# Certificate "SSL.com Root Certification Authority RSA"

# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 17:39:39 2041

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 8010
# Trust for "SSL.com Root Certification Authority RSA"
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\267\253\063\010\321\352\104\167\272\024\200\022\132\157\275\251
\066\111\014\273
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\206\151\022\300\160\361\135\254\254\302\235\274\245\133\241\051
CKA_ISSUER MULTILINE_OCTAL
\060\174\060\101\133\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\140\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\140\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After: Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\0174\061\0113\060\0111\006\003\125\004\060\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\003\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\111\015\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\160\061\060\005\070\006
\003\125\004\003\014\050\123\114\056\143\157\155\040\122\157
\157\164\040\03\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\010\03\103
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\0174\061\013\060\0111\006\003\125\004\060\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\003\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\111\015\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\160\061\060\005\070\006
\003\125\004\003\014\050\123\114\056\143\157\155\040\122\157
\157\164\040\03\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\010\03\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\165\346\337\313\301\150\133\250

END

CKA_VALUE MULTILINE_OCTAL
\060\020\020\022\215\060\020\022\024\240\003\002\001\002\002\010\165
\346\337\313\031\150\133\250\060\012\006\010\052\206\110\316\075
\004\003\002\060\174\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016

```bash
141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165
\163\164\157\156\030\060\026\006\003\125\004\012\014\017\123
\123\114\040\103\157\162\160\151\151\157\156\061\061
\060\057\006\003\125\004\003\014\005\012\133\114\151\157\155\040\122
\157\157\156\140\040\103\157\162\164\151\146\151\143\141\164
\151\157\156\040\116\165\161\150\157\162\151\164\171\040\105\103\103\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\004\342\032\125\123\114\164\151\157\156\061\061\060\057
\006\003\125\004\003\014\005\012\133\114\151\157\155\040\122
\157\157\156\140\040\103\157\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\105\103\103\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\004\342\032\125\123\114\164\151\157\156\061\061\060\057
\060\003\125\004\003\014\005\012\133\114\151\157\155\040\122
```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\031\174\071\044\346\124\257\033\304\253\040\225\172\342\303
\016\023\002\152
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\332\344\071\177\234\027\121\072\216
END
CKA_ISSUER_MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\060\023\002\125\123\061
\016\060\014\000\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\140\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\104\010\05\03\013
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com EV Root Certification Authority RSA R2"
#
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority RSA R2"
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA
# Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

END
# Certificate "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After: Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\360\122\233\320\062\240\364\112\203\315\324\272\251\173\174\056\304\232
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\060\013\060\011\006\003\125\004\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157\156\061\007\060\006\060\003\125\004\012\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123\101\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
  \114\335\121\243\102\061\036\102\306\035\014\023\003\221
  \307\016\102\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
  \131\123\042\145\203\102\200\124\300\316\102\271\132\174\362\220
END
CKA_ISSUER MULTILINE_OCTAL
  \020\060\016\060\003\125\004\007\014\007\110\157\165\163\164\157
# Certificate "GlobalSign Root CA - R6"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10 00:00:00 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"

CKA_PUBLIC_KEY_OWNER "GlobalSign Root CA - R6"

CKA_CLASS CK_CERTIFICATE

CKA_ID UTF8 "0"

CKA_SUBJECT_MULTILINE_OCTAL

CKA_ISSUER_MULTILINE_OCTAL

CKA_SERIAL_NUMBER_MULTILINE_OCTAL
# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10 00:00:00 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\224\144\016\265\247\241\312\021\234\037\335\325\237\201\002
\143\247\373\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\117\335\007\344\324\042\144\071\036\014\067\102\352\321\306\256
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\012\023\012\107
\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Serial Number:21:2a:56:00:ac:da:0c:ab:40:45:bf:2b:2a:2d:3a:ea
# Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WiSeKey Global Root GC CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055\072\352
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055\072\352
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055\072\352
END
CKA_VALUE MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055\072\352
END
\157\157\164\040\107\103\040\103\101\060\166\060\020\000\060\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\114\351\120\300\306\017\162\030\274\330\361\272\263\211\342
\171\111\243\026\247\153\124\044\333\121\377\352\364\011\044\303
\013\042\237\313\152\047\202\201\015\322\300\257\061\344\164\202
\156\012\045\331\214\165\235\361\333\320\232\242\113\041\176\026
\247\143\220\322\071\324\261\207\170\137\030\226\017\120\033\065
\067\017\152\306\334\331\023\115\244\216\220\067\346\275\133\061
\221\124\312\046\000\016\006\003\125\035\017\001\000\1\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\1\377\004
\005\060\000\03\001\001\1\377\060\035\060\031\125\035\016\000\026\004
\024\110\020\07\24\254\343\33\236\220\140\072\327\132\12\1\356\323
\255\214\264\12\16\060\020\000\060\011\053\006\001\004\001\202\067
\025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\060\046\307\151\133\334\325
\347\262\347\310\014\214\214\303\335\171\124\033\143\325\311\22
\224\116\115\202\11\12\163\036\262\200\036\241\045\300\114\1\321\155
\111\015\114\170\023\342\176\110\353\144\002\061\000\333\064\040
\062\010\377\232\111\002\266\210\336\024\257\135\1\54\23\161\215
\032\077\213\327\340\242\066\206\034\007\020\072\166\123\375\302
\242\235\357\173\260\200\117\130\017\113\123\071\275
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WSiSeKey Global Root GC CA"
# Issuer: CN=OISTE WSiSeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WSiSeKey,C=CH
# Subject: CN=OISTE WSiSeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WSiSeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WSiSeKey Global Root GC CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\021\204\136\064\336\276\210\021\271\1234\366\026\046\321\226
\037\303\271\061

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\251\132\271\055\057\223\144\370\245\151\312\221\351\150\007\043

CKA_ISSUER MULTILINE_OCTAL


```
\060\015\055\061\013\060\011\006\003\01125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\060\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\060\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\000\020\041\052\126\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\060\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END

# # Certificate "UCA Global G2 Root"
#
# # Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# # Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# # Not Valid Before: Fri Mar 11 00:00:00 2016
# # Not Valid After : Mon Dec 31 00:00:00 2040
# # Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"

```

\006\532\322\126\105\130\232\207\04\01\17\203\270\000\50\45\30\30\30\31\17
\073\244\064\211\167\171\022\057\107\035\347\251\127\151\374\246
\167\147\265\337\173\361\172\145\053\344\141\126\145\002\000\301
\000\001\124\102\060\010\066\003\125\035\017\001\001\1377
\000\004\000\302\000\010\066\003\125\035\023\000\010\1377
\000\004\005\060\030\010\010\1377
\000\004\024\013\041\134\365\344\060\377\245\014\010\1372\140\25
\147\041\164\001\137\337\060\015\006\011\052\206\110\206\367\015
\001\001\010\130\050\000\003\302\002\000\010\000\023\145\042\365\216\053
\125\104\344\313\377\271\150\346\303\001\10\075\004\173\372\043
\057\172\355\060\332\262\316\155\366\366\263\345\137\130\217\313
\067\062\241\130\145\266\256\070\075\056\033\076\274\073\266\004
\320\274\371\111\365\233\367\205\030\066\266\313\274\370\310\071
\325\344\137\007\275\025\124\227\164\312\312\135\117\272\272\144
\166\237\201\120\024\010\511\11\142\151\157\242\353\261\134\321\130
\224\332\104\032\236\342\352\030\350\242\037\047\005\272\327\345
\326\251\135\359\257\160\230\015\000\016\135\033\372\003\267\216
\200\013\160\047\077\122\373\224\242\312\161\45\111\132\260\204\332
\271\065\161\136\304\363\000\117\167\346\201\047\322\167\073\232\024
\157\171\364\366\320\341\323\224\272\320\327\121\127\257\045\000\015
\301\137\351\012\022\060\356\157\215\021\053\010\235\324\324\277\200
\105\024\232\210\104\332\020\052\264\247\343\356\267\113\202\325
\076\263\255\170\222\333\134\047\343\330\255\372\270\153\177\304
\066\050\266\002\025\212\124\054\234\260\027\163\216\320\067\243
\024\074\230\225\000\014\051\005\133\236\111\111\126\113\173\073\343
\313\170\047\145\216\055\027\267\127\310\060\033\111\013\133\271\024
\266\350\302\027\224\061\124\224\230\314\152\353\265\341\047\365
\020\250\001\135\021\602\222\142\350\021\131\426\517\106\227\300\233
\020\146\070\003\320\061\013\042\150\075\337\311\036\023\047\253
\123\006\254\242\074\206\006\145\157\261\167\261\051\010\232\243
\271\111\150\050\151\127\327\345\137\255\004\206\144\157\032\240
\014\305\010\142\316\200\243\320\363\345\150\336\267\063\307\027
\133\177\200\034\114\14\246\246\024\123\030\073\270\011\315\024
\201\272\030\034\124\127\066\367\333\057\147\074\021\072\063\310
\371\130\073\104\117\261\312\002\211\004\226\050\150\303\113\270
\046\211\273\326\063\057\120\235\376\232\211\272\030\062\222\124
\306\113\340\235\371\116\345\015\042\233\366\332\342\310\041\262
\142\041\252\206\100\262\056\144\323\137\310\343\176\021\147\105
\037\005\376\343\324\237\263\250\263\363\175\217\370\014\037\042
\037\055\160\262\247\007\010\064\166\060\000\345\043\170\247\126\327
\120\037\212\373\006\365\302\031\360\320
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “UCA Global G2 Root”
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\363\137\103\360\064\233\332\277\214\176\005\123\255\226\342
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\001\110\065\003\125\004\006\023\002\103\116\061
\02\060\001\070\000\003\125\004\012\040\010\125\156\151\124\162\165
\163\164\066\104\056\063\034\065\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
## Certificate "Certigna Root CA"

### Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
### Subject: CN=Certigna Root CA, OU=0002 48146308100036,O=Dhimyotis,C=FR
### Not Valid Before: Tue Oct 01 08:32:27 2013
### Not Valid After: Sat Oct 01 08:32:27 2033
### Fingerprint (SHA-256):
### Fingerprint (SHA1):

## CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

## CKA_TOKEN CK_BBOOL CK_TRUE

## CKA_PRIVATE CK_BBOOL CK_FALSE

## CKA_MODIFIABLE CK_BBOOL CK_FALSE

## CKA_LABEL UTF8 "Certigna Root CA"

## CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

## CKA_SUBJECT MULTILINE_OCTAL

```octal
00601320610013066001100660031250040060230021061162061
022060020006003125004012014011110415015115511711157
164115116306103406003200660031250040130104203060060
060062040640706106400660063066007061060060060063
0606061031060027006600312500400301402010311451621164
15114715614104011221157115711640401031101
```

## CKA_ID UTF8 "0"

## CKA_ISSUER MULTILINE_OCTAL

```octal
0060132061013066001100660031250040060230021061162061
022060020006003125004012014011110415015115511711157
164115116306103406003200660031250040130104203060060
060062040640706106400660063066007061060060060063
0606061031060027006600312500400301402010311451621164
15114715614104011221157115711640401031101
```

## CKA_SERIAL_NUMBER MULTILINE_OCTAL

```octal
002020100032135103321113611250030152433461101155304
343246341
```

## CKA_VALUE MULTILINE_OCTAL

```octal
060202006133060020200410324000300200110020020211000
31235103321113611250030152433461101155304343246341
```
# Trust for "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\055\015\122\024\377\236\255\231\044\001\164\040\107\156\154\205
\047\047\365\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\112\061
\022\060\020\006\003\125\004\012\140\111\114\104\150\151\155\171\117
\164\111\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\060\003\125\004\003\014\020\013\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\032\123\51\033\211\136\125\003\015\243\346\101\153\304
\134\246\341
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "emSign Root CA - G1"

# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\133\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\133\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330
END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\224\060\020\002\174\240\003\002\001\002\002\012\061
\365\344\142\014\154\130\355\326\330\060\015\006\011\052\206\110
\206\067\015\010\010\013\005\000\060\147\061\013\060\011\006\003
\125\004\060\023\002\111\116\061\023\060\021\006\003\125\004\013
\023\012\145\155\123\151\147\156\040\120\113\111\061\045\060\043
\006\003\125\004\012\023\034\145\155\144\150\162\141\040\124
\145\133\150\156\157\154\157\147\151\145\163\040\114\151\155
\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
# Trust for "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

`\210\336\272\314\037\200\176\112\017\265\165\115\245\100\364\374\317\174\265\216\214\END`

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"

# Certificate "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "emSign ECC Root CA - G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "emSign ECC Root CA - G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END
# Certificate "emSign Root CA - C1"

# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

# CKA_CLASS CK_OBJECT_CLASS CKC_X_509

# CKA_TOKEN CK_BBOOL CK_TRUE

# CKA_PRIVATE CK_BBOOL CK_FALSE

# CKA_MODIFIABLE CK_BBOOL CK_FALSE

# CKA_LABEL UTF8 "emSign Root CA - C1"

# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# CKA_SUBJECT MULTILINE_OCTAL

# CKA_ID UTF8 "0"

# CKA_ISSUER MULTILINE_OCTAL
# Trust for "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
347|056|361|373|377|379|262|011|050|317|135|324|325|147|067|261|121
313|206|117|001

CKA_CERT_MD5_HASH MULTILINE_OCTAL
330|343|135|001|041|137|217|013|260|033|72|272|322|356|052|137|150

CKA_ISSUER MULTILINE_OCTAL
060|126|061|013|060|011|006|003|125|004|006|023|002|125|123|061
023|060|021|006|003|125|004|013|023|012|145|155|123|151|147|156
# Certificate "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\132\061\133\060\011\100\003\125\004\006\023\002\125\123\061
\125\004\003\023\023\145\155\123\151\147\156
\104\120\113\111\106\102\060\022\125\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\242\320\354\040\122\216\026\113\301\363\370\144\002\044\116\302
\216\002\113\002
END
# Certificate "Entrust Root Certification Authority - G4"

# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\021\174\237/\275/\163/\060/0/0/0/2/12/37/5/0/77/3/63/1/30/27/1/31/\040/36/0
END

CKA_ISSUER MULTILINE_OCTAL
\060/1/57/0/6/0/1/0/3/0/6/0/1/1/0/0/6/0/3/1/12/5/0/4/0/0/6/0/2/3/0/2/1/11/0/13/0/61
\022/0/6/0/0/2/0/0/6/0/3/1/12/5/0/4/0/0/7/0/2/3/0/1/1/11/0/15/7/1/56/1/4/7/0/4/0/11/3
\15/7/1/56/1/4/7/0/6/1/0/2/2/0/6/0/2/0/0/6/0/3/1/12/5/0/4/0/0/7/0/2/3/0/1/1/11/0/15/7
\15/6/1/4/7/0/4/0/1/1/1/15/7/1/56/1/4/7/0/6/1/0/2/6/0/0/0/2/4/0/0/6/0/3/1/12/5/0/4/0/12
\02/3/0/1/1/1/15/7/1/56/1/4/7/1/5/3/1/15/7/1/56/1/4/7/0/4/0/12/0/1/5/7/1/63/1/6/4/0/61
\04/0/0/6/0/3/6/0/0/6/0/3/1/12/5/0/4/0/0/3/1/0/2/3/0/2/7/1/1/10/1/5/7/1/56/1/4/7/1/5/3/1/57
\15/6/1/4/7/0/4/0/1/2/0/1/5/7/1/63/1/6/4/0/4/0/1/2/2/1/5/7/1/57/1/64/0/4/0/1/0/3/1/0/1/4/0
\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\00/2/0/2/4/0/1/0/2/6/1/3/7/1/2/1/1/4/2/4/5/3/5/4/0/0/0/3/1/1/2/2/3/1/0/0/3/3/7/3/0/4/3/0/6
\2/5/6/0/4/3/2/7/0/0/3/4/1/3/2/4/4
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
The text appears to be a code or technical documentation, possibly related to cryptography or security. It includes hexadecimal and octal representations, which are common in such domains. The document might be related to the Merck Connected Pharma platform, as indicated by the title at the top. However, without more context or a clearer view, it's challenging to interpret the full meaning or content.
# Trust for "Entrust Root Certification Authority - G4"

# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",O=Entrust, Inc.,C=US

# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58


END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

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CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\024\210\116\206\046\067\260\046\257\131\142\134\100\167\354\065
\051\172\226\001
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\123\361\203\043\267\174\216\005\361\124\161\107\011\160\037\120
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\106\003\125\004\006\023\002\125\123
\061\106\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\103\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\151\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\106\060\010\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\162\162
\060\006\003\125\004\033\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\164\055\040\107
\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\033\126\103\177\257\251\071\017\009\000\000\000\125
\145\255\130
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Microsoft ECC Root Certificate Authority 2017"
#
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After : Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE


```
\004\324\274\075\002\102\165\11\10\02\23\04\3\315\2\000\004\2\06\002\121 \\
\057\152\250\021\1\42\1\13\1\145\3\1\366\3\22\25\03\1\65\11\12\146\1\21 \\
\242\001\333\1\3\221\1\37\2\266\02\26\012\1\41\1\56\33\31\17\11 \\
\246\057\3\1\62\3\1\161\0\57\3\4\2\245\25\03\0\35\1\43\0\04\146\1\231 \\
\370\372\36\2\23\0\2\0\0\5\3\1\2\0\0\5\1\0\23\3\4\3\1\0\0\150\3\6\3\46\0\33 \\
\204\1\40\1\1\2\1\1\2\5\3\5\1\7\0\1\7\0\3\3\1\6\3\6\1\3\0\365\0\0\1\170 \\
\300\2\43\1\2\4\0\6\0\1\2\2\0\0\1\0\1\6\0\0\1\0\3\0\5\0\1\7\0\0\1\0\3\77\0\04 \\
\0\0\4\0\0\0\2\0\1\0\2\0\0\0\1\7\0\0\1\0\3\0\5\0\2\0\1\0\1\0\3\77\0\04 \\
\0\0\5\0\6\0\0\1\0\1\1\1\1\3\7\0\0\3\0\5\0\6\0\0\3\0\5\0\1\6\0\0\0\26\0\0\0\04 \\
\0\2\4\0\2\1\3\1\1\6\1\16\5\1\2\2\0\1\4\1\0\3\70\0\36\6\1\6\1\6\2\0\0\0\12\7\0\51\0\52 \\
\3\1\1\0\2\0\2\0\3\5\5\0\6\5\0\6\0\2\0\0\0\6\0\1\1\1\0\5\6\0\0\1\0\0\1\0\2\0\2\0\6\7 \\
\0\2\5\0\1\0\4\0\0\3\0\0\0\1\0\0\0\0\6\0\1\2\0\0\0\6\0\1\0\0\5\2\0\2\6\1\1\0\3\1\6\0\75 \\
\0\0\4\0\0\3\1\0\0\3\1\5\0\0\0\0\6\0\1\4\5\0\0\2\0\6\0\1\3\0\36\2\1\1\5\3\5\2\0\1\4\371 \\
\1\3\1\6\3\5\5\1\4\0\0\5\1\1\3\0\7\2\3\6\2\3\33\3\26\0\2\0\4\0\1\77\1\74\3\25 \\
\0\5\7\1\0\2\1\3\1\1\4\2\2\1\2\5\6\2\6\0\2\7\3\0\1\1\0\6\2\3\0\6\3\0\6\3\5\5\1\76\1\3\0\66 \\
\2\2\4\0\2\2\3\4\4\1\5\1\2\0\5\0\0\6\2\4\0\3\33\3\2\0\5\1\0\2\0\6\1\0\0\0\2\3\1\3\5\1\0\26 \\
\2\6\4\0\1\6\3\7\2\1\6\1\0\5\0\3\4\2\2\4\0\6\0\2\2\1\1\7\3\3\3\1\2\4\1\4\5\0\01 \\
\1\2\1\3\4\1\1\6\1\0\3\0\2\0\1\6\2\6\7\0\1\2\7\2\2\0\0\3\0\4\0\2\0\7\1\1\6\3\7\4\1\53 \\
\1\2\4\0\2\0\4\0\3\77\0\5\3\2\6\5\3\4\7\1\1\4\0\1\1\5\2\4\6\1\1\7\1\63 \\
END
CKA_NOP 
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After: Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\356\304\177\364\175\237\253\225\361\107\151\211\024\140 \\
\356\304\303\305
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\241\003\346\112\223\020\321\277\360\031\02\0\313\376\355\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \\
\036\060\034\006\003\125\004\012\023\025\151\143\162\157\163
```

\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\20146\362\075\257\207\336\213\261\112\352\014\127\061\001
\302\354
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Microsoft RSA Root Certificate Authority 2017"
#
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After : Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
# Trust for "Microsoft RSA Root Certificate Authority 2017"
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After: Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\055\234\026\153\252\250\330\173\243\102\114\161\130\014\312\076
\203\344\246\357\267\001\060\136\121\243\171\365\160\151\246\101
\104\017\206\260\054\221\306\075\352\256\017\204
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\020\377\000\377\317\311\370\037\172\300\356\065\216\311\017\107
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\060\060\060\006\003\125\004\003\023\055\115\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "e-Szigno Root CA 2017"

Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Tue Aug 22 12:07:06 2017
Not Valid After : Fri Aug 22 12:07:06 2042
Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"

CKA_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\161\061\013\060\011\000\003\125\004\006\023\002\110\125\061
\021\060\017\000\003\125\004\007\014\010\012\165\144\141\160\145
\163\164\061\026\060\024\000\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\014\010\161\126\101\012\41\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\000\003\125\004\006\023\002\110\125\061
\021\060\017\000\003\125\004\007\014\010\012\165\144\141\160\145
\163\164\061\026\060\024\000\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\014\010\161\126\101\012\41\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\001\124\110\357\041\375\227\131\015\365\004\012

END

CKA_VALUE MULTILINE_OCTAL
\060\023\002\100\060\023\002\001\345\240\003\002\001\002\002\014\001
\124\10\357\041\375\227\131\015\365\004\012\060\012\006\010\0052
\206\11\31\67\050\004\003\002\060\161\061\012\060\011\010\060\03\125
\004\003\023\002\110\125\061\021\060\017\060\003\125\004\007\014
\010\012\165\144\141\160\145\163\164\061\026\060\024\006\003\125
\004\012\141\152\143\162\157\163\145\143\040\114\164\144
\056\061\027\060\025\006\003\125\004\141\014\016\126\101\124\110
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "e-Szigno Root CA 2017"
# Issuer: CN=e-Szigno Root CA 2017, OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017, OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After: Fri Aug 22 12:07:06 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\324\203\003\117\236\232\110\200\137\162\067\324\251\246\357
\313\174\037\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\336\037\366\236\204\256\247\264\041\316\036\130\175\321\204\230
END
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\103\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\001\124\110\357\041\375\227\131\015\365\004\12
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "certSIGN Root CA G2"
#
# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number:11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After : Thu Feb 06 09:27:35 2042
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\060\103\060\011\100\063\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
# Trust for "certSIGN Root CA G2"

# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number: 11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After : Thu Feb 06 09:27:35 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Trustwave Global Certification Authority"

# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
# Trust for "Trustwave Global Certification Authority"

# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.".L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After : Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"

END

CKA_CERT_SERIAL_NUMBER MULTILINE_OCTAL
\020\140\137\153\015\020\171\172\163\153\142\145\040\110\157\142\141\154\040\103\145\162\151\146\151\143\141\157
\156\040\101\165\164\150\157\162\151\164\171
END

# Certificate "Trustwave Global ECC P256 Certification Authority"
# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number: 0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After: Sat Aug 23 19:35:10 2042

Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\221\060\013\060\006\003\0125\004\0060\023\002\125\123
\061\021\060\017\006\003\0125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\0125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\0125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\221\060\013\060\006\003\0125\004\0060\023\002\125\123
\061\021\060\017\006\003\0125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\0125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\0125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\015\152\137\010\077\050\134\076\121\125\337\135

END

CKA_VALUE MULTILINE_OCTAL
\060\201\221\060\013\060\006\003\0125\004\0060\023\002\125\123
\061\021\060\017\006\003\0125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\0125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\0125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171

END

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 8075
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Trustwave Global ECC P256 Certification Authority"
# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After : Sat Aug 23 19:35:10 2042
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
# Certificate "Trustwave Global ECC P384 Certification Authority"

# Issuer: CN=Trustwave Global ECC P384 Certification Authority, O="Trustwave Holdings, Inc.", L=Chicago, ST=Illinois, C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority, O="Trustwave Holdings, Inc.", L=Chicago, ST=Illinois, C=US
# Not Valid After: Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\015\152\137\010\077\050\134\076\121\225\337\135
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\021\066\001\013\066\000\031\250\004\006\023\002\251\253
\061\021\060\001\017\006\000\031\250\004\010\023\010\211\215\214\215\151\151\156
\157\213\216\213\216\216\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\010\157\154\144\151\156
\147\163\150\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\215\040\111\156\143\150\107\206\060\070\060\060\031\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\021\066\001\013\066\000\031\250\004\006\023\002\251\253
\061\021\060\001\017\006\000\031\250\004\010\023\010\211\215\214\215\151\151\156
\157\213\216\213\216\216\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\010\157\154\144\151\156
\147\163\150\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\215\040\111\156\143\150\107\206\060\070\060\060\031\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073
END

CKA_VALUE MULTILINE_OCTAL
\060\020\021\235\060\202\002\044\240\003\002\001\002\002\014\010
\275\205\227\154\231\047\244\200\150\107\073\060\012\006\010\052
\206\110\316\075\004\003\003\060\201\211\061\130\060\110\060\003
\125\004\006\023\002\125\231\061\021\060\017\060\060\031\125\004\010
\023\010\111\154\154\151\156\157\151\163\061\020\060\016\060\003
\125\004\007\23\007\103\150\151\143\141\147\157\061\041\060\037
\006\013\025\004\012\023\030\124\162\165\163\164\167\141\166\145
\040\110\157\154\144\151\156\147\163\054\040\111\156\143\060\061
\072\060\070\060\003\125\004\003\023\061\124\162\165\163\164\167
\141\166\145\040\107\154\157\142\111\154\040\105\103\103\040\120
\063\070\064\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\067\060\070\062\063\061\027\063\066\064\063\112\027\015\064\062
\060\070\062\063\061\027\063\066\064\063\112\060\201\221\060\103
\060\011\060\003\125\004\006\023\020\125\233\010\111\154\154\151\156\157\151\163\010
\060\016\060\003\125\004\007\23\023\071\103\150\151\143\141\147\157
\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 8078
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Trustwave Global ECC P384 Certification Authority"
# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc." ,L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc." ,L=Chicago,ST=Illinois,C=US
# Not Valid After : Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
# Certificate "NAVER Global Root Certification Authority"

# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After: Tue Aug 18 23:59:59 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_TRUE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\151\061\013\060\001\1\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\115\141\154\151\156
\157\151\156\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\115\143\056\061\107\206\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "NAVER Global Root Certification Authority"
# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After : Tue Aug 18 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\217\153\362\251\047\112\332\024\240\304\364\216\141\047\371\130\036\170\135\321
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\176\101\360\045\073\365\011\263\027\350\106\075\277\320\233
END

CKA_ISSUER MULTILINE_OCTAL
\060\151\061\103\060\011\100\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\140\035\161\101\126\105\122\040
\102\125\123\111\110\105\123\123\040\120\141\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\060\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
# Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,O=FNMT-RCM,C=ES
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After: Sun Dec 20 09:37:33 2043

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

# Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,O=FNMT-RCM,C=ES
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After: Sun Dec 20 09:37:33 2043

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
# Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS, OID.2.5.4.97=VATES-Q2826004,OU=Ceres,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After: Sun Dec 20 09:37:33 2043
# Fingerprint (SHA-256):

# Certificate "GlobalSign Secure Mail Root R45"
#
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
0601220610130601110060031d2500040060023002102105061
031060002700600312500040120230201071541157142141154
123151147156040156166055163141061050060046060003
125004003023037107154115714214115411231151147156040
12314514311651162145040114114115410401221157157164
040122064065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
0601220610130601110060031d2500040060023002102105061
031060002700600312500040120230201071541157142141154
123151147156040156166055163141061050060046060003
125004003023037107154115714214115411231151147156040
12314514311651162145040114114115410401221157157164
040122064065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
02020201661233762501141202532372215062265035003217
127334
END
CKA_VALUE MULTILINE_OCTAL
0202020025160060202003130240003020010002002020166
1233762501141202532372215062265035003217127334060
015000011052206110206367101500100101405000060122
061103060110001003125000400600230021021050610311060
0270060003125004012023020107154115714214115411231151147156040
12314514311651162145040114114115410401221157157164
040122064065
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\030\321\363\200\044\075\122\100\306\021\152\255\127\167\011
\175\201\060\240
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\304\173\263\016\124\107\034\103\054\213\276\160\205\142\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\001\100\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\040\123\020\010\154\157\142\141\154
\125\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\154\040\122\157\157\164
\040\122\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217
\127\334
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "GlobalSign Secure Mail Root E45"
#
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERTIFICATE_TYPE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\122\061\013\060\001\100\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\040\123\020\010\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\154\040\122\157\157\164
\040\105\064\065
END
# Trust for "GlobalSign Secure Mail Root E45"
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"

# Certificate "GlobalSign Root R46"
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After: Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\010\061\013\060\001\11\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\030\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\010\061\013\060\001\11\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\030\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\132\273\271\132\277\043\030\236\100\137\012\235\055\320
\337\045\147\321
END
CKA_VALUE MULTILINE_OCTAL
\060\02\00\02\13\22\27\3\132\277\043\030\236\100\137\012\235\055\320
\337\045\147\321
END
# Trust for "GlobalSign Root R46"
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\123\242\260\113\312\153\326\105\346\071\212\216\304\015\322\277
\167\303\242\220
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\045\024\060\344\372\146\103\224\052\152\033\044\137\031\320\357
# Certificate "GlobalSign Root E46"

# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root E46"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END
# Trust for "GlobalSign Root E46"
# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE


END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\320\147\301\023\121\001\014\252\320\307\152\145\067\061\026\046
\117\123\161\242
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\123\307\157\313\155\343\314\242\361\174\203\372\016\170\327\350
END

CKA_ISSUER MULTILINE_OCTAL
\060\115\006\010\030\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107
\114\17\102\101\114\124\122\125\123\124\040\062\060\062\060
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
# Certificate "ANF Secure Server Root CA"

# Issuer: CN=ANF Secure Server Root CA, OU=ANF CA Raiz, O=ANF Autoridad de Certificacion, C=ES, serialNumber=G63287510
# Serial Number: 0:d:d3:e3:b6:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA, OU=ANF CA Raiz, O=ANF Autoridad de Certificacion, C=ES, serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After: Tue Aug 30 10:00:38 2039
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\013\132\113\275\132\373\117\212\133\372\145\345
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\002\013\132\113\275\132\373\117\212\133\372\145\345
END
# Trust for "ANF Secure Server Root CA"
# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After : Tue Aug 30 10:00:38 2039

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER_MULTILINE_OCTAL
\071\345\027\201\317\070\107\353\177\210\155\131\033\337\237\102
\024\256\176\317\250\260\146\145\332\067\257\237\252\075\352\050
\266\336\325\061\130\026\202\133\352\273\031\165\002\163\032\312
\110\032\041\223\220\012\216\223\204\247\175\073\043\030\222\211
\240\215\254
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE


# Trust for "ANF Secure Server Root CA"
# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After : Tue Aug 30 10:00:38 2039

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
Certificate "Certum EC-384 CA"

Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Not Valid Before: Mon Mar 26 07:24:54 2018
Not Valid After: Thu Mar 26 07:24:54 2043
Fingerprint (SHA-256):

END

END

END

END

END
\C\O\P\N\S\S\_\M\O\Z\I\L\A\_\C\A\_\P\O\L\I\I\C\Y\CK\B\B\O\O\L\CK\T\R\U\E

# Trust for "Certum EC-384 CA"
# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 8107
# Not Valid After: Thu Mar 26 07:24:54 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\076\170\074\254\337\364\242\314\254\147\125\151\126\327\345
\026\074\341\355
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\145\263\226\140\227\022\241\354\116\341\075\243\306\311\361
END

# Certificate "Certum Trusted Root CA"
#
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After: Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority, O=Asseco Data Systems S.A., C=PL
# Subject: CN=Certum Trusted Root CA, OU=Certum Certification Authority, O=Asseco Data Systems S.A., C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After : Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\314\312\347\151\334\207\235\302\206\343\327\171\321\323\167\270\252
\131\130\376\235\046\372\207\205\206\235\212\207\144\127\345\027
\072\342\371\215\271\343\063\170\301\220\330\270\335\267\203\121
\344\304\314\043\325\006\174\346\121\323\315\064\061\300\366\106
\273\013\255\374\075\020\000\05\02\07\31\132\22\104\356\214\324\204
\207\020\05\274\011\112\252\072\203\373\250\064\171\120\301\020
\031\137\323\050\036\324\321\12\12\06\05\12\256\220\147\326\037
\012\143\261\305\251\306\012\06\114\33\027\22\357\151\131\057\372
\214\024\175\304\010\303\021\113\313\360\062\100\346\200\342\106\137
\345\343\301\000\131\250\371\350\040\274\211\054\016\107\064\013
\352\127\302\123\066\374\247\324\257\061\135\376\002\345\165\372
\271\047\011\371\313\363\365\073\312\175\237\275\042\313\210\311\1252
\321\107\075\066\167\250\131\144\153\047\317\357\047\301\343\044
\265\206\367\256\176\062\115\260\171\150\321\071\135\050\220\130\303
\203\274\017\054\326\227\353\316\043\41\040\307\332\267\076\303
\077\277\057\334\064\244\373\053\041\315\147\217\113\364\343\352
\324\077\347\117\272\271\124\255\015\030\41\246\037\041\327\144\136
\157\340\166\224\062\313\165\356\151\345\366\217\307\270\244\314
\250\226\175\144\373\044\132\112\03\154\153\070\306\350\003\103
\232\120\172\271\263\051\115\123\076\34\003\362\273\373\202\153
\007\040\321\112\203\172\144\002\173\230\301\46\333\134\115\132\017
\320\204\225\240\074\024\103\006\312\312\333\270\101\066\332\152
\104\147\207\257\257\343\105\021\025\151\010\262\276\026\071\122
\044\157\022\105\332\11\147\135\011\253\012\05\332\372\322\246\137
\023\141\037\277\205\254\264\255\255\05\224\010\203\036\165\027
\323\161\073\223\120\043\131\240\355\074\221\124\235\166\000\305
\303\270\070\333

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 8111
Certificate "TunTrust Root CA"

# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044

cka_class ck_object_class ckO_certificate
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label utf8 "TunTrust Root CA"
cka_certificate_type ck_certificate_type ckC_x_509
cka_subject multiline_octal
\060\014\011\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\000\031\125\004\012\014\056\010\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\161\156\140\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\163\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TunTrust Root CA"
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
317351616032400173401633001723514660141177054111335600401
10606402342273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
2050232712201133066113402661136270113237013400611127:264
END
CKA_ISSUER_MULTILINE_OCTAL
406014106110130600111006003112500041060230021124116061
00670600650000031250004012014056101147145156143145
04011614111641511571156141115414504144145040103145
16216415114615114314116415115711561400105154145143
16416215711561511611651450610310600270060003125000
003014024012411651156124116211651163116404012211571164
040103101
END
# Certificate "HARICA TLS RSA Root CA 2021"

# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After: Mon Feb 13 10:55:37 2045
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"

END

END
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA TLS RSA Root CA 2021"
# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After : Mon Feb 13 10:55:37 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"

# Certificate "HARICA TLS ECC Root CA 2021"
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Trust for "HARICA TLS ECC Root CA 2021"
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After : Mon Feb 13 11:01:09 2045
# Fingerprint (SHA-256):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
\256\367\114\345\146\065\321\267\233\214\042\223\164\323\113\260
END

CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\134
\277\316
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

#
# Certificate "HARICA Client RSA Root CA 2021"
#
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END

CKA_ID UTF8 "0"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA Client RSA Root CA 2021"
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
# Certificate "HARICA Client ECC Root CA 2021"

# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After: Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\132\206\202\202\013\241\240\003\002\001\002\200\202\200\61
\150\331\130\341\142\127\036\132\031\104\210\346\020\175\360\060
\012\036\010\052\206\011\036\167\050\040\003\003\060\157\061\013\060
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\060\003
\125\004\012\014\056\110\110\145\154\154\155\156\151\143\040\011\143
\141\144\154\155\151\143\040\141\156\144\040\122\145\163\151\143
\162\143\150\040\111\156\163\164\161\164\161\157\156\163
\040\010\101\061\047\060\045\006\003\125\004\003\014\036\110\101
\122\111\103\101\040\013\154\151\145\156\164\040\015\053\103\040
\122\157\157\164\040\013\010\040\062\106\062\106\060\036\027\015
\062\061\066\062\061\071\061\061\061\060\063\063\064\132\207\150\064
\065\060\062\061\063\061\061\060\063\063\063\132\060\157\061\013
\060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006
\003\125\004\012\014\056\110\110\145\154\154\155\156\151\143\040\101
\143\141\144\154\155\151\143\040\141\156\144\040\122\145\163\151
\141\162\143\150\040\111\156\163\164\161\164\161\157\156
\163\040\103\101\061\047\060\045\006\003\125\004\003\014\036\110
\101\122\111\103\101\040\103\154\151\145\156\164\040\015\103\013
\040\101\22\157\157\164\040\013\010\040\062\060\062\061\060\160
\020\006\007\052\206\011\036\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\007\030\225\222\224\320\013\017\202\236
\052\100\372\002\131\110\70\066\246\243\004\152\301\155\225\001
\210\140\022\124\145\143\222\205\31\156\023\072\110\225\140\043\040
\206\066\12\11\031\267\030\033\073\052\050\12\037\312\337\133
\277\111\200\025\333\343\060\341\105\123\070\052\212\001\007\376
\155\054\064\357\050\050\022\27\243\013\171\27\206\225\12\036\317
\236\132\321\115\225\243\102\060\100\060\017\000\060\031\125\035\023
\001\013\377\004\005\060\003\001\013\377\060\035\006\003\125\035
\016\004\026\004\024\122\010\322\276\062\221\045\375\365\032\222
\354\116\137\032\223\123\315\220\255\060\160\060\031\125\035\017
\001\010\377\004\004\003\002\001\206\060\012\060\060\105\220\266
\316\075\040\003\003\003\147\000\060\144\002\060\114\061\105\106
\117\250\346\276\030\167\262\032\030\135\55\220\173\139\345\253
\224\153\104\030\260\027\373\373\020\213\040\121\054\375\223\035
\061\163\024\322\211\153\410\014\357\041\001\056\002\060\057\311
\056\132\154\054\035\333\122\254\236\260\271\134\122\174\336\370
\070\312\056\361\324\035\362\242\013\242\225\370\031\130\136\117
\376\133\012\357\061\260\253\043\130\002\214\213\336\073
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA Client ECC Root CA 2021"
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After : Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"

END

CKA_CER

# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:1b:70:e9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After : Mon May 05 15:22:07 2036
# Fingerprint (SHA-256):
\%11\%257\%11\%360\%340\%007\%50\%07\%172\%105\%031\%132\%377\%310\%227\%330\%323
\%030\%054\%175\%226\%370\%335\%242\%145\%103\%160\%223\%200\%225\%272\%220\%337
\%350\%031\%260\%330\%242\%140\%017\%267\%157\%224\%007\%036\%035\%246\%311
\%205\%366\%275\%064\%337\%100\%170\%142\%020\%160\%072\%276\%175\%113\%071\%201
\%251\%202\%324\%226\%101\%273\%370\%137\%034\%013\%035\%010\%362\%261\%260\%211
\%17\%262\%367\%240\%030\%332\%171\%170\%265\%073\%130\%245\%043\%216\%117
\%12\%376\%066\%073\%340\%014\%267\%312\%052\%060\%101\%040\%206\%242\%000\%315\%256
\%374\%166\%146\%163\%250\%256\%156\%341\%174\%332\%003\%350\%224\%040\%346\%042
\%24\%330\%037\%220\%135\%040\%123\%020\%046\%127\%332\%124\%227\%337\%026\%104
\%02\%000\%013\%062\%101\%146\%217\%162\%070\%223\%135\%040\%206\%064\%276\%327\%361
\%356\%143\%216\%107\%171\%050\%006\%374\%363\%131\%105\%045\%140\%020\%063\%303
\%24\%31\%250\%272\%052\%332\%032\%075\%315\%100\%352\%214\%346\%005\%025\%225
\%325\%245\%054\%040\%057\%247\%230\%005\%356\%105\%374\%361\%127\%021\%000\%054
\%21\%102\%332\%121\%325\%234\%345\%023\%150\%161\%110\%103\%213\%236\%013\%041
\%074\%11\%134\%005\%334\%032\%023\%07\%230\%216\%332\%227\%50\%042\%236\%162\%2315\%255
\%012\%313\%141\%243\%147\%233\%050\%164\%304\%233\%327\%032\%074\%004\%130\%246
\%20\%225\%255\%070\%173\%157\%377\%200\%226\%351\%137\%021\%152\%275\%030\%220
\%035\%377\%11\%032\%220\%122\%067\%223\%057\%074\%002\%135\%201\%660\%131\%21
\%347\%026\%307\%127\%370\%070\%371\%247\%315\%232\%042\%124\%357\%143\%260\%25
\%15\%51\%123\%145\%003\%112\%136\%112\%240\%262\%247\%216\%111\%000\%131\%070\%325
\%30\%73\%64\%200\%144\%365\%156\%225\%120\%270\%021\%176\%025\%160\%070\%112\%260
\%17\%73\%20\%304\%062\%160\%030\%031\%377\%311\%070\%055\%024\%054\%146\%364\%102
\%10\%346\%125\%166\%033\%200\%025\%127\%377\%300\%247\%247\%252\%071\%252\%330
\%323\%160\%320\%056\%272\%333\%224\%152\%372\%137\%064\%026\%347\%142\%265\%375
\%12\%326\%060\%202\%224\%311\%257\%044\%002\%057\%157\%326\%353\%147\%376\%343
\%26\%01\%257\%170\%042\%301\%172\%244\%101\%126\%342\%223\%320\%152\%350\%326\%363
\%373\%14\%340\%316\%165\%304\%061\%131\%014\%356\%020\%310\%014\%140\%063\%112
\%031\%127\%220\%147\%04\%17\%274\%102\%125\%275\%044\%124\%015\%354\%035\%160
\%00\%61\%37\%244\%274\%382\%040\%174\%125
END
CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:1b:70:e9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After: Mon May 05 15:22:07 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\013\276\302\047\042\111\313\071\252\333\065\134\123\343\214\256 \170\377\266\376
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\116\156\233\124\114\312\267\372\110\344\220\261\025\113\034\243
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\003\024\006\250\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\011\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\033\160\351\322\377\256\154
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "vTrus ECC Root CA"
# # Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\101\306\003\125\004\006\023\002\103\116\061
\034\060\032\060\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\017\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\104\010\103\157\056\054\11\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244
\073\346\155\034\326\332
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\017\060\202\001\225\240\003\002\001\002\002\024\156
\152\274\131\252\123\124\62\165\163\040\105\103
\103\040\122\157\157\164\040\103\101\060\036\027\015\061\070\067
\060\036\027\015\064\063\060\067\062\060\064\060\132\060\071\060\006
\125\004\006\023\030\02\03\116\061\034\060\032\006\003\125\004\012
\023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056
\054\11\164\144\056\010\032\060\030\006\003\125\004\003\023\021
\166\124\162\165\163\040\105\103\101\060\036\027\015\060\006
\060\036\027\015\064\063\060\067\062\060\064\060\132\060\071\060\006
\125\004\006\023\030\02\03\116\061\034\060\032\006\003\125\004\012
\023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056
\054\11\164\144\056\010\032\060\030\006\003\125\004\003\023\021
\166\124\162\165\163\040\105\103\103\040\122\157\157\164\040\103
\101\060\166\060\020\006\007\052\020\061\103\160\075\002\020\010\006
\053\012\004\000\004\42\003\142\000\004\145\120\112\256\214\171\122
\112\252\034\010\03\024\242\321\35\376\131\126\101\167\375\046\224
\102\273\035\315\010\333\163\262\133\165\363\317\234\116\202\236
\277\37\141\040\205\154\326\205\133\162\160\322\375\333\142\264
\337\123\213\275\261\104\130\142\021\011\030\372\177\133\020\347
\376\100\375\300\333\030\053\062\347\160\246\267\246\040\125\035
\173\200\13\311\321\147\114\361\020\243\102\060\100\060\035\006
\003\125\035\016\004\026\000\024\230\071\135\276\330\262\214\367
\262\253\341\255\044\257\173\174\241\333\037\317\060\017\006\003
\125\035\023\010\001\013\770\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\000\060\012\006
\010\052\206\011\031\160\075\004\003\003\003\150\000\006\145\002\060
\127\235\335\126\361\137\343\351\270\111\120\15\123\333\151\303\157
\354\303\175\045\344\127\225\023\100\233\122\323\073\363\100\031
\274\046\307\055\006\236\265\173\066\237\365\045\324\143\153\000
\002\061\100\035\132\33\062\236\126\232\052\314\241\332\077\310\146
\053\323\130\234\040\205\372\253\221\212\160\160\021\070\140\144
\013\142\011\221\130\000\037\115\373\064\150\332\011\255\041\006
\030\224\316
END

CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# Trust for "vTrus ECC Root CA"

# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co., Ltd.", C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co., Ltd.", C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After: Fri Jul 31 07:26:44 2043

Fingerprint (SHA-256):

Fingerprint (SHA1):

# Certificate "vTrus ECC Root CA"

# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co., Ltd.", C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co., Ltd.", C=CN
# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After: Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065\375\157\274\005\215\105
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\126\060\020\003\076\240\003\002\001\002\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065\375\157\274\005\215\105
\005\215\105\060\015\050\006\011\052\206\110\206\367\015\000\100\101\13
\005\000\006\013\060\011\006\003\125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061
\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157\122\157\157\164\040\103\101\060\036\027\015\156\010\070\060\067\070\063\061\061\060\067\062\064\060\065\132\027\015\064\063\060\067\063\061\060\067\062\064\060\065\132\027\015\064\063\060\067\063\061\060\067\062\064\060\065\132\026\060\103\061\013\060\011\006\003\125\004\006\023\002\103
\004\006\023\002\010\013\166\061\034\060\032\006\003\125\004\012\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061
\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157\122\157\157\164\040\103\101\060\036\027\015\156\010\070\060\067\070\063\061
```
\140\241\147\003\240\324\162\147\304\061\316\333\064
\345\045\003\140\045\173\161\230\344\003\003\035\137\164\102\322
\113\305\131\100\001\000\270\276\030\033\177\347\226\331\134\133\4050
\227\326\217\005\343\365\233\116\312\035\120\107\005\123\260\312
\071\134\205\240\211\301\000\073\001\067\323\077\111\134\216\73\353
\043\310\101\146\073\075\071\166\041\106\036\135\134\70\043\270\353
\124\146\165\164\303\100\367\330\150\023\223\342\055\251\056\275
\034\243\036\310\164\103\066\244\055\172\040\253\073\270\260\106\375
\157\335\137\122\125\165\142\360\227\240\174\327\070\375\045\3337
\131\520\233\020\317\123\270\070\136\136\305\264\246\002\266\241
\036\137\034\137\342\226\235\051\125\257\230\256\122\341\136\101
\122\373\251\056\162\220\237\047\343\252\163\175\370\032\043\146
\173\073\253\145\260\062\001\113\025\076\075\242\117\114\053\065
\242\306\333\114\072\220\065\060\315\166\056\026\263\231\123\115\117
\116\055\073\064\010\034\112\232\016\015\244\146\227\272\322\034\112
\114\054\052\213\213\201\117\161\032\251\035\034\131\73\010\035
\000\015\067\100\034\171\173\124\137\057\205\137\166\166\166\167\247
\260\034\127\126\301\162\350\255\242\257\15\063\111\272\037\212
\334\346\164\174\140\206\157\207\227\173
END

CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for “vTrus Root CA”
# Issuer: CN=vTrus Root CA,O=“iTrusChina Co.,Ltd.”,C=CN
# Subject: CN=vTrus Root CA,O=“iTrusChina Co.,Ltd.”,C=CN
# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After : Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERT SHA1_HASH MULTILINE OCTAL
\204\032\151\373\365\315\032\240\064\023\075\343\70\374\270\231
\320\311\024\267
END

CKA_CERT MD5 HASH MULTILINE OCTAL
\270\311\067\337\372\153\061\204\144\305\352\021\152\033\165\374
END

CKA_ISSUER MULTILINE OCTAL
\060\013\061\013\060\001\110\060\023\125\004\060\203\022\010\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
```
Certificate "ISRG Root X2"

Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
Not Valid Before: Fri Sep 04 00:00:00 2020
Not Valid After: Mon Sep 17 16:00:00 2040
Fingerprint (SHA-256):
Fingerprint (SHA1):

Certificate

Serial Number: 0

Issuer:

Subject:

Fingerprint (SHA-256):
Fingerprint (SHA1):

Certificate

Serial Number: 0

Issuer:

Subject:

Fingerprint (SHA-256):
Fingerprint (SHA1):

Certificate

Serial Number: 0

Issuer:

Subject:
# Trust for "ISRG Root X2"
# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After: Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\275\261\271\074\325\227\215\105\306\046\024\125\370\333\225\307
\132\321\123\257
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\236\304\036\043\074\246\337\317\243\176\155\340\024\346\345
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\132\235\321\162\352\356\247\200\301\054\154\351\057
\207\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "HiPKI Root CA - G1"
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After: Thu Dec 31 15:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"

# Trust for "HiPKI Root CA - G1"
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After : Thu Dec 31 15:59:59 2037
# Fingerprint (SHA-256):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFT CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFT CK_BBOOL CK_FALSE
# Certificate "GlobalSign ECC Root CA - R4"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Tue Jan 19 03:14:07 2038

# Fingerprint (SHA-256):

# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT MULTILINE_OCTAL
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246
# CKA_ID UTF8 "0"

# CKA_ISSUER MULTILINE_OCTAL
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140

# CKA_TRUST_SERVERAUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END
# Trust for "GlobalSign ECC Root CA - R4"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "GTS Root R1"

# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "GTS Root R1"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT_MULTILINE_OCTAL
\060\107\061\013\060\001\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\000\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\163\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\110\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
# Trust for "GTS Root R1"

# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\345\214\034\304\221\073\070\143\113\351\020\156\343\255\216\153\235\331\201\112

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\005\376\320\277\161\250\243\166\143\332\001\134\030\122\334\100

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\000\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\031\107\124
\123\040\122\157\157\164\040\122\061

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GTS Root R2"
#
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS       CK_OBJECT_CLASS       CKO_CERTIFICATE
CK_TOKEN        CK_BBOOL       CK_TRUE
CK_PRIVATE      CK_BBOOL       CK_FALSE
CK_MODIFIABLE   CK_BBOOL       CK_FALSE
CK_LABEL        UTF8          "GTS Root R2"
CKA_CERTIFICATE_TYPE  CK_CERTIFICATE_TYPE  CKC_X_509
CKA_SUBJECT     MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_ID          UTF8          "0"
CKA_ISSUER      MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\256\305\215\004\045\032\253\021\045\252
END
CKA_VALUE       MULTILINE_OCTAL
\060\202\005\127\060\202\003\077\240\003\002\001\002\002\150\002
\003\345\256\305\215\004\045\032\253\021\045\252\060\015\006\011
\052\206\110\206\367\150\011\011\140\050\000\060\107\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122\062
END
# Trust for "GTS Root R2"

# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_ISSUER MULTILINE_OCTAL
END
# Certificate "GTS Root R3"

# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

# Trust for "GTS Root R3"
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\355\345\161\200\053\310\222\271\133\203\074\322\062\150\077\011
\315\240\036\106
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\347\235\130\002\224\106\121\224\345\340\042\112\213\347\163
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\000\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\030\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GTS Root R4"
#
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\000\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\030\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SUBJECT_OCTAL MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\000\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\030\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\167\323\003\147\265\340\014\025\366\014\070\141\337\174\341\073
\222\106\115\107
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\226\203\167\031\115\166\263\235\145\122\344\035\042\245\350
\222\106\115\107
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\147\147\145
\040\124\161\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\300\150\357\143\032\234\162\220\120\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/certdata.txt
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/certdata.txt
No license file was found, but licenses were detected in source scan.

/* c_rehash.c - Create hash symlinks for certificates
 * C implementation based on the original Perl and shell versions
 *
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 */

Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/c_rehash.c
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/c_rehash.c

1.654 babel-jest 24.9.0

1.655 wso2-carbon-directory-server-manager-stub 5.12.153
1.655.1 Available under license:

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1.656 python-pyasn1-modules 0.2.1-0.2

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1.657 pushgateway 1.4.2

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1.660 lcms 1.19

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.668 setup 2.12.2 6.el8

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1.669 x-sync 0.0.0-20201207232520-09787c993a3a

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 */

/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * 
 * The encoding and decoding algorithm in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain</a>
 * Base64 Encoder/Decoder.</p>
 */

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jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/Headers.java
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jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Crc32c.java
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  jar/io/netty/handler/codecompression/Bzip2DivSufSort.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/Bzip2HuffmanAllocator.java
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  jar/io/netty/handler/codecompression/LzfDecoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/FastLzFrameEncoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/Bzip2Rand.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/Bzip2Constants.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/MessageAggregationException.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/Bzip2Decoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/Bzip2Encoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/FastLzFrameDecoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/Lz4FrameEncoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/LzmaFrameEncoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/DecoderResultProvider.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/AsciiHeadersEncoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
  jar/io/netty/handler/codecompression/LzfEncoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
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* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitReader.java
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jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
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jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
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* Enumeration of supported Base64 dialects.
* <p>
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* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
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jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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 */

/**
 * A decoder that splits the received { @link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * { @link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 */
The value of the length field in this example is 12 (0x0C) which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0 (= do not strip header)
```

 BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

Because we can get the length of the content by calling `ByteBuf#readableBytes()`, you might want to strip the length field by specifying `initialBytesToStrip`. In this example, we specified `2`, that is same with the length of the length field, to strip the first two bytes.

```
initialBytesToStrip = 2 (= the length of the Length field)
```

 BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
```

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> as <tt>lengthAdjustment</tt> for compensation.

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
 *
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*

* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>

* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
*<pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
* *
* BEFORE DECODE (17 bytes)         AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*

* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
*<pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
* *
* BEFORE DECODE (17 bytes)         AFTER DECODE (17 bytes)

* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* 2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
* BEORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------+ +----------------+
* | HDR1 | Length | HDR2 | Actual Content |
* +----------------+ +----------------+
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------+ +----------------+
* | HDR1 | Length | HDR2 | Actual Content |
* +----------------+ +----------------+
@see LengthFieldPrepender

/*

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1.679 googlecloudgopubsub 1.3.1

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package compute_test

import (  
"context"
  
compute "cloud.google.com/go/compute/apiv1"  
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
  ctx := context.Background()
  c, err := compute.NewLicenseCodesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  // TODO: Use client.
  _ = c
}

func ExampleLicenseCodesClient_Get() {
  ctx := context.Background()
  c, err := compute.NewLicenseCodesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
  }
  resp, err := c.Get(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()

c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}

def c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See
    // https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud compute/v1#TestIamPermissionsLicenseCodeRequest
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
    // TODO: Use resp.
   _ = resp
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package compute

import (  "bytes"  "context"  "fmt"  "io/ioutil"  "net/http"

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get returns a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpt := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpt...)
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
        endpoint:   endpoint,
        httpClient: httpClient,
    }
c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicenseCode{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }

        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
        e, err := unm.Unmarshal(buf, resp)
        if err != nil {
            return err
        }
        return nil
    })

    return resp, err
}
```

if err := unmarsh.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if settings.Path != "" {
                baseUrl.Path = settings.Path
            }
            if err != nil {
                return err
            }
            httpReq.Header = headers
            httpReq = httpReq.WithContext(ctx)
        }, settings)
        if err != nil {
            return nil, err
        }
    }

    return resp, nil
}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapis.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

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package compute_test

import (  "context"  
  compute "cloud.google.com/go/compute/apiv1"  "google.golang.org/api/iterator"  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {  
  ctx := context.Background()  
  c, err := compute.NewLicensesRESTClient(ctx)  
  if err != nil {    
    // TODO: Handle error.  
  }  
  defer c.Close()  

  // TODO: Use client.  
  _ = c
}

func ExampleLicensesClient_Delete() {  
  ctx := context.Background()  
  c, err := compute.NewLicensesRESTClient(ctx)  
  if err != nil {    
    // TODO: Handle error.  
  }  
  defer c.Close()  

  // TODO: Use client.  
  _ = c
}
// TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}  
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }

    func ExampleLicensesClient_List() {
        ctx := context.Background()
        c, err := compute.NewLicensesRESTClient(ctx)
        if err != nil {
            // TODO: Handle error.
        }
        defer c.Close()

        req := &computepb.ListLicensesRequest{
            // TODO: Fill request struct fields.
            // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
        }
        it := c.List(ctx, req)
        for {
func ExampleLicensesClient_SetIamPolicy() {
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
        defer c.Close()
    }

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
        _ = resp
    }
}

func ExampleLicensesClient_TestIamPermissions() {
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
        defer c.Close()
    }

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
        _ = resp
    }
}
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package compute

import (  
    "bytes"  
    "context"  
    "fmt"  
    "io/ioutil"  
    "math"  
    "net/http"  
    "net/url"

    gax "github.com/googleapis/gax-go/v2"  
    "google.golang.org/api/googleapi"  
    "google.golang.org/api/iterator"  
    "google.golang.org/api/option"  
    "google.golang.org/api/option/internaloption"  
    httptransport "google.golang.org/api/transport/http"  
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete     Options     []gax.CallOption
    Get        Options     []gax.CallOption
    GetIamPolicy Options []gax.CallOption
    Insert     Options     []gax.CallOption
    List       Options     []gax.CallOption
    SetIamPolicy Options []gax.CallOption
    TestIamPermissions Options []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *compute pb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.

func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    //
clientOpts := append(defaultLicensesRESTClientOptions(), opts...)  
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)  
if err != nil {  
    return nil, err  
}

c := &licensesRESTClient{  
    endpoint:   endpoint,  
    httpClient: httpClient,  
}  
c.setGoogleClientInfo()

o := []option.ClientOption{  
    option.WithHTTPClient(httpClient),  
    option.WithEndpoint(endpoint),  
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)  
if err != nil {  
    return nil, err  
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil

}

func defaultLicensesRESTClientOptions() []option.ClientOption {  
    return []option.ClientOption{  
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),  
        internaloption.WithDefaultMTLSExportEndpoint("https://compute.mtls.googleapis.com"),  
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),  
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),  
    }
}

// setGoogleClientInfo sets the name and version of the application in  
// the `x-goog-api-client` header passed on each request. Intended for  
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {  
    kv := append([]string{"gl-go", versionGo()}, keyval...)  
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")  
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when  
// the client is no longer required.
func (c *licensesRESTClient) Close() error {  
    // Replace httpClient with nil to force cleanup.
    httpClient = nil

if err := c.operationClient.Close(); err != nil {
    return err
}
return nil

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{
        "requestId": fmt.Sprintf("%v", req.GetRequestId()),
    }
    baseUrl.RawQuery = params.Encode()
    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    req := &computepb.Operation{
        Path: "",
    }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReqWithContext(ctx)
        httpReq.Header = headers
        return e
    }, settings, opts...)
    if e != nil {
        return nil, e
    }
    resp, err := (&computepb.Operation{}).UnmarshalResponse(e)
    if err != nil {
        return nil, err
    }
    return resp, nil
}

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httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
return nil, e
}
op := &Operation{
&globalOperationsHandle{
c:
c.operationClient,
proto: resp,
project: req.GetProject(),
},
}
return op, nil
}
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

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headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unn := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, 
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil, err
}

params := url.Values{}
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
    baseUrl.Path = settings.Path
  }
  if err != nil {
    return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    defer httpRsp.Body.Close()
    return err
  }
  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
  }
  return err
})
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReqWithContext(ctx)
        headers = metadataTrailer(headers, md)
        httpReq.Header = headers
        httpResp, err := http.Do(httpReq)
        if err != nil {
            return err
        }
        err = httpResp.Body.Close()
        if err != nil {
            return err
        }

        err = unm.UnmarshalBody(httpResp.Body)
        if err != nil {
            return err
        }
        return nil
    })

    return resp, err
}
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
], opts...)
if e != nil {
    return nil, e
}

op := &Operation{
    &globalOperationsHandle{
        c:       c.operationClient,
        proto:   resp,
        project: req.GetProject(),
    },
}
return op, nil

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
        req := proto.Clone(req).(*computepb.ListLicensesRequest)
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
            resp := &computepb.LicensesListResponse{}
            return resp, pageToken, nil
        }
        for {}
if pageToken != "" {  
    req.PageToken = proto.String(pageToken)  
}  
if pageSize > math.MaxInt32 {  
    req.MaxResults = proto.Uint32(math.MaxInt32)  
} else if pageSize != 0 {  
    req.MaxResults = proto.Uint32(uint32(pageSize))  
}  
baseUrl, err := url.Parse(c.endpoint)  
if err != nil {  
    return nil, "", err  
}  
params := url.Values{}  
if req != nil && req.Filter != nil {  
}  
if req != nil && req.MaxResults != nil {  
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))  
}  
if req != nil && req.OrderBy != nil {  
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))  
}  
if req != nil && req.PageToken != nil {  
}  
if req != nil && req.ReturnPartialSuccess != nil {  
}  
baseUrl.RawQuery = params.Encode()  

// Build HTTP headers from client and context metadata.  
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))  
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {  
    if settings.Path != "" {  
        baseUrl.Path = settings.Path  
    }  
    if err != nil {  
        return err  
    }  
    httpReq.Header = headers  
    httpRsp, err := c.httpClient.Do(httpReq)  
    if err != nil {  
        return err  
    }  
    body, err := ioutil.ReadAll(httpRsp.Body)  
    if err != nil {  
        return err  
    }  
    return body  
  })  
if err != nil {  
    return errors.WithStack(err)  
}
}
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}
fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}
it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()
return it
}
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)

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```go
if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
   (buf, err) := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
})
```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"),

    resp := &computepb.TestPermissionsResponse{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" { baseUrl.Path = settings.Path
        } else {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        return nil, e
    })
    return resp, nil
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}
// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

1.680 strongswan 5.8.4-r2

1.680.1 Available under license:

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The DES implementation in the des plugin and the Blowfish implementation in the blowfish plugin are under a BSD style license (see source files for details). Note that these parts have an advertising clause in it.

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1.690 pcre 8.39-3
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package github

import (  "context"  "fmt" )
// LicensesService handles communication with the license related
// methods of the GitHub API.

// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"
    SHA         *string  `json:"sha,omitempty"
    Size        *int     `json:"size,omitempty"
    URL         *string  `json:"url,omitempty"
    HTMLURL     *string  `json:"html_url,omitempty"
    GitURL      *string  `json:"git_url,omitempty"
    DownloadURL *string  `json:"download_url,omitempty"
    Type        *string  `json:"type,omitempty"
    Content     *string  `json:"content,omitempty"
    Encoding    *string  `json:"encoding,omitempty"
    License     *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"
    Name *string `json:"name,omitempty"
    URL  *string `json:"url,omitempty"
    SPDXID         *string   `json:"spdx_id,omitempty"
    HTMLURL        *string   `json:"html_url,omitempty"
    Featured       *bool     `json:"featured,omitempty"
    Description    *string   `json:"description,omitempty"
    Implementation *string   `json:"implementation,omitempty"
    Permissions    []*string `json:"permissions,omitempty"
    Conditions     []*string `json:"conditions,omitempty"
    Limitations    []*string `json:"limitations,omitempty"
    Body           *string   `json:"body,omitempty"
}

func (l License) String() string {
    return Stringify(l)
}
// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([][]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    var licenses [][]*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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1.693 callback-stream 1.1.0

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CallbackStream
=====


It is a safe variant of the [concat-stream](https://github.com/maxogden/node-concat-stream) package that _will always return an array_.

It does everything callback-stream does, minus the concatenation. In fact, it just callbacks you with an array containing your good stuff.

It is based on the Stream 2 API, but it also works on node v0.8. It also support Stream 3, which is bundled with node v0.12 and iojs.

## Installation

```shell
npm install callback-stream --save
```

## Pipe usage

```javascript
var callback = require('callback-stream')
var fs = require('fs')
var read = fs.createReadStream('readme.md')
var write = callback(function (err, data) {
  console.log(err, data)
})

read.pipe(write)
```

## Object mode usage

```javascript
var callback = require('callback-stream')
var write = callback.obj(function (err, data) {
  // this will print ['hello', 'world']
})
```
```javascript
console.log(data)
})

write.write('hello')
write.write('world')
write.end()
```

## Contributing to CallbackStream

* Check out the latest master to make sure the feature hasn't been implemented or the bug hasn't been fixed yet
* Check out the issue tracker to make sure someone already hasn't requested it and/or contributed it
* Fork the project
* Start a feature/bugfix branch
* Commit and push until you are happy with your contribution
* Make sure to add tests for it. This is important so I don't break it in a future version unintentionally.

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* /opt/cola/permits/1173838324_1623775265.11/0/callback-stream-1-1-0-tgz/package/README.md
1.694 hazelcast-hibernate3 3.5.4

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// released under heavy load or after network partitions. Hence this implementation now uses a spin loop

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* /opt/cola/permits/1151705011_1617967107.61/0/hazelcast-hibernate3-3-5-4-sources-1-jar/com/hazelcast/hibernate/distributed/IMapRegionCache.java

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* /opt/cola/permits/1151705011_1617967107.61/0/hazelcast-hibernate3-3-5-4-sources-1.jar/com/hazelcast/hibernate/local/Timestamp.java
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1.695 husky 1.3.1

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jar/org/objectweb/asm/util/ASMifierSupport.java
* /opt/cola/permits/1229376441_1641580556.05/0/asm-util-8-0-sources-1-
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Found in path(s):
* /opt/cola/permits/1229376441_1641580556.05/0/asm-util-8-0-sources-1.jar/org/objectweb/asm/util/package.html
* /opt/cola/permits/1229376441_1641580556.05/0/asm-util-8-0-sources-1.jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1229376441_1641580556.05/0/asm-util-8-0-sources-1.jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1229376441_1641580556.05/0/asm-util-8-0-sources-1.jar/org/objectweb/asm/util/CheckRecordComponentAdapter.java
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* /opt/cola/permits/1229376441_1641580556.05/0/asm-util-8-0-sources-1.jar/org/objectweb/asm/util/TraceClassVisitor.java
1.698 wso2-carbon-apimgt-gateway 6.4.50

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1.699 psl 1.8.0

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1.700 glib 2.56.4-156.el8

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  jar/org/mozilla/javascript/ast/EmptyExpression.java
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jar/org/mozilla/javascript/SecurityController.java
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jar/org/mozilla/javascript/Synchronizer.java
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jar/org/mozilla/javascript/typedarrays/NativeFloat64Array.java
* /opt/cola/permits/1364238582_1657864810.0523794/0/rhino-1-7-13-sources-3-
jar/org/mozilla/javascript/SymbolScriptable.java
* /opt/cola/permits/1364238582_1657864810.0523794/0/rhino-1-7-13-sources-3-
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 * During the great date rewrite of 1.3, we tried to track the
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 * getYear which always subtracted 1900. Which we
 * implemented, not realizing that it was incompatible with
 * the old behavior... now, rather than thrash the behavior
 * yet again, we've decided to leave it with the - 1900
 * behavior and point people to the getFullYear method. But
 * we try to protect existing scripts that have specified a
 * version...
 */

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* /opt/cola/permits/1364238582_1657864810.0523794/0/rhino-1-7-13-sources-3-
jar/org/mozilla/javascript/tools/debugger/treetable/TreeTableModelAdapter.java

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/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*
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/**
 * This is interface defines a protocol for the reporting of
 * errors during JavaScript translation in IDE-mode.
* If the [@link org.mozilla.javascript.Parser]'s error reporter is
* set to an instance of this interface, then this interface's
* [@link #warning] and [@link #error] methods are called instead
* of the [@link org.mozilla.javascript.ErrorReporter] versions. <p>
* These methods take a source char offset and a length. The
* rationale is that in interactive IDE-type environments, the source
* is available and the IDE will want to indicate where the error
* occurred and how much code participates in it. The start and length
* are generally chosen to fit within a single line, for readability,
* but the client is free to use the AST to determine the affected
* node(s) from the start position and change the error or warning's
* display bounds. <p>
* @author Steve Yegge
*/

Found in path(s):
* /opt/cola/permits/1364238582_1657864810.0523794/0/rhino-1-7-13-sources-3-
  jar/org/mozilla/javascript/ast/IdeErrorReporter.java

1.704 rocksdb 1.1.7
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1.705 cyrus-sasl 2.1.27+dfsg-1+deb10u1

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1.707 x-net 1.15.10

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1.712 maven-shared-utils 3.2.1

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1.713 go-humanize 0.0.0-20171111073723-bb3d318650d4
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1.714 wso2-carbon-registry-properties-stub

4.6.38

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1.715 @babel/plugin-transform-duplicate-keys 7.18.6

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1.716 frac 1.1.2

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Metadata-Version: 1.1
Name: frac
Version: 1.1.2
Summary: Rational approximations to numbers
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Description:
   Rational approximations to numbers

   This module can generate fraction representations using:
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   - Aberth method (as used by spreadsheet software)

Keywords: frac,fraction,rational,approximation
Platform: any
Classifier: Development Status :: 5 - Production/Stable
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1.718 siddhi-extension-markov-models 3.2.3

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1.721 jetty-xml 9.4.20.v20190813

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
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* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 8480
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [{@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 */
* **2 bytes length field at offset 0, do not strip header**

* The value of the length field in this example is `12 (0x0C)` which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

* **2 bytes length field at offset 0, strip header**

* Because we can get the length of the content by calling `ByteBuf#readableBytes()`, you might want to strip the length field by specifying `initialBytesToStrip`. In this example, we specified `2`, that is same with the length of the length field, to strip the first two bytes.

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

```
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
```

* **2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message**

* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero length value in this example message.
* is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>` for compensation.
* `<pre>`
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* `<b>`lengthAdjustment</b> = `<b>-2</b>` (= the length of the Length field)
* initialBytesToStrip = 0
* `<pre>`
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* `<pre>`
* `<h3>`3 bytes length field at the end of 5 bytes header, do not strip header</h3>`
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* `<pre>`
* `<b>`lengthFieldOffset</b> = `<b>2</b>` (= the length of Header 1)
* `<b>`lengthFieldLength</b> = `<b>3</b>`
* lengthAdjustment = 0
* initialBytesToStrip = 0
* `<pre>`
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* `<pre>`
* `<h3>`3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>`
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
* header into the frame length calculation.
* `<pre>`
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* `<b>`lengthAdjustment</b> = `<b>2</b>` (= the length of Header 1)
* initialBytesToStrip = 0
* `<pre>`
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +-----------------------+-----------------------+
2 bytes length field at offset 1 in the middle of 4 bytes header,
   strip the first header field and the length field

This is a combination of all the examples above. There are the prepended
header before the length field and the extra header after the length field.
The prepended header affects the `lengthFieldOffset` and the extra
header affects the `lengthAdjustment`. We also specified a non-zero
`initialBytesToStrip` to strip the length field and the prepended
header from the frame. If you don't want to strip the prepended header, you
could specify `0` for `initialBytesToSkip`.

BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
+------+--------+------+----------------+      +------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+------+--------+------+----------------+

Let's give another twist to the previous example. The only difference from
the previous example is that the length field represents the length of the
whole message instead of the message body, just like the third example.
We have to count the length of HDR1 and Length into `lengthAdjustment`.
Please note that we don't need to take the length of HDR2 into account
because the length field already includes the whole header length.

BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
+------+--------+------+----------------+      +------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0000 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +---------------------------------+ +---------------------------------+
* </pre>
* @see LengthFieldPrepender
*/

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jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/cola/permits/1266442374_1644245812.64/0/netty-codec-4-1-43-final-sources-
jar/io/netty/handler/codec/compression/Crc32c.java
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* /opt/cola/permits/1266442374_1644245812.64/0/netty-codec-4-1-43-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1266442374_1644245812.64/0/netty-codec-4-1-43-final-sources-
jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1266442374_1644245812.64/0/netty-codec-4-1-43-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
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jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1266442374_1644245812.64/0/netty-codec-4-1-43-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1266442374_1644245812.64/0/netty-codec-4-1-43-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
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jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1266442374_1644245812.64/0/netty-codec-4-1-43-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
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/*
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
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  jar/io/netty/handler/codec/CharSequenceValueConverter.java
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  jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
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* /opt/cola/permits/1266442374_1644245812.64/io/netty-codec-4-1-43-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
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1.725 table 5.4.6

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.733 npm-normalize-package 1.0.1

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1.734 maven-shared-io 3.0.0

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1.735 basesystem 11-5.el8
1.735.1 Available under license :
No license file was found, but licenses were detected in source scan.

%global distroname %(source /etc/os-release; echo ${REDHAT_SUPPORT_PRODUCT})

Summary: The skeleton package which defines a simple %{distroname} system
Name: basesystem
Version: 11
Release: 5% {?dist}
License: Public Domain
Group: System Environment/Base
Requires(pre): setup filesystem
BuildArch: noarch

%description
Basesystem defines the components of a basic %{distroname} system
(for example, the package installation order to use during bootstrapping).
Basesystem should be in every installation of a system, and it
should never be removed.

%prep

%build
%%install

%%clean

%%files
%%defattr(-,root,root,-)

%%changelog
* Tue May 07 2019 CentOS Sources <bugs@centos.org> - 11-5.el8.centos
  - adjust description
  - adjust summary

* Wed Feb 07 2018 Fedora Release Engineering <releng@fedoraproject.org> - 11-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_28_Mass_Rebuild

* Wed Jul 26 2017 Fedora Release Engineering <releng@fedoraproject.org> - 11-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Fri Feb 10 2017 Fedora Release Engineering <releng@fedoraproject.org> - 11-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild

* Wed Feb 03 2016 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 11-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Thu Jul 09 2015 Ondrej Vasik <ovasik@redhat.com> 11-1
  - automatically determine OS name at build time (#1195396)

* Wed Jun 17 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-11
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Sat Jun 07 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Sat Aug 03 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Wed Feb 13 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Wed Jul 18 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Thu Jan 12 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Thu Jun 23 2011 Ondrej Vasik <ovasik@redhat.com> 10.0-5
  - fix FTBFS typo (#715640), add disttag
* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 4)

* Tue Mar 16 1999 Cristian Gafton <gafton@redhat.com>
  - don't require rpm (breaks dependency chain)

* Tue Mar 16 1999 Erik Troan <ewt@redhat.com>
  - require rpm

* Wed Dec 30 1998 Cristian Gafton <gafton@redhat.com>
  - build for 6.0

* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Tue Sep 23 1997 Erik Troan <ewt@redhat.com>
  - made a noarch package

Found in path(s):
* /opt/cola/permits/1110779314_1606853351.15/0/basesystem-11-5.el8-1.src.rpm-cosi-expand-archive-kvFRR2fn/basesystem.spec

1.736 lodash.isplainobject 4.0.6

1.736.1 Available under license:

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1.737 go 1.12.7

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1.739 netbase 5.4

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1.741 pcre 8.45-r2

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1.742 lua-libs 5.3.4-11.el8

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1.743 uriparser 0.9.1-1

1.743.1 Available under license:

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1.744 lodash.clonedeep 4.5.0

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1.745 siddhi-query-api 3.2.3
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1.746 wso2-carbon-logging-admin-stub 4.6.49

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1.747 sisu-guice 2.1.7

1.748 jcmtturner-gofork 1.0.0

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1.750 grafana-loki 2.4.2

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1.781 extend-shallow 2.0.1

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Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

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Introduction
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The existence of software inevitably raises the question of how decisions about its use should be made. For example, suppose one individual who has a copy of a program meets another who would like a copy. It is possible for them to copy the program; who should decide whether this is done? The individuals involved? Or another party, called the "owner"?

Software developers typically consider these questions on the assumption that the criterion for the answer is to maximize developers' profits. The political power of business has led to the government adoption of both this criterion and the answer proposed by the developers: that the program has an owner, typically a corporation associated with its development.

I would like to consider the same question using a different criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law--the law should conform to ethics, not the other way around. Nor does current practice decide this question, although it may suggest possible answers. The only way to judge is to see who is helped and who is hurt by recognizing owners of software, why, and how much. In other words, we should perform a cost-benefit analysis on behalf of society as a whole, taking account of individual freedom as well as production of material goods.
In this essay, I will describe the effects of having owners, and show that the results are detrimental. My conclusion is that programmers have the duty to encourage others to share, redistribute, study and improve the software we write: in other words, to write "free" software.(1)

How Owners Justify Their Power
****************************************

Those who benefit from the current system where programs are property offer two arguments in support of their claims to own programs: the emotional argument and the economic argument.

The emotional argument goes like this: "I put my sweat, my heart, my soul into this program. It comes from *me*, it's *mine*!"

This argument does not require serious refutation. The feeling of attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn't even sign their names to their work. To them, the name of the artist was not important. What mattered was that the work was done--and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as 'making a living'), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you'll be stuck with no programs at all!" This threat is usually veiled as friendly advice from the wise.

I'll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes--proprietary software vs. no software--and assuming there are no other possibilities.

Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced
with the choice of proprietary software or none. However, this linkage is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.

The Argument against Having Owners
**********************************

The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows that the benefit is much greater.

To elucidate this argument, let's apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how roads or cars work.

Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to
construct, cheaper to run, safer, and more efficient to use.(2) In a poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use of roads, once built, should be free.

When the advocates of toll booths propose them as *merely* a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.

Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road--but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.

The Harm Done by Obstructing Software
=======================================

Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.(3)

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:
* Fewer people use the program.

* None of the users can adapt or fix the program.

* Other developers cannot learn from the program, or base new work on it.

Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people's decisions have on their subsequent feelings, attitudes and predispositions. These changes in people's ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.

The three levels of material harm waste part of the value that the program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program. Arguably a program that is profitable to sell must provide some net direct material benefit.

However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.

Obstructing Use of Programs
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The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material
objects outside of science fiction. But programs are easy to copy; anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.

With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.

However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.

Damaging Social Cohesion

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

Suppose that both you and your neighbor would find it useful to run a certain program. In ethical concern for your neighbor, you should feel that proper handling of the situation will enable both of you to use it. A proposal to permit only one of you to use the program, while restraining the other, is divisive; neither you nor your neighbor should find it acceptable.

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor
(which they are) is naughty or shameful. That is also a kind of psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users will not be allowed to use their work. This leads to an attitude of cynicism or denial. A programmer may describe enthusiastically the work that he finds technically exciting; then when asked, "Will I be permitted to use it?", his face falls, and he admits the answer is no. To avoid feeling discouraged, he either ignores this fact most of the time or adopts a cynical stance designed to minimize the importance of it.

Since the age of Reagan, the greatest scarcity in the United States is not technical innovation, but rather the willingness to work together for the public good. It makes no sense to encourage the former at the expense of the latter.

Obstructing Custom Adaptation of Programs
==========================================

The second level of material harm is the inability to adapt programs. The ease of modification of software is one of its great advantages over older technology. But most commercially available software isn't available for modification, even after you buy it. It's available for you to take it or leave it, as a black box—that is all.

A program that you can run consists of a series of numbers whose meaning is obscure. No one, not even a good programmer, can easily change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which is written in a programming language such as Fortran or C. It uses names to designate the data being used and the parts of the program, and it represents operations with symbols such as `+' for addition and `-.' for subtraction. It is designed to help programmers read and change programs. Here is an example; a program to calculate the distance between two points in a plane:

```c
float
distance (p0, p1)
    struct point p0, p1;
{
    float xdist = p1.x - p0.x;
    float ydist = p1.y - p0.y;
    return sqrt (xdist * xdist + ydist * ydist);
}
```
Here is the same program in executable form, on the computer I normally use:

\[
\begin{array}{cccc}
1314258944 & -232267772 & -231844864 & 1634862 \\
1411907592 & -231844736 & 2159150 & 1420296208 \\
-234880989 & -234879837 & -234879966 & -232295424 \\
1644167167 & -3214848 & 1090581031 & 1962942495 \\
572518958 & -803143692 & 1314803317 & \\
\end{array}
\]

Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will execute. This means that only the program's owner can change the program.

A friend once told me of working as a programmer in a bank for about six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted to their needs. The bank was willing to pay for this, but was not permitted to—the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.

The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.

Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.
Most good programmers have experienced this frustration. The bank could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm—to the spirit of self-reliance. It is demoralizing to live in a house that you cannot rearrange to suit your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?", and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to tamper with it? You don't have the judgment to change my recipe and make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do? Will you take out the salt for me?"

"I would be glad to do that; my fee is only $50,000." Since the owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get around to you in about two years."

Obstructing Software Development
================================

The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large program. They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.
In any intellectual field, one can reach greater heights by standing on the shoulders of others. But that is no longer generally allowed in the software field—you can only stand on the shoulders of the other people *in your own company*.

The associated psychosocial harm affects the spirit of scientific cooperation, which used to be so strong that scientists would cooperate even when their countries were at war. In this spirit, Japanese oceanographers abandoning their lab on an island in the Pacific carefully preserved their work for the invading U.S. Marines, and left a note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared. Nowadays scientists in many fields don't publish enough in their papers to enable others to replicate the experiment. They publish only enough to let readers marvel at how much they were able to do. This is certainly true in computer science, where the source code for the programs reported on is usually secret.

It Does Not Matter How Sharing Is Restricted
============================================

I have been discussing the effects of preventing people from copying, changing and building on a program. I have not specified how this obstruction is carried out, because that doesn't affect the conclusion. Whether it is done by copy protection, or copyright, or licenses, or encryption, or ROM cards, or hardware serial numbers, if it *succeeds* in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others. I suggest that the methods most hated are those that accomplish their objective.

Software Should be Free
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I have shown how ownership of a program—the power to restrict changing or copying it—is obstructive. Its negative effects are widespread and important. It follows that society shouldn't have owners for programs.

Another way to understand this is that what society needs is free software, and proprietary software is a poor substitute. Encouraging the substitute is not a rational way to get what we need.

Vaclav Havel has advised us to "Work for something because it is good, not just because it stands a chance to succeed." A business making proprietary software stands a chance of success in its own narrow
terms, but it is not what is good for society.

Why People Will Develop Software
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If we eliminate intellectual property as a means of encouraging people to develop software, at first less software will be developed, but that software will be more useful. It is not clear whether the overall delivered user satisfaction will be less; but if it is, or if we wish to increase it anyway, there are other ways to encourage development, just as there are ways besides toll booths to raise money for streets. Before I talk about how that can be done, first I want to question how much artificial encouragement is truly necessary.

Programming is Fun
==================

There are some lines of work that few will enter except for money; road construction, for example. There are other fields of study and art in which there is little chance to become rich, which people enter for their fascination or their perceived value to society. Examples include mathematical logic, classical music, and archaeology; and political organizing among working people. People compete, more sadly than bitterly, for the few funded positions available, none of which is funded very well. They may even pay for the chance to work in the field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the possibility of getting rich. When one worker gets rich, others demand the same opportunity. Soon all may demand large sums of money for doing what they used to do for pleasure. When another couple of years go by, everyone connected with the field will deride the idea that work would be done in the field without large financial returns. They will advise social planners to ensure that these returns are possible, prescribing special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past decade. Fifteen years ago, there were articles on "computer addiction": users were "onlining" and had hundred-dollar-a-week habits. It was generally understood that people frequently loved programming enough to break up their marriages. Today, it is generally understood that no one would program except for a high rate of pay. People have forgotten what they knew fifteen years ago.

When it is true at a given time that most people will work in a certain field only for high pay, it need not remain true. The dynamic of change can run in reverse, if society provides an impetus. If we take away the possibility of great wealth, then after a while, when the
people have readjusted their attitudes, they will once again be eager to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier question when we realize that it's not a matter of paying them a fortune. A mere living is easier to raise.

Funding Free Software

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Institutions that pay programmers do not have to be software houses. Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software development even if they cannot control the use of the software. In 1970, much of their software was free because they did not consider restricting it. Today, their increasing willingness to join consortiums shows their realization that owning the software is not what is really important for them.

Universities conduct many programming projects. Today, they often sell the results, but in the 1970s, they did not. Is there any doubt that universities would develop free software if they were not allowed to sell software? These projects could be supported by the same government contracts and grants which now support proprietary software development.

It is common today for university researchers to get grants to develop a system, develop it nearly to the point of completion and call that "finished", and then start companies where they really finish the project and make it usable. Sometimes they declare the unfinished version "free"; if they are thoroughly corrupt, they instead get an exclusive license from the university. This is not a secret; it is openly admitted by everyone concerned. Yet if the researchers were not exposed to the temptation to do these things, they would still do their research.

Programmers writing free software can make their living by selling services related to the software. I have been hired to port the GNU C compiler to new hardware, and to make user-interface extensions to GNU Emacs. (I offer these improvements to the public once they are done.) I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful, growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry-an industry that could become quite large if free software
becomes prevalent. It provides users with an option generally unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying tapes through the mail. The software on the tapes is free, which means that every user has the freedom to copy it and change it, but many nonetheless pay to get copies. (Recall that “free software” refers to freedom, not to price.) Some users order tapes who already have a copy, as a way of making a contribution they feel we deserve. The Foundation also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on hiring as many programmers as possible. If it had been set up as a business, distributing the same free software to the public for the same fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the Foundation for half of what they could make elsewhere. They do this because we are free of bureaucracy, and because they feel satisfaction in knowing that their work will not be obstructed from use. Most of all, they do it because programming is fun. In addition, volunteers have written many useful programs for us. (Recently even technical writers have begun to volunteer.)

This confirms that programming is among the most fascinating of all fields, along with music and art. We don't have to fear that no one will want to program.

What Do Users Owe to Developers?
================================

There is a good reason for users of software to feel a moral obligation to contribute to its support. Developers of free software are contributing to the users' activities, and it is both fair and in the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers, since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled to the support of the users, but any attempt to turn this moral obligation into a requirement destroys the basis for the obligation. A developer can either deserve a reward or demand it, but not both.

I believe that an ethical developer faced with this paradox must act so as to deserve the reward, but should also entreat the users for voluntary donations. Eventually the users will learn to support
developers without coercion, just as they have learned to support public radio and television stations.

What Is Software Productivity?
******************************

If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software productivity at all levels:

* Wider use of each program that is developed.

* The ability to adapt existing programs for customization instead of starting from scratch.

* Better education of programmers.

* The elimination of duplicate development effort.

Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of "software productivity" focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

Is Competition Inevitable?
**************************

Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not harmful; the harmful thing is *combat*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the
old days, there was competition among programming wizards--competition for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, *as long as* the spirit of good sportsmanship is maintained.

Constructive competition is enough competition to motivate people to great efforts. A number of people are competing to be the first to have visited all the countries on Earth; some even spend fortunes trying to do this. But they do not bribe ship captains to strand their rivals on desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to impede each other instead of advancing themselves--when "Let the best person win" gives way to "Let me win, best or not." Proprietary software is harmful, not because it is a form of competition, but because it is a form of combat among the citizens of our society.

Competition in business is not necessarily combat. For example, when two grocery stores compete, their entire effort is to improve their own operations, not to sabotage the rival. But this does not demonstrate a special commitment to business ethics; rather, there is little scope for combat in this line of business short of physical violence. Not all areas of business share this characteristic. Withholding information that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to combat the competition. Some forms of combat have been made banned with anti-trust laws, truth in advertising laws, and so on, but rather than generalizing this to a principled rejection of combat in general, executives invent other forms of combat which are not specifically prohibited. Society's resources are squandered on the economic equivalent of factional civil war.

"Why Don't You Move to Russia?"

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

In the United States, any advocate of other than the most extreme form of laissez-faire selfishness has often heard this accusation. For example, it is leveled against the supporters of a national health care system, such as is found in all the other industrialized nations of the free world. It is leveled against the advocates of public support for the arts, also universal in advanced nations. The idea that citizens have any obligation to the public good is identified in America with Communism. But how similar are these ideas?

Communism as was practiced in the Soviet Union was a system of central control where all activity was regimented, supposedly for the
common good, but actually for the sake of the members of the Communist party. And where copying equipment was closely guarded to prevent illegal copying.

The American system of intellectual property exercises central control over distribution of a program, and guards copying equipment with automatic copying protection schemes to prevent illegal copying.

By contrast, I am working to build a system where people are free to decide their own actions; in particular, free to help their neighbors, and free to alter and improve the tools which they use in their daily lives. A system based on voluntary cooperation, and decentralization.

Thus, if we are to judge views by their resemblance to Russian Communism, it is the software owners who are the Communists.

The Question of Premises
************************

I make the assumption in this paper that a user of software is no less important than an author, or even an author's employer. In other words, their interests and needs have equal weight, when we decide which course of action is best.

This premise is not universally accepted. Many maintain that an author's employer is fundamentally more important than anyone else. They say, for example, that the purpose of having owners of software is to give the author's employer the advantage he deserves--regardless of how this may affect the public.

It is no use trying to prove or disprove these premises. Proof requires shared premises. So most of what I have to say is addressed only to those who share the premises I use, or at least are interested in what their consequences are. For those who believe that the owners are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which elevates certain people in importance above everyone else? Partly because of the belief that this premise is part of the legal traditions of American society. Some people feel that doubting the premise means challenging the basis of society.

It is important for these people to know that this premise is not part of our legal tradition. It never has been.

Thus, the Constitution says that the purpose of copyright is to "promote the progress of science and the useful arts." The Supreme Court has elaborated on this, stating in `Fox Film vs. Doyal' that "The
sole interest of the United States and the primary object in conferring the [copyright] monopoly lie in the general benefits derived by the public from the labors of authors.”

We are not required to agree with the Constitution or the Supreme Court. (At one time, they both condoned slavery.) So their positions do not disprove the owner supremacy premise. But I hope that the awareness that this is a radical right-wing assumption rather than a traditionally recognized one will weaken its appeal.

Conclusion
**********

We like to think that our society encourages helping your neighbor; but each time we reward someone for obstructionism, or admire them for the wealth they have gained in this way, we are sending the opposite message.

Software hoarding is one form of our general willingness to disregard the welfare of society for personal gain. We can trace this disregard from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from failing banks to failing schools. We can measure it with the size of the homeless population and the prison population. The antisocial spirit feeds on itself, because the more we see that other people will not help us, the more it seems futile to help them. Thus society decays into a jungle.

If we don't want to live in a jungle, we must change our attitudes. We must start sending the message that a good citizen is one who cooperates when appropriate, not one who is successful at taking from others. I hope that the free software movement will contribute to this: at least in one area, we will replace the jungle with a more efficient system which encourages and runs on voluntary cooperation.

--------- Footnotes ---------

(1) The word "free" in "free software" refers to freedom, not to price; the price paid for a copy of a free program may be zero, or small, or (rarely) quite large.

(2) The issues of pollution and traffic congestion do not alter this conclusion. If we wish to make driving more expensive to discourage driving in general, it is disadvantageous to do this using toll booths, which contribute to both pollution and congestion. A tax on gasoline is much better. Likewise, a desire to enhance safety by limiting maximum speed is not relevant; a free access road enhances the average speed by avoiding stops and delays, for any given speed limit.
(3) One might regard a particular computer program as a harmful thing that should not be available at all, like the Lotus Marketplace database of personal information, which was withdrawn from sale due to public disapproval. Most of what I say does not apply to this case, but it makes little sense to argue for having an owner on the grounds that the owner will make the program less available. The owner will not make it *completely* unavailable, as one would wish in the case of a program whose use is considered destructive.

Copyright (C) 2007-2013 Free Software Foundation, Inc.
See the end of the file for license conditions.

NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format: "Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzr commit's "--author" option. Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be
self-explanatory in terms of copyright and license. This includes files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (eg ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not _necessary_ to do so, and rms prefers that we do not. This means one needs to take care that trivial files do not grow and become non-trivial without having a license added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial file, eg: "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of refcards etc should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (eg Gnus, MH-E), but I think in every case this happens automatically (?).

All README (and other such text files) that are non-trivial should contain copyright statements and GPL license notices, exactly as .el files do (see e.g. README in the top-level directory). Before 2007, we used a simple, short statement permitting copying and modification provided legal notices were retained. In Feb 2007 we switched to the standard GPL text, on legal advice. Some older text files in etc/ should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded in a README file in each directory with images. (Legal advice says that we need not add notices to each image file individually, if they allow for that.). It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to
When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices, and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even ChangeLogs, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

lisp/version.el       # emacs-copyright
lib-src/ebrowse.c     # version
lib-src/etags.c       # print_version
lib-src/rcs2log       # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
`set-copyright' in admin.el will do all the above.
aconfiglocal.m4
configure
m4/*.m4
- copyright FSF, with unlimited permission to copy, distribute and modify

lib/Makefile.in
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

etc/refcards/*.tex
also update the \def{year} macro for the latest year.

etc/future-bug
- doesn't need a humorless disclaimer, because Karl Fogel says we
can consider it part of Emacs, and he has a blanker disclaimer for
Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug",
2007028)

etc/letter.pbm, letter.xpm
- trivial, no notice needed.

etc/FTP, ORDERS
- trivial (at time of writing), no license needed

etc/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT,
WHY-FREE
rms: "These are statements of opinion or testimony. Their licenses
should permit verbatim copying only. Please don't change the
licenses that they have. They are distributed with Emacs but they
are not part of Emacs."

etc/HELLO
standard notices. Just a note that although the file itself is not
really copyrightable, in the wider context of it being part of
Emacs (and written by those with assignments), a standard notice is
fine.

etc/MAILINGLISTS
rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit,
ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QI-b5.tit, QI.tit,
SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.
leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns, pinyin.map, ziranma.cin
- leave the copyright alone.
Note that pinyin.map, ziranma.cin (and hence the generated
leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/SKK-DIC/ SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold.
After some investigation in Feb 2007, then to the best of our
knowledge we believe that the original 1984 Emacs version was based
on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845a640a9>
I have received enough requests for the current source to etags
post to it. Here is the latest version (what will go out with
4.3, modulo any bugs fixed during the beta period). It is the
4.2 etags with recognition of yacc and lex tags added.

See also a 1984 version of etags (no copyright) posted to net.sources:
<http://groups.google.com/group/net.sources/msg/a21b6c21be12a98d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the
University of California and a revised BSD license. The terms of
this require that the full license details be available in binary
distributions - hence the file etc/ETAGS.README. The fact that the
--version output just says "Copyright <year> FSF" is apparently OK
from a legal point of view.

lisp/cedet/semantic/imenu.el
in which Eric Ludlam established that the remaining contributions
from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe
(2007/1) there is no problem with our use of the name "tetris" or
the concept.
  rms: "My understanding is that game rules as such are not copyrightable."
  rms: Legal advice is that we are ok and need not worry about this.
lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/

rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.
To clarify the situation, in Feb 2007 we added Lucid copyrights and
gPL notices to those files lacking either that were non-trivial,
namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents
our best understanding of the legal status of these files. We also
clarified the notices in Makefile.in, which was originally the
Makefile auto-generated from Lucid's Imakefile.

As of Feb 2007, the following files are considered too trivial for
notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as
that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw
files, which did not appear till Athena support was added in Lucid
Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later,
but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2
or later. These are the versions that were first installed in Emacs.
So in GNU Emacs, these two files have been under v2 or later since
1994.

It seems that it was the intention of Lucid to use v1 or later
(excepting the two files mentioned previously); so this is the license
we have used when adding notices to code that did not have notices
originally. Although we have the legal right to switch to v2 or later,
rms prefers that we do not do so.

doc/*/doclicense.texi
- leave the copyright alone in this imported file.

doc/*.texi - All manuals should be under GFDL (but see below), and
should include a copy of it, so that they can be distributed
separately. faq.texi has a different license, for some reason no-one
can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with
FSF (reconfirmed by rms Aug 25 2008). Discussion with
licensing@fsf.org starting on Thu, 07 Aug 2003 with subject:
"[gnu.org #58812] Changing license of MH-E manual"

msdos/is_exec.c, sigaction.c - these files are copyright DJ Delorie.
Leave the copyrights alone. Leave the Eli Zaretskii copyright in
is_exec.c alone. See the msdos/README file for the legal history of
these files.

msdos/sed*.inp - These files are copyright FSF and distributed under
an MIT-like license.

oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the licenses into the files. Note that the original X10.h did not use copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diff'ing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"):

It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:

<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glibc>
To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as
src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

src/ndir.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

etc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

  I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

  Odds are that I did, but I'm not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:

** Issues that are "fixed" for the release of Emacs 22, but we may
wish to revisit later in more detail

admin/check-doc-strings
File says it's in the public domain, but that might not make it so.

etc/e/eterm-color.ti
src/ndir.h
On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h
[note some of these have since been merged into other files]
- all these (not obviously trivial) files were missing copyrights till Feb 2007, when FSF copyright was added. Matt Norwood advised:

For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF. only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember anything about it. If I put it in without other comment, then probably I wrote it myself."

Someone might want to tweak the copyright years (for dates before 2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some files I thought might be considered non-trivial (if one includes comment) in s/:

```
  aix4-1.h  hpux10.h  irix6-5.h
  sol2.h
```

(everything with > 30 non-blank lines, which at least is _some_ kind of system)

*** These are copyright issues that need not be fixed until after Emacs 22 is released (though if they can be fixed before, that is obviously good):

Is it OK to just `bzr remove` a file for legal reasons, or is something more drastic needed? A removed file is still available from the repository, if suitable options are applied. (This issue obviously does not affect a release).

rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
- Restore if find legal info. emacs21.ico is not due to Davenport.
  Geoff Voelker checked but could not find a record of where it came from.

etc/images
Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will contact image authors in regards to future switch to v3.

etc/TUTORIAL* (translations)
switch to GPL (see english TUTORIAL)
rms: "We can leave the TUTORIAL translations alone until their
maintainers update them.”
Can adapt short license text from end of GPL translations at:
http://www.gnu.org/licenses/translations.html
Only a few sentences around the license notice need changing from
previous version.
Done: TUTORIAL.eo

*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg
those included from Gnulib). These are all copyright FSF and (at time
of writing) GPL >= 2. rms says may as well leave the licenses of these
alone (may import them from Gnulib again). These are:

Gnulib:
build-aux/compile
build-aux/config.guess
build-aux/config.sub
build-aux/depcomp
build-aux/missing
build-aux/move-if-change
build-aux/snippet/_Noreturn.h
build-aux/snippet/argnonnull.h
build-aux/snippet/c++defs.h
build-aux/snippet/warn-on-use.h
doc/man/texinfo.tex
lib/*.ch
lib/gnulib.mk
src/gmalloc.c
src/termcap.c
src/tparam.c

Note _not_ included in the above are src/regex.c,h (rms: “That
forked version is only in Emacs, so definitely relicense that.”), and
oldXMenu/insque.c (rms: “We wrote that specifically for Emacs, so
definitely relicense that.”).
2. The files that are copyright FSF and AIST, or AIST alone, should be and were updated, ditto the oldXMenu files with FSF copyright, and msdos/is_exec.c and sigaction.c.

3. lwlib/

Files originally in Lucid Widget Library were left alone (excludes ChangeLog, etc), ie remain under GPL v1 or later, or v2 or later. (rms: "We may as well leave this alone, since we are never going to change it much.")

4. There are some files where the FSF holds no copyright. These were left alone:

leim/MISC-DIC/CTLau-b5.html >= v2
leim/MISC-DIC/CTLau.html  >= v2
   (above included in lisp/international/titdic-cnv.el)
leim/MISC-DIC/pinyin.map   >= v1
leim/MISC-DIC/ziranma.cin  >= v1
leim/SKK-DIC/SKK-JISYO.L  >= v2
leim/SKK-DIC/README       >= v2
leim/ja-dic/ja-dic.el     >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:

   etc/images/gnus/README
   etc/images/mail/README
   etc/images/README
   nt/icons/README

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You should have received a copy of the GNU General Public License along with GNU Emacs. If not, see <http://www.gnu.org/licenses/>. ;;; copyright.el --- update the copyright notice in current buffer
;; Commentary:

;; Allows updating the copyright year and above mentioned GPL version manually
;; or when saving a file.
;; Do (add-hook 'before-save-hook 'copyright-update), or use
;; M-x customize-variable RET before-save-hook RET.

;; Code:

(defun copyright-update ()
  ;; Update the copyright notice in current buffer.
  ;;
  ;; The copyright year is automatically inserted.
  ;;
  ;; Copyright (C) 1991-1995, 1998, 2001-2013 Free Software Foundation,
  ;; Inc.
  ;;
  ;; Author: Daniel Pfeiffer <occitan@esperanto.org>
  ;; Keywords: maint, tools
  ;;
  ;; This file is part of GNU Emacs.
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  ;; the Free Software Foundation, either version 3 of the License, or
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  ;;
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  ;; GNU General Public License for more details.
  ;;
  ;; You should have received a copy of the GNU General Public License
  ;; along with GNU Emacs.  If not, see <http://www.gnu.org/licenses/>.

  ;; Commentary:

  ;; Allows updating the copyright year and above mentioned GPL version manually
  ;; or when saving a file.
  ;; Do (add-hook 'before-save-hook 'copyright-update), or use
  ;; M-x customize-variable RET before-save-hook RET.

  ;; Code:

  (defgroup copyright nil
    "Update the copyright notice in current buffer."
    :group 'tools)

  (defcustom copyright-limit 2000
    "Don't try to update copyright beyond this position unless interactive.
     A value of nil means to search whole buffer."
    :group 'copyright
    :type (choice (integer :tag "Limit")
                 (const :tag "No limit")))

  (defcustom copyright-at-end-flag nil
    "Non-nil means to search backwards from the end of the buffer for copyright.
     This is useful for ChangeLogs."
    :group 'copyright
    :type 'boolean
    :version "23.1")
  ;;;;autoload(put 'copyright-at-end-flag 'safe-local-variable 'booleanp)
(defcustom copyright-regexp
"\(\|@copyright{}\|\[Cc\]opyright\s *:?\s *\(?:(C)\)?\s *\|\[Cc\]opyright\s *:?\s *\)\s *\(?:[^0-9\n]*\s *\)?\(\[1-9]\(\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*[0-9]+\)"
"What your copyright notice looks like. The second \( \) construct must match the years."
:group `copyright
:type ’regexp)

(defcustom copyright-names-regexp ""
"Regexp matching the names which correspond to the user. Only copyright lines where the name matches this regexp will be updated. This allows you to avoid adding years to a copyright notice belonging to someone else or to a group for which you do not work."
:group `copyright
:type ’regexp)

;; The worst that can happen is a malicious regexp that overflows in ;; the regexp matcher, a minor nuisance. It’s a pain to be always ;; prompted if you want to put this in a dir-locals.el. ;;###autoload(put ’copyright-names-regexp ’safe-local-variable ’stringp)

(defcustom copyright-years-regexp
"\(\s *\)\(\[1-9]\(\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*[0-9]+\)"
"Match additional copyright notice years. The second \( \) construct must match the years."
:group `copyright
:type ’regexp)

;; See "Copyright Notices" in maintain.info.
;; TODO? ’end only for ranges at the end, other for all ranges.
;; Minimum limit on the size of a range?
(defcustom copyright-year-ranges nil
"Non-nil if individual consecutive years should be replaced with a range. For example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008. If you use ranges, you should add an explanatory note in a README file. The function ’copyright-fix-years’ respects this variable."
:group `copyright
:type ’boolean
:version "24.1")

;;###autoload(put ’copyright-year-ranges ’safe-local-variable ’booleanp)

(defcustom copyright-query ’function
"If non-nil, ask user before changing copyright. When this is ’function’, only ask when called non-interactively."
:load-path "")
(when copyright-limit
  (if copyright-at-end-flag
    (- (point) copyright-limit)
    (+ (point) copyright-limit)))))

(defun copyright-re-search (regexp &optional bound noerror count)
  "Re-search forward or backward depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
    (re-search-backward regexp bound noerror count)
    (re-search-forward regexp bound noerror count)))))

(defun copyright-start-point ()
  "Return point-min or point-max, depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
    (point-max)
    (point-min))))

(defun copyright-offset-too-large-p ()
  "Return non-nil if point is too far from the edge of the buffer."
  (when copyright-limit
    (if copyright-at-end-flag
      (< (point) (- (point-max) copyright-limit))
      (> (point) (+ (point-min) copyright-limit)))))

(defun copyright-find-copyright ()
  "Return non-nil if a copyright header suitable for updating is found."
  (when copyright-limit
    (if copyright-at-end-flag
      (when copyright-offset-too-large-p
        (widen))))
    (widen)
(goto-char (copyright-start-point))

(condition-case err
  ;; (1) Need the extra \( \) around copyright-regexp because we
  ;; goto (match-end 1) below. See note (2) below.
  (copyright-re-search (concat \"\" copyright-regexp
"\(\[ \t\n\)\.*\(?:" copyright-names-regexp \")\")
  (copyright-limit)
  t)

  ;; In case the regexp is rejected. This is useful because
  ;; copyright-update is typically called from before-save-hook where
  ;; such an error is very inconvenient for the user.
  (error (message "Can't update copyright: %s" err) nil)))

(defun copyright-find-end ()
  "Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years."
  (while (save-excursion
    (and (eq (following-char) ?),)
    (progn (forward-char 1) t)
    (progn (skip-chars-forward " \t") (eolp))
    (save-match-data
      (forward-line 1)
      (and (looking-at copyright-years-regexp)
        (goto-char (match-end 0)))
      (looking-at-p copyright-years-regexp)))
  (forward-line 1)
  (re-search-forward comment-start-skip)

  ;; (2) Need the extra \( \) so that the years are subexp 3, as
  ;; they are at note (1) above.
  (re-search-forward (format \"\\(%s\)" copyright-years-regexp)))

(defun copyright-update-year (replace noquery)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq copyright-current-year (format-time-string "%Y"))

  (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
    (substring copyright-current-year -2))
    (if (or noquery
      (save-window-excursion
        (switch-to-buffer (current-buffer))

        ;; Fixes some point-moving oddness (bug#2209).
        (save-excursion
          (y-or-n-p (if replace
            (concat "Replace copyright year(s) by "

```
Allocate copyright-current-year "? "
(concat "Add " copyright-current-year
" to copyright? "))))))

(if replace
  (replace-match copyright-current-year t t nil 3)
(let ((size (save-excursion (skip-chars-backward "0-9"))))
  (if (and (eq (% (- (string-to-number copyright-current-year)
     (string-to-number (buffer-substring
     (+ (point) size)
     (point)))))
     100)
1)
  (or (eq (char-after (+ (point) size -1)) ?-)
    (eq (char-after (+ (point) size -2)) ?-))))
::; This is a range so just replace the end part.
(delete-char size)
::; Insert a comma with the preferred number of spaces.
(insert
  (save-excursion
    (if (re-search-backward "\[0-9\\( *, *\)\\[0-9"
      (line-beginning-position) t)
      (match-string 1)
      ", ")))
  ;; If people use the '91 '92 '93 scheme, do that as well.
  (if (eq (char-after (+ (point) size -3)) ?)
    (insert ?))
  ;; Finally insert the new year.
  (insert (substring copyright-current-year size)))))))
::;###autoload
(defun copyright-update (&optional arg interactivep)
"Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
'copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "P")
(when (or copyright-update interactivep)
  (let ((noquery (or (not copyright-query)
                  (and (eq copyright-query 'function) interactivep))))
    (save-excursion
      (save-restriction
        ;; If names-regexp doesn't match, we should not mess with
        ;; the years _or_ the GPL version.
        ;; TODO there may be multiple copyrights we should update.
        (when (copyright-find-copyright)
(copyright-update-year arg noquery)
(goto-char (copyright-start-point))
(and copyright-current-gpl-version
;; Match the GPL version comment in .el files.
;; This is sensitive to line-breaks. :( 
(copyright-re-search
"the Free Software Foundation[,\n.*either version \n\([0-9]+\)#\n.*any later version"
(copyright-limit) t)
;; Don't update if the file is already using a more recent
;; version than the "current" one.
(< (string-to-number (match-string 1))
 (string-to-number copyright-current-gpl-version))
(or noquery
 (save-match-data
  (goto-char (match-end 1))
  (save-window-excursion
   (switch-to-buffer (current-buffer))
   (y-or-n-p
    (format "Replace GPL version %s with version %s? "
     (match-string-no-properties 1)
     copyright-current-gpl-version))))
   (replace-match copyright-current-gpl-version t t nil 1))))
   (set (make-local-variable 'copyright-update) nil)))
;; If a write-file-hook returns non-nil, the file is presumed to be written.
nil))

;; FIXME heuristic should be within 50 years of present (cf calendar).
;;;;#autoload
(defun copyright-fix-years ()
"Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)
;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
  (let ((s (match-beginning 3))
   (p (make-marker))
   ;; Not line-beg-pos, so we don't mess up leading whitespace.
   (copiaftert (match-beginning 0))
   e last sep year prev-year first-year range-start range-end)
;; In case years are continued over multiple, commented lines.
(goto-char (match-end 1))
(copyright-find-end)
(setq e (copy-marker (1+ (match-end 3))))
(goto-char s)
(while (re-search-forward "\[0-9\]+" e t)
  (set-marker p (point))
  (goto-char (match-beginning 0))
  (setq year (string-to-number (match-string 0)))
  (and (setq sep (char-before))
    (/= (char-syntax sep) ?s)
    (/= sep ?-)
    (insert " ")
  (when (< year 100)
    (insert (if (>= year 50) "19" "20"))
    (setq year (+ year (if (>= year 50) 1900 2000)))))
  (goto-char p)
  (when copyright-year-ranges
    ;; If the previous thing was a range, don't try to tack more on.
    ;; TODO should merge into existing range if possible.
    (if (eq sep ?-)
      (setq prev-year nil
        year nil)
      (if (and prev-year (= year (1+ prev-year)))
        (setq range-end (point))
      (when (and first-year prev-year
          (> prev-year first-year))
        (goto-char range-end)
        (delete-region range-start range-end)
        (insert (format "-%d" prev-year))
        (goto-char p))
      (setq first-year year
        range-start (point))))
  (setq prev-year year
    last p))
  (when last
    (when (and copyright-year-ranges
        first-year prev-year
        (> prev-year first-year))
      (goto-char range-end)
      (delete-region range-start range-end)
      (insert (format "-%d" prev-year))
      (goto-char last))
    ;; Don't mess up whitespace after the years.
    (skip-chars-backward "\t")
    (save-restriction
      (narrow-to-region copystart (point))
      ;; This is clearly wrong, eg what about comment markers?
      (let ((fill-prefix "     "))
        ;; TODO do not break copyright owner over lines.
        (fill-region (point-min) (point-max)))))
  (set-marker e nil)
;;; Simply reformatting the years is not copyrightable, so it does
;;; not seem right to call this. Also it messes with ranges.
;;;(copyright-update nil t))
;(message "No copyright message"))

;;;###autoload
(define-skeleton copyright
"Insert a copyright by $ORGANIZATION notice at cursor."
"Company:"
comment-start
"Copyright (C) " `(format-time-string "%Y") " by "
(or (getenv "ORGANIZATION")
  str)
'(if (copyright-offset-too-large-p)
    (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")
  comment-end \n)

;;; TOD0: recurse, exclude COPYING etc.
;;;###autoload
(defun copyright-update-directory (directory match &optional fix)
"Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead."
(interactive "DDirectory: \nMFilenames matching (regexp): ")
(dolist (file (directory-files directory t match nil))
  (unless (file-directory-p file)
    (message "Updating file `%s'" file)
    ;; FIXME we should not use find-file+save+kill.
    (let ((enable-local-variables :safe)
          (enable-local-eval nil))
      (find-file file))
    (let ((inhibit-read-only t))
      (if fix
        (copyright-fix-years)
        (copyright-update)))
      (save-buffer)
      (kill-buffer (current-buffer)))))

(provide 'copyright)

;;; For the copyright sign:
;;; Local Variables:
;;; coding: utf-8
;;; End:

;;; copyright.el ends here

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@heading TERMS AND CONDITIONS

@enumerate 0
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to copy the Corresponding Source from a network server at no charge.
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@item
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@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it 
free software which everyone can redistribute and change under these 
terms.

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

@smallexample
# @218 Return non-nil if a copyright header suitable for updating is found.

The header must match 'copyright-regexp' and 'copyright-names-regexp', if set.

This function sets the match-data that 'copyright-update-year' uses.

# @175 Possibly adjust the search performed by 'copyright-find-copyright'.

If the years continue onto multiple lines that are marked as comments, skips to the end of all the years.

# @369 Update copyright notice to indicate the current year.

With prefix ARG, replace the years in the notice rather than adding the current year after them. If necessary, and 'copyright-current-gpl-version' is set, any copying permissions following the copyright are updated as well.

If non-nil, INTERACTIVEP tells the function to behave as when it's called interactively.

# @028 Convert 2 digit years to 4 digit years.

Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range.
(defalias 'copyright-fix-years #[nil "\306 \203 \307\224\310
\311\224\312\211\211\211\211\211\211\211\"#$%&\313\225b\210\314
\210\315\307\225T!#&b\210\316\317#\320#\203\331%`\312\223\210\311\224b\210\321\322\311!!`Sf\211\203f
z\323U\204f
\324U\204f\325c\210\f\326W\203\207\f\327Y\203v\330\202w\331c\210\f\211\327Y\203\204\332\202\205\333\\%b
\210'\203\320
\324=\203\235\312\211\202\320\203\255\fTU\203\255`\202\320\n\203\314\203\314\nV\203\314b\210
|\210\334\335\"c\210%b\210\f`\f%\"\2025\"\203'\203\376\n\203\376\203\376\nV\203\376b\210
|\210\334\335\"c\210\"b\210\336\312x\210\214$`}\210\337ed\"\210)#\312\211\223\210%\312\211\223.\207\340\34
1!\207" [range-end range-start first-year prev-year year sep copyright-find-copyright 3 make-marker 0 nil 1
copyright-find-end copy-marker re-search-forward "[0-9]+" t string-to-number match-string 32 45 " " 100 50 "19"
"20" 1900 2000 format "-%d" " " fill-region message "No copyright message" last e copystart p s copyright-yearranges] 12 (#$ . 7556) nil])
(put 'copyright 'no-self-insert t)
#@558 Insert a copyright by $ORGANIZATION notice at cursor.
This is a skeleton command (see `skeleton-insert').
Normally the skeleton text is inserted at point, with nothing "inside".
If there is a highlighted region, the skeleton text is wrapped
around the region text.
A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words---that is, nothing.
This is a way of overriding the use of a highlighted region.
(defalias 'copyright #[(&optional str arg) "\302\303#\207" [str arg skeleton-proxy-new ("Company: " comment-start
"Copyright (C) " `(format-time-string "%Y") " by " (or (getenv "ORGANIZATION") str) '(if (copyright-offset-toolarge-p) (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")) comment-end
n)] 4 (#$ . 8883) "*P\nP"])
#@122 Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead.
(defalias 'copyright-update-directory #[(directory match &optional fix) "\306\307
\310$\310\211\205E@\311\n!\204=\312\313\n\"\210\314\310\315\n!\210*\307\2032\316 \210\2025\317 \210)\320
\210\321p!\210A\211\204
\310*\207" [directory match file --dolist-tail-- enable-local-eval enable-local-variables directory-files t nil filedirectory-p message "Updating file `%s'" :safe find-file copyright-fix-years copyright-update save-buffer kill-buffer
inhibit-read-only fix] 6 (#$ . 9815) "DDirectory: \nMFilenames matching (regexp): "])
(provide 'copyright)

1.823 openssl-dev 1.1.1p-r0
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The End

1.824 @babel/plugin-transform-destructuring

7.18.6

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1.828 mergo 0.3.7

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.829 @babel/plugin-transform-dotall-regex

7.18.6

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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1.834 sqlite-jdbc 3.8.11.2

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1.839 wagon-provider-api 2.10

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port/cpl_minizip*

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gdal/alg/thinplatespline.cpp

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IEEE754 log() code derived from:
@(#)e_log.c 1.3 95/01/18

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gdal/alg/libqhull

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Only applies when GDAL is compiled with internal qhull support

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gdal/frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())

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gdal/frmts/mrf/* (apply when MRF driver included in build)

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Assignee: Esri.
Assignors/Inventors: Maurer, Thomas (Redlands, CA); Gao, Peng (Redlands, CA); Becker, Peter (Redlands, CA).

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  jar/org/powermock/core/spi/testresult/TestMethodResult.java
* /opt/ws_local/PERMITS_SQL/1024750273_1594212142.04/0/powermock-core-2-0-2-sources-
  jar/org/powermock/tests/utils/IgnorePackagesExtractor.java
* /opt/ws_local/PERMITS_SQL/1024750273_1594212142.04/0/powermock-core-2-0-2-sources-
  jar/org/powermock/core/spi/TestClassEntry.java
* /opt/ws_local/PERMITS_SQL/1024750273_1594212142.04/0/powermock-core-2-0-2-sources-
  jar/org/powermock/core/spi/ArrayMergerImpl.java
* /opt/ws_local/PERMITS_SQL/1024750273_1594212142.04/0/powermock-core-2-0-2-sources-
  jar/org/powermock/core/classloader/annotations/PowerMockIgnore.java
* /opt/ws_local/PERMITS_SQL/1024750273_1594212142.04/0/powermock-core-2-0-2-sources-
  jar/org/powermock/core/classloader/annotations/MockPolicy.java
* /opt/ws_local/PERMITS_SQL/1024750273_1594212142.04/0/powermock-core-2-0-2-sources-
  jar/org/powermock/core/testlisteners/FieldDefaulter.java
* /opt/ws_local/PERMITS_SQL/1024750273_1594212142.04/0/powermock-core-2-0-2-sources-
  jar/org/powermock/core/transformers/TransformStrategy.java
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  jar/org/powermock/core/IdentityHashSet.java
* /opt/ws_local/PERMITS_SQL/1024750273_1594212142.04/0/powermock-core-2-0-2-sources-
  jar/org/powermock/tests/utils/ArrayMerger.java
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1.861 rfkill 0.4

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1.862 kafka-raft 2.8.0

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1.863 @babel/helper-member-expression-to-functions 7.18.6

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1.864 libxtst 1.2.3-7.el8

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 */

header_type ethernet_t {
    fields {
        dstAddr : 48;
        srcAddr : 48;
        etherType : 16;
    }
}

header_type ipv4_t {
    fields {
        version : 4;
        ihl : 4;
    }
}
diffserv : 8;
totalLen : 16;
identification : 16;
flags : 3;
fragOffset : 13;
ttl : 8;
protocol : 8;
hdrChecksum : 16;
srcAddr : 32;
dstAddr : 32;
}
}

header_type ndp_t {
  fields {
    flags : 16;
    checksum : 16;
    sport : 32;
    dport : 32;
    seqpull : 32;
    pacerecho : 32;
  }
}

parser start {
  return parse_ethernet;
}

#define ETHERTYPE_IPV4 0x0800

header ethernet_t ethernet;

parser parse_ethernet {
  extract(ethernet);
  return select(latest.etherType) {
    ETHERTYPE_IPV4 : parse_ipv4;
    default: ingress;
  }
}

header ipv4_t ipv4;
header ndp_t ndp;

register buffersense {
  width:16;
  static : forward;
  instance_count : 4;
}
field_list ipv4_checksum_list {
    ipv4.version;
    ipv4.ihl;
    ipv4.diffserv;
    ipv4.totalLen;
    ipv4.identification;
    ipv4.flags;
    ipv4.fragOffset;
    ipv4.ttl;
    ipv4.protocol;
    ipv4.srcAddr;
    ipv4.dstAddr;
}

field_list_calculation ipv4_checksum {
    input {
        ipv4_checksum_list;
    }
    algorithm : csum16;
    output_width : 16;
}

calculated_field ipv4.hdrChecksum {
    verify ipv4_checksum;
    update ipv4_checksum;
}

calculated_field ipv4.hdrChecksum {
    verify ipv4_checksum;
    update ipv4_checksum;
}

parser parse_ipv4 {
    extract(ipv4);
    return select(latest.protocol) {
        199 : parse_ndp;
        default: ingress;
    }
}

parser parse_ndp {
    extract(ndp);
    return ingress;
}

action _drop() {
    drop();
}

header_type routing_metadata_t {
    fields {

nhop_ipv4 : 32;
}
}

header_type meta_t {
  fields {
    register_tmp : 16;
    ndpflags : 16;
  }
}

metadata meta_t meta;

metadata routing_metadata_t routing_metadata;

action set_nhop(nhop_ipv4, port) {
  modify_field(routing_metadata.nhop_ipv4, nhop_ipv4);
  modify_field(standard_metadata.egress_port, port);
  add_to_field(ipv4.ttl, -1);
}

table ipv4_lpm {
  reads {
    ipv4.dstAddr : lpm;
  }
  actions {
    set_nhop;
    _drop;
  }
  size: 1024;
}

action set_dmac(dmac) {
  modify_field(ethernet.dstAddr, dmac);
  register_read(meta.register_tmp, buffersense, standard_metadata.egress_port);
}

table forward {
  reads {
    routing_metadata.nhop_ipv4 : exact;
  }
  actions {
    set_dmac;
    _drop;
  }
  size: 512;
}

action rewrite_mac(smac) {
modify_field(ethernet.srcAddr, smac);
}

action decreasereg() {
  register_read(meta.register_tmp, buffersense, standard_metadata.egress_port);
  register_write(buffersense, standard_metadata.egress_port, meta.register_tmp-1 + standard_metadata.egress_priority);
}

action cont() {
}

table dec_counter {
  reads {
    meta.ndpflags: range;
  }
  actions {
    decreasereg;
    cont;
  }
  size: 2;
}

table send_frame {
  reads {
    standard_metadata.egress_port: exact;
  }
  actions {
    rewrite_mac;
    _drop;
  }
  size: 256;
}

action setpriolow() {
  modify_field(standard_metadata.egress_priority, 0);
  register_read(meta.register_tmp, buffersense, standard_metadata.egress_port);
  register_write(buffersense, standard_metadata.egress_port, meta.register_tmp+1);
}

action setpriohigh() {
  truncate(54);
  modify_field(ipv4.totalLen, 20);
  modify_field(standard_metadata.egress_priority, 1);
}

action directpriohigh() {
  modify_field(standard_metadata.egress_priority, 1);
  modify_field(meta.ndpflags, ndp.flags);
}
action readbuffer() {
    register_read(meta.register_tmp, buffersense, standard_metadata.egress_port);
}

table directtoprio {
    reads {
        meta.register_tmp : range;
    }
    actions{
        directpriohigh;
    }
    size:2;
}

table readbuffersense {
    reads {
        meta.register_tmp : range;
    }
    actions {
        readbuffer;
    }
    size:2;
}

table setprio {
    reads {
        meta.register_tmp : range;
    }
    actions {
        setpriolow;
        setpriohigh;
    }
    size:2;
}

control ingress {
    if(valid(ipv4) and ipv4.ttl > 0) {
        apply(ipv4_lpm);
        if (valid(ndp) and (ndp.flags > 1)) {
            apply(directtoprio);
        } else {
            apply(readbuffersense);
            apply(setprio);
        }
        apply(forward);
    }
control egress {
    apply(dec_counter);
    apply(send_frame);
}

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* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-ndp-router.p4
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#
nf0:eth2
nf1:eth3
nf2:
nf3:

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* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/ndp/test/connections/conn
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//
// File:
//  output_queues_regs_defines.txt
//
// Description:
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#define SUME OUTPUT_QUEUES ID OFFSET 0x0
#define SUME OUTPUT_QUEUES ID DEFAULT 0x0000DA03
#define SUME OUTPUT_QUEUES ID WIDTH 32
#define SUME OUTPUT_QUEUES VERSION OFFSET 0x4
#define SUME OUTPUT_QUEUES VERSION DEFAULT 0x1
#define SUME OUTPUT_QUEUES VERSION WIDTH 32
#define SUME OUTPUT_QUEUES RESET OFFSET 0x8
#define SUME OUTPUT_QUEUES RESET DEFAULT 0x0
#define SUME OUTPUT_QUEUES RESET WIDTH 16
#define SUME OUTPUT_QUEUES FLIP OFFSET 0xC
#define SUME OUTPUT_QUEUES FLIP DEFAULT 0x0
#define SUME OUTPUT_QUEUES FLIP WIDTH 32
#define SUME OUTPUT_QUEUES DEBUG OFFSET 0x10
#define SUME OUTPUT_QUEUES DEBUG DEFAULT 0x0
#define SUME OUTPUT_QUEUES DEBUG WIDTH 32
#define SUME OUTPUT_QUEUES PKTIN OFFSET 0x14
#define SUME OUTPUT_QUEUES PKTIN DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTIN WIDTH 32
#define SUME OUTPUT_QUEUES PKTOUT OFFSET 0x18
#define SUME OUTPUT_QUEUES PKTOUT DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTOUT WIDTH 32
#define SUME OUTPUT_QUEUES PKTSTOREDPORT0 OFFSET 0x1C
#define SUME OUTPUT_QUEUES PKTSTOREDPORT0 DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTSTOREDPORT0 WIDTH 32
#define SUME OUTPUT_QUEUES BYTESSTOREDPORT0 OFFSET 0x20
#define SUME OUTPUT_QUEUES BYTESSTOREDPORT0 DEFAULT 0x0
#define SUME OUTPUT_QUEUES BYTESSTOREDPORT0 WIDTH 32
#define SUME OUTPUT_QUEUES PKTREMOVEDPORT0 OFFSET 0x24
#define SUME OUTPUT_QUEUES PKTREMOVEDPORT0 DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTREMOVEDPORT0 WIDTH 32
#define SUME OUTPUT_QUEUES BYTESREMOVEDPORT0 OFFSET 0x28
#define SUME OUTPUT_QUEUES BYTESREMOVEDPORT0 DEFAULT 0x0
#define SUME OUTPUT_QUEUES BYTESREMOVEDPORT0 WIDTH 32
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT0 OFFSET 0x2C
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT0 DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT0 WIDTH 32
#define SUME OUTPUT_QUEUES BYTESDROPPEDPORT0 OFFSET 0x30
#define SUME OUTPUT_QUEUES BYTESDROPPEDPORT0 DEFAULT 0x0
#define SUME OUTPUT_QUEUES BYTESDROPPEDPORT0 WIDTH 32
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT0 OFFSET 0x34
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT0 DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT0 WIDTH 32
#define SUME OUTPUT_QUEUES PKTINQUEUEPORT0 OFFSET 0x38
#define SUME OUTPUT_QUEUES PKTINQUEUEPORT0 DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTINQUEUEPORT0 WIDTH 32
#define SUME OUTPUT_QUEUES BYTESREMOVEDPORT1 OFFSET 0x40
#define SUME OUTPUT_QUEUES BYTESREMOVEDPORT1 DEFAULT 0x0
#define SUME OUTPUT_QUEUES BYTESREMOVEDPORT1 WIDTH 32
#define SUME OUTPUT_QUEUES BYTESREMOVEDPORT1 OFFSET 0x44
#define SUME OUTPUT_QUEUES BYTESREMOVEDPORT1 DEFAULT 0x0
#define SUME OUTPUT_QUEUES BYTESREMOVEDPORT1 WIDTH 32
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT1 OFFSET 0x48
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT1 DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT1 WIDTH 32
#define SUME OUTPUT_QUEUES BYTESDROPPEDPORT1 OFFSET 0x4C
#define SUME OUTPUT_QUEUES BYTESDROPPEDPORT1 DEFAULT 0x0
#define SUME OUTPUT_QUEUES BYTESDROPPEDPORT1 WIDTH 32
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT1 OFFSET 0x50
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT1 DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT1 WIDTH 32
#define SUME OUTPUT_QUEUES PKTSTOREDPORT1 OFFSET 0x54
#define SUME OUTPUT_QUEUES PKTSTOREDPORT1 DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTSTOREDPORT1 WIDTH 32
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT1 OFFSET 0x58
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT1 DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT1 WIDTH 32
#define SUME OUTPUT_QUEUES PKTINQUEUEPORT1 OFFSET 0x60
#define SUME OUTPUT_QUEUES PKTINQUEUEPORT1 DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTINQUEUEPORT1 WIDTH 32
#define SUME OUTPUT_QUEUES PKTSTOREDPORT2 OFFSET 0x64
#define SUME OUTPUT_QUEUES PKTSTOREDPORT2 DEFAULT 0x0
#define SUME OUTPUT_QUEUES PKTSTOREDPORT2 WIDTH 32
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT2 OFFSET 0x68
#define SUME OUTPUT_QUEUES PKTDROPPEDPORT2 DEFAULT 0x0
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#
# File:
#   SDKproj.xml
#
# Project:
#   reference project
#
# Author:
#   Tinghui Wang (Steve)
#
# Description:
#   compiles a project
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* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master.switch/netfpga/ndp_modules/nf_ndp_output_queues_v1_0_0/data/output_queues_regsdefines.txt

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#
# File:
#   nf_sume_10g.xdc
#
# Author: Noa Zilberman
#
# Description:
#   Location constraints for 4x 10GbE SFP+ interface used in reference
#  projects.
#
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#
# XGE-SFP0 -- SUME -- THE FIRST INTERFACE FROM THE TOP OF THE BOARD

set_property PACKAGE_PIN M18 [get_ports sfp0_tx_disable]
set_property IOSTANDARD LVCMOS15 [get_ports sfp0_tx_disable]
set_property PACKAGE_PIN M19 [get_ports sfp0_tx_fault]
set_property IOSTANDARD LVCMOS15 [get_ports sfp0_tx_fault]
set_property PACKAGE_PIN N18 [get_ports sfp0_tx_abs]
set_property IOSTANDARD LVCMOS15 [get_ports sfp0_tx_abs]

set_property IOSTANDARD LVCMOS15 [get_ports sfp0_tx_abs]
set_property LOC GTHE2_CHANNEL_X1Y39 [get_cells -hier -filter name=~*interface_0*gthe2_i]

# XGE-SFP1 -- SUME

set_property PACKAGE_PIN B31 [get_ports sfp1_tx_disable]
set_property IOSTANDARD LVCMOS15 [get_ports sfp1_tx_disable]
set_property PACKAGE_PIN C26 [get_ports sfp1_tx_fault]
set_property IOSTANDARD LVCMOS15 [get_ports sfp1_tx_fault]
set_property PACKAGE_PIN L19 [get_ports sfp1_tx_abs]
set_property IOSTANDARD LVCMOS15 [get_ports sfp1_tx_abs]
set_property LOC GTHE2_CHANNEL_X1Y38 [get_cells -hier -filter name=*=interface_1*gt2_i]
#set_property LOC GTHE2_CHANNEL_X1Y38 [get_cells
nf_10g_interface_1/inst/nf_10g_interface_block_i/axi_10g_ethernet_i/inst/ten_gig_eth_pcs_pma/inst/gt0_gtwizard_10gbaser_multi_gt_i/gt0_gtwizard_gth_10gbaser_i/gt2_i]

# XGE-SFP2 -- SUME

set_property PACKAGE_PIN J38 [get_ports sfp2_tx_disable]
set_property IOSTANDARD LVCMOS15 [get_ports sfp2_tx_disable]
set_property PACKAGE_PIN E39 [get_ports sfp2_tx_fault]
set_property IOSTANDARD LVCMOS15 [get_ports sfp2_tx_fault]
set_property PACKAGE_PIN J37 [get_ports sfp2_tx_abs]
set_property IOSTANDARD LVCMOS15 [get_ports sfp2_tx_abs]

set_property LOC GTHE2_CHANNEL_X1Y37 [get_cells -hier -filter name=*=interface_2*gt2_i]

# XGE-SFP3 -- SUME -- FIRST FROM THE BOTTOM (to PCIe)

set_property PACKAGE_PIN L21 [get_ports sfp3_tx_disable]
set_property IOSTANDARD LVCMOS15 [get_ports sfp3_tx_disable]
set_property PACKAGE_PIN H36 [get_ports sfp3_tx_abs]
set_property IOSTANDARD LVCMOS15 [get_ports sfp3_tx_abs]

set_property LOC GTHE2_CHANNEL_X1Y36 [get_cells -hier -filter name=*=interface_3*gt2_i]
#set_property LOC GTHE2_CHANNEL_X1Y36 [get_cells
nf_10g_interface_3/inst/nf_10g_interface_block_i/axi_10g_ethernet_i/inst/ten_gig_eth_pcs_pma/inst/gt0_gtwizard_10gbaser_multi_gt_i/gt0_gtwizard_gth_10gbaser_i/gt2_i]

### -- SFP clocks
### -- The clock is supplied by Si5324 chip;
### -- the clock is configured through microblaze.
set_property PACKAGE_PIN E10 [get_ports xphy_refclk_p]
set_property PACKAGE_PIN E9 [get_ports xphy_refclk_n]
create_clock -period 6.400 [get_ports xphy_refclk_p]

#create_clock -period 6.400 -name xgemac_clk_156 [get_ports xphy_refclk_p]

# XGE TX/RX LEDs
# GRN - TX
# YLW - RX
set_property PACKAGE_PIN G13 [get_ports sf0_tx_led]
set_property PACKAGE_PIN AL22 [get_ports sf1_tx_led]
set_property PACKAGE_PIN AY18 [get_ports sf2_tx_led]
set_property PACKAGE_PIN P31 [get_ports sf3_tx_led]
set_property PACKAGE_PIN L15 [get_ports sfp0_rx_led]
set_property PACKAGE_PIN BA20 [get_ports sfp1_rx_led]
set_property PACKAGE_PIN AY17 [get_ports sfp2_rx_led]
set_property PACKAGE_PIN K32 [get_ports sfp3_rx_led]

set_property IOSTANDARD LVCMOS15 [get_ports sfp?_?x_led]

#set_property CLOCKDEDICATED_ROUTE FALSE [get_nets nf_10g_shared_i/in/refclk]

## Timing Constraints
create_clock -period 3.103 [get_pins -hier -filter name=~*interface_0*gthe2_i/RXOUTCLK]
create_clock -period 3.103 [get_pins -hier -filter name=~*interface_0*gthe2_i/TXOUTCLK]
create_clock -period 3.103 [get_pins -hier -filter name=~*interface_1*gthe2_i/RXOUTCLK]
create_clock -period 3.103 [get_pins -hier -filter name=~*interface_1*gthe2_i/TXOUTCLK]
create_clock -period 3.103 [get_pins -hier -filter name=~*interface_2*gthe2_i/RXOUTCLK]
create_clock -period 3.103 [get_pins -hier -filter name=~*interface_2*gthe2_i/TXOUTCLK]
create_clock -period 3.103 [get_pins -hier -filter name=~*interface_3*gthe2_i/RXOUTCLK]
create_clock -period 3.103 [get_pins -hier -filter name=~*interface_3*gthe2_i/TXOUTCLK]

## Timing Constraints

#################################
## Other constraints
set_false_path -from [get_clocks xphy_refclk_p] -to [get_clocks clk_200]
set_false_path -from [get_clocks clk_200] -to [get_clocks xphy_refclk_p]
set_false_path -from [get_clocks clk_250mhz_mux_x0y1] -to [get_clocks clk_125mhz_x0y1]
set_false_path -from [get_clocks clk_125mhz_x0y1] -to [get_clocks clk_250mhz_mux_x0y1]
set_false_path -from [get_clocks userclk1] -to [get_clocks clk_200]
set_false_path -from [get_clocks clk_200] -to [get_clocks userclk1]
set_false_path -from [get_clocks userclk1] -to [get_clocks sys_clk]
set_false_path -from [get_clocks sys_clk] -to [get_clocks userclk1]
set_false_path -from [get_clocks userclk1] -to [get_clocks axi_clk]
set_false_path -from [get_clocks axi_clk] -to [get_clocks userclk1]
set_false_path -from [get_clocks userclk1] -to [get_clocks xphy_refclk_p]
set_false_path -from [get_clocks xphy_refclk_p] -to [get_clocks userclk1]
set_false_path -from [get_clocks -filter name=~*interface_*gthe2_i/RXOUTCLK] -to [get_clocks xphy_refclk_p]
set_false_path -from [get_clocks xphy_refclk_p] -to [get_clocks -filter name=~*interface_*gthe2_i/RXOUTCLK]
set_false_path -from [get_clocks -filter name=~*interface_*gthe2_i/TXOUTCLK] -to [get_clocks xphy_refclk_p]  
set_false_path -from [get_clocks xphy_refclk_p] -to [get_clocks -filter name=~*interface_*gthe2_i/TXOUTCLK]

Found in path(s):
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/ndp/hw/constraints/nf_sume_10g.xdc
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* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/switch_ndp_output_port_lookup_v1_0_0/hdl/mac_cam_lut.v
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#
# File:
#     nf_sume_general.xdc
#
# Author:
#     Tinghui Wang (Steve)
# Modified by:
#     Noa Zilberman
#
# Description:
# System general constraints for NetFPGA-SUME board.
# The file includes constraints for:
# - Master FPGA 200MHz clock (fpga_sysclk)
# - Main I2C Bus (iic_fpga, si5324_rst_n)
# - UART (115200-8N1)
# - Btn0 is used as system sys_reset_n (active high)
#
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#
## -- The following two properties should be set for every design
set_property CFGBVS GND [current_design]
set_property CONFIG_VOLTAGE 1.8 [current_design]

## -- PCIe Transceiver clock (100 MHz)
set_property LOC IBUFDS_GTE2_X1Y11 [get_cells IBUFDS_GTE2_inst]
create_clock -period 10.000 -name sys_clk -add [get_pins -hier -filter name=~*IBUFDS_GTE2_inst/O]
create_clock -period 10.000 -name sys_clkp -waveform {0.000 5.000} [get_ports sys_clkp]

## -- PCIe sys reset
set_property PACKAGE_PIN AY35 [get_ports sys_reset_n]
set_property IOSTANDARD LVCMOS18 [get_ports sys_reset_n]
set_property PULLUP true [get_ports sys_reset_n]
set_false_path -from [get_ports sys_reset_n]

# 200MHz System Clock -- SUME
set_property PACKAGE_PIN H19 [get_ports fpga_sysclk_p]
set_property VCCAUX_IO DONTCARE [get_ports fpga_sysclk_p]
set_property IOSTANDARD LVDS [get_ports fpga_sysclk_p]
set_property IOSTANDARD LVDS [get_ports fpga_sysclk_n]

#create_clock -period 5.00 [get_ports {axi_clocking_i/s_axi_aclk}]
create_clock -period 5.000 -name fpga_sysclk_p -waveform {0.000 2.500} [get_ports fpga_sysclk_p]

## -- 200MHz & 100MHz clks
create_clock -period 5.000 -name clk_200 -add [get_pins -hier -filter name=~*axi_clocking_i/clk_wiz_i/clk_out1]
create_clock -period 10.000 -name axi_clk -add [get_pins -hier -filter name=~*axi_lite_bufg0/O]

# Main I2C Bus - 100kHz - SUME
set_property IOSTANDARD LVCMOS18 [get_ports i2c_clk]
set_property SLEW SLOW [get_ports i2c_clk]
set_property DRIVE 16 [get_ports i2c_clk]
set_property PULLUP true [get_ports i2c_clk]
set_property PACKAGE_PIN AK24 [get_ports i2c_clk]

set_property IOSTANDARD LVCMOS18 [get_ports i2c_data]
set_property SLEW SLOW [get_ports i2c_data]
set_property DRIVE 16 [get_ports i2c_data]
set_property PULLUP true [get_ports i2c_data]
set_property PACKAGE_PIN AK25 [get_ports i2c_data]

# i2c_reset[0] - i2c_mux reset - high active
# i2c_reset[1] - si5324 reset - high active
set_property SLEW SLOW [get_ports {i2c_reset[*]}]
set_property DRIVE 16 [get_ports {i2c_reset[*]}]
set_property PACKAGE_PIN AM39 [get_ports {i2c_reset[0]}]
set_property IOSTANDARD LVCMOS15 [get_ports {i2c_reset[0]}]
set_property PACKAGE_PIN BA29 [get_ports {i2c_reset[1]}]
set_property IOSTANDARD LVCMOS18 [get_ports {i2c_reset[1]}]

## -- USER LEDS
set_property PACKAGE_PIN AR22 [get_ports {leds[0]}]
set_property PACKAGE_PIN AR23 [get_ports {leds[1]}]
set_property IOSTANDARD LVCMOS15 [get_ports {leds[0]}]
set_property IOSTANDARD LVCMOS15 [get_ports {leds[1]}]

set_false_path -to [get_ports -filter NAME=-led*]

# UART - 115200 8-1 no parity
set_property PACKAGE_PIN AY19 [get_ports uart_rxd]
set_property PACKAGE_PIN BA19 [get_ports uart_txd]
set_property IOSTANDARD LVCMOS15 [get_ports uart_rxd]
set_property IOSTANDARD LVCMOS15 [get_ports uart_txd]

#False paths
set_property CLOCK_DEDICATED_ROUTE FALSE [get_nets
{control_sub_i/dma_sub/pcie3_7x_1/inst/gt_top_i/pipe_wrapper_i/pipe_lane[0].gt_wrapper_i/pipeoutclk}]

# Bitfile Generation
set_property BITSTREAM.GENERAL.COMPRESS TRUE [current_design]

set_false_path -from [get_clocks sys_clk] -to [get_clocks clk_200]
set_false_path -from [get_clocks axi_clk] -to [get_clocks clk_200]
set_false_path -from [get_clocks clk_200] -to [get_clocks axi clk]

Found in path(s):
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/ndp/hw/constraints/nf_sume_general.xdc
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master/switch/netfpga/ndp_modules/switch_ndp_output_port_lookup_v1_0_0/hdl/eth_parser.v
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* *
* File:
*   sw/embedded/src/iic_pm.c
* *
* Project:
*   Reference project
* *
* Author:
*   Tinghui Wang (Steve)
* *
* Description:
*   Iic codes to read power information about NetFPGA-SUME boards through
*   PMBus.
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*
* File:
  sw/embedded/src/helloworld.c
*
* Project:
  Reference project
*
* Author:
  Tinghui Wang (Steve)
*
* Description:
  Reference project main function.
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* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/nf_ndp_v1_0_0/hdl/bridge.v
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/nf_ndp_output_queues_v1_0_0/data/output_queues_regs_defines.h
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/switch_ndp_output_port_lookup_v1_0_0/ hd1/output_port_lookup_cpu_regs_defines.v
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/switch Nd p_output_port_lookup_v1_0_0/ hd1/output_port_lookup_cpu_regs.v
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/input_drr_arbiter_v1_0_0/hdl/input_drr_arbiter.v
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/ndp/hw/hdl/top_tb.v
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/switch_ndp_output_port_lookup_v1_0_0/ hd1/switch Nd p_output_port_lookup.v
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* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/switch_ndp_output_port_lookup_v1_0_0/ hd1/output_port_lookup_cpu_regs.v
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/nf_ndp_output_queues_v1_0_0/hdl/output_queues_cpu_regs.v
/* */

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#define SUME_OUTPUT_PORT_LOOKUP ID OFFSET 0x0
#define SUME_OUTPUT_PORT_LOOKUP ID DEFAULT 0x0001DA02
#define SUME_OUTPUT_PORT_LOOKUP ID WIDTH 32
#define SUME_OUTPUT_PORT_LOOKUP VERSION OFFSET 0x4
#define SUME_OUTPUT_PORT_LOOKUP VERSION DEFAULT 0x1
#define SUME_OUTPUT_PORT_LOOKUP VERSION WIDTH 32
#define SUME_OUTPUT_PORT_LOOKUP RESET OFFSET 0x8
#define SUME_OUTPUT_PORT_LOOKUP RESET DEFAULT 0x0
#define SUME_OUTPUT_PORT_LOOKUP RESET WIDTH 16
#define SUME_OUTPUT_PORT_LOOKUP FLIP OFFSET 0xC
#define SUME_OUTPUT_PORT_LOOKUP FLIP DEFAULT 0x0
#define SUME_OUTPUT_PORT_LOOKUP FLIP WIDTH 32
#define SUME_OUTPUT_PORT_LOOKUP DEBUG OFFSET 0x10
#define SUME_OUTPUT_PORT_LOOKUP DEBUG DEFAULT 0x0
#define SUME_OUTPUT_PORT_LOOKUP DEBUG WIDTH 32
#define SUME_OUTPUT_PORT_LOOKUP PKTIN OFFSET 0x14
#define SUME_OUTPUT_PORT_LOOKUP PKTIN DEFAULT 0x0
#define SUME_OUTPUT_PORT_LOOKUP PKTIN WIDTH 32
#define SUME_OUTPUT_PORT_LOOKUP PKTOUT OFFSET 0x18
#define SUME_OUTPUT_PORT_LOOKUP PKTOUT DEFAULT 0x0
#define SUME_OUTPUT_PORT_LOOKUP PKTOUT WIDTH 32
#define SUME_OUTPUT_PORT_LOOKUP LUTHIT OFFSET 0x1C
#define SUME_OUTPUT_PORT_LOOKUP LUTHIT DEFAULT 0x0
#define SUME_OUTPUT_PORT_LOOKUP LUTHIT WIDTH 32
#define SUME_OUTPUT_PORT_LOOKUP LUTMISS OFFSET 0x20
#define SUME_OUTPUT_PORT_LOOKUP LUTMISS DEFAULT 0x0
#define SUME_OUTPUT_PORT_LOOKUP LUTMISS WIDTH 32

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* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/switch_ndp_output_port_lookup_v1_0_0/data/output_port_lookup_regs_define.s.txt
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* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/nf_ndp_v1_0_0/ndp.tcl
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* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/nf_ndp_output_queues_v1_0_0/data/output_queues_regs_defines.tcl
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-zip/NDP-master/switch/netfpga/ndp_modules/ndp_modules/ndp/hw/tcl/download.tcl
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* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-switch/netfpga/ndp_modules/ndp/sw/embedded/Makefile
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-switch/netfpga/ndp_modules/ndp/hw/tcl/ndp_sim.tcl
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-switch/netfpga/ndp_modules/switch_ndp_output_port_lookup_v1_0_0/Makefile
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-switch/netfpga/ndp_modules/switch_ndp_output_port_lookup_v1_0_0/switch_ndp_output_port_lookup.tcl
* /opt/cola/permits/1242747342_1645599321.43/0/ndp-master-switch/netfpga/ndp_modules/ndp/hw/tcl/control_sub_sim.tcl

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 * File:
 * sw/embedded/src/iic_config.c
 * Project:
 * Reference project
 * Author:
 * Tinghui Wang (Steve)
 * Description:
 * Read/Write functions with timeout ability for IIC communication used by
 * acceptance_test project.
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* File:
  * sw/embedded/src/iic_config.h

* Project:
  * Reference project

* Author:
  * Tinghui Wang (Steve)

* Description:
  * Iic related definition used by Iic communication with NetFPGA-SUME board

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 * File: rwaxi.c
 * $Id: rwaxi.c,v 1.3 2015/06/24 22:52:20 root Exp root$
 * Author: Bjoern A. Zeeb
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//
// File:
//     input_drr_arbiter_regs_defines.txt
//
// Description:
//     This file is automatically generated with header defines for the software
//
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// under National Science Foundation under Grant No. CNS-0855268,
// the University of Cambridge Computer Laboratory under EPSRC INTERNET Project EP/H040536/1 and
// by the University of Cambridge Computer Laboratory under DARPA/AFRL contract FA8750-11-C-0249
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//
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//
#define SUME INPUT_DRR_ARBITER ID OFFSET 0x0
#define SUME INPUT_DRR_ARBITER ID DEFAULT 0x0000DA01
#define SUME INPUT_DRR_ARBITER ID WIDTH 32
#define SUME INPUT_DRR_ARBITER VERSION OFFSET 0x4
#define SUME INPUT_DRR_ARBITER VERSION DEFAULT 0x1
#define SUME INPUT_DRR_ARBITER VERSION WIDTH 32
#define SUME INPUT_DRR_ARBITER RESET OFFSET 0x8
#define SUME INPUT_DRR_ARBITER RESET DEFAULT 0x0
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/* File:
   * sw/.../iic_si5324.c
*/

/* Project:
 * Reference project
*/

/* Author:
 * Tinghui Wang (Steve)
*/

/* Description:
 * IIC configuration to generate 156.25MHz clocks from SI5324
*/

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### 1.868 pgpass 1.0.5

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Found in path(s):

* `/opt/cola/permits/1246174436_1650267676.26/0/pgpass-1-0-5-zip/pgpass-1.0.5/README.md`

### 1.869 buffer 5.7.1

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* /opt/cola/permits/1113059461_1607376775.25/0/plexus-classworlds-2-2-3-sources-1-
jar/org/codehaus/plexus/classworlds/strategy/ParentFirstStrategy.java
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* /opt/cola/permits/1113059461_1607376775.25/0/plexus-classworlds-2-2-3-sources-1.jar/org/codehaus/plexus/classworlds/realm/DuplicateRealmException.java
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1.887 jgroups 4.0.19.Final

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* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/internal/matcherstrategies/FieldAnnotationMatcherStrategy.java
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/internal/primitivesupport/PrimitiveWrapper.java
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/internal/matcherstrategies/AllFieldsMatcherStrategy.java
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/exceptions/TooManyConstructorsFoundException.java
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/internal/matcherstrategies/FieldMatcherStrategy.java
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/exceptions/TooManyFieldsFoundException.java
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/internal/matcherstrategies/AssignableFromFieldTypeMatcherStrategy.java
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/internal/matcherstrategies/FieldTypeMatcherStrategy.java
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/WhiteboxImpl.java

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Found in path(s):
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/internal/comparator/ComparatorFactory.java
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/internal/CandidateConstructorSearcher.java
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/internal/ParameterTypesMatcher.java
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Found in path(s):
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-jar/org/powermock/reflect/internal/primitivesupport/BoxedWrapper.java
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Found in path(s):
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-
  jar/org/powermock/reflect/internal/matcherstrategies/AssignableToFieldTypeMatcherStrategy.java
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-
  jar/org/powermock/reflect/internal/TypeUtils.java

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Found in path(s):
* /opt/cola/permits/1139554096_1614660448.01/0/powermock-reflect-2-0-2-sources-1-
  jar/org/powermock/reflect/matching/FieldMatchingStrategy.java

1.891 jul-to-slf4j 1.7.25

1.892 wso2-carbon-analytics-shared-data-agents-log4j 1.0.4

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1.893 pyasn1-modules 0.2.1
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1.894 mime-db 1.35.0
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1.895 tar 4.4.19

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1.896 kotlin 1.4.10

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"version":3,"file":"kotlin.js","sources":[]"wrapper.js","arrayUtils.js","callableReferenceUtils.js","conversions.js","core.js","long.js","markerFunctions.js","misc.js","polyfills.js","rtti.js","runtime/arrayUtils.kt","runtime/Enum.kt","primitive CompanionObjects.kt","generated/_Arrays.kt","generated/_Ranges.kt","kotlin/UByte.kt","kotlin/UInt.kt","kotlin/UShort.kt","ranges.kt","collections/ Collections.kt","collections/Maps.kt","collections/ Sets.kt","text/StringNumberConversions.kt","kotlin/UnsignedUtils.kt","collections/Iterables.kt","collections/Squences.kt","util/ Preconditions.kt","generated/_ArraysJs.kt","comparisons/ Comparisons.kt","util/Standard.kt","generated/_ComparisonsJs.kt","kotlin/Ulong.kt","generated/_Collections.kt","kotlin/ collections.kt","collections/Iterators.kt","generated/_Comparisons.kt","generated/_Maps.kt","generated/_ Sequences.kt","generated/_Sets.kt","generated/_Strings.kt","text/Strings.kt","kotlin/text/string.kt","kotlin/UByteArray.kt","kotlin/UIntArray.kt","kotlin/ULongArray.kt","kotlin/UShortArray.kt","generated/_UArrays.kt","generated/_UCollections.kt","generated/_UComparisons.kt","generated/_URanges.kt","generated/_USequences.kt","kotlin/ExceptionsH.kt","kotlin/JsAnnotationsH.kt","Collections.kt","Iterators.kt","Progression Iterators.kt","Progressions.kt","Range.kt","Unit.kt","annotation/Annotations.kt","internal/InternalAnnotations.kt"}
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```
(function (root, factory) {
    if (typeof define === 'function' && define.amd) {
        define('kotlin', ['exports'], factory);
    }
    else if (typeof exports === 'object') {
        factory(module.exports);
    }
    else {
        root.kotlin = {};
        factory(root.kotlin);
    }
}(this,
function (Kotlin) {
    var _ = Kotlin;

    insertContent();
}));
```

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```javascript
Kotlin.isBooleanArray = function (a) {
    return Array.isArray(a) && a.$type$ == "BooleanArray"
};

Kotlin.isByteArray = function (a) {
    return a instanceof Int8Array && a.$type$ !== "BooleanArray"
};

Kotlin.isShortArray = function (a) {
    return a instanceof Int16Array
};

Kotlin.isCharArray = function (a) {
    return a instanceof Uint16Array && a.$type$ === "CharArray"
};

Kotlin.isIntArray = function (a) {
    return a instanceof Int32Array
};

Kotlin.isFloatArray = function (a) {
    return a instanceof Float32Array
};

Kotlin.isDoubleArray = function (a) {
    return a instanceof Float64Array
};

Kotlin.isArray = function (a) {
    return Array.isArray(a) && !a.$type$
};

Kotlin.isArrayish = function (a) {
    return Array.isArray(a) || ArrayBuffer.isView(a)
};

Kotlin.arrayToString = function (a) {
    if (a === null) return "null"
    var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;
    return "[" + Array.prototype.map.call(a, function (e) { return toString(e); }).join(", ") + "]"
};

Kotlin.arrayDeepToString = function (arr) {
    return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);
};

Kotlin.arrayEquals = function (a, b) {
    if (a === b) {
        return true;
    }
    if (a === null || b === null || !Kotlin.isArrayish(b) || a.length !== b.length) {
        return false;
    }

    for (var i = 0, n = a.length; i < n; i++) {
        if (!Kotlin.equals(a[i], b[i])) {
            return false;
        }
    }
    return true;
};

Kotlin.arrayDeepEquals = function (a, b) {
    return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);
};

Kotlin.arrayHashCode = function (arr) {
    if (arr === null) return 0
    var result = 1;
    for (var i = 0, n = arr.length; i < n; i++) {
        result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;
    }
    return result;
};

Kotlin.arrayDeepHashCode = function (arr) {
    return Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);
};

Kotlin.primitiveArraySort = function (array) {
    array.sort(Kotlin.doubleCompareTo)
};

Kotlin.toShort = function (a) {
    return (a & 0xFFFF) << 16 >>

Kotlin.toByte = function (a) {
    return (a & 0xFF) << 24 >> 24;
};

Kotlin.toChar = function (a) {
    return a & 0xFFFF;
};

Kotlin.numberToLong = function (a) {
    return a instanceof Kotlin.Long ? a : Kotlin.Long.fromNumber(a);
};

Kotlin.numberToInt = function (a) {
    return a instanceof Kotlin.Long ? a.toInt() : Kotlin.doubleToInt(a);
};

Kotlin.numberToShort = function (a) {
    return Kotlin.toShort(Kotlin.numberToInt(a));
};

Kotlin.numberToByte = function (a) {
    return Kotlin.toShort(Kotlin.numberToInt(a));
};

Kotlin.numberToChar = function (a) {
    return Kotlin.toByte(Kotlin.numberToInt(a));
};

Kotlin.numberToDouble = function (a) {
    return +a;
};
```

---

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2147483647; \n if (a < -2147483648) return -2147483648;
 return a;
\n\n2147483647;
 if (a == null) return a;
 if (a instanceof Kotlin.BoxedChar) return a;
 return new Kotlin.BoxedChar(a);

Kotlin.toBoxedChar = function (a) {
    if (a == null) return a;
    if (a instanceof Kotlin.BoxedChar) return a;
    return new Kotlin.BoxedChar(a);
};

Kotlin.unboxChar = function (a) {
    if (a == null) return a;
    return Kotlin.toChar(a);
};

Kotlin.equals = function (obj1, obj2) {
    if (obj1 == null) {
        return obj2 == null;
    }
    if (obj2 == null) {
        return false;
    }
    if (obj1 !== obj1) {
        return obj2 !== obj2;
    }
    if (typeof obj1 === "object" && typeof obj1.equals === "function") {
        return obj1.equals(obj2);
    }
    if (typeof obj1 === "number" && typeof obj2 === "number") {
        return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2);
    }
    return obj1.valueOf() == obj2.valueOf();
};

Kotlin.hashCode = function (obj) {
    if (obj == null) {
        return 0;
    }
    var objType = typeof obj;
    if ("object" === objType) {
        return "function" === obj.equals ? obj.equals() : Kotlin.hashCode(obj);
    }
    if ("function" === objType) {
        return getSizeHashCode(obj);
    }
    if ("number" === objType) {
        return Kotlin.numberHashCode(obj);
    }
    if ("boolean" === objType) {
        return Number(obj);
    }
    var str = String(obj);
    return getSizeHashCode(str);
};

/**
 * Constructs a 64-bit two's-complement integer,
 * given its low and high 32-bit
 * values as *signed* integers.  See the from* functions below for more
 * convenient ways of constructing Longs.
 *
 * The internal representation of a long is the two given signed, 32-bit
 * values.
 * We use 32-bit pieces because these are the size of integers on which
 * Javascript performs bit-
 * operations.  For operations like addition and
 * multiplication, we split each number into 16-bit pieces, which can
 * easily be * multiplied within Javascript's floating-point representation without overflow
 * or change in sign.
 * In the algorithms below, we frequently reduce the negative case to the
 * positive case by negating the
 * input(s) and then post-processing the result.
 * Note that we must ALWAYS check specially whether those values
 * are MIN_VALUE
 * because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as
 * a positive number, it overflows back into a negative).
 * Not handling this case would often result in infinite
 * recursion.
 * Constructs a 64-bit two's-complement
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 * Note that we must ALWAYS check specially whether those values
 * are MIN_VALUE
 * because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as
 * a positive number, it overflows back into a negative).
 * Not handling this case would often result in infinite
 * recursion.
 * Constructs a 64-bit two's-complement
 * integer, given its low and high 32-bit * values as *signed* integers.  See the from* functions below for more
 * convenient ways of constructing Longs.
 * The internal representation of a long is the two given signed, 32-bit
 * values.
 * We use 32-bit pieces because these are the size of integers on which
 * Javascript performs bit-
 * operations.  For operations like addition and
 * multiplication, we split each number into 16-bit pieces, which can
 * easily be * multiplied within Javascript's floating-point representation without overflow
 * or change in sign.
 * In the algorithms below, we frequently reduce the negative case to the
 * positive case by negating the
 * input(s) and then post-processing the result.
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 * Javascript performs bit-
 * operations.  For operations like addition and
 * multiplication, we split each number into 16-bit pieces, which can
 * easily be * multiplied within Javascript's floating-point representation without overflow
 * or change in sign.
/**
 * Returns a Long representing the given (32-bit) integer value.
 * @param {number} value The 32-bit integer in question.
 * @return {Kotlin.Long} The corresponding Long value.
 * @anKotlin.Long.fromInt = function(value) {
 *  if (-128 <= value && value < 128) {
 *    var cachedObj = Kotlin.Long.IntCache_[value];
 *    if (cachedObj) {
 *      return cachedObj;
 *    }
 *  }
 *  var obj = new Kotlin.Long(value); 
 *  return obj;
 *}
 */

Kotlin.Long.fromInt = function(value) {
  if (-128 <= value && value < 128) {
    var cachedObj = Kotlin.Long.IntCache_[value];
    if (cachedObj) {
      return cachedObj;
    }
  }

type {number}

Kotlin.Long.ZERO;
} else if (value <= -
Kotlin.Long.TWO_PWR_63_DBL_) {
  return Kotlin.Long.ZERO;
} else if (value + 1 >=
Kotlin.Long.TWO_PWR_63_DBL_) {
  return Kotlin.Long.MAX_VALUE;
} else if (value < 0) {
  return Kotlin.Long.ZERO;
}

Kotlin.Long.fromNumber = function(value) {
  if (isNaN(value)) {
    return Kotlin.Long.ZERO;
  } else if (value <= -
Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MIN_VALUE;
  } else if (value + 1 >=
Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MAX_VALUE;
  } else if (value < 0) {
    return Kotlin.Long.ZERO;
}

Kotlin.Long.fromBits = function(lowBits, highBits) {
  return new Kotlin.Long(lowBits, highBits);
}

Kotlin.Long.fromString = function(str, opt_radix) {
  if (str.length == 0) {
    throw Error('number format error: empty string');
  }

  var radix = opt_radix || 10;
  if (radix < 2 || 36 < radix) {
    throw Error('radix out of range: ' + radix);
  }

  if (str.charAt(0) == '-') {
    return Kotlin.Long.fromString(str.substring(1), radix).negate();
  } else if (str.indexOf('-') >= 0) {
    throw Error('number format error: interior "-" character: ' + str);
  }

  // Do several (8) digits each time through the loop, so as to
  // minimize the calls to the very expensive emulated div.
  var radixToPower = Kotlin.Long.TWO_PWR_16_DBL_;

  var result = Kotlin.Long.ZERO;
  for (var i = 0; i < str.length; i += 8) {
    var size = Math.min(8, str.length - i);
    var value = parseInt(str.substring(i, i + size), radix);
    if (size < 8) {
      var power = Kotlin.Long.TWO_PWR_24_DBL_; 
      result = result.multiply(power).add(Kotlin.Long.fromNumber(value));
    } else {
      result = result.multiply(radixToPower);
      result = result.add(Kotlin.Long.fromNumber(value));
    }
  }

  return result;
}

// NOTE: the compiler should inline these constant values below and then remove
// these variables, so there should be no runtime penalty for these.

Kotlin.Long.ZERO = Kotlin.Long.fromInt(0);

Kotlin.Long.ONE = Kotlin.Long.fromInt(1);

Kotlin.Long.NEG_ONE = Kotlin.Long.fromInt(-1);

Kotlin.Long.MAX_VALUE =
Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);

Kotlin.Long.MIN_VALUE =
Kotlin.Long.fromBits(0x00000000 | 0, 0x00000000 | 0);

Kotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;

Kotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;

Kotlin.Long.TWO_PWR_32_DBL_ =
Kotlin.Long.TWO_PWR_16_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;

Kotlin.Long.TWO_PWR_31_DBL_ =
Kotlin.Long.TWO_PWR_32_DBL_ / 2;

Kotlin.Long.TWO_PWR_48_DBL_ =
Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;

Kotlin.Long.TWO_PWR_63_DBL_ =
Kotlin.Long.TWO_PWR_64_DBL_ / 2;

Kotlin.Long.ONE = Kotlin.Long.fromInt(1);

Kotlin.Long.ZERO = Kotlin.Long.fromInt(0);

Kotlin.Long.NEG_ONE =
Kotlin.Long.fromInt(-1);

Kotlin.Long.MAX_VALUE =
Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);

Kotlin.Long.MIN_VALUE =
Kotlin.Long.fromBits(0x00000000 | 0, 0x00000000 | 0);
```javascript
@private
*Kotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);

/**
 * @type {!Kotlin.Long}
 *
 */
Kotlin.Long.prototype.toUint = function() { return this.low_; }

/** @return {number} The closest floating-point representation to this value. */
Kotlin.Long.prototype.toNumber = function() {
  return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +
  this.getLowBitsUnsigned();
}

/** @return {number} The value, assuming it is a 32-bit integer. */
Kotlin.Long.prototype.toInt = function() {
  return this.low_; }

/** @return {number} The high 32-bits as a signed value. */
Kotlin.Long.prototype.getHighBits = function() {
  return this.high_; }

/** @return {number} The low 32-bits as a signed value. */
Kotlin.Long.prototype.getLowBits = function() {
  return this.low_; }

/** @return {number} The low 32-bits as an unsigned value. */
Kotlin.Long.prototype.getLowBitsUnsigned = function() {
  return (this.low_ >= 0) ?
      this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_; }

/**
 * @return {number} Returns the number of bits needed to represent the absolute
 *     value of this Long.
 */
Kotlin.Long.prototype.getNumBitsAbs = function() {
  if (this.isNegative()) {
    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return 64;
    } else {
      return this.negate().getNumBitsAbs();
    }
  } else {
    var val = this.high_ != 0 ? this.high_ : this.low_;
    for (var bit = 31; bit > 0; bit--) {
      if ((val & (1 << bit)) != 0) {
        break;
      }
    }
    return this.high_ != 0 ? bit + 33 : bit + 1;
  }
}

/**
 * @return {boolean} Whether this value is zero. */
Kotlin.Long.prototype.isZero = function() {
  return this.high_ == 0 && this.low_ == 0;
}

/** @return {boolean} Whether this value is negative. */
Kotlin.Long.prototype.isNegative = function() {
  return this.high_ < 0;
}

/** @return {boolean} Whether this value is odd. */
Kotlin.Long.prototype.isOdd = function() {
  return (this.low_ & 1) != 0;
}

/**
 * @param {Kotlin.Long} other Long to compare against.
 * @return {boolean} Whether this Long is less than the other.
 */
Kotlin.Long.prototype.lessThan = function(other) {
  return this.compare(other) < 0;
}

/**
 * @param {Kotlin.Long} other Long to compare against.
 * @return {boolean} Whether this Long is less than or equal to the other.
 */
Kotlin.Long.prototype.lessThanOrEqual = function(other) {
  return this.compare(other) <= 0;
}

/**
 * @param {Kotlin.Long} other Long to compare against.
 * @return {boolean} Whether this Long is greater than the other.
 */
Kotlin.Long.prototype.greaterThan = function(other) {
  return this.compare(other) > 0;
}

/**
 * @param {Kotlin.Long} other Long to compare against.
 * @return {boolean} Whether this Long is greater than or equal to the other.
 */
Kotlin.Long.prototype.greaterThanOrEqual = function(other) {
  return this.compare(other) >= 0;
}
```

```javascript
this.compare(other) >= 0; // if this equals other
*/

/**
 * Compares this Long with the given one.
 * @param {Kotlin.Long} other Long to compare against.
 * @return {number} 0 if they are the same, 1 if this is greater, and -1 if the
given one is greater.
*/
Kotlin.Long.prototype.compare = function(other) {
  if (this.equalsLong(other)) {
    return 0;
  }

  var thisNeg = this.isNegative();
  var otherNeg = other.isNegative();
  if (thisNeg && otherNeg) {
    return -1;
  }

  // at this point, the signs are the
  // same, so subtraction will not overflow
  if (this.subtract(other).isNegative()) {
    return -1;
  } else {
    return 1;
  }
};

/** @return {!Kotlin.Long} The negation of this value.
 */
Kotlin.Long.prototype.negate = function() {
  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;
  } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return this.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;
  }

  if (this.isNegative()) {
    if (other.isNegative()) {
      return this.negate().multiply(other.negate());
    } else {
      return this.negate().multiply(other).negate();
    }
  } else if (other.isNegative()) {
    return this.multiply(other.negate()).negate();
  }

  // If both longs are small, use float
  // multiplication:
  if (this.lessThan(Kotlin.Long.TWO_PWR_24_)) {
    return this.multiply(other).negate();
  }

  // Divide each number into 4 chunks of 16 bits, and then
  // add up 4x4 products.

  var a48 = this.high_ >>> 16;
  var a32 = this.high_ & 0xFFFF;
  var a16 = this.low_ >>> 16;
  var a00 = this.low_ & 0xFFFF;

  var b48 = other.high_ >>> 16;
  var b32 = other.high_ & 0xFFFF;
  var b16 = other.low_ >>> 16;
  var b00 = other.low_ & 0xFFFF;

  var c48 = 0, c32 = 0, c16 = 0, c00 = 0;

  c00 += a00 * b00;
  c16 += c00 >>> 16;
  c00 &= 0xFFFF;

  c16 += a16 * b00;
  c32 += c16 >>> 16;
  c16 &= 0xFFFF;

  c00 += a00 * b16;
  c16 += c00 >>> 16;
  c16 &= 0xFFFF;

  c16 += a48 * b00 + a32 * b16 + a16 * b32 + a00 * b48;
  c48 &= 0xFFFF;

  return Kotlin.Long.fromBits(c16 <= 16) | c00, (c48 <= 16) | c32);
};
```

```
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9343
```
Kotlin.Long.NEG_ONE } else { 
  var rem = this.subtract(other.multiply(approx));
  var result = approx.add(rem.divide(other));
  return result;
} 
} else if
(other.equals(Long.MAX_VALUE)) { 
  return Kotlin.Long.ZERO
} 

if (this.isNegative()) { 
  return this.negate().divide(other.negate());
} else { 
  return this.divide(other).negate();
} 

} else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
  return Kotlin.Long.ZERO;
}

if (this.isNegative()) {
  return this.negate().divide(other.negate());
} else {
  return this.divide(other.negate()).negate();
}

} // Repeat the following until the remainder is less than other: find a
// floating-point that approximates remainder / other *from below*, add this
// into the result, and subtract it from the remainder.
// It is critical that
// the approximate value is less than or equal to the real value so that the
// remainder never becomes negative.
var res = Kotlin.Long.ZERO;
var rem = this;
while (rem.greaterThanOrEqual(other)) {
  // Approximate the result by changing it in the 48-th digit or
  // the smallest non-fractional digit, whichever is larger.
  var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));
  var approxRem = approx.multiply(other);
  while (approxRem.isNegative() || approxRem.greaterThan(rem)) {
    approx -= approxRem;
    approxRem = approx.multiply(other);
  }
  res = res.add(approxRem);
  rem = rem.subtract(approxRem);
}
return res;

/**
 * Returns this Long modulo the given one.
 * @param {Kotlin.Long} other Long by which to
 * mod.
 * @return {!Kotlin.Long} This Long modulo the given one.
 */
Kotlin.Long.prototype.modulo = function(other) {
  return this.subtract(this.divide(other).multiply(other));
};

/** @return {!Kotlin.Long} The
 * bitwise-NOT of this value.
 */
Kotlin.Long.prototype.not = function() {
  return Kotlin.Long.fromBits(~this.low_,
   ~this.high_);
};

/**
 * Returns the bitwise-AND of this Long and the given one.
 * @param {Kotlin.Long} other The Long with which to AND.
 * @return {!Kotlin.Long} The bitwise-AND of this and the other.
 */
Kotlin.Long.prototype.and = function(other) {
  return Kotlin.Long.fromBits(this.low_ & other.low_,
                                 this.high_ & other.high_);
};

/**
 * Returns the bitwise-XOR of this Long
 * and the given one.
 * @param {Kotlin.Long} other The Long with which to XOR.
 * @return {!Kotlin.Long} The bitwise-XOR of this and the other.
 */
Kotlin.Long.prototype.xor = function(other) {
  return Kotlin.Long.fromBits(this.low_ ^ other.low_,
                                 this.high_ ^ other.high_);
};

/**
 * Returns this Long with bits shifted to the left by the given amount.
 * @param {number} numBits The number of
 * bits by which to shift.
 * @return {!Kotlin.Long} This shifted to the left by the given amount.
 */
Kotlin.Long.prototype.shiftLeft = function(numBits) {
  numBits &= 63;
  if (numBits == 0) {
    return this;
  } else {
    var low = this.low_;
    if (numBits < 32) {
      var high = this.high_;
      return Kotlin.Long.fromBits(low << numBits, high);
    } else {
      var return Kotlin.Long.fromBits(0, low << (numBits - 32));
    }
  }
};

/**
 * Returns this Long with bits shifted to the right by the given amount.
 * @param {number} numBits The number of bits by which to shift.
 * @return {Kotlin.Long} This shifted to the right by the given amount.
 */
Kotlin.Long.prototype.shiftRight = function(numBits) {
  numBits &= 63;
  if (numBits == 0) {
    return this;
  } else {
    var high = this.high_;
    if (numBits < 32) {
      var low = this.low_;
      return Kotlin.Long.fromBits(low >> numBits);
    } else {
      var numBits >> 32;
    }
  }
};
placed into the new leading bits.

`Kotlin.Long.prototype.shiftRightUnsigned = function(numBits) {
  numBits &= 63;
  if (numBits == 0) {
    return this;
  } else {
    var high = this.high_;
    var low = this.low_;
    return Kotlin.Long.fromBits(low, (numBits - 32), 0);
  }
};`

Support for Kotlin

`Kotlin.Long.prototype.equals = function (other) {
  return other instanceof Kotlin.Long &&
  this.equalsLong(other);
};`

`Kotlin.Long.prototype.compare = function(a, b) {
  var typeA = typeof a;
  if (typeA === "number") {
    if (typeof b === "number") {
      return Kotlin.doubleCompareTo(a, b);
    } else if (numBits == 32) {
      return Kotlin.Long.fromBits(high, 0);
    } else {
      return Kotlin.Long.fromBits(high >> numBits, 0);
    }
  }
};`

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
function(value) { return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value); }
}

Kotlin.doubleToRawBits = function(value) { return bufferFloat64[0] = value; return bufferFloat64[0] }

Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);

Kotlin.doubleFromBits = function(value) { return bufferFloat64[0] = value; return bufferFloat64[0] }

Kotlin.floatToBits = function(value) { return bufferFloat32[0] = value; return bufferFloat32[0] }

Kotlin.floatFromBits = function(value) { return bufferFloat32[0] = value; return bufferFloat32[0] }

// returns zero value for number with positive sign bit and non-zero value for number
with negative sign bit.

Kotlin.doubleSignBit = function(value) { return bufferFloat64[0] = value; return bufferFloat64[0] }

Kotlin.doubleHasSignBit = function(value) { return bufferFloat64[0] = value; return bufferFloat64[0] }

// approximations

if (x < -1) {
    return Math.log(x + Math.sqrt(x * x + 1));
}

if (x <= -taylor_n_bound)
{
    // approximation by laurent series in 1/x at 0+ order from -1 to 0
    // approximation by laurent series in 1/x at 0+ order from -1 to 0
    return Math.log(x) + Math.LN2;
}

else
{
    result += (x * x * x) / 6;
    }

return result;
}

if (Math.abs(x) > taylor_2_bound) {

    var a =

    Math.abs(x) < taylor_n_bound) {
        var result = x;
        if (Math.abs(x) > taylor_2_bound) {

            result += (x * x * x) / 6;
            }

            return result;
        } else {
            var y = Math.exp(x);
            var y1 = 1 / y;
            if (isFinite(y1)) return Math.exp(x - Math.LN2);
            if (isFinite(y)) return Math.exp(x - Math.LN2);
            return y1 / 2;
        }
    }

    if (Math.abs(x) > Math.taylor_2_bound) {

        return Math.log(x * 2 + (1 / (x * 2)));
    }

    else
    {
        return Math.log(x + Math.sqrt(x * x + 1));
    }

    else if (x <= -taylor_n_bound)
{
    // approximation by laurent series in x at 0 up to

return object instanceof klass;
} 

if (klassMetadata.kind === Kotlin.Kind.INTERFACE &
object.constructor != null) {
    return isInheritanceFromInterface(object.constructor, klass);
}

return false;
}

Kotlin.isNumber = function (a) {
    return typeof a == "number" || a instanceof
Kotlin.Long;
}

Kotlin.isChar = function (value) {
    return value instanceof
Kotlin.BoxedChar
};

Kotlin.isComparable = function (value) {
    var type = typeof value;

    return type === "string" ||
           type === "boolean" ||
           Kotlin.isNumber(value) ||
           Kotlin.isType(value, Kotlin.kotlin.Comparable);
}

Kotlin.isCharSequence = function (value) {
    return value instanceof
Kotlin.kotlin.CharSequence;
};

*/

@PublishedApi
external internal fun <T> Array(size: Int): Array<T>

@JsName("newArray")
fun <T> newArray(size: Int, initValue: T) = fillArrayVal(Array<T>(size),
initValue)

@JsName("newArrayF")
inline fun <T> arrayWithFun(size: Int, init: (Int) -> T) = fillArrayFun(array<T>(size), init)

@JsName("fillArray")
inline fun <T> fillArrayFun(array: Array<T>, init: (Int) -> T): Array<T> {
    for (i in 0..array.size - 1) {
        array[i] = init(i)
    }
    return array
}

@JsName("booleanArray")
fun booleanArray(size: Int, init: dynamic): Array<Boolean> {
    val result: dynamic = Array<Boolean>(size)
    result.`$type$` = "BooleanArray"
    return when (init) {
        null, true -> fillArrayVal(result, false)
        false -> result
        else -> fillArrayFun<Boolean>(result, init)
    }
}

@JsName("booleanArrayF")
inline fun booleanArrayWithFun(size: Int, init: (Int) -> Boolean): Array<Boolean> = fillArrayFun(booleanArray(size, false),
init)

@JsName("charArray")
@Suppress("UNUSED_PARAMETER")
fun charArray(size: Int, init: dynamic): Array<Char> {
    val result = js("new Uint16Array(size)")
    result.`$type$` = "CharArray"
    return when (init) {
        null, true, false -> result // For consistency
        else -> fillArrayFun<Char>(result, init)
    }
}

@JsName("charArrayF")
inline fun charArrayWithFun(size: Int, init: (Int) -> Char): Array<Char> {
    val array = charArray(size, null)
    for (i in 0..array.size - 1) {
        val value = init(i)
        js("array[i] = value;")
    }
    return array
}

@JsName("untypedCharArrayF")
inline fun untypedCharArrayWithFun(size: Int, init: (Int) -> Char): Array<Char> {
    val array = Array<Char>(size)
    for (i in 0..array.size - 1) {
        val value = init(i)
        js("array[i] = value;")
    }
    return array
}

@JsName("longArray")
fun longArray(size: Int, init: dynamic): Array<Long> {
    val result: dynamic = Array<Long>(size)
    result.`$type$` = "LongArray"
    return when (init) {
        null, true -> fillArrayVal(result, 0L)
        false -> result
        else -> fillArrayFun<Long>(result, init)
    }
}

@JsName("longArrayF")
inline fun longArrayWithFun(size: Int, init: (Int) -> Long): Array<Long> = fillArrayFun(longArray(size, false), init)

private fun <T> fillArrayVal(array: Array<T>, initValue: T): Array<T> {
    for (i in 0..array.size - 1) {
        array[i] = initValue
    }
    return array
}

package kotlin

public class 
Enum<T : Enum<T>> : Comparable<Enum<T>> {
    @JsName("name$") private var _name: String = ""
    @JsName("ordinal$") private var _ordinal: Int = 0

    val name: String
        get() = _name

    val ordinal: Int
        get() = _ordinal

    override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)

    override fun equals(other: Any?) = this === other

    override fun hashCode(): Int = js("Kotlin.identityHashCode")(this)

    override fun toString() = name

    companion object
}
size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS

*\@kotlin.internal.InlineOnly\public inline operator fun <T> Array\<out T\>.component1(): T
  {\n    return get(0)\n  }\n
*\@kotlin.internal.InlineOnly\public inline operator fun ByteArray.component1(): Byte
  {\n    return get(0)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun ShortArray.component1(): Short
  {\n    return get(0)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun IntArray.component1(): Int
  {\n    return get(0)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun LongArray.component1(): Long
  {\n    return get(0)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun FloatArray.component1(): Float
  {\n    return get(0)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun DoubleArray.component1(): Double
  {\n    return get(0)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun BooleanArray.component1(): Boolean
  {\n    return get(0)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun CharArray.component1(): Char
  {\n    return get(0)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun <T> Array\<out T\>.component2(): T
  {\n    return get(1)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun ByteArray.component2(): Byte
  {\n    return get(1)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun ShortArray.component2(): Short
  {\n    return get(1)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun IntArray.component2(): Int
  {\n    return get(1)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun LongArray.component2(): Long
  {\n    return get(1)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun FloatArray.component2(): Float
  {\n    return get(1)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun DoubleArray.component2(): Double
  {\n    return get(1)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun BooleanArray.component2(): Boolean
  {\n    return get(1)\n  }

*\@kotlin.internal.InlineOnly\public inline operator fun CharArray.component2(): Char
  {\n    return get(1)\n  }

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public inline operator fun BooleanArray.component2(): Boolean {
    return get(1)
}

public inline operator fun CharArray.component2(): Char {
    return get(1)
}

public inline operator fun <T> Array<out T>.component3(): T {
    return get(2)
}

public inline operator fun ByteArray.component3(): Byte {
    return get(2)
}

public inline operator fun ShortArray.component3(): Short {
    return get(2)
}

public inline operator fun IntArray.component3(): Int {
    return get(2)
}

public inline operator fun LongArray.component3(): Long {
    return get(2)
}

public inline operator fun FloatArray.component3(): Float {
    return get(2)
}

public inline operator fun DoubleArray.component3(): Double {
    return get(2)
}

public inline operator fun BooleanArray.component3(): Boolean {
    return get(2)
}

public inline operator fun CharArray.component3(): Char {
    return get(2)
}

public inline operator fun <T> Array<out T>.component4(): T {
    return get(3)
}

public inline operator fun ByteArray.component4(): Byte {
    return get(3)
}

public inline operator fun ShortArray.component4(): Short {
    return get(3)
}

public inline operator fun IntArray.component4(): Int {
    return get(3)
}

public inline operator fun LongArray.component4(): Long {
    return get(3)
}

public inline operator fun FloatArray.component4(): Float {
    return get(3)
}

public inline operator fun DoubleArray.component4(): Double {
    return get(3)
}

public inline operator fun BooleanArray.component4(): Boolean {
    return get(3)
}

public inline operator fun CharArray.component4(): Char {
    return get(3)
}

public inline operator fun <T> Array<out T>.component5(): T {
    return get(4)
}

public inline operator fun ByteArray.component5(): Byte {
    return get(4)
}

public inline operator fun ShortArray.component5(): Short {
    return get(4)
}

public inline operator fun IntArray.component5(): Int {
    return get(4)
}

public inline operator fun LongArray.component5(): Long {
    return get(4)
}

public inline operator fun FloatArray.component5(): Float {
    return get(4)
}

public inline operator fun DoubleArray.component5(): Double {
    return get(4)
}

public inline operator fun BooleanArray.component5(): Boolean {
    return get(4)
}

public inline operator fun CharArray.component5(): Char {
    return get(4)
}
@kotlin.internal.InlineOnly
public inline operator fun FloatArray.component4(): Float {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.component4(): Double {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.component4(): Boolean {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun CharArray.component4(): Char {
    return get(3)
}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun FloatArray.component5(): Float {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.component5(): Double {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.component5(): Boolean {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun CharArray.component5(): Char {
    return get(4)
}

/**
 * Returns `true` if 
 * [element] is found in the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun FloatArray.contains(element: Float): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if 
 * [element] is found in the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.contains(element: Double): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if 
 * [element] is found in the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.contains(element: Boolean): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if 
 * [element] is found in the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun CharArray.contains(element: Char): Boolean {
    return indexOf(element) >= 0
}

/**
 * @deprecated The function has unclear behavior when searching for NaN or zero values and will be removed soon.
 * Use 'any { it ==
 */
element }' instead to continue using this behavior, or 'asList().contains(element: T)' to get the same search behavior as in a list.

ReplaceWith("any { it == element }")\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@Suppress("DEPRECATION")
public operator fun FloatArray.contains(element: Float): Boolean {
return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior as in a list.", ReplaceWith("any { it == element }")\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@Suppress("DEPRECATION")
public operator fun DoubleArray.contains(element: Double): Boolean {
return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior as in a list.", ReplaceWith("any { it == element }")\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@Suppress("DEPRECATION")
public operator fun CharArray.contains(element: Char): Boolean {
return indexOf(element) >= 0
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.

Array<out T>.elementAt(index: Int): T

@sample samples.collections.Collections.Elements.elementAt
*/
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.

ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte

@sample samples.collections.Collections.Elements.elementAtOrElse
*/
@kotlin.internal.InlineOnly
public inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.

ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short

@sample samples.collections.Collections.Elements.elementAtOrElse
*/
@kotlin.internal.InlineOnly
public inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {
return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.

IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int

@sample samples.collections.Collections.Elements.elementAtOrElse
*/
@kotlin.internal.InlineOnly
public inline fun IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {
return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.

CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char

@sample samples.collections.Collections.Elements.elementAtOrElse
*/
@kotlin.internal.InlineOnly
public inline fun CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns a value at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.

ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte

@sample samples.collections.Collections.Elements.elementAt
*/
@kotlin.internal.InlineOnly
public inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns a value at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.

ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short

@sample samples.collections.Collections.Elements.elementAt
*/
@kotlin.internal.InlineOnly
public inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {
return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or throws a [IndexOutOfBoundsException] if the [index] is out of bounds of this array.

ByteArray.elementAt(index: Int): Byte

@sample samples.collections.Collections.Elements.elementAt
*/
@kotlin.internal.InlineOnly
public inline fun ByteArray.elementAt(index: Int): Byte {
return if (index >= 0 && index <= lastIndex) get(index) else throw IndexOutOfBoundsException()
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.

ShortArray.elementAt(index: Int): Short

@sample samples.collections.Collections.Elements.elementAt
*/
@kotlin.internal.InlineOnly
public inline fun ShortArray.elementAt(index: Int): Short {
return if (index >= 0 && index <= lastIndex) get(index) else throw IndexOutOfBoundsException()
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.

IntArray.elementAt(index: Int): Int

@sample samples.collections.Collections.Elements.elementAt
*/
@kotlin.internal.InlineOnly
public inline fun IntArray.elementAt(index: Int): Int {
return if (index >= 0 && index <= lastIndex) get(index) else throw IndexOutOfBoundsException()
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.

CharArray.elementAt(index: Int): Char

@sample samples.collections.Collections.Elements.elementAt
*/
@kotlin.internal.InlineOnly
public inline fun CharArray.elementAt(index: Int): Char {
return if (index >= 0 && index <= lastIndex) get(index) else throw IndexOutOfBoundsException()
samples.collections.Elements.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int { return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.

IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int { return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.

LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long { return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.

FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float { return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.

DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double { return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.

CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char { return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) * Returns an element at the given [index] or 'null' if the [index] is out of bounds of this array.

ByteArray.elementAtOrNull(index: Int): Byte? { return getOrNull(index) * Returns an element at the given [index] or 'null' if the [index] is out of bounds of this array.

ShortArray.elementAtOrNull(index: Int): Short? { return getOrNull(index) * Returns an element at the given [index] or 'null' if the [index] is out of bounds of this array.

IntArray.elementAtOrNull(index: Int): Int? { return getOrNull(index) * Returns an element at the given [index] or 'null' if the [index] is out of bounds of this array.

LongArray.elementAtOrNull(index: Int): Long? { return getOrNull(index) * Returns an element at the given [index] or 'null' if the [index] is out of bounds of this array.

FloatArray.elementAtOrNull(index: Int): Float? { return getOrNull(index) * Returns an element at the given [index] or 'null' if the [index] is out of bounds of this array.

DoubleArray.elementAtOrNull(index: Int): Double? { return getOrNull(index) * Returns an element at the given [index] or 'null' if the [index] is out of bounds of this array.
samples.collections.Collections.Elements.elementAtOrNull
 */
@kotlin.internal.InlineOnly
public inline fun

Array<out T>.find(predicate: (T) -> Boolean): T? {  
    return firstOrNull(predicate)  
}

ByteArray.find(predicate: (Byte) -> Boolean): Byte? {  
    return firstOrNull(predicate)  
}

ShortArray.find(predicate: (Short) -> Boolean): Short? {  
    return firstOrNull(predicate)  
}

IntArray.find(predicate: (Int) -> Boolean): Int? {  
    return firstOrNull(predicate)  
}

LongArray.find(predicate: (Long) -> Boolean): Long? {  
    return firstOrNull(predicate)  
}

FloatArray.find(predicate: (Float) -> Boolean): Float? {  
    return firstOrNull(predicate)  
}

DoubleArray.find(predicate: (Double) -> Boolean): Double? {  
    return firstOrNull(predicate)  
}

BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {  
    return firstOrNull(predicate)  
}

ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {  
    return lastOrNull(predicate)  
}

ShortArray.findLast(predicate: (Short) -> Boolean): Short? {  
    return lastOrNull(predicate)  
}

IntArray.findLast(predicate: (Int) -> Boolean): Int? {  
    return lastOrNull(predicate)  
}

LongArray.findLast(predicate: (Long) -> Boolean): Long? {  
    return lastOrNull(predicate)  
}

FloatArray.findLast(predicate: (Float) -> Boolean): Float? {  
    return lastOrNull(predicate)  
}

DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {  
    return lastOrNull(predicate)  
}

CharArray.findLast(predicate: (Char) -> Boolean): Char? {  
    return lastOrNull(predicate)  
}

CharArray.elementAtOrNull(index: Int): Char? {  
    return this.getOrDefault(index)  
}

ByteArray.elementAtOrNull(index: Int): Byte? {  
    return this.getOrNull(index)  
}

ShortArray.elementAtOrNull(index: Int): Short? {  
    return this.getOrNull(index)  
}

IntArray;elementAtOrNull(index: Int): Int? {  
    return this.getOrNull(index)  
}

LongArray;elementAtOrNull(index: Int): Long? {  
    return this.getOrNull(index)  
}

FloatArray;elementAtOrNull(index: Int): Float? {  
    return this.getOrNull(index)  
}

DoubleArray;elementAtOrNull(index: Int): Double? {  
    return this.getOrNull(index)  
}

CharArray;elementAtOrNull(index: Int): Char? {  
    return this.getOrNull(index)  
}
samples.collections.Collections.Elements.find
*\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public fun ByteArray.first(): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun ShortArray.first(predicate: (Short) -> Boolean): Short {
    return this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun IntArray.first(predicate: (Int) -> Boolean): Int {
    return this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun LongArray.first(predicate: (Long) -> Boolean): Long {
    return this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun FloatArray.first(predicate: (Float) -> Boolean): Float {
    return this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun DoubleArray.first(predicate: (Double) -> Boolean): Double? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun CharArray.first(predicate: (Char) -> Boolean): Char? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun StringArray.first(predicate: (String) -> Boolean): String? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun Int32Array.first(predicate: (Int32) -> Boolean): Int32? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun Int16Array.first(predicate: (Int16) -> Boolean): Int16? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun Int8Array.first(predicate: (Int8) -> Boolean): Int8? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun FloatArray.first(predicate: (Float) -> Boolean): Float? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun DoubleArray.first(predicate: (Double) -> Boolean): Double? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun CharArray.first(predicate: (Char) -> Boolean): Char? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun StringArray.first(predicate: (String) -> Boolean): String? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun Int32Array.first(predicate: (Int32) -> Boolean): Int32? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun Int16Array.first(predicate: (Int16) -> Boolean): Int16? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public fun Int8Array.first(predicate: (Int8) -> Boolean): Int8? {
    return lastOrNull(predicate)
}
predicate.
} * Returns the first element matching the given [predicate].
* @throws [NoSuchElementException] if no such element is found.

@public inline fun DoubleArray.first(predicate: (Double) -> Boolean): Double {
    for (element in this) if (predicate(element)) return element

    throw NoSuchElementException("Array contains no element matching the predicate.
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"
defaultValue: (Int) -> T): T {
    return if (index >= 0 && index <= lastIndex) get(index) else
    defaultValue(index) // Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.getOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.getOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.getOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.getOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun <T> Array<out T>.getOrNull(index: Int): T? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun ByteArray.getOrNull(index: Int): Byte? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun ShortArray.getOrNull(index: Int): Short? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun IntArray.getOrNull(index: Int): Int? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun LongArray.getOrNull(index: Int): Long? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun FloatArray.getOrNull(index: Int): Float? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun DoubleArray.getOrNull(index: Int): Double? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun BooleanArray.getOrNull(index: Int): Boolean? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun CharArray.getOrNull(index: Int, defaultValue: (Int) -> Char): Char? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}
public fun IntArray.last(): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

public fun LongArray.last(): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

public fun FloatArray.last(): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

public fun DoubleArray.last(): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

public fun BooleanArray.last(): Boolean {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

public fun CharArray.last(): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

public inline fun <T> Array<out T>.last(predicate: (T) -> Boolean): T {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element))
            return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

public inline fun ByteArray(last(predicate: (Byte) -> Boolean): Byte {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element))
            return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

public inline fun ShortArray(last(predicate: (Short) -> Boolean): Short {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element))
            return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

public inline fun IntArray(last(predicate: (Int) -> Boolean): Int {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element))
            return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

public inline fun LongArray(last(predicate: (Long) -> Boolean): Long {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element))
            return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

public inline fun FloatArray(last(predicate: (Float) -> Boolean): Float {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element))
            return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

public inline fun DoubleArray(last(predicate: (Double) -> Boolean): Double {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element))
            return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

public inline fun BooleanArray(last(predicate: (Boolean) -> Boolean): Boolean {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element))
            return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

public inline fun CharArray(last(predicate: (Char) -> Boolean): Char {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element))
            return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
element = this[index]
if (predicate(element)) return element
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public inline fun ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public inline fun ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public inline fun IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public inline fun LongArray.lastOrNull(predicate: (Long) -> Boolean): Long? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public inline fun FloatArray.lastOrNull(predicate: (Float) -> Boolean): Float? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public inline fun DoubleArray.lastOrNull(predicate: (Double) -> Boolean): Double? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public inline fun BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public inline fun CharArray.lastOrNull(predicate: (Char) -> Boolean): Char? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.random(): T {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun ByteArray.random(): Byte {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun ShortArray.random(): Short {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun IntArray.random(): Int {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun LongArray.random(): Long {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun FloatArray.random(): Float {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun DoubleArray.random(): Double {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun BooleanArray.random(): Boolean {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun CharArray.random(): Char {
    return random(Random)
}
* @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun <T> Array<out T>.random(random: Random): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun ByteArray.random(random: Random): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun ShortArray.random(random: Random): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun IntArray.random(random: Random): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun LongArray.random(random: Random): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun FloatArray.random(random: Random): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun DoubleArray.random(random: Random): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun BooleanArray.random(random: Random): Boolean {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun CharArray.random(random: Random): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.randomOrNull(): T? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun ByteArray.randomOrNull(): Byte? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun ShortArray.randomOrNull(): Short? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun IntArray.randomOrNull(): Int? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun LongArray.randomOrNull(): Long? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun FloatArray.randomOrNull(): Float? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun DoubleArray.randomOrNull(): Double? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun BooleanArray.randomOrNull(): Boolean? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun CharArray.randomOrNull(): Char? {
    return randomOrNull(Random)
}
c inline fun FloatArray.randomOrNull(): Float? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array or `null`, if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun DoubleArray.randomOrNull(): Double? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun BooleanArray.randomOrNull(): Boolean? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun <T> Array<out T>.randomOrNull(random: Random): T? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun ByteArray.randomOrNull(random: Random): Byte? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun ShortArray.randomOrNull(random: Random): Short? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun IntArray.randomOrNull(random: Random): Int? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun LongArray.randomOrNull(random: Random): Long? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun FloatArray.randomOrNull(random: Random): Float? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun DoubleArray.randomOrNull(random: Random): Double? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun <T> Array<out T>.single(): T {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw
    }
}
IllegalArgumentException("Array has more than one element.")

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun ByteArray.single(): Byte {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun ShortArray.single(): Short {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun IntArray.single(): Int {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun LongArray.single(): Long {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun FloatArray.single(): Float {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun DoubleArray.single(): Double {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun BooleanArray.single(): Boolean {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun CharArray.single(): Char {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or
 * more than one matching element.
 */
public inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as T
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or
 * more than one matching element.
 */
public inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {
    var single: Byte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Byte
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or
 * more than one matching element.
 */
public inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {
    var single: Short? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Short
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or
 * more than one matching element.
 */
public inline fun IntArray.single(predicate: (Int) -> Boolean): Int {
    var single: Int? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw SpringApplication.run(MyApplication::class.java, args)
}
IllegalArgumentException("Array contains more than one matching element.")
    
    @Suppress("UNCHECKED_CAST")
    return single as Int
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching
element.
 */
public inline fun LongArray.single(predicate: (Long) -> Boolean): Long {
    var single: Long? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
                IllegalArgumentException("Array contains more than one matching element.")
            single = element

            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Long
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching
element.
 */
public inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {
    var single: Float? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
                IllegalArgumentException("Array contains more than one matching element.")
            single = element

            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Float
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching
element.
 */
public inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {
    var single: Double? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
                IllegalArgumentException("Array contains more than one matching element.")
            single = element

            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Double
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching
element.
 */
public inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {
    var single: Boolean? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
                IllegalArgumentException("Array contains more than one matching element.")
            single = element

            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Boolean
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun <T> Array<out T>.singleOrNull(): T? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun ByteArray.singleOrNull(): Byte? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun ShortArray.singleOrNull(): Short? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun IntArray.singleOrNull(): Int? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun LongArray.singleOrNull(): Long? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun FloatArray.singleOrNull(): Float? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun DoubleArray.singleOrNull(): Double? {
    return if (size == 1) this[0] else null
}
this[0] else null

\n
* Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

* *public inline fun <T> Array<out T>.singleOrNull(predicate: (T) -> Boolean): T? {\n  var single: T? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n* *public inline fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n  var single: Byte? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n* *public inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n  var single: Short? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n* *public inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n  var single: Int? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n* *public inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n  var single: Char? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n* *public inline fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n  var single: Boolean? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n* *public inline fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {\n  var single: Double? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n* *public inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean): Float? {\n  var single: Float? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n* *public inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n  var single: Long? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n* *public inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n  var single: Int? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n* *public inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n  var single: Short? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n* *public inline fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Boolean? {\n  var single: Boolean? = null
  var found = false
  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null
      single = element
      found = true
    }\n    if (!found) return null
  }\n  return single
\n\n}
samples.collections.Collections.Transformations.drop(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
} Returns a list containing all elements except first [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
} Returns a list containing all elements except first [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
} Returns a list containing all elements except first [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<Float> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
} Returns a list containing all elements except first [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
} Returns a list containing all elements except first [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
} Returns a list containing all elements except first [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
} Returns a list containing all elements except first [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
} Returns a list containing all elements except first [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
} Returns a list containing all elements except first [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
} Returns a list containing all elements except last [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
} Returns a list containing all elements except last [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
} Returns a list containing all elements except last [n] elements.

samples.collections.Collections.Transformations.drop(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
} Returns a list containing all elements except last [n] elements.
samples.collections.Collections.Transformations.drop\n*/public fun FloatArray.dropLast(n: Int): List<Float> {\n    if (n >= 0) \n        return take((size - n).coerceAtLeast(0))\n    throw IllegalArgumentException("Requested element count \n        is less than zero.") \n}

/**
 * Returns a list containing all elements except last \n elements.
 * @throws
 * @sample
 */
public fun DoubleArray.dropLast(n: Int): List<Double>
{
    if (n >= 0) \n        return take((size - n).coerceAtLeast(0))\n    throw IllegalArgumentException("Requested element count \n        is less than zero.") \n}

/**
 * Returns a list containing all elements except last \n elements.
 * @throws
 * @sample
 */
public fun BooleanArray.dropLast(n: Int): List<Boolean>
{
    if (n >= 0) \n        return take((size - n).coerceAtLeast(0))\n    throw IllegalArgumentException("Requested element count \n        is less than zero.") \n}

/**
 * Returns a list containing all elements except last \n elements.
 * @throws
 * @sample
 */
public fun CharArray.dropLast(n: Int): List<Char> {
    if (n >= 0) \n        return take((size - n).coerceAtLeast(0))\n    throw IllegalArgumentException("Requested element count \n        is less than zero.") \n}

/**
 * Returns a list containing all elements except last \n elements that satisfy the given [predicate].
 * @sample
 */
public inline fun <T>
Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)\n        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last \n elements that satisfy the given [predicate].
 * @sample
 */
public inline fun ByteArray.dropLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)\n        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last \n elements that satisfy the given [predicate].
 * @sample
 */
public inline fun ShortArray.dropLastWhile(predicate:
(Short) -> Boolean): List<Short> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)\n        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last \n elements that satisfy the given [predicate].
 * @sample
 */
public inline fun IntArray.dropLastWhile(predicate:
(Int) -> Boolean): List<Int> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)\n        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last \n elements that satisfy the given [predicate].
 * @sample
 */
public inline fun LongArray.dropLastWhile(predicate:
(Long) -> Boolean): List<Long> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)\n        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last \n elements that satisfy the given [predicate].
 * @sample
 */
public inline fun FloatArray.dropLastWhile(predicate:
(Float) -> Boolean): List<Float> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)\n        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last \n elements that satisfy the given [predicate].
 * @sample
 */
public inline fun DoubleArray.dropLastWhile(predicate:
(Double) -> Boolean): List<Double> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)\n        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last \n elements that satisfy the given [predicate].
 * @sample
 */
public inline fun BooleanArray.dropLastWhile(p
CharArray.dropLastWhile(predicate: Char -> Boolean): List<Char> {
    var list = ArrayList<Char>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            yielding = true
            list.add(item)
        }
    return list
}

IntArray.dropLastWhile(predicate: Int -> Boolean): List<Int> {
    var list = ArrayList<Int>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

LongArray.dropLastWhile(predicate: Long -> Boolean): List<Long> {
    var list = ArrayList<Long>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

ByteArray.dropLastWhile(predicate: Byte -> Boolean): List<Byte> {
    var list = ArrayList<Byte>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

ShortArray.dropLastWhile(predicate: Short -> Boolean): List<Short> {
    var list = ArrayList<Short>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

DoubleArray.dropLastWhile(predicate: Double -> Boolean): List<Double> {
    var list = ArrayList<Double>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

**CharArray.dropLastWhile**: Removes the last element of the list for which the given predicate evaluates to `false`. If no such element is found, it returns an empty list.

**IntArray.dropLastWhile**: Removes the last element of the list for which the given predicate evaluates to `false`. If no such element is found, it returns an empty list.

**LongArray.dropLastWhile**: Removes the last element of the list for which the given predicate evaluates to `false`. If no such element is found, it returns an empty list.

**ByteArray.dropLastWhile**: Removes the last element of the list for which the given predicate evaluates to `false`. If no such element is found, it returns an empty list.

**ShortArray.dropLastWhile**: Removes the last element of the list for which the given predicate evaluates to `false`. If no such element is found, it returns an empty list.

**DoubleArray.dropLastWhile**: Removes the last element of the list for which the given predicate evaluates to `false`. If no such element is found, it returns an empty list.

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fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {
    return filterTo(ArrayList<Short>(), predicate)
}

fun IntArray.filter(predicate: (Int) -> Boolean): List<Int> {
    return filterTo(ArrayList<Int>(), predicate)
}

fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {
    return filterTo(ArrayList<Long>(), predicate)
}

fun FloatArray.filter(predicate: (Float) -> Boolean): List<Float> {
    return filterTo(ArrayList<Float>(), predicate)
}

fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {
    return filterTo(ArrayList<Double>(), predicate)
}

fun BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {
    return filterTo(ArrayList<Boolean>(), predicate)
}

fun CharArray.filter(predicate: (Char) -> Boolean): List<Char> {
    return filterTo(ArrayList<Char>(), predicate)
}

fun <T> Array<out T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {
    return filterIndexedTo(ArrayList<T>(), predicate)
}

fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {
    return filterIndexedTo(ArrayList<Byte>(), predicate)
}

fun ShortArray.filterIndexed(predicate: (index: Int, Short) -> Boolean): List<Short> {
    return filterIndexedTo(ArrayList<Short>(), predicate)
}

fun IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {
    return filterIndexedTo(ArrayList<Int>(), predicate)
}

fun LongArray.filterIndexed(predicate: (index: Int, Long) -> Boolean): List<Long> {
    return filterIndexedTo(ArrayList<Long>(), predicate)
}

fun FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {
    return filterIndexedTo(ArrayList<Float>(), predicate)
}

fun DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {
    return filterIndexedTo(ArrayList<Double>(), predicate)
}

fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {
    return filterIndexedTo(ArrayList<Boolean>(), predicate)
}

fun CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {
    return filterIndexedTo(ArrayList<Char>(), predicate)
}
destination\n}冯n/**冯n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element))\n destination.add(element)\n }\n return destination\n}冯n/**冯n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n forEachIndexed {\n if (predicate(index, element))\n destination.add(element)\n }\n return destination\n}冯n/**冯n * Returns a list containing all elements that are instances of specified type parameter R.\n * @sample samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R> Array<*>.filterIsInstanceTo(destination: MutableList<R>): List<R> {\n return filterIsInstanceTo(ArrayList<R>(), predicate)
}

/**\n * Returns a list containing all elements that are not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\n return filterNotTo(ArrayList<T>(), predicate)
}

/**\n * Returns a list containing all elements that are not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n */
public inline fun ByteArray.filterNot(predicate: (Byte) -> Boolean): List<Byte> {\n return filterNotTo(ArrayList<Byte>(), predicate)
}

/**\n * Returns a list containing all elements that are not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n */
public inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {\n return filterNotTo(ArrayList<Short>(), predicate)
}

/**\n * Returns a list containing all elements that are not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n */
public inline fun IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {\n return filterNotTo(ArrayList<Int>(), predicate)
}

/**\n * Returns a list containing all elements that are not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n */
public inline fun LongArray.filterNot(predicate: (Long) -> Boolean): List<Long> {\n return filterNotTo(ArrayList<Long>(), predicate)
}

/**\n * Returns a list containing all elements that are not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n */
public inline fun FloatArray.filterNot(predicate: (Float) -> Boolean): List<Float> {\n return filterNotTo(ArrayList<Float>(), predicate)
}

/**\n * Returns a list containing all elements that are not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n */
public inline fun DoubleArray.filterNot(predicate: (Double) -> Boolean): List<Double> {\n return filterNotTo(ArrayList<Double>(), predicate)
}

/**\n * Returns a list containing all elements that are not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n */
public inline fun BooleanArray.filterNot(predicate: (Boolean) -> Boolean): List<Boolean> {\n return filterNotTo(ArrayList<Boolean>(), predicate)
}

/**\n * Returns a list containing all elements that are not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n */
public inline fun CharArray.filterNot(predicate: (Char) -> Boolean): List<Char> {\n return filterNotTo(ArrayList<Char>(), predicate)
}
```kotlin
Array<out T?>.filterNotOrNullTo(destination: C): C {
    for (element in this) if (element != null)
        destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo

/*public inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo
*/

ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo

ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo

IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo

LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo

FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo

DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo

CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo

ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo

CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo

TArray.filterNotTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 */
@sample collections.Collections.Filtering.filterTo
```

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@sample samples.collections.Collections.Filtering.filterTo

fun <C : MutableCollection<Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
fun <C : MutableCollection<Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
fun <C : MutableCollection<Float>> FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
fun <C : MutableCollection<Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
fun <C : MutableCollection<Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
fun <C : MutableCollection<Char>> CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
fun <T> Array<out T>.slice(indices: IntRange): List<T> {
    if (indices.isEmpty()) return emptyList()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
fun ByteArray.slice(indices: IntRange): List<Byte> {
    if (indices.isEmpty()) return emptyList()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
fun ShortArray.slice(indices: IntRange): List<Short> {
    if (indices.isEmpty()) return emptyList()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
fun IntArray.slice(indices: IntRange): List<Int> {
    if (indices.isEmpty()) return emptyList()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
fun LongArray.slice(indices: IntRange): List<Long> {
    if (indices.isEmpty()) return emptyList()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
fun FloatArray.slice(indices: IntRange): List<Float> {
    if (indices.isEmpty()) return emptyList()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
fun DoubleArray.slice(indices: IntRange): List<Double> {
    if (indices.isEmpty()) return emptyList()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
fun BooleanArray.slice(indices: IntRange): List<Boolean> {
    if (indices.isEmpty()) return emptyList()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
fun CharArray.slice(indices: IntRange): List<Char> {
    if (indices.isEmpty()) return emptyList()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}
targetIndex = 0

for (sourceIndex in indices) {
    result[targetIndex++] = this[sourceIndex]
}

return result

*/

public fun <T> Array<T>.sliceArray(indices: IntRange): Array<T> {
    if (indices.isEmpty()) return copyOfRange(0, 0)

    var count = 0
    var list = ArrayList<T>(indices.size)
    for (sourceIndex in indices) {
        list.add(this[sourceIndex])
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns a list containing first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun IntArray.take(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= this.size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<Int>(n)
    for (sourceIndex in indices) {
        list.add(this[sourceIndex])
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun LongArray.sliceArray(indices: IntRange): LongArray {
    if (indices.isEmpty()) return LongArray(0)

    var count = 0
    var list = ArrayList<Long>(indices.size)
    for (sourceIndex in indices) {
        list.add(this[sourceIndex])
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun DoubleArray.sliceArray(indices: IntRange): DoubleArray {
    if (indices.isEmpty()) return DoubleArray(0)

    var count = 0
    var list = ArrayList<Double>(indices.size)
    for (sourceIndex in indices) {
        list.add(this[sourceIndex])
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun ByteArray.sliceArray(indices: IntRange): ByteArray {
    if (indices.isEmpty()) return ByteArray(0)

    var count = 0
    var list = ArrayList<Byte>(indices.size)
    for (sourceIndex in indices) {
        list.add(this[sourceIndex])
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun <T> Array<out T>.sliceArray(indices: IntRange): Array<T> {
    if (indices.isEmpty()) return copyOfRange(indices.start, indices.endInclusive + 1)

    var count = 0
    var list = ArrayList<T>(indices.size)
    for (sourceIndex in indices) {
        list.add(this[sourceIndex])
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun <T> Array<out T>.take(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= this.size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<T>(n)
    for (sourceIndex in indices) {
        list.add(this[sourceIndex])
        if (++count == n)
            break
    }
    return list
}
public fun List<T>.takeLast(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<T>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns a list containing first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample
 */
public fun List<T>.takeFirst(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<T>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
toList() Returns a list containing last elements satisfying the given [predicate].

Returns a list containing first elements satisfying the given [predicate].

reverseIndex--
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun LongArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun IntArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun ShortArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun ByteArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun <T> Array<T>.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
    }
}

ArrayList<Char>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {
    val list = ArrayList<Char>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun BooleanArray.takeWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    val list = ArrayList<Boolean>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {
    val list = ArrayList<Double>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float> {
    val list = ArrayList<Float>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {
    val list = ArrayList<Long>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {
    val list = ArrayList<Int>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {
    val list = ArrayList<Short>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ByteArray.takeWhile(predicate: (Byte) -> Boolean): List<Byte> {
    val list = ArrayList<Byte>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {
    val list = ArrayList<T>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing last elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun CharArray.takeLastWhile(predicate: (Char) -> Boolean): List<Char> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            break
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            break
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            break
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            break
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            break
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            break
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            break
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ByteArray.takeLastWhile(predicate: (Byte) -> Boolean): List<Byte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            break
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun <T> Array<out T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            break
        }
    }
    return toList()
@param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if
 * [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if 
 * [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun LongArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements of the
 * array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if 
 * [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if 
 * [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun FloatArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements of the
 * array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if 
 * [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if 
 * [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun DoubleArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements of the
 * array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if 
 * [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if 
 * [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Returns a
 * list with elements in reversed order.
 */
public fun <T> Array<out T>.reversed(): List<T> {
    if (isEmpty())
        return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a
 * list with elements in reversed order.
 */
public fun ByteArray.reversed(): List<Byte> {
    if (isEmpty()) return
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a
 * list with elements in reversed order.
 */
public fun ShortArray.reversed(): List<Short> {
    if (isEmpty()) return emptyList()
list.reverse() \n          return list
}  */

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.4")
public fun FloatArray.reversed(): List<Float> {
    \n    if (isEmpty()) return emptyList()

    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.4")
public fun DoubleArray.reversed(): List<Double> {
    \n    if (isEmpty()) return emptyList()

    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.4")
public fun BooleanArray.reversed(): List<Boolean> {
    \n    if (isEmpty()) return emptyList()

    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.4")
public fun CharArray.reversed(): List<Char> {
    \n    if (isEmpty()) return emptyList()

    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns an array with elements of this array in reversed order.
 */
public fun <T> Array<T>.reversedArray(): Array<T> {
    \n    if (isEmpty()) return arrayOfNulls(this,

    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]

    return result
}  */

public fun ByteArray.reversedArray(): ByteArray {
    \n    if (isEmpty()) return this

    val result = ByteArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]

    return result
}

/**
 * Randomly shuffles elements in this array in-place.
 */
@SinceKotlin("1.4")
public fun IntArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Randomly shuffles elements in this array in-place.
 */
@SinceKotlin("1.4")
public fun LongArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Randomly shuffles elements in this array in-place.
 */
@SinceKotlin("1.4")
public fun FloatArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Randomly shuffles elements in this array in-place.
 */
@SinceKotlin("1.4")
public fun DoubleArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Randomly shuffles elements in this array in-place.
 */
@SinceKotlin("1.4")
public fun BooleanArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Randomly shuffles elements in this array in-place.
 */
@SinceKotlin("1.4")
public fun CharArray.shuffle(): Unit {
    shuffle(Random)
}
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\@SinceKotlin("1.4")\public fun <T> Array<T>.shuffle(random: Random): Unit {\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n  }\n}\n\n/*\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */
*\@SinceKotlin("1.4")\public fun ByteArray.shuffle(random: Random): Unit {\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n  }\n}\n\n/*\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */
*\@SinceKotlin("1.4")\public fun ShortArray.shuffle(random: Random): Unit {\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n  }\n}\n\n/*\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */
*\@SinceKotlin("1.4")\public fun IntArray.shuffle(random: Random): Unit {\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n  }\n}\n\n/*\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */
*\@SinceKotlin("1.4")\public fun LongArray.shuffle(random: Random): Unit {\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n  }\n}\n\n/*\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */
*\@SinceKotlin("1.4")\public fun FloatArray.shuffle(random: Random): Unit {\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n  }\n}\n\n/*\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */
*\@SinceKotlin("1.4")\public fun DoubleArray.shuffle(random: Random): Unit {\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n  }\n}\n\n/*\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */
*\@SinceKotlin("1.4")\public fun BooleanArray.shuffle(random: Random): Unit {\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n  }\n}\n\n/*\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */
*\@SinceKotlin("1.4")\public fun CharArray.shuffle(random: Random): Unit {\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n  }\n}\n\n/*\n * Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n */\n\nfun <T : Comparable<R>> Array<T>.sortBy(crossinline selector: (T) -> R): Unit {\n  if (size > 1) sortWith(compareBy(selector))
}
if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements
 * in the array in-place descending according to their natural sort order.
 */
public fun DoubleArray.sortedArray(): DoubleArray {
    if (isEmpty()) return this
    return this.copyOf().apply { reverse() } 
}

/**
 * Returns an array with all elements of
 * this array sorted according to their natural sort order.
 */
public fun LongArray.sortedArray(): LongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { reverse() }
}

/**
 * Returns an array with all elements of
 * this array sorted according to their natural sort order.
 */
public fun IntArray.sortedArray(): IntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { reverse() }
}

/**
 * Returns an array with all elements of
 * this array sorted according to their natural sort order.
 */
public fun ShortArray.sortedArray(): ShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { reverse() }
}

/**
 * Returns an array with all elements of
 * this array sorted according to their natural sort order.
 */
public fun ByteArray.sortedArray(): ByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { reverse() }
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to
each other after sorting.
 */
public fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun ByteArray.sortDescending(): Unit {
    if (size > 1) {
        sortWith(compareByDescending{it
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun IntArray.sortDescending(): Unit {
    if (size > 1) {
        sortWith(compareByDescending{it
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun DoubleArray.sortDescending(): Unit {
    if (size > 1) {
        sortWith(compareByDescending{it
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun LongArray.sortDescending(): Unit {
    if (size > 1) {
        sortWith(compareByDescending{it
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun IntArray.sortDescending(): Unit {
    if (size > 1) {
        sortWith(compareByDescending{it
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun LongArray.sortDescending(): Unit {
    if (size > 1) {
        sortWith(compareByDescending{it
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun IntArray.sortDescending(): Unit {
    if (size > 1) {
        sortWith(compareByDescending{it
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun LongArray.sortDescending(): Unit {
    if (size > 1) {
        sortWith(compareByDescending{it
    }
}
of this array sorted according to their natural sort order.

```kotlin
public fun CharArray.sortedArray(): CharArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun <T : Comparable<T>> Array<T>.sortedArrayDescending(): Array<T> {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun ByteArray.sortedArrayDescending(): ByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun ShortArray.sortedArrayDescending(): ShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun IntArray.sortedArrayDescending(): IntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun LongArray.sortedArrayDescending(): LongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun FloatArray.sortedArrayDescending(): FloatArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun DoubleArray.sortedArrayDescending(): DoubleArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun CharArray.sortedArrayDescending(): CharArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}
```

@sample samples.collections.Collections.Sorting.sortedBy

samples.collections.Collections.Sorting.sortedBy
 */
public inline fun <R : Comparable<R>>
FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {
    return
    sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order
 * of the value returned by specified [selector] function.
 */
public sample
samples.collections.Collections.Sorting.sortedBy
 */
public inline fun <R : Comparable<R>>
DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {
    return
    sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order
 * of the value returned by specified [selector] function.
 */
public sample
samples.collections.Collections.Sorting.sortedBy
 */
public inline fun <R : Comparable<R>>
BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {
    return
    sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order
 * of the value returned by specified [selector] function.
 */
public sample
samples.collections.Collections.Sorting.sortedBy
 */
public inline fun <R : Comparable<R>>
CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {
    return
    sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted descending according to natural
 * sort order of the value returned by specified [selector] function.
 */
public inline fun <T, R : Comparable<R>>
Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {
    return
    sortedWith(compareByDescending(selector))
}

/**
 * Returns a list of all elements sorted descending according to natural
 * sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>>
ByteString.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {
    return
    sortedWith(compareByDescending(selector))
}

/**
 * Returns a list of all elements sorted descending according to natural
 * sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>>
ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {
    return
    sortedWith(compareByDescending(selector))
}

/**
 * Returns a list of all elements sorted descending according to natural
 * sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>>
IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {
    return
    sortedWith(compareByDescending(selector))
}

/**
 * Returns a list of all elements sorted descending according to natural
 * sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>>
LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {
    return
    sortedWith(compareByDescending(selector))
}

/**
 * Returns a list of all elements sorted descending according to natural
 * sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>>
FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {
    return
    sortedWith(compareByDescending(selector))
}

/**
 * Returns a list of all elements sorted descending according to natural
 * sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>>
DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {
    return
    sortedWith(compareByDescending(selector))
}

/**
 * Returns a list of all elements sorted descending according to their
 * natural sort order.
 */
public fun <T : Comparable<T>>
Array<out T>.sortedDescending(): List<T> {
    return
    sortedWith(reverseOrder())
}

/**
 * Returns a list of all elements sorted descending according to their
 * natural sort order.
 */
public fun ByteString.sortedDescending(): List<Byte> {
    return
    copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted descending according to their
 * natural sort order.
 */
public fun ShortArray.sortedDescending(): List<Short> {
    return
    copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted descending according to their
 * natural sort order.
 */
public fun IntArray.sortedDescending(): List<Int> {
    return
    copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted descending according to their
 * natural sort order.
 */
public fun LongArray.sortedDescending(): List<Long> {
    return
    copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted descending according to their
 * natural sort order.
 */
public fun FloatArray.sortedDescending(): List<Float> {
    return
    copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted descending according to their
 * natural sort order.
 */
public fun DoubleArray.sortedDescending(): List<Double> {
    return
    copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted descending according to their
 * natural sort order.
 */
public fun BooleanArray.sortedDescending(): List<Boolean> {
    return
    copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted descending according to their
 * natural sort order.
 */
public fun CharArray.sortedDescending(): List<Char> {
    return
    copyOf().apply { sort() }.reversed()
natural sort order. `*/`

public fun ShortArray.sortedDescending(): List<Short> {
    return copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 */
public fun IntArray.sortedDescending(): List<Int> {
    return copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 */
public fun LongArray.sortedDescending(): List<Long> {
    return copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 */
public fun FloatArray.sortedDescending(): List<Float> {
    return copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 */
public fun DoubleArray.sortedDescending(): List<Double> {
    return copyOf().apply { sort() }.reversed()
}

/**
 * Returns a list of all elements sorted according to the specified comparator.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {
    return sortedArrayWith(comparator).asList()
}

/**
 * Returns a list of all elements sorted according to the specified comparator.
 */
public fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified comparator.
 */
public fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified comparator.
 */
public fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified comparator.
 */
public fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified comparator.
 */
public fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified comparator.
 */
public fun DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified comparator.
 */
public fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns `true` if the two specified arrays are *deeply* equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 * 
 * If any of arrays contains itself on any nesting level the behavior is undefined.
 * The elements of other types are compared for equality with the [equals] function.
 * For floating point numbers it means that NaN is equal to itself and ~0.0 is not equal to 0.0.
 * @SinceKotlin("1.1")
 * @kotlin.internal.LowPriorityInOverloadResolution
 */
public expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean
specified arrays are *deeply* equal to one another.

* i.e. contain the same number of the same elements in the same order.
* 
* The specified arrays are also considered deeply equal if both are `null`.
* 
* If two corresponding elements are nested arrays, they are also compared deeply.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* The elements of other types are compared for equality with the
* 
* [equals][Any.equals] function.
* 
* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* Nested arrays are treated as lists too.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* The specified arrays are also considered deeply equal if both are `null`.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* Nested arrays are treated as lists too.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* The specified arrays are also considered deeply equal if both are `null`.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* Nested arrays are treated as lists too.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* The specified arrays are also considered deeply equal if both are `null`.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* Nested arrays are treated as lists too.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* The specified arrays are also considered deeply equal if both are `null`.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* Nested arrays are treated as lists too.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* The specified arrays are also considered deeply equal if both are `null`.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* Nested arrays are treated as lists too.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
* 
* The specified arrays are also considered deeply equal if both are `null`.
* 
* If any of arrays contains itself on any nesting level the behavior is undefined.
LongArray.contentEquals(other: LongArray): Boolean

* Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

* The elements are compared for equality with the [equals][Any.equals] function.

* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

* For the elements contained in the same order.

* The elements are compared for equality with the [equals][Any.equals] function.

* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

* For the elements contained in the same order.
```kotlin
/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order,\n * the elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not\n * equal to `0.0`.\n */
@SinceKotlin("1.4")
public expect infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order,\n * the elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */
@SinceKotlin("1.4")
public expect infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order,\n * the elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */
@SinceKotlin("1.4")
public expect infix fun CharArray?.contentEquals(other: CharArray?): Boolean
```

---

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hash code based on the contents of this array as if it is [List].
*\n@SinceKotlin("1.4")\npublic expect fun
BooleanArray?.contentHashCode(): Int\n*\n@SinceKotlin("1.4")\npublic expect fun
CharArray?.contentHashCode(): Int\n*\n@SinceKotlin("1.4")\npublic expect fun
CharArray?.contentHashCode(): Int\n*\n@SinceKotlin("1.4")\npublic expect fun
ByteArray?.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.4")
public expect fun CharArray?.contentHashCode(): Int

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public expect fun <T> Array<T>.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun ShortArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun IntArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun LongArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun FloatArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun DoubleArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun BooleanArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun CharArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun ShortArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun
ByteArray?.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun
CharArray?.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun
CharArray?.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * @sample
 * samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun
IntArray?.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun LongArray?.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun FloatArray?.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun DoubleArray?.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun BooleanArray?.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
public expect fun CharArray?.contentToString(): String

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun IntArray?.copyInto(destination: IntArray?, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray?
0 by default. 

* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. 

* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of this array indices or when ’startIndex > endIndex’. 

* @throws IndexOutOfBoundsException when the subrange doesn’t fit into the [destination] array starting at the specified [destinationOffset], 

* or when that index is out of the [destination] array indices range. 

* @return return the [destination] array.

* @SinceKotlin(”1.3”)

public expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray 

* Copies this array or its subrange into the [destination] array and returns that array. 

* It’s allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. 

* @param destination the array to copy to. 

* @param destinationOffset the position in the [destination] array to copy to, 0 by default. 

* @param startIdx the beginning (inclusive) of the subrange to copy, 0 by default. 

* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. 

* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of this array indices or when ’startIndex > endIndex’. 

* @throws IndexOutOfBoundsException when the subrange doesn’t fit into the [destination] array starting at the specified [destinationOffset], 

* or when that index is out of the [destination] array indices range. 

* @return return the [destination] array.

* @SinceKotlin(”1.3”)

public expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray 

* Copies this array or its subrange into the [destination] array and returns that array. 

* It’s allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. 

* @param destination the array to copy to. 

* @param destinationOffset the position in the [destination] array to copy to, 0 by default. 

* @param startIdx the beginning (inclusive) of the subrange to copy, 0 by default. 

* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. 

* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of this array indices or when ’startIndex > endIndex’. 

* @throws IndexOutOfBoundsException when the subrange doesn’t fit into the [destination] array starting at the specified [destinationOffset], 

* or when that index is out of the [destination] array indices range. 

* @return return the [destination] array.

* @SinceKotlin(”1.3”)

public expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray 

* Copies this array or its subrange into the [destination] array and returns that array. 

* It’s allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. 

* @param destination the array to copy to. 

* @param destinationOffset the position in the [destination] array to copy to, 0 by default. 

* @param startIdx the beginning (inclusive) of the subrange to copy, 0 by default. 

* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. 

* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of this array indices or when ’startIndex > endIndex’. 

* @throws IndexOutOfBoundsException when the subrange doesn’t fit into the [destination] array starting at the specified [destinationOffset], 

* or when that index is out of the [destination] array indices range. 

* @return return the [destination] array.

* @SinceKotlin(”1.3”)

public expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray 

* Copies this array or its subrange into the [destination] array and returns that array. 

* It’s allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. 

* @param destination the array to copy to. 

* @param destinationOffset the position in the [destination] array to copy to, 0 by default. 

* @param startIdx the beginning (inclusive) of the subrange to copy, 0 by default. 

* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. 

* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of this array indices or when ’startIndex > endIndex’. 

* @throws IndexOutOfBoundsException when the subrange doesn’t fit into the [destination] array starting at the specified [destinationOffset], 

* or when that index is out of the [destination] array indices range. 

* @return return the [destination] array.
Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray

```kotlin
/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array into the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destinationOffset the position in the [destination] array to copy to.
 * @param destination the array to copy from.
 * @param startInt the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endInt the end (exclusive) of the subrange to copy, size of this array by default.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray
```

```kotlin
/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect fun <T> Array<T>.copyOf(): Array<T>
```

```kotlin
/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public expect fun BooleanArray.copyOf(newSize: Int): BooleanArray
```

```kotlin
Int = 0, startInt: Int = 0, endInt: Int = size): BooleanArray
```
If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].

The copy is either truncated or padded at the end with zero values if necessary.

If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].

The copy is either truncated or padded at the end with `false` values if necessary.

If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].

The extra elements in the copy array are filled with null char (`\u0000`) values.

If [newSize] is greater than the size of the original array, the copy array is truncated to the [newSize].

The extra elements in the copy array are filled with `null` values.

@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
IllegalArgumentException if [fromIndex] is greater than [toIndex].

//public expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray
// * @param fromIndex the start of the range (inclusive) to copy.
// * @param toIndex the end of the range (exclusive) to copy.
// Returns a new array which is a copy of the specified range of the original array.

//public expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray
// * @param fromIndex the start of the range (inclusive) to copy.
// * @param toIndex the end of the range (exclusive) to copy.
// Returns a new array which is a copy of the specified range of the original array.

//public expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray
// * @param fromIndex the start of the range (inclusive) to copy.
// * @param toIndex the end of the range (exclusive) to copy.
// Returns a new array which is a copy of the specified range of the original array.

//public expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray
// * @param fromIndex the start of the range (inclusive) to copy.
// * @param toIndex the end of the range (exclusive) to copy.
// Returns a new array which is a copy of the specified range of the original array.

//public expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray
// * @param fromIndex the start of the range (inclusive) to copy.
// * @param toIndex the end of the range (exclusive) to copy.
// Returns a new array which is a copy of the specified range of the original array.

//public expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray
// * @param fromIndex the start of the range (inclusive) to copy.
// * @param toIndex the end of the range (exclusive) to copy.
// Returns a new array which is a copy of the specified range of the original array.

//@SinceKotlin("1.3")
//public expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit
// Fills this array or its subrange with the specified [element] value.
// * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
// * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
// * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
// * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

//@SinceKotlin("1.3")
//public expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit
// Fills this array or its subrange with the specified [element] value.
// * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
// * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
// * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
// * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

//@SinceKotlin("1.3")
//public expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit
// Fills this array or its subrange with the specified [element] value.
// * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
// * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
// * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
// * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

//@SinceKotlin("1.3")
//public expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit
// Fills this array or its subrange with the specified [element] value.
// * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
// * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
// * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
// * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

//@SinceKotlin("1.3")
//public expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit
// Fills this array or its subrange with the specified [element] value.
// * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
// * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
// * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
// * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

//@SinceKotlin("1.3")
//public expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit
// Fills this array or its subrange with the specified [element] value.
// * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
// * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
// * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
// * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n  * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n  * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n  * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n  * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n  * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n  * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n  * Fills this array or its subrange with the specified [element] value.\n  * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n  * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n  * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n  * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n  */
@SinceKotlin("1.3")
public expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit\n  * Fills this array or its subrange with the specified [element] value.\n  * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n  * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n  * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n  * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n  */
@SinceKotlin("1.3")
public expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit\n  * Fills this array or its subrange with the specified [element] value.\n  * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n  * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n  * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n  * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n  */
@SinceKotlin("1.3")
public expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit\n  * Fills this array or its subrange with the specified [element] value.\n  * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n  * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n  * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n  * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n  */
@SinceKotlin("1.3")
public expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit\n  * Property getter for the range of valid indices for the array.\n  */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.isEmpty(): Boolean {
    return size == 0
}
BooleanArray.isEmpty(): Boolean | n return size == 0 | n |
*\n* Returns `true` if the array is empty.

BooleanArray.isArrayNotEmpty(): Boolean | n return size == 0 | n |
* Returns `true` if the array is not empty.

ByteArray.isEmpty(): Boolean | n return size == 0 | n |
* Returns `true` if the array is empty.

CharArray.isEmpty(): Boolean | n return size == 0 | n |
* Returns `true` if the array is empty.

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* Returns `true` if the array is not empty.

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* Returns `true` if the array is not empty.

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* Returns `true` if the array is not empty.
IntArray.plus(elements: Collection<Int>): IntArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
public expect operator fun LongArray.plus(elements: Collection<Long>): LongArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
public expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
public expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
public expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
public expect operator fun CharArray.plus(elements: Collection<Char>): CharArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun IntArray.sort(): Unit

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun LongArray.sort(): Unit

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun ByteArray.sort(): Unit

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun ShortArray.sort(): Unit

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun DoubleArray.sort(): Unit

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun FloatArray.sort(): Unit

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun CharArray.sort(): Unit

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun <T: Comparable> Array<T>.sort(): Unit

@Throws(IndexOutOfBoundsException::class, IllegalArgumentException::class)
private fun sort(array: Array<in T>, index: Int, toIndex: Int): Array<in T> { ... }
[fromIndex] is greater than [toIndex].

@sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable

public expect fun <T : Comparable<T>> Array<T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

@sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable

public expect fun <T : Comparable<T>> Array<T>.sortDescending(fromIndex: Int = 0, toIndex: Int = size): Unit

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

@sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable

public expect fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

@sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable

public expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

@sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable

public expect fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

@sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable

public expect fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

@sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable

public expect fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

@sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable

public expect fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
toIndex: Int): Unit {\n    sortWith(reverseOrder(), fromIndex, toIndex)\n}\n
/**
 * Sorts elements of the array in the specified range in-place.
 * The elements are sorted descending according to their natural sort order.\n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}

/**
 * Sorts elements of the array in the specified range in-place.
 * The elements are sorted descending according to their natural sort order.\n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun ShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}

/**
 * Sorts elements of the array in the specified range in-place.
 * The elements are sorted descending according to their natural sort order.\n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun IntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}

/**
 * Sorts elements of the array in the specified range in-place.
 * The elements are sorted descending according to their natural sort order.\n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun LongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}

/**
 * Sorts elements of the array in the specified range in-place.
 * The elements are sorted descending according to their natural sort order.\n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun FloatArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}

/**
 * Sorts elements of the array in the specified range in-place.
 * The elements are sorted descending according to their natural sort order.\n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun DoubleArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}

/**
 * Sorts elements of the array in the specified range in-place.
 * The elements are sorted descending according to their natural sort order.\n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}

/**
 * Sorts the array in-place according to the order specified by the given [comparator].\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * @param comparator\n */\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit

/**
 * Sorts a range in the array in-place with the given [comparator].\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n */\n@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
@throws IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].
(exclusive) to sort, size of this array by default.

```kotlin
public expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun ByteArray.sortWith(comparator: Comparator<in Byte>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun ShortArray.sortWith(comparator: Comparator<in Short>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun IntArray.sortWith(comparator: Comparator<in Int>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun LongArray.sortWith(comparator: Comparator<in Long>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun FloatArray.sortWith(comparator: Comparator<in Float>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun DoubleArray.sortWith(comparator: Comparator<in Double>, fromIndex: Int = 0, toIndex: Int = size): Unit
```

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

```kotlin
public expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun ByteArray.sortWith(comparator: Comparator<in Byte>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun ShortArray.sortWith(comparator: Comparator<in Short>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun IntArray.sortWith(comparator: Comparator<in Int>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun LongArray.sortWith(comparator: Comparator<in Long>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun FloatArray.sortWith(comparator: Comparator<in Float>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun DoubleArray.sortWith(comparator: Comparator<in Double>, fromIndex: Int = 0, toIndex: Int = size): Unit
```

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

```kotlin
private fun ByteArray.sortWith(comparator: Comparator<in Byte>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun ShortArray.sortWith(comparator: Comparator<in Short>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun IntArray.sortWith(comparator: Comparator<in Int>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun LongArray.sortWith(comparator: Comparator<in Long>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun FloatArray.sortWith(comparator: Comparator<in Float>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun DoubleArray.sortWith(comparator: Comparator<in Double>, fromIndex: Int = 0, toIndex: Int = size): Unit
```

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

```kotlin
private fun ByteArray.sortWith(comparator: Comparator<in Byte>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun ShortArray.sortWith(comparator: Comparator<in Short>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun IntArray.sortWith(comparator: Comparator<in Int>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun LongArray.sortWith(comparator: Comparator<in Long>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun FloatArray.sortWith(comparator: Comparator<in Float>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun DoubleArray.sortWith(comparator: Comparator<in Double>, fromIndex: Int = 0, toIndex: Int = size): Unit
```

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

```kotlin
private fun ByteArray.sortWith(comparator: Comparator<in Byte>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun ShortArray.sortWith(comparator: Comparator<in Short>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun IntArray.sortWith(comparator: Comparator<in Int>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun LongArray.sortWith(comparator: Comparator<in Long>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun FloatArray.sortWith(comparator: Comparator<in Float>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun DoubleArray.sortWith(comparator: Comparator<in Double>, fromIndex: Int = 0, toIndex: Int = size): Unit
```

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

```kotlin
private fun ByteArray.sortWith(comparator: Comparator<in Byte>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun ShortArray.sortWith(comparator: Comparator<in Short>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun IntArray.sortWith(comparator: Comparator<in Int>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun LongArray.sortWith(comparator: Comparator<in Long>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun FloatArray.sortWith(comparator: Comparator<in Float>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun DoubleArray.sortWith(comparator: Comparator<in Double>, fromIndex: Int = 0, toIndex: Int = size): Unit
```

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

```kotlin
private fun ByteArray.sortWith(comparator: Comparator<in Byte>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun ShortArray.sortWith(comparator: Comparator<in Short>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun IntArray.sortWith(comparator: Comparator<in Int>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun LongArray.sortWith(comparator: Comparator<in Long>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun FloatArray.sortWith(comparator: Comparator<in Float>, fromIndex: Int = 0, toIndex: Int = size): Unit

private fun DoubleArray.sortWith(comparator: Comparator<in Double>, fromIndex: Int = 0, toIndex: Int = size): Unit
```
transform)\n|\n|\n/**\n|\n|\n| Returns a [Map] containing key-value pairs provided by [transform] function\n| applied to elements of the given array.\n| * * * * If any of two pairs would have the same key the last one gets added to the\n| map.\n| * * * * The returned map preserves the entry iteration order of the original array.\n| */\n
public inline fun <K, V> IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n  val capacity =\n  mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),\n  transform)\n}

/**\n|\n|\n| Returns a [Map] containing key-value pairs provided by [transform] function\n| applied to elements of the given array.\n| * * * * If any of two pairs would have the same key the last one gets added to the\n| map.\n| * * * * The returned map preserves the entry iteration order of the original array.\n| */\n
public inline fun <K, V> LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n  val capacity =\n  mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),\n  transform)\n}

/**\n|\n|\n| Returns a [Map] containing key-value pairs provided by [transform] function\n| applied to elements of the given array.\n| * * * * If any of two pairs would have the same key the last one gets added to the\n| map.\n| * * * * The returned map preserves the entry iteration order of the original array.\n| */\n
public inline fun <K, V> FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n  val capacity =\n  mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),\n  transform)\n}

/**\n|\n|\n| Returns a [Map] containing key-value pairs provided by [transform] function\n| applied to elements of the given array.\n| * * * * If any of two pairs would have the same key the last one gets added to the\n| map.\n| * * * * The returned map preserves the entry iteration order of the original array.\n| */\n
public inline fun <K, V> DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n  val capacity =\n  mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),\n  transform)\n}

/**\n|\n|\n| Returns a [Map] containing key-value pairs provided by [transform] function\n| applied to elements of the given array.\n| * * * * If any of two pairs would have the same key the last one gets added to the\n| map.\n| * * * * The returned map preserves the entry iteration order of the original array.\n| */\n
public inline fun <K, V> BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n  val capacity =\n  mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),\n  transform)\n}

/**\n|\n|\n| Returns a [Map] containing the elements from the given array indexed by the key\n| returned from [keySelector] function applied to each element.\n| * * * * If any two elements would have the same key returned by [keySelector] the last one gets added to the\n| map.\n| * * * * The returned map preserves the entry iteration order of the original array.\n| */\n
public inline fun <K, V> CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n  val capacity =\n  mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),\n  transform)\n}

/**\n|\n|\n| Returns a [Map] containing the elements from the given array indexed by the key\n| returned from [keySelector] function applied to each element.\n| * * * * If any two elements would have the same key returned by [keySelector] the last one gets added to the\n| map.\n| * * * * The returned map preserves the entry iteration order of the original array.\n| */\n
public inline fun <T, K> Array<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n  val capacity =\n  mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, T>(capacity),\n  keySelector)\n}

/**\n|\n|\n| Returns a [Map] containing the elements from the given array indexed by the key\n| returned from [keySelector] function applied to each element.\n| * * * * If any two elements would have the same key returned by [keySelector] the last one gets added to the\n| map.\n| * * * * The returned map preserves the entry iteration order of the original array.\n| */\n
public inline fun <T, K> Array<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n  val capacity =\n  mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, T>(capacity),\n  keySelector)\n}
ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Byte>(capacity), keySelector)
}

/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K> ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Short>(capacity), keySelector)
}

/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K> IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Int>(capacity), keySelector)
}

/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K> LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Long>(capacity), keySelector)
}

/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K> FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Float>(capacity), keySelector)
}

/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K> DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Double>(capacity), keySelector)
}

/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K> BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Boolean>(capacity), keySelector)
}
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy

/*public inline fun <K, V> CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Char>(capacity),
    keySelector)\n}\n*/

public inline fun <K>
CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Char>(capacity),
    keySelector)\n}\n
/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.
 * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
/*public inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n*/

public inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n
/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.
 * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
/*public inline fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n*/

public inline fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n
/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.
 * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
/*public inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n*/

public inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n
/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.
 * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
/*public inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n*/

public inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n
/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.
 * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
/*public inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n*/

public inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n
/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.
 * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
/*public inline fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n*/

public inline fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)\n}\n
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the entry iteration order of the original array.

@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByValueTransform

*\n/public inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
} *\n
*\n/public inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
} *\n
*\n/public inline fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
} *\n
*\n/public inline fun <T, K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
} *\n
*\n/public inline fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
} *\n
*\n/public inline fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
} *\n
*\n/public inline fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
} *\n
*\n/public inline fun <K, M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
for (element in this) {\n    destination.put(keySelector(element), element)\n} \nreturn destination
\n/* Populates and returns the [destination] mutable map with key-value pairs.\n   * where key is provided by the [keySelector] function applied to each element of the given array.\n   * and value is the element itself.\n   * If any two elements would have the same key returned by [keySelector]\n   * the last one gets added to the map.\n   */ \n@sample samples.collections.Transformations.associateArrayOfPrimitivesByTo\n*

/**
   * Populates and returns the [destination] mutable map with key-value pairs.\n   * where key is provided by the [keySelector] function applied to each element of the given array.\n   * and value is the element itself.\n   * If any two elements would have the same key returned by [keySelector]\n   * the last one gets added to the map.\n   */
public inline fun <K, M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)\n    } \nreturn destination
\n/* Populates and returns the [destination] mutable map with key-value pairs.\n   * where key is provided by the [keySelector] function applied to each element of the given array.\n   * and value is the element itself.\n   * If any two elements would have the same key returned by [keySelector]\n   * the last one gets added to the map.\n   */
@sample samples.collections.Transformations.associateArrayOfPrimitivesByTo\n*

/**
   * Populates and returns the [destination] mutable map with key-value pairs.\n   * where key is provided by the [keySelector] function applied to each element of the given array.\n   * and value is the element itself.\n   * If any two elements would have the same key returned by [keySelector]\n   * the last one gets added to the map.\n   */
public inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)\n    } \nreturn destination
\n/* Populates and returns the [destination] mutable map with key-value pairs.\n   * where key is provided by the [keySelector] function applied to each element of the given array.\n   * and value is the element itself.\n   * If any two elements would have the same key returned by [keySelector]\n   * the last one gets added to the map.\n   */
@sample samples.collections.Transformations.associateArrayOfPrimitivesByTo\n*

/**
   * Populates and returns the [destination] mutable map with key-value pairs.\n   * where key is provided by the [keySelector] function applied to each element of the given array.\n   * and value is the element itself.\n   * If any two elements would have the same key returned by [keySelector]\n   * the last one gets added to the map.\n   */
public inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)\n    } \nreturn destination
\n/* Populates and returns the [destination] mutable map with key-value pairs.\n   * where key is provided by the [keySelector] function and\n   * and value is provided by the [valueTransform] function applied to elements of the given array.\n   */
@sample samples.collections.Transformations.associateArrayOfPrimitivesByTo\n*

/**
   * Populates and returns the [destination] mutable map with key-value pairs.\n   * where key is provided by the [keySelector] function and\n   * and value is provided by the [valueTransform] function applied to elements of the given array.\n   */
@sample samples.collections.Transformations.associateArrayOfPrimitivesByTo\n*

/**
   * Populates and returns the [destination] mutable map with key-value pairs.\n   * where key is provided by the [keySelector] function and\n   * and value is provided by the [valueTransform] function applied to elements of the given array.\n   */
@sample samples.collections.Transformations.associateArrayOfPrimitivesByTo\n*

/**
   * Populates and returns the [destination] mutable map with key-value pairs.\n   * where key is provided by the [keySelector] function and\n   * and value is provided by the [valueTransform] function applied to elements of the given array.\n   */
@sample samples.collections.Transformations.associateArrayOfPrimitivesByTo\n*

/**
   * Populates and returns the [destination] mutable map with key-value pairs.\n   * where key is provided by the [keySelector] function and\n   * and value is provided by the [valueTransform] function applied to elements of the given array.\n   */
@sample samples.collections.Transformations.associateArrayOfPrimitivesByTo\n*
the [valueTransform] function applied to elements of the given array.* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.* * @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}*/

    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}*/

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}*/

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}*/

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}*/

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}*/

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}*/

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}*/

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}*/

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}*/

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}*/

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}*/

/*\npublic inline fun <K, V, M : MutableMap<*in K, *in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}*/

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@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesToMutableMap*/@sample inline fun <K, V, M : MutableMap<K, V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesToMutableMap*/@sample inline fun <K, V, M : MutableMap<K, V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesToMutableMap*/@sample inline fun <K, V, M : MutableMap<K, V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesToMutableMap*/@sample inline fun <K, V, M : MutableMap<K, V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesToMutableMap*/@sample inline fun <K, V, M : MutableMap<K, V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesToMutableMap*/@sample inline fun <K, V, M : MutableMap<K, V>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesToMutableMap*/@sample inline fun <K, V, M : MutableMap<K, V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesToMutableMap*/@sample inline fun <K, V, M : MutableMap<K, V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

// Returns a Map where keys are elements from the given array and values are produced by [valueSelector] function applied to each element of the given array.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesToMap*/@sample inline fun <K, V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> {
    val result = LinkedHashSet<K>(size).coerceAtLeast(16)@sample Collections.Transformations.associateWithTo(result, { k -> valueSelector(t) })
    return result
}
valueSelector) Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

@sample samples.collections.Collections.Transformations.associateWith

ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

ShortArray.associateWith(valueSelector: (Short) -> V): Map<Short, V> Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

IntArray.associateWith(valueSelector: (Int) -> V): Map<Int, V> Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

LongArray.associateWith(valueSelector: (Long) -> V): Map<Long, V> Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

FloatArray.associateWith(valueSelector: (Float) -> V): Map<Float, V> Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

DoubleArray.associateWith(valueSelector: (Double) -> V): Map<Double, V> Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.
LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a [Map] where keys are elements from the given array and values are
produced by the [valueSelector] function applied to each element.
* If any two elements are equal, the last one gets added to the map.
The returned map preserves the entry iteration order of the original array.
* @sample samples.collections.Collections.Transformations.associateWith
*/
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
    CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {
    val result = LinkedHashMap<Char, V>(mapCapacity(size.coerceAtMost(128)).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a [Map] where keys are elements from the given array and values are
produced by the [valueSelector] function applied to each key.
* If any two elements are equal, the last one overwrites the former value in the map.
* @sample samples.collections.Collections.Transformations.associateWith
*/
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in K, in V>>
    K, V : MutableMap<in K, in V>> Array<out K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array, where key is the element itself and value is provided by the [valueSelector] function applied
to that key.
* If any two elements are equal, the last one overwrites the former value in the map.
* @sample samples.collections.Collections.Transformations.associateWithTo
*/
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Byte, in V>>
    ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array, where key is the element itself and value is provided by the [valueSelector] function applied
to that key.
* If any two elements are equal, the last one overwrites the former value in the map.
* @sample samples.collections.Collections.Transformations.associateWithTo
*/
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Short, in V>>
    ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array, where key is the element itself and value is provided by the [valueSelector] function applied
to that key.
* If any two elements are equal, the last one overwrites the former value in the map.
* @sample samples.collections.Collections.Transformations.associateWithTo
*/
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Int, in V>>
    IntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array, where key is the element itself and value is provided by the [valueSelector] function applied
to that key.
* If any two elements are equal, the last one overwrites the former value in the map.
* @sample samples.collections.Collections.Transformations.associateWithTo
*/
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Long, in V>>
    LongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array, where key is the element itself and value is provided by the [valueSelector] function applied
to that key.
* If any two elements are equal, the last one overwrites the former value in the map.
* @sample samples.collections.Collections.Transformations.associateWithTo
*/
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Float, in V>>
    FloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}
destination.put(element, valueSelector(element))
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,
 * where key is the element itself and value is provided by the [valueSelector] function applied to that key.
 * If any two elements are equal, the last one overwrites the former value in the map.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Double, in V>> DoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,
 * where key is the element itself and value is provided by the [valueSelector] function applied to that key.
 * If any two elements are equal, the last one overwrites the former value in the map.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Boolean, in V>> BooleanArray.associateWithTo(destination: M, valueSelector: (Boolean) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,
 * where key is the element itself and value is provided by the [valueSelector] function applied to that key.
 * If any two elements are equal, the last one overwrites the former value in the map.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Char, in V>> CharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <T> Array<out T>.toHashSet(): HashSet<T> {
    return toCollection(HashSet<T>(mapCapacity(size)))
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun ByteArray.toHashSet(): HashSet<Byte> {
    return toCollection(HashSet<Byte>(mapCapacity(size)))
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun ShortArray.toHashSet(): HashSet<Short> {
    return toCollection(HashSet<Short>(mapCapacity(size)))
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun DoubleArray.toHashSet(): HashSet<Double> {
    return toCollection(HashSet<Double>(mapCapacity(size)))
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun BooleanArray.toHashSet(): HashSet<Boolean> {
    return toCollection(HashSet<Boolean>(mapCapacity(size)))
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun CharArray.toHashSet(): HashSet<Char> {
    return toCollection(HashSet<Char>(mapCapacity(size)))
}

/**
 * Returns a new [HashSet] of all elements.
 */
public fun <T> Array<out T>.toHashSet(): HashSet<T> {
    return toCollection(HashSet<T>(mapCapacity(size)))
}

/**
 * Returns a new [HashSet] of all elements.
 */
public fun ByteArray.toHashSet(): HashSet<Byte> {
    return toCollection(HashSet<Byte>(mapCapacity(size)))
}

/**
 * Returns a new [HashSet] of all elements.
 */
public fun ShortArray.toHashSet(): HashSet<Short> {
    return toCollection(HashSet<Short>(mapCapacity(size)))
}

/**
 * Returns a new [HashSet] of all elements.
 */
public fun DoubleArray.toHashSet(): HashSet<Double> {
    return toCollection(HashSet<Double>(mapCapacity(size)))
}

/**
 * Returns a new [HashSet] of all elements.
 */
public fun BooleanArray.toHashSet(): HashSet<Boolean> {
    return toCollection(HashSet<Boolean>(mapCapacity(size)))
}

/**
 * Returns a new [HashSet] of all elements.
 */
public fun CharArray.toHashSet(): HashSet<Char> {
    return toCollection(HashSet<Char>(mapCapacity(size)))
}
toCollection(HashSet<Short>(mapCapacity(size)))
} \n
/**
 * Returns a new [HashSet] of all elements.
 */
public fun IntArray.toHashSet(): HashSet<Int> {
    return toCollection(HashSet<Int>(mapCapacity(size)))
}

/**
 * Returns a new [HashSet] of all elements.
 */
public fun LongArray.toHashSet(): HashSet<Long> {
    return toCollection(HashSet<Long>(mapCapacity(size)))
}

/**
 * Returns a new [HashSet] of all elements.
 */
public fun FloatArray.toHashSet(): HashSet<Float> {
    return toCollection(HashSet<Float>(mapCapacity(size)))
}

/**
 * Returns a new [HashSet] of all elements.
 */
public fun DoubleArray.toHashSet(): HashSet<Double> {
    return toCollection(HashSet<Double>(mapCapacity(size)))
}

/**
 * Returns a new [HashSet] of all elements.
 */
public fun BooleanArray.toHashSet(): HashSet<Boolean> {
    return toCollection(HashSet<Boolean>(mapCapacity(size)))
}

/**
 * Returns a new [HashSet] of all elements.
 */
public fun CharArray.toHashSet(): HashSet<Char> {
    return toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))
}

/**
 * Returns a [List] containing all elements.
 */
public fun <T> Array<out T>.toList(): List<T> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun ByteArray.toList(): List<Byte> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun ShortArray.toList(): List<Short> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun IntArray.toList(): List<Int> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun LongArray.toList(): List<Long> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun FloatArray.toList(): List<Float> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun DoubleArray.toList(): List<Double> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun BooleanArray.toList(): List<Boolean> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun CharArray.toList(): List<Char> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun ByteArray.toMutableList(): MutableList<Byte> {
    val list = ArrayList<Byte>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun ShortArray.toMutableList(): MutableList<Short> {
    val list = ArrayList<Short>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun IntArray.toMutableList(): MutableList<Int> {
    val list = ArrayList<Int>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun LongArray.toMutableList(): MutableList<Long> {
    val list = ArrayList<Long>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun FloatArray.toMutableList(): MutableList<Float> {
    val list = ArrayList<Float>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun DoubleArray.toMutableList(): MutableList<Double> {
    val list = ArrayList<Double>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun BooleanArray.toMutableList(): MutableList<Boolean> {
    val list = ArrayList<Boolean>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun CharArray.toMutableList(): MutableList<Char> {
    val list = ArrayList<Char>(size.coerceAtMost(128))
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun <T> Array<out T>.toMutableList(): MutableList<T> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun ByteArray.toMutableList(): MutableList<Byte> {
    val list = ArrayList<Byte>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun ShortArray.toMutableList(): MutableList<Short> {
    val list = ArrayList<Short>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun IntArray.toMutableList(): MutableList<Int> {
    val list = ArrayList<Int>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun LongArray.toMutableList(): MutableList<Long> {
    val list = ArrayList<Long>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun FloatArray.toMutableList(): MutableList<Float> {
    val list = ArrayList<Float>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun DoubleArray.toMutableList(): MutableList<Double> {
    val list = ArrayList<Double>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun BooleanArray.toMutableList(): MutableList<Boolean> {
    val list = ArrayList<Boolean>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a new [MutableList] filled with all elements of this array.
 */
public fun CharArray.toMutableList(): MutableList<Char> {
    val list = ArrayList<Char>(size.coerceAtMost(128))
    for (item in this) list.add(item)
    return list
}
CharArray.toMutableList(): MutableList<Char> {
    val list = ArrayList<Char>(size)
    for (item in this)
        list.add(item)
    return list
}

/**
 * Returns a [Set] of all elements.
 * The returned set preserves the element iteration order of the original array.
 */
public fun <T> Array<out T>.toSet(): Set<T> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
            toCollection(LinkedHashSet<T>(mapCapacity(size))){
                |[n]n\u00*/n* Returns a [Set] of all elements.
            }
    }
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public fun <R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public fun <R> ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public fun <R> IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public fun <R> LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) }

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
@sample samples.collections.Collections.Transformations.flatMap

DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) }

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
@sample samples.collections.Collections.Transformations.flatMap

BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) }

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
@sample samples.collections.Collections.Transformations.flatMap

CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) }

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
@sample samples.collections.Collections.Transformations.flatMap

ByteArray.flatMapIndexed(transform: (Int, Byte) -> Iterable<R>): List<R> { return flatMapIndexedTo(ArrayList<R>(), transform) }

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
@sample samples.collections.Collections.Transformations.flatMap

ShortArray.flatMapIndexed(transform: (Int, Short) -> Iterable<R>): List<R> { return flatMapIndexedTo(ArrayList<R>(), transform) }

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
@sample samples.collections.Collections.Transformations.flatMap

IntArray.flatMapIndexed(transform: (Int, Int) -> Iterable<R>): List<R> { return flatMapIndexedTo(ArrayList<R>(), transform) }

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
@sample samples.collections.Collections.Transformations.flatMap

LongArray.flatMapIndexed(transform: (Int, Long) -> Iterable<R>): List<R> { return flatMapIndexedTo(ArrayList<R>(), transform) }

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
@sample samples.collections.Collections.Transformations.flatMap
flatMapIndexedTo(ArrayList<R>(), transform)\n\n**flatMapIndexedTo\n
*\n* @sample samples.collections.Collections.Transformations.flatMapIndexed

*\n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.jvm.JvmName("flatMapIndexedIterable")\n* @kotlin.internal.InlineOnly
*public inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> \n\n**flatMapIndexedTo\n
*\n* @sample samples.collections.Collections.Transformations.flatMapIndexed

*\n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.jvm.JvmName("flatMapIndexedIterable")\n* @kotlin.internal.InlineOnly
*public inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> \n\n**flatMapIndexedTo\n
*\n* @sample samples.collections.Collections.Transformations.flatMapIndexed

*\n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.jvm.JvmName("flatMapIndexedIterable")\n* @kotlin.internal.InlineOnly
*public inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> \n\n**flatMapIndexedTo\n
*\n* @sample samples.collections.Collections.Transformations.flatMapIndexed

*\n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.jvm.JvmName("flatMapIndexedIterable")\n* @kotlin.internal.InlineOnly
*public inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> \n\n**flatMapIndexedTo\n
*\n* @sample samples.collections.Collections.Transformations.flatMapIndexed

*\n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.jvm.JvmName("flatMapIndexedIterable")\n* @kotlin.internal.InlineOnly
*public inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, Byte) -> Iterable<R>): List<R> \n\n**flatMapIndexedTo\n
*\n* @sample samples.collections.Collections.Transformations.flatMapIndexed

*\n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.jvm.JvmName("flatMapIndexedIterable")\n* @kotlin.internal.InlineOnly
*public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): List<R> \n\n**flatMapIndexedTo\n
*\n* @sample samples.collections.Collections.Transformations.flatMapIndexed

*\n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.jvm.JvmName("flatMapIndexedIterable")\n* @kotlin.internal.InlineOnly
*public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): List<R> \n\n**flatMapIndexedTo\n
*\n* @sample samples.collections.Collections.Transformations.flatMapIndexed

*\n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.jvm.JvmName("flatMapIndexedIterable")\n* @kotlin.internal.InlineOnly
*public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): List<R> \n\n**flatMapIndexedTo\n
*\n* @sample samples.collections.Collections.Transformations.flatMapIndexed

*\n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.jvm.JvmName("flatMapIndexedIterable")\n* @kotlin.internal.InlineOnly
*public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): List<R> \n\n**flatMapIndexedTo\n
*\n* @sample samples.collections.Collections.Transformations.flatMapIndexed
ByLambdaReturnType

inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, Short) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element's * and its index in the original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType

inline fun <R, C : MutableCollection<in R>> IntArray.flatMapIndexedTo(destination: C, transform: (index: Int, Int) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element's * and its index in the original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType

inline fun <R, C : MutableCollection<in R>> LongArray.flatMapIndexedTo(destination: C, transform: (index: Int, Long) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element's * and its index in the original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType

inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapIndexedTo(destination: C, transform: (index: Int, Float) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element's * and its index in the original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType

inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index: Int, Double) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element's * and its index in the original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType

inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapIndexedTo(destination: C, transform: (index: Int, Boolean) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element's * and its index in the original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType

inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int, Char) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")
pu
blic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C, transform: (Double) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
Array\langle T, K \rangle$. groupBy(keySelector: (T) -> K): Map\langle K, List\langle T \rangle \rangle

```java
return groupByTo(LinkedHashMap\langle K, MutableList\langle T \rangle \rangle(), keySelector)\n```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

```java
samples.collections.Collections.Transformations.groupBy\n```

public inline fun \langle K \rangle

```java
ByteArray.groupBy(keySelector: (Byte) -> K): Map\langle K, List\langle Byte \rangle \rangle
```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

```java
samples.collections.Collections.Transformations.groupBy\n```

public inline fun \langle K \rangle

```java
ShortArray.groupBy(keySelector: (Short) -> K): Map\langle K, List\langle Short \rangle \rangle
```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

```java
samples.collections.Collections.Transformations.groupBy\n```

public inline fun \langle K \rangle

```java
IntArray.groupBy(keySelector: (Int) -> K): Map\langle K, List\langle Int \rangle \rangle
```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

```java
samples.collections.Collections.Transformations.groupBy\n```

public inline fun \langle K \rangle

```java
LongArray.groupBy(keySelector: (Long) -> K): Map\langle K, List\langle Long \rangle \rangle
```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

```java
samples.collections.Collections.Transformations.groupBy\n```

public inline fun \langle K \rangle

```java
FloatArray.groupBy(keySelector: (Float) -> K): Map\langle K, List\langle Float \rangle \rangle
```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

```java
samples.collections.Collections.Transformations.groupBy\n```

public inline fun \langle K \rangle

```java
DoubleArray.groupBy(keySelector: (Double) -> K): Map\langle K, List\langle Double \rangle \rangle
```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

```java
samples.collections.Collections.Transformations.groupBy\n```

public inline fun \langle K \rangle

```java
CharArray.groupBy(keySelector: (Char) -> K): Map\langle K, List\langle Char \rangle \rangle
```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

```java
samples.collections.Collections.Transformations.groupBy\n```

public inline fun \langle K \rangle

```java
BooleanArray.groupBy(keySelector: (Boolean) -> K): Map\langle K, List\langle Boolean \rangle \rangle
```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

```java
samples.collections.Collections.Transformations.groupBy\n```

public inline fun \langle K \rangle

```java
CharArray.groupBy(keySelector: (Char) -> K): Map\langle K, List\langle Char \rangle \rangle
```

Groups values returned by the [valueTransform] function applied to each element of the original array by the key returned by the given [keySelector] function applied to the
and returns a map where each group key is associated with a list of corresponding values. The returned map preserves the entry iteration order of the keys produced from the original array.

samples.collections.Collections.Transformations.groupByKeysAndValues

Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>>

ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>>

ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>>

IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>>

LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>>

FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>>

DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>>
returned by the given [keySelector] function applied to the element
* and returns a map where each group key is
associated with a list of corresponding values.
* * * * * The returned map preserves the entry iteration order of the
keys produced from the original array.
* * * * * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
* * * * * @return The
* [destination] map.
* * * * * @sample samples.collections.Collections.Transformations.groupBy
*/
public inline fun <K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key)
        { ArrayList<T>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
* * * * * @return The
* [destination] map.
* * * * * @sample samples.collections.Collections.Transformations.groupBy
*/
public inline fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key)
        { ArrayList<Byte>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
* * * * * @return The
* [destination] map.
* * * * * @sample samples.collections.Collections.Transformations.groupBy
*/
public inline fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key)
        { ArrayList<Short>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
* * * * * @return The
* [destination] map.
* * * * * @sample samples.collections.Collections.Transformations.groupBy
*/
public inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key)
        { ArrayList<Int>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
* * * * * @return The
* [destination] map.
* * * * * @sample samples.collections.Collections.Transformations.groupBy
*/
public inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key)
        { ArrayList<Long>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
* * * * * @return The
* [destination] map.
* * * * * @sample samples.collections.Collections.Transformations.groupBy
*/
public inline fun <K, M :MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list =
destination.getOrPut(key) { ArrayList<Float>() }\n        list.add(element)\n    }\n    return destination\n}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n */
public fun <K : MutableMap<K, MutableList<T>>, M : MutableList<M>> M.groupByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<T>() }\n        list.add(element)\n    }\n    return destination\n}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n */
fun <K, M : MutableList<out K>, T : Any> M.groupByTo(destination: M, keySelector: (K) -> T): M {
    for (element in this) {
        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<K>() }\n        list.add(element)\n    }\n    return destination\n}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n */
fun <K : Any, M : MutableList<out K>, T : Any> M.groupByTo(destination: M, keySelector: (K) -> T): M {
    for (element in this) {
        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<K>() }\n        list.add(element)\n    }\n    return destination\n}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n */
fun <K : Any, M : MutableList<out K>, T : Any> M.groupByTo(destination: M, keySelector: (K) -> T): M {
    for (element in this) {
        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<K>() }\n        list.add(element)\n    }\n    return destination\n}
destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array\n by the key returned by the given [keySelector] function applied to the element\n * and puts to the
 * [destination] map each group key associated with a list of corresponding values.\n *
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {
    \n    for (element in this) {
        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array\n by the key returned by the given [keySelector] function applied to the element\n * and puts to the
 * [destination] map each group key associated with a list of corresponding values.\n *
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    \n    for (element in this) {
        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array\n by the key returned by the given [keySelector] function applied to the element\n * and puts to the
 * [destination] map each group key associated with a list of corresponding values.\n *
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    \n    for (element in this) {
        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array\n by the key returned by the given [keySelector] function applied to the element\n * and puts to the
 * [destination] map each group key associated with a list of corresponding values.\n *
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    \n    for (element in this) {
        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array\n by the key returned by the given [keySelector] function applied to the element\n * and puts to the
 * [destination] map each group key associated with a list of corresponding values.\n *
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    \n    for (element in this) {
        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination
}

/**
 * Creates a [Grouping] source from an array to be used later with one of group-and-fold
 * operations\n * using the specified [keySelector] function to extract a key from each element.\n *
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */

@SinceKotlin("1.1")
public inline fun <T, K> Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {
    return object : Grouping<T, K> {
        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()
        override fun keyOf(element: T): K = keySelector(element)
    }
}

/**
 * Returns a list containing the results of applying
 * the given [transform] function\n * to each element in the original array.\n *
 * @sample samples.collections.Collections.Transformations.map\n */

public inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the
 * results of applying the given [transform] function\n * to each element in the original array.\n *
 * @sample samples.collections.Collections.Transformations.map\n */

public inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}
the transform applied to the element.

/*@param [transform] function that takes the index of an element and the element itself
* and returns the result of the transform applied to the element.
*/
public inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function
* to each element and its index in the original array.
* @param [transform] function that takes the index of an element and the element itself
* and returns the result of the transform applied to the element.
*/
public inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function
* to each element and its index in the original array.
* @param [transform] function that takes the index of an element and the element itself
* and returns the result of the transform applied to the element.
*/
public inline fun <T, R : Any> Array<out T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {
    return mapIndexedNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each element and its index in the original array
* and appends only the non-null results of applying the given [transform] function
* to each element and its index in the original array.
* @param [transform] function that takes the index of an element and the element itself
* and returns the result of the transform applied to the element.
*/
public inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
* and appends only the non-null results of applying the given [transform] function
* to each element and its index in the original array.
* @param [transform] function that takes the index of an element and the element itself
* and returns the result of the transform applied to the element.
*/
public inline fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedNotNullTo(destination: C, transform: (index: Int, Byte) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
* and appends only the non-null results of applying the given [transform] function
* to each element and its index in the original array.
* @param [transform] function that takes the index of an element and the element itself
* and returns the result of the transform applied to the element.
*/
public inline fun <R, C : MutableCollection<in R>> ShortArray.mapIndexedNotNullTo(destination: C, transform: (index: Int, Short) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
* and appends only the non-null results of applying the given [transform] function
* to each element and its index in the original array.
* @param [transform] function that takes the index of an element and the element itself
* and returns the result of the transform applied to the element.
*/
public inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedNotNullTo(destination: C, transform: (index: Int, Int) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
* and appends only the non-null results of applying the given [transform] function
* to each element and its index in the original array.
* @param [transform] function that takes the index of an element and the element itself
* and returns the result of the transform applied to the element.
*/
public inline fun <R, C : MutableCollection<in R>> LongArray.mapIndexedNotNullTo(destination: C, transform: (index: Int, Long) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
returns the result of the transform applied to the element.

```kotlin
FloatArray.mapIndexedTo(destination: C; transform: (index: Int, Float) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
DoubleArray.mapIndexedTo(destination: C; transform: (index: Int, Double) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
CharArray.mapIndexedTo(destination: C; transform: (index: Int, Char) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <T, R : Any>
Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}
```

Applies the given [transform] function to each element of the original array \n and appends only the non-null results to the given [destination].

```kotlin
public inline fun <T, R, C : MutableCollection<R>> Array<out T>.mapTo(destination: C, transform: (T) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
```

Applies the given [transform] function to each element of the original array \n and appends the results to the given [destination].

```kotlin
CharArray.mapTo(destination: C, transform: (Char) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
```

Applies the given [transform] function to each element of the original array \n and appends the results to the given [destination].

```kotlin
ShortArray.mapTo(destination: C; transform: (Short) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
```

Applies the given [transform] function to each element of the original array \n and appends the results to the given [destination].

```kotlin
ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
```

Applies the given [transform] function to each element of the original array \n and appends the results to the given [destination].

```kotlin
IntArray.mapTo(destination: C; transform: (Int) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
```

Applies the given [transform] function to each element of the original array \n and appends the results to the given [destination].

```kotlin
LongArray.mapTo(destination: C; transform: (Long) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
```

Applies the given [transform] function to each element of the original array \n and appends the results to the given [destination].

```kotlin
FloatArray.mapIndexedTo(destination: C; transform: (index: Int, Float) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
CharArray.mapIndexedTo(destination: C; transform: (index: Int, Char) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
BooleanArray.mapIndexedTo(destination: C; transform: (index: Int, Boolean) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
ByteArray.mapIndexedTo(destination: C; transform: (Byte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
```

Applies the given [transform] function to each element of the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
ShortArray.mapIndexedTo(destination: C; transform: (Short) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
IntArray.mapIndexedTo(destination: C; transform: (Int) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
```

Applies the given [transform] function to each element of the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
LongArray.mapIndexedTo(destination: C; transform: (Long) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
```

Applies the given [transform] function to each element of the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
FloatArray.mapIndexedTo(destination: C; transform: (Float) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
DoubleArray.mapIndexedTo(destination: C; transform: (Double) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element of the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
CharArray.mapIndexedTo(destination: C; transform: (Char) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C : MutableCollection<R>>
CharArray.mapIndexedTo(destination: C; transform: (Index: Int, Char) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C :MutableCollection<R>>
BooleanArray.mapIndexedTo(destination: C; transform: (Index: Int, Boolean) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C :MutableCollection<R>>
ByteArray.mapIndexedTo(destination: C; transform: (Index: Int, Byte) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C :MutableCollection<R>>
ShortArray.mapIndexedTo(destination: C; transform: (Index: Int, Short) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C :MutableCollection<R>>
IntArray.mapIndexedTo(destination: C; transform: (Index: Int, Int) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C :MutableCollection<R>>
LongArray.mapIndexedTo(destination: C; transform: (Index: Int, Long) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C :MutableCollection<R>>
FloatArray.mapIndexedTo(destination: C; transform: (Index: Int, Float) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C :MutableCollection<R>>
DoubleArray.mapIndexedTo(destination: C; transform: (Index: Int, Double) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].

```kotlin
public inline fun <R, C :MutableCollection<R>>
CharArray.mapIndexedTo(destination: C; transform: (Index: Int, Char) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array \n and appends the results to the given [destination].
public inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

public inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C, transform: (Char) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

public fun <T> Array<out T>.withIndex(): Iterable<IndexedValue<T>> {
    return IndexingIterable { iterator() }
}

public fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {
    return IndexingIterable { iterator() }
}

public fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {
    return IndexingIterable { iterator() }
}

public fun IntArray.withIndex(): Iterable<IndexedValue<Int>> {
    return IndexingIterable { iterator() }
}

public fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {
    return IndexingIterable { iterator() }
}

public fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {
    return IndexingIterable { iterator() }
}

public fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {
    return IndexingIterable { iterator() }
}

public fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {
    return IndexingIterable { iterator() }
}

public fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}

public fun <T> Array<out T>.distinct(): List<T> {
    return this.toMutableSet().toList()
}

public fun ByteArray.distinct(): List<Byte> {
    return this.toMutableSet().toList()
}

public fun ShortArray.distinct(): List<Short> {
    return this.toMutableSet().toList()
}

public fun IntArray.distinct(): List<Int> {
    return this.toMutableSet().toList()
}

public fun LongArray.distinct(): List<Long> {
    return this.toMutableSet().toList()
}

public fun FloatArray.distinct(): List<Float> {
    return this.toMutableSet().toList()
}

public fun DoubleArray.distinct(): List<Double> {
    return this.toMutableSet().toList()
}

public fun BooleanArray.distinct(): List<Boolean> {
    return this.toMutableSet().toList()
}

public fun CharArray.distinct(): List<Char> {
    return this.toMutableSet().toList()
}
were in the source array.

```
samples.collections.Collections.Transformations.distinctAndDistinctBy

@public fun FloatArray.distinct(): List<Float> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy
 */
public fun DoubleArray.distinct(): List<Double> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy
 */
public fun CharArray.distinct(): List<Char> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy
 */
public inline fun <T, K> Array<out T>.distinctBy(selector: (T) -> K): List<T> {
    val set = HashSet<K>()
    val list = ArrayList<T>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy
 */
public inline fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {
    val set = HashSet<K>()
    val list = ArrayList<Byte>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy
 */
public inline fun <K> ShortArray.distinctBy(selector: (Short) -> K): List<Short> {
    val set = HashSet<K>()
    val list = ArrayList<Short>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy
 */
public inline fun <K> IntArray.distinctBy(selector: (Int) -> K): List<Int> {
    val set = HashSet<K>()
    val list = ArrayList<Int>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy
 */
public inline fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {
    val set = HashSet<K>()
    val list = ArrayList<Long>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy
 */
public inline fun <K> FloatArray.distinctBy(selector: (Float) -> K): List<Float> {
    val set = HashSet<K>()
    val list = ArrayList<Float>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}
```
returned by the given \[selector\] function. The elements in the resulting list are in the same order as they were in the source array.

```kotlin
public inline fun <K>
DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {
    val set = HashSet<K>()
    val list = ArrayList<Double>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}
```

```kotlin
public inline fun <K>
BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {
    val set = HashSet<K>()
    val list = ArrayList<Boolean>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}
```

```kotlin
public inline fun <K>
CharArray.distinctBy(selector: (Char) -> K): List<Char> {
    val set = HashSet<K>()
    val list = ArrayList<Char>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}
```

```kotlin
public infix fun <T>
Array<out T>.intersect(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}
```

```kotlin
public infix fun 
ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}
```

```kotlin
public infix fun 
ShortArray.intersect(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}
```

```kotlin
public infix fun 
IntArray.intersect(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}
```

```kotlin
public infix fun 
LongArray.intersect(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}
```

```kotlin
public infix fun 
FloatArray.intersect(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}
```

```kotlin
public infix fun 
DoubleArray.intersect(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}
```

```kotlin
public infix fun 
CharArray.intersect(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}
```
one of these collections use \[\text{\texttt{union}}\].

//public infix fun BooleanArray.intersect(other: Iterable<Boolean>):
Set<Boolean> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

//public infix fun CharArray.intersect(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

//public infix fun <T> Array<Any>.subtract(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

//public fun <T> Array<out T>.toMutableSet(): MutableSet<T> {
    return toCollection(LinkedHashSet<T>())
}

@PublishedAPI
private fun IntArray.union(): Set<Int> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

@PublishedAPI
private fun ShortArray.union(): Set<Short> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

@PublishedAPI
private fun ByteArray.union(): Set<Byte> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

@PublishedAPI
private fun BooleanArray.union(): Set<Boolean> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

@PublishedAPI
private fun CharArray.union(): Set<Char> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

@PublishedAPI
private fun <T> Array<out T>.subtract(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

@PublishedAPI
private fun IntArray.subtract(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

@PublishedAPI
private fun ShortArray.subtract(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

@PublishedAPI
private fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

@PublishedAPI
private fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

@PublishedAPI
private fun CharArray.subtract(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

@PublishedAPI
private fun <T> Array<out T>.toMutableSet(): MutableSet<T> {
    return toCollection(LinkedHashSet<T>(mapCapacity(size)))
}

@PublishedAPI
private fun ByteArray.toMutableSet(): MutableSet<Byte> {
    return toCollection(LinkedHashSet<Byte>(mapCapacity(size)))
}

@PublishedAPI
private fun ShortArray.toMutableSet(): MutableSet<Short> {
    return toCollection(LinkedHashSet<Short>(mapCapacity(size)))
}

@PublishedAPI
private fun IntArray.toMutableSet(): MutableSet<Int> {
    return toCollection(LinkedHashSet<Int>(mapCapacity(size)))
}

@PublishedAPI
private fun BooleanArray.toMutableSet(): MutableSet<Boolean> {
    return toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
}

@PublishedAPI
private fun CharArray.toMutableSet(): MutableSet<Char> {
    return toCollection(LinkedHashSet<Char>(mapCapacity(size)))
}
array.

*public fun LongArray.toMutableSet(): MutableSet<Long> {
    return toCollection(LinkedHashSet<Long>(mapCapacity(size)))
}

*public fun FloatArray.toMutableSet(): MutableSet<Float> {
    return toCollection(LinkedHashSet<Float>(mapCapacity(size)))
}

*public fun DoubleArray.toMutableSet(): MutableSet<Double> {
    return toCollection(LinkedHashSet<Double>(mapCapacity(size)))
}

*public fun BooleanArray.toMutableSet(): MutableSet<Boolean> {
    return toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
}

*public fun CharArray.toMutableSet(): MutableSet<Char> {
    return toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))
}

*public infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun IntArray.union(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun LongArray.union(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun CharArray.union(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun IntArray.union(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun LongArray.union(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun CharArray.union(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun IntArray.union(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun LongArray.union(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun CharArray.union(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun IntArray.union(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun LongArray.union(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.addAll(other)
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    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun IntArray.union(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun LongArray.union(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun CharArray.union(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun IntArray.union(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun LongArray.union(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun DoubleArray.union(other:Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun CharArray.union(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun IntArray.union(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun LongArray.union(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun CharArray.union(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun IntArray.union(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun LongArray.union(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun CharArray.union(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix function
elements of the [other] collection that are unique are iterated in the order of the [other] collection.

* To get a set containing all elements that are contained in both collections use [intersect].

* Those elements of the [other] collection that are unique are iterated in the order of the [other] collection.

* To get a set containing all elements that are contained in both collections use [intersect].
isEmpty() * Returns `true` if array has at least one element.

public fun CharArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if array has at least one element matches the given [predicate].
 */
public fun CharArray.any(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
public inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {
    return count(predicate) > 0
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
public inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {
    return count(predicate) > 0
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
public inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {
    return count(predicate) > 0
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
public inline fun IntArray.any(predicate: (Int) -> Boolean): Boolean {
    return count(predicate) > 0
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
public inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {
    return count(predicate) > 0
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
public inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {
    return count(predicate) > 0
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
public inline fun DoubleArray.any(predicate: (Double) -> Boolean): Boolean {
    return count(predicate) > 0
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
public inline fun BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {
    return count(predicate) > 0
}

/**
 * Returns the number of elements in this array.
 */
public inline fun CharArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
public inline fun Array<out T>.count(predicate: (T) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (acc: R, Boolean) -> R): R {
    var accumulator = initial
    var index = 0
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param [operation] function that takes the index of an element, current accumulator value, and the element itself, and calculates the next accumulator value.
 */
public inline fun <R> CharArray.foldIndexed(initial: R, operation: (acc: R, Char) -> R): R {
    var accumulator = initial
    var index = 0
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value, and the element itself, and calculates the next accumulator value.
 */
public inline fun <T> .foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value, and the element itself, and calculates the next accumulator value.
 */
public inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param [operation] function that takes the index of an element, current accumulator value, and the element itself, and calculates the next accumulator value.
 */
public inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R> ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {
    var accumulator = initial
    var index = 0
    for (element in this) accumulator = operation(acc, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(acc, element)
    return accumulator
}
value starting with [initial] value and applying [operation] from left to right

* to current accumulator value and each element with its index in the original array.

* * @param [operation] function that takes the index of an element, current accumulator value
* and the element itself, and calculates the next accumulator value.

* @public inline fun <R>

DoubleArray.foldRighted(initial: R, operation: (index: Int, acc: R, Double) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> BooleanArray.foldRighted(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> IntArray.foldRighted(initial: R, operation: (index: Int, acc: R, Int) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> ByteArray.foldRighted(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> ShortArray.foldRighted(initial: R, operation: (index: Int, acc: R, Short) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> CharArray.foldRighted(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @public inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}
empty.\n * @param operation function that takes an element and current accumulator value, and calculates the next accumulator value.\n * @public inline fun &lt;R&gt; FloatArray.foldRight(initial: R, operation: (Float, acc: R) -&gt; R): R \n  \{ \n    var index = lastIndex\n    var accumulator = initial\n    while (index &gt;= 0) \n    { \n      accumulator = operation(get(index--), accumulator)\n      \} \n  return accumulator\n  }\n
Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n * @return the specified [initial] value if the array is empty.\n * @param &lt;R&gt; DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -&gt; R): R \n  \{ \n    var index = lastIndex\n    var accumulator = initial\n    while (index &gt;= 0) \n    { \n      accumulator = operation(get(index--), accumulator)\n      \} \n  return accumulator\n  }\n
Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n * @return the specified [initial] value if the array is empty.\n * @param &lt;R&gt; CharArray.foldRight(initial: R, operation: (Char, acc: R) -&gt; R): R \n  \{ \n    var index = lastIndex\n    var accumulator = initial\n    while (index &gt;= 0) \n    { \n      accumulator = operation(index, get(index--), accumulator)\n      \} \n  return accumulator\n  }\n
Accumulates value starting with [initial] value and applying [operation] from right to left to each element and its index in the original array and current accumulator value.\n * @return the specified [initial] value if the array is empty.\n * @param &lt;R&gt; BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -&gt; R): R \n  \{ \n    var index = lastIndex\n    var accumulator = initial\n    while (index &gt;= 0) \n    { \n      accumulator = operation(index, get(index--), accumulator)\n      \} \n  return accumulator\n  }\n
Accumulates value starting with [initial] value and applying [operation] from right to left to each element and its index in the original array and current accumulator value.\n * @return the specified [initial] value if the array is empty.\n * @param &lt;R&gt; ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -&gt; R): R \n  \{ \n    var index = lastIndex\n    var accumulator = initial\n    while (index &gt;= 0) \n    { \n      accumulator = operation(index, get(index--), accumulator)\n      \} \n  return accumulator\n  }\n
Accumulates value starting with [initial] value and applying [operation] from right to left to each element and its index in the original array and current accumulator value.\n * @return the specified [initial] value if the array is empty.\n * @param &lt;R&gt; ShortArray.foldRightIndexed(initial: R, operation: (Short, acc: R) -&gt; R): R \n  \{ \n    var index = lastIndex\n    var accumulator = initial\n    while (index &gt;= 0) \n    { \n      accumulator = operation(index, get(index--), accumulator)\n      \} \n  return accumulator\n  }\n
Accumulates value starting with [initial] value and applying [operation] from right to left to each element and its index in the original array and current accumulator value.\n * @return the specified [initial] value if the array is empty.\n * @param &lt;R&gt; IntArray.foldRightIndexed(initial: R, operation: (Int, acc: R) -&gt; R): R \n  \{ \n    var index = lastIndex\n    var accumulator = initial\n    while (index &gt;= 0) \n    { \n      accumulator = operation(index, get(index--), accumulator)\n      \} \n  return accumulator\n  }\n
Accumulates value starting with [initial] value and applying [operation] from right to left to each element and its index in the original array and current accumulator value.\n * @return the specified [initial] value if the array is empty.\n * @param &lt;R&gt; ByteCopyArray.foldRightIndexed(initial: R, operation: (Byte, acc: R) -&gt; R): R \n  \{ \n    var index = lastIndex\n    var accumulator = initial\n    while (index &gt;= 0) \n    { \n      accumulator = operation(index, get(index--), accumulator)\n      \} \n  return accumulator\n  }\n
Accumulates value starting with [initial] value and applying [operation] from right to left to each element and its index in the original array and current accumulator value.\n * @return the specified [initial] value if the array is empty.\n * @param &lt;R&gt; IntCopyArray.foldRightIndexed(initial: R, operation: (Int, acc: R) -&gt; R): R \n  \{ \n    var index = lastIndex\n    var accumulator = initial\n    while (index &gt;= 0) \n    { \n      accumulator = operation(index, get(index--), accumulator)\n      \} \n  return accumulator\n  }\n
Accumulates value starting with [initial] value and applying [operation] from right to left to each element and its index in the original array and current accumulator value.\n * @return the specified [initial] value if the array is empty.\n * @param &lt;R&gt;
each element, providing sequential index with the element.

* @param [action] function that takes the index of an element and the element itself
  and performs the action on the element.

**unpublic inline fun

ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with
 * the element.
 * @param [action] function that takes the index of an element and the element itself
  and performs the action on the element.

**unpublic inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit):

IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public fun Array<out Double>.max(): Double? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun Array<out Float>.max(): Float? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
public fun <T : Comparable<T>> Array<out T>.max(): T? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
public fun ByteArray.max(): Byte? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
public fun ShortArray.max(): Short? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
public fun IntArray.max(): Int? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
public fun LongArray.max(): Long? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
public fun DoubleArray.max(): Double? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
public fun CharArray.max(): Char? {
    return maxOrNull()
}
ReplaceWith("maxByOrNull(selector)")

public inline fun <T, R : Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T? {
    return maxByOrNull(selector)
}

ReplaceWith("maxByOrNull(selector)")

@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte? {
    return maxByOrNull(selector)
}

ReplaceWith("maxByOrNull(selector)")

@Deprecated("Use maxByOrNull instead.",
ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R): Short? {
    return maxByOrNull(selector)
}

ReplaceWith("maxByOrNull(selector)")

@Deprecated("Use maxByOrNull instead.",
ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int? {
    return maxByOrNull(selector)
}

ReplaceWith("maxByOrNull(selector)")

@Deprecated("Use maxByOrNull instead.",
ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R): Long? {
    return maxByOrNull(selector)
}

ReplaceWith("maxByOrNull(selector)")

@Deprecated("Use maxByOrNull instead.",
ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R): Float? {
    return maxByOrNull(selector)
}

ReplaceWith("maxByOrNull(selector)")

@Deprecated("Use maxByOrNull instead.",
ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double? {
    return maxByOrNull(selector)
}

ReplaceWith("maxByOrNull(selector)")

@Deprecated("Use maxByOrNull instead.",
ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {
    return maxByOrNull(selector)
}

ReplaceWith("maxByOrNull(selector)")

@Deprecated("Use maxByOrNull instead.",
ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R): Char? {
    return maxByOrNull(selector)
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
public inline fun <T, R : Comparable<R>> Array<out T>.maxByOrNull(selector: (T) -> R): T? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> ByteArray.maxByOrNull(selector: (Byte) -> R): Byte? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> ShortArray.maxByOrNull(selector: (Short) -> R): Short? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R): Int? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> LongArray.maxByOrNull(selector: (Long) -> R): Long? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> FloatArray.maxByOrNull(selector: (Float) -> R): Float? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> DoubleArray.maxByOrNull(selector: (Double) -> R): Double? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> BooleanArray.maxByOrNull(selector: (Boolean) -> R): Boolean? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> CharArray.maxByOrNull(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
0) return maxElem\n\nvar maxValue = selector(maxElem)\nfor (i in 1..lastIndex) {\n  val e = this[i]\n  val v = selector(e)\n  if (maxValue < v) {\n    maxElem = e\n    maxValue = v\n  }\n}\nreturn maxElem\n
/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> LongArray.maxByOrNull(selector: (Long) -> R): Long? {
    if (isEmpty()) return null\n    var maxElem = this[0]\n    var lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n      val e = this[i]\n      val v = selector(e)\n      if (maxValue < v) {\n        maxElem = e\n        maxValue = v\n      }\n    }\n    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> FloatArray.maxByOrNull(selector: (Float) -> R): Float? {
    if (isEmpty()) return null\n    var maxElem = this[0]\n    var lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n      val e = this[i]\n      val v = selector(e)\n      if (maxValue < v) {\n        maxElem = e\n        maxValue = v\n      }\n    }\n    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> DoubleArray.maxByOrNull(selector: (Double) -> R): Double? {
    if (isEmpty()) return null\n    var maxElem = this[0]\n    var lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n      val e = this[i]\n      val v = selector(e)\n      if (maxValue < v) {\n        maxElem = e\n        maxValue = v\n      }\n    }\n    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> BooleanArray.maxByOrNull(selector: (Boolean) -> R): Boolean? {
    if (isEmpty()) return null\n    var maxElem = this[0]\n    var lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n      val e = this[i]\n      val v = selector(e)\n      if (maxValue < v) {\n        maxElem = e\n        maxValue = v\n      }\n    }\n    return maxElem
}

/**
 * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.maxOf(selector: (T) -> Double): Double {
    if (isEmpty()) throwNoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n      val v = selector(this[i])\n      maxValue = maxOf(maxValue, v)\n    }\n    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun ByteArray.maxOf(selector: (Byte) -> Double): Double {
    if (isEmpty()) throwNoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n      val v = selector(this[i])\n      maxValue = maxOf(maxValue, v)\n    }\n    return maxValue
}
each element in the array. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`. * * * * * throws NoSuchElementException if the array is empty.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ShortArray.maxOf(selector: (Short) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
```

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun IntArray.maxOf(selector: (Int) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
```

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun LongArray.maxOf(selector: (Long) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
```

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun FloatArray.maxOf(selector: (Float) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
```

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun DoubleArray.maxOf(selector: (Double) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
```

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun BooleanArray.maxOf(selector: (Boolean) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
```

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharArray.maxOf(selector: (Char) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
```
maxValue

* Returns the largest value among all values produced by [selector] function
* applied to each element in the array.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
* @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun <T> Array<out T>.maxOf(selector: (T) -> Float): Float {
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
* @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun ByteArray.maxOf(selector: (Byte) -> Float): Float {
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
* @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun ShortArray.maxOf(selector: (Short) -> Float): Float {
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
* @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun IntArray.maxOf(selector: (Int) -> Float): Float {
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
* @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun LongArray.maxOf(selector: (Long) -> Float): Float {
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
* @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun FloatArray.maxOf(selector: (Float) -> Float): Float {
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
* @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun DoubleArray.maxOf(selector: (Double) -> Float): Float {
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
in 1..lastIndex) {
    var maxV = selector(this[0])
    var maxValue = maxOf(maxValue, maxV)
}
return
maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun Array<out T>.maxOf(selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ByteArray.maxOf(selector: (Byte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ShortArray.maxOf(selector: (Short) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> IntArray.maxOf(selector: (Int) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> LongArray.maxOf(selector: (Long) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var
```kotlin
maxValue = selector(this[0])
for (i in 1..lastIndex) {
    val v = selector(this[i])
    if (maxValue < v) {
        maxValue = v
    }
}
return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> FloatArray.maxOf(selector: (Float) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> DoubleArray.maxOf(selector: (Double) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> BooleanArray.maxOf(selector: (Boolean) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array, or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.maxOfOrNull(selector: (Byte) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
```

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> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}* Returns the largest value among all values produced by [selector] function\n* applied to each element in the array or ‘null’ if there are no elements\n* If any of values produced by [selector] function is ‘NaN’, the returned result is ‘NaN’.

*\n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.internal.InlineOnly
* public inline fun IntArray.maxOfOrNull(selector: (Int) \n\t-> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}* Returns the largest value among all values produced by [selector] function\n* applied to each element in the array or ‘null’ if there are no elements\n* If any of values produced by [selector] function is ‘NaN’, the returned result is ‘NaN’.

*\n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.internal.InlineOnly
* public inline fun LongArray.maxOfOrNull(selector: (Long) \n\t-> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}* Returns the largest value among all values produced by [selector] function\n* applied to each element in the array or ‘null’ if there are no elements\n* If any of values produced by [selector] function is ‘NaN’, the returned result is ‘NaN’.

*\n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.internal.InlineOnly
* public inline fun FloatArray.maxOfOrNull(selector: (Float) \n\t-> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}* Returns the largest value among all values produced by [selector] function\n* applied to each element in the array or ‘null’ if there are no elements\n* If any of values produced by [selector] function is ‘NaN’, the returned result is ‘NaN’.

*\n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.internal.InlineOnly
* public inline fun DoubleArray.maxOfOrNull(selector: (Double) \n\t-> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}* Returns the largest value among all values produced by [selector] function\n* applied to each element in the array or ‘null’ if there are no elements\n* If any of values produced by [selector] function is ‘NaN’, the returned result is ‘NaN’.

*\n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.internal.InlineOnly
* public inline fun BooleanArray.maxOfOrNull(selector: (Boolean) \n\t-> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}* Returns the largest value among all values produced by [selector] function\n* applied to each element in the array or ‘null’ if there are no elements\n* If any of values produced by [selector] function is ‘NaN’, the returned result is ‘NaN’.

*\n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.internal.InlineOnly
* public inline fun CharArray.maxOfOrNull(selector: (Char) \n\t-> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}* Returns the largest value among all values produced by [selector] function\n* applied to each element in the array or ‘null’ if there are no elements\n* If any of values produced by [selector] function is ‘NaN’, the returned result is ‘NaN’.

*\n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType\n* @kotlin.internal.InlineOnly
* public inline fun ByteArray.maxOfOrNull(selector: (Byte) \n\t-> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}* Returns the largest value among all values produced by [selector] function\n* applied to each element in the array or ‘null’ if there are no elements\n* If any of values produced by [selector] function is ‘NaN’, the returned result is ‘NaN’.
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.maxOfOrNull(selector: (T) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function if applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.maxOfOrNull(selector: (Byte) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function if applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ShortArray.maxOfOrNull(selector: (Short) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function if applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun IntArray.maxOfOrNull(selector: (Int) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function if applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun LongArray.maxOfOrNull(selector: (Long) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function if applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun FloatArray.maxOfOrNull(selector: (Float) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function if applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline func DoubleArray.maxOfOrNull(selector: (Double) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function if applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun BooleanArray.maxOfOrNull(selector: (Boolean) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function if applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharArray.maxOfOrNull(selector: (Char) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function if applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharArray.maxOfOrNull(selector: (Char) -> Char): Char? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@LambdaReturnType
public inline fun BooleanArray.maxOfOrNull(selector: (Boolean) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@LambdaReturnType
public inline fun CharArray.maxOfOrNull(selector: (Char) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@LambdaReturnType
public inline fun <T, R : Comparable<R>> Array<out T>.maxOfOrNull(selector: (T) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@LambdaReturnType
public inline fun <R : Comparable<R>> ByteArray.maxOfOrNull(selector: (Byte) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@LambdaReturnType
public inline fun <R : Comparable<R>> ShortArray.maxOfOrNull(selector: (Short) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@LambdaReturnType
public inline fun <R : Comparable<R>> IntArray.maxOfOrNull(selector: (Int) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@LambdaReturnType
public inline fun <R : Comparable<R>> LongArray.maxOfOrNull(selector: (Long) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@LambdaReturnType
public inline fun <R : Comparable<R>> FloatArray.maxOfOrNull(selector: (Float) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}
by [selector] function\n* applied to each element in the array or \`null\' if there are no elements.\n
*\n@Since Kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nDoubleArray.maxOfOrNull(selector: (Double) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function\n* applied to each element in the array or \`null\' if there are no elements.\n
*\n@Since Kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nBooleanArray.maxOfOrNull(selector: (Boolean) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function\n* applied to each element in the array or \`null\' if there are no elements.\n
*\n@Since Kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nCharArray.maxOfOrNull(selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n/**\n * Returns the largest value according to the provided [comparator]\n* among all values produced by [selector] function applied to each element in the array.\n
*\n@Since Kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n/**\n * Returns the largest value according to the provided [comparator]\n* among all values produced by [selector] function applied to each element in the array.\n
*\n@Since Kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.maxOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n/**\n * Returns the largest value according to the provided [comparator]\n* among all values produced by [selector] function applied to each element in the array.\n
*\n@Since Kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWith(comparator: Comparator<in R>, selector: (Short) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n/**\n * Returns the largest value according to the provided [comparator]\n* among all values produced by [selector] function applied to each element in the array.\n
*\n@Since Kotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.maxOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n/*
function applied to each element in the array.\n* \n* @throws NoSuchElementException if the array is empty.\n* \n* Since Kotlin ("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution\n* ByLambdaReturnType\n* @kotlin.internal.InlineOnly\n
public inline fun <R> LongArray.maxOfWith(comparator: Comparator<in R>, selector: (Long) -> R): R \n{ \n    if (isEmpty()) throw NoSuchElementException() \n    var maxValue = selector(this[0]) \n    for (i in 1.. lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) \n            maxValue = v \n        } \n    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector]
 * function applied to each element in the array.\n* \n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution\n* ByLambdaReturnType\n* @kotlin.internal.InlineOnly\n
public inline fun <R> FloatArray.maxOfWith(comparator: Comparator<in R>, selector: (Float) -> R): R \n{ \n    if (isEmpty()) throw NoSuchElementException() \n    var maxValue = selector(this[0]) \n    for (i in 1.. lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) \n            maxValue = v \n        } \n    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector]
 * function applied to each element in the array.\n* \n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution\n* ByLambdaReturnType\n* @kotlin.internal.InlineOnly\n
public inline fun <R> DoubleArray.maxOfWith(comparator: Comparator<in R>, selector: (Double) -> R): R \n{ \n    if (isEmpty()) throw NoSuchElementException() \n    var maxValue = selector(this[0]) \n    for (i in 1.. lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) \n            maxValue = v \n        } \n    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector]
 * function applied to each element in the array.\n* \n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution\n* ByLambdaReturnType\n* @kotlin.internal.InlineOnly\n
public inline fun <R> BooleanArray.maxOfWith(comparator: Comparator<in R>, selector: (Boolean) -> R): R \n{ \n    if (isEmpty()) throw NoSuchElementException() \n    var maxValue = selector(this[0]) \n    for (i in 1.. lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) \n            maxValue = v \n        } \n    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector]
 * function applied to each element in the array or `null` if there are no elements.\n* \n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution\n* ByLambdaReturnType\n* @kotlin.internal.InlineOnly\n
public inline fun <T, R> Array<out T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? \n{ \n    if (isEmpty()) return null \n    var maxValue = selector(this[0]) \n    for (i in 1.. lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) \n            maxValue = v \n        } \n    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector]
 * function applied to each element in the array or `null` if there are no elements.\n* \n* Since Kotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution\n* ByLambdaReturnType\n* @kotlin.internal.InlineOnly\n
public inline fun <R> ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? \n{ \n    if (isEmpty()) return null \n    var maxValue = selector(this[0]) \n    for (i in 1.. lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) \n            maxValue = v \n        } \n    return maxValue
}
Returns the largest value according to the provided [comparator] in * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

*\[@SinceKotlin("1.4\")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\]@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun \n\na: ShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {
  if (isEmpty()) return null
  var maxVanue = selector(this[0])
  for (i in 1..lastIndex) {
    val v = selector(this[i])
    if (comparator.compare(maxValue, v) < 0) {
      maxValue = v
    }
  }
  return maxValue
}

*\[@SinceKotlin("1.4\")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\]@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun \na: IntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {
  if (isEmpty()) return null
  var maxVanue = selector(this[0])
  for (i in 1..lastIndex) {
    val v = selector(this[i])
    if (comparator.compare(maxValue, v) < 0) {
      maxValue = v
    }
  }
  return maxValue
}

*\[@SinceKotlin("1.4\")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\]@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun \na: LongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {
  if (isEmpty()) return null
  var maxVanue = selector(this[0])
  for (i in 1..lastIndex) {
    val v = selector(this[i])
    if (comparator.compare(maxValue, v) < 0) {
      maxValue = v
    }
  }
  return maxValue
}

*\[@SinceKotlin("1.4\")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\]@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun \na: FloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {
  if (isEmpty()) return null
  var maxVanue = selector(this[0])
  for (i in 1..lastIndex) {
    val v = selector(this[i])
    if (comparator.compare(maxValue, v) < 0) {
      maxValue = v
    }
  }
  return maxValue
}

*\[@SinceKotlin("1.4\")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\]@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun \na: DoubleArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {
  if (isEmpty()) return null
  var maxVanue = selector(this[0])
  for (i in 1..lastIndex) {
    val v = selector(this[i])
    if (comparator.compare(maxValue, v) < 0) {
      maxValue = v
    }
  }
  return maxValue
}

*\[@SinceKotlin("1.4\")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\]@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun \na: BooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {
  if (isEmpty()) return null
  var maxVanue = selector(this[0])
  for (i in 1..lastIndex) {
    val v = selector(this[i])
    if (comparator.compare(maxValue, v) < 0) {
      maxValue = v
    }
  }
  return maxValue
}

*\[@SinceKotlin("1.4\")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\]@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun \na: CharArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {
  if (isEmpty()) return null
  var maxVanue = selector(this[0])
  for (i in 1..lastIndex) {
    val v = selector(this[i])
    if...
>Returns the largest element or `null` if there are no elements.

```kotlin
@SinceKotlin("1.4")
public fun Array<out Double>.maxOrNull(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        max = maxOf(max, e)
    }
    return max
}
```

/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.4")
public fun Array<out Float>.maxOrNull(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        max = maxOf(max, e)
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun <T : Comparable<T>> Array<out T>.maxOrNull(): T? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun ByteArray.maxOrNull(): Byte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun CharArray.maxOrNull(): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

@Deprecated("Use maxWithOrNull instead.",
ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun TArray<out T>.maxWith(comparator: Comparator<in T>): T? {
    return maxWithOrNull(comparator)
}
```
maxWithOrNullable(comparator)\n}@Deprecated("Use maxWithOrNull instead.\n", ReplaceWith("maxWithOrNull(comparator())")@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
DoubleArray.maxWith(comparator: Comparator\n}@Deprecated("Use maxWithOrNull instead.\n", ReplaceWith("maxWithOrNull(comparator())")@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
BooleanArray.maxWith(comparator: Comparator\n}@Deprecated("Use maxWithOrNull instead.\n", ReplaceWith("maxWithOrNull(comparator())")@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
CharArray.maxWith(comparator: Comparator\n}@Deprecated("Use maxWithOrNull instead.\n", ReplaceWith("maxWithOrNull(comparator())")@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
ByteArray.maxWithOrNull(comparator: Comparator\n}@Deprecated("Use maxWithOrNull instead.\n", ReplaceWith("maxWithOrNull(comparator())")@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
ShortArray.maxWithOrNull(comparator: Comparator\n}@Deprecated("Use maxWithOrNull instead.\n", ReplaceWith("maxWithOrNull(comparator())")@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
IntArray.maxWithOrNull(comparator: Comparator\n}@Deprecated("Use maxWithOrNull instead.\n", ReplaceWith("maxWithOrNull(comparator())")@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
LongArray.maxWithOrNull(comparator: Comparator\n}@Deprecated("Use maxWithOrNull instead.\n", ReplaceWith("maxWithOrNull(comparator())")@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
FloatArray.maxWithOrNull(comparator: Comparator\n}@Deprecated("Use maxWithOrNull instead.\n", ReplaceWith("maxWithOrNull(comparator())")@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
DoubleArray.maxWithOrNull(comparator: Comparator\n}@Deprecated("Use maxWithOrNull instead.\n", ReplaceWith("maxWithOrNull(comparator())")@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
CharArray.maxWith(comparator: Comparator\n}@Deprecated("Use maxWithOrNull instead.\n", ReplaceWith("maxWithOrNull(comparator())")@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
ByteArray.java\n
/**
 * Returns the first element having the largest value according to the provided [comparator] or 'null' if there are no elements.
 */
@SinceKotlin("1.4")
public fun <T> Array<out T>.maxWithOrNull(comparator: Comparator<in T>): T? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or 'null' if there are no elements.
 */
@SinceKotlin("1.4")
public fun ByteArray.maxWithOrNull(comparator: Comparator<in Byte>): Byte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or 'null' if there are no elements.
 */
@SinceKotlin("1.4")
public fun ShortArray.maxWithOrNull(comparator: Comparator<in Short>): Short? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or 'null' if there are no elements.
 */
@SinceKotlin("1.4")
public fun IntArray.maxWithOrNull(comparator: Comparator<in Int>): Int? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or 'null' if there are no elements.
 */
@SinceKotlin("1.4")
public fun LongArray.maxWithOrNull(comparator: Comparator<in Long>): Long? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or 'null' if there are no elements.
 */
@SinceKotlin("1.4")
public fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or 'null' if there are no elements.
 */
@SinceKotlin("1.4")
public fun DoubleArray.maxWithOrNull(comparator: Comparator<in Double>): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or 'null' if there are no elements.
 */
@SinceKotlin("1.4")
public fun BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>): Boolean? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or 'null' if there are no elements.
 */
@SinceKotlin("1.4")
public fun CharArray.maxWithOrNull(comparator: Comparator<in Char>): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
fun Array<out Float>.min(): Float? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
    ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun <T : Comparable<T>> Array<out T>.min(): T? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
    ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun IntArray.min(): Int? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
    ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun ByteArray.min(): Byte? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
    ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun ShortArray.min(): Short? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
    ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun IntArray.min(): Int? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
    ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun ByteArray.minBy(selector: (Byte) -> R): Byte? {
    return minByOrNull(selector)
}

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 * @sample samples.collections.Collections.Aggregates.minByOrNull
 */
@SinceKotlin("1.4")
public inline fun <T, R : Comparable<R>> Array<out T>.minByOrNull(selector: (T) -> R): T? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v)
 Returns the first element yielding the smallest value of the given function or `null` if there are no elements. The `minByOrNull` function is part of the `Samples.Collections.Aggregates` package and is used to find the element that minimizes a given function without returning an error.

### Examples

#### IntArray

```kotlin
val intArray = intArrayOf(5, 1, 9, 3)
val minValue = intArray.minByOrNull { it * it }
println(minValue) // Output: 1
```

#### BooleanArray

```kotlin
val booleanArray = booleanArrayOf(true, false, true)
val minValue = booleanArray.minByOrNull { it }
println(minValue) // Output: true
```

#### ByteArray

```kotlin
val byteArray = ByteArray(3) { it + 1 }
val minValue = byteArray.minByOrNull { it.toChar() }
println(minValue) // Output: '1'
```

### Methods

- `minByOrNull(selector: (T) -> R): T?`
- `DoubleArray.minByOrNull(selector: (Double) -> R): Double?`
- `FloatArray.minByOrNull(selector: (Float) -> R): Float?`
- `CharArray.minByOrNull(selector: (Char) -> R): Char?`
- `ByteArray.minByOrNull(selector: (Byte) -> R): Byte?`
- `ShortArray.minByOrNull(selector: (Short) -> R): Short?`
- `IntArray.minByOrNull(selector: (Int) -> R): Int?`
- `LongArray.minByOrNull(selector: (Long) -> R): Long?`
- `BooleanArray.minByOrNull(selector: (Boolean) -> R): Boolean?`
Returns the smallest value among all values produced by [selector] function * applied to each element in the array. * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`. * * * @throws NoSuchElementException if the array is empty.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Array<T>.minOf(selector: (T) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

```kotlin
/**
 * Returns the smallest value among all values produced by [selector] function * applied to each element in the array. * * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`. * * * @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.minOf(selector: (Byte) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

```kotlin
/**
 * Returns the smallest value among all values produced by [selector] function * applied to each element in the array. * * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`. * * * @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ShortArray.minOf(selector: (Short) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

```kotlin
/**
 * Returns the smallest value among all values produced by [selector] function * applied to each element in the array. * * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`. * * * @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun IntArray.minOf(selector: (Int) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

```kotlin
/**
 * Returns the smallest value among all values produced by [selector] function * applied to each element in the array. * * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`. * * * @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun LongArray.minOf(selector: (Long) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

```kotlin
/**
 * Returns the smallest value among all values produced by [selector] function * applied to each element in the array. * * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`. * * * @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun FloatArray.minOf(selector: (Float) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

```kotlin
/**
 * Returns the smallest value among all values produced by [selector] function * applied to each element in the array. * * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`. * * * @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun DoubleArray.minOf(selector: (Double) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

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Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var min = selector(this[0])
    for (i in 1..lastIndex) {
        var v = selector(this[i])
        min = minOf(min, v)
    }
    return min
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * 
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun BooleanArray.minOf(selector: (Boolean) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * 
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun CharArray.minOf(selector: (Char) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * 
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.minOf(selector: (T) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * 
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun ByteArray.minOf(selector: (Byte) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * 
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun ShortArray.minOf(selector: (Short) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * 
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun IntArray.minOf(selector: (Int) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun LongArray.minOf(selector: (Long) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result
 * is `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun FloatArray.minOf(selector: (Float) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result
 * is `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun DoubleArray.minOf(selector: (Double) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result
 * is `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun BooleanArray.minOf(selector: (Boolean) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result
 * is `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharArray.minOf(selector: (Char) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the
 * array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Array<out T>.minOf(selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the
 * array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ByteArray.minOf(selector: (Byte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the
 * array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> List<T>.minOf(selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the
 * array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Set<T>.minOf(selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the
 * array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> SortedSet<T>.minOf(selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the
 * array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Queue<T>.minOf(selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the
 * array is empty.
 */
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable>R>
ShortArray.minOf(selector: (Short) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    }\n    return minValue\n}\n
// Returns the smallest value among all values produced by [selector] \nfunction\n* applied to each element in the array.\n
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable>R>
IntArray.minOf(selector: (Int) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    }\n    return minValue\n}\n
// Returns the smallest value among all values produced by [selector] \nfunction\n* applied to each element in the array.\n
NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable>R>
LongArray.minOf(selector: (Long) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    }\n    return minValue\n}\n
// Returns the smallest value among all values produced by [selector] \nfunction\n* applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable>R>
FloatArray.minOf(selector: (Float) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    }\n    return minValue\n}\n
// Returns the smallest value among all values produced by [selector] \nfunction\n* applied to each element in the array.\n
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable>R>
DoubleArray.minOf(selector: (Double) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    }\n    return minValue\n}\n
// Returns the smallest value among all values produced by [selector] \nfunction\n* applied to each element in the array.\n
NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable>R>
CharArray.minOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    }\n    return minValue\n}\n
// Returns the smallest value among all values produced by [selector] \nfunction\n* applied to each element in the array.\n
NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable>R>
BooleanArray.minOf(selector: (Boolean) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    }\n    return minValue\n}\n
// Returns the smallest value among all values produced by [selector] \nfunction\n* applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable>R>
CharArray.minOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    }\n    return minValue\n}\n
// Returns the smallest value among all values produced by [selector] \nfunction\n* applied to each element in the array or ‘null’ if there are no elements.\n
* If any of \nvalues produced by [selector] function is ‘NaN’, the returned result is ‘NaN’.\n
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@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@public inline fun <T> Array<out T>.minOfOrNull(selector: (T) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@public inline fun ByteArray.minOfOrNull(selector: (Byte) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@public inline fun ShortArray.minOfOrNull(selector: (Short) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@public inline fun IntArray.minOfOrNull(selector: (Int) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@public inline fun LongArray.minOfOrNull(selector: (Long) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@public inline fun FloatArray.minOfOrNull(selector: (Float) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
@public inline fun DoubleArray.minOfOrNull(selector: (Double) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
is `NaN`, the returned result is `NaN`.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun BooleanArray.minOfOrNull(selector: (Boolean) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

`minOfOrNull` is applied to each element in the array or `null` if there are no elements.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharArray.minOfOrNull(selector: (Char) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

`minOfOrNull` is applied to each element in the array or `null` if there are no elements.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.minOfOrNull(selector: (T) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

`minOfOrNull` is applied to each element in the array or `null` if there are no elements.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.minOfOrNull(selector: (Byte) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

`minOfOrNull` is applied to each element in the array or `null` if there are no elements.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ShortArray.minOfOrNull(selector: (Short) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

`minOfOrNull` is applied to each element in the array or `null` if there are no elements.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun IntArray.minOfOrNull(selector: (Int) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

`minOfOrNull` is applied to each element in the array or `null` if there are no elements.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun LongArray.minOfOrNull(selector: (Long) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

`minOfOrNull` is applied to each element in the array or `null` if there are no elements.
there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun FloatArray.minOfOrNull(selector: (Float) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun DoubleArray.minOfOrNull(selector: (Double) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun BooleanArray.minOfOrNull(selector: (Boolean) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun CharArray.minOfOrNull(selector: (Char) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Array<out T>.minOfOrNull(selector: (T) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ByteArray.minOfOrNull(selector: (Byte) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ShortArray.minOfOrNull(selector: (Short) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> IntArray.minOfOrNull(selector: (Int) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> LongArray.minOfOrNull(selector: (Long) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> Int32IntArray.minOfOrNull(selector: (Int32) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> Int64IntArray.minOfOrNull(selector: (Int64) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> FixedSizeByteArray.minOfOrNull(selector: (Byte) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Inline
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> OptionalArray.minOfOrNull(selector: (Optional) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(Optional.empty())
    for (i in 1..lastIndex) {
        val v = selector(Optional.of(selector(this[i])))
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}
```

---

*Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9464*
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
IntArray.minOfOrNull(selector: (Int) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
LongArray.minOfOrNull(selector: (Long) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
FloatArray.minOfOrNull(selector: (Float) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
DoubleArray.minOfOrNull(selector: (Double) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
BooleanArray.minOfOrNull(selector: (Boolean) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided 
 * among all values produced by [selector] function applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided 
 * among all values produced by [selector] function applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> ByteArray.minOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (
(comparator.compare(minValue, v) > 0) {
    minValue = v
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

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Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
minValue = selector(this[0])
for (i in 1..lastIndex) {
    val v = selector(this[i])
    if (comparator.compare(minValue, v) > 0) {
        minValue = v
    }
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

ByteArray.minOfWithOrNull{comparator: Comparator<in R>, selector: (Byte) -> R}: R?
{
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

ShortArray.minOfWithOrNull{comparator: Comparator<in R>, selector: (Short) -> R}: R?
{
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

IntArray.minOfWithOrNull{comparator: Comparator<in R>, selector: (Int) -> R}: R?
{
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

LongArray.minOfWithOrNull{comparator: Comparator<in R>, selector: (Long) -> R}: R?
{
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

FloatArray.minOfWithOrNull{comparator: Comparator<in R>, selector: (Float) -> R}: R?
{
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? { 
    if (isEmpty()) 
        return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) { 
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) { 
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? { 
    if (isEmpty()) 
        return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) { 
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) { 
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> CharArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? { 
    if (isEmpty()) 
        return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) { 
        val v = selector(this[i])
        if (minValue > v) minValue = v
    }
    return minValue
}

@Deprecated("Use minWithOrNull instead.",
ReplaceWith("minWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun
<T> Array<out T>.minWith(comparator: Comparator<in T>): T? {\n    return minWithOrNull(comparator)\n}

@Deprecated("Use minWithOrNull instead.", ReplaceWith("minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n    return minWithOrNull(comparator)\n}

@Deprecated("Use minWithOrNull instead.", ReplaceWith("minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n    return minWithOrNull(comparator)\n}

@Deprecated("Use minWithOrNull instead.", ReplaceWith("minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\n    return minWithOrNull(comparator)\n}

@Deprecated("Use minWithOrNull instead.", ReplaceWith("minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun LongArray.minWith(comparator: Comparator<in Long>): Long? {\n    return minWithOrNull(comparator)\n}

@Deprecated("Use minWithOrNull instead.", ReplaceWith("minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n    return minWithOrNull(comparator)\n}

@Deprecated("Use minWithOrNull instead.", ReplaceWith("minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun DoubleArray.minWith(comparator: Comparator<in Double>): Double? {\n    return minWithOrNull(comparator)\n}

@Deprecated("Use minWithOrNull instead.", ReplaceWith("minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun BooleanArray.minWith(comparator: Comparator<in Boolean>): Boolean? {\n    return minWithOrNull(comparator)\n}

@Deprecated("Use minWithOrNull instead.", ReplaceWith("minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun CharArray.minWith(comparator: Comparator<in Char>): Char? {\n    return minWithOrNull(comparator)\n}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */
@SinceKotlin("1.4")\npublic fun <T> Array<out T>.minWithOrNull(comparator: Comparator<in T>): T? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */
@SinceKotlin("1.4")\npublic fun ByteArray.minWithOrNull(comparator: Comparator<in Byte>): Byte? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */
@SinceKotlin("1.4")\npublic fun ShortArray.minWithOrNull(comparator: Comparator<in Short>): Short? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */
@SinceKotlin("1.4")\npublic fun IntArray.minWithOrNull(comparator: Comparator<in Int>): Int? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */
@SinceKotlin("1.4")\npublic fun LongArray.minWithOrNull(comparator: Comparator<in Long>): Long? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */
@SinceKotlin("1.4")\npublic fun FloatArray.minWithOrNull(comparator: Comparator<in Float>): Float? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}
/**
 * Returns the first element having the
 * smallest value according to the provided 
 * [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun DoubleArray.minWithOrNull(comparator: Comparator<in Double>):
    Double? {
        if (isEmpty()) return null
        var min = this[0]
        for (i in 1..lastIndex) {
            val e = this[i]
            if (comparator.compare(min, e) > 0) min = e
        }
        return min
    }

/**
 * Returns the first element having the
 * smallest value according to the provided 
 * [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun BooleanArray.minWithOrNull(comparator: Comparator<in Boolean>):
    Boolean? {
        if (isEmpty()) return null
        var min = this[0]
        for (i in 1..lastIndex) {
            val e = this[i]
            if (comparator.compare(min, e) > 0) min = e
        }
        return min
    }

/**
 * Returns the first element having the
 * smallest value according to the provided 
 * [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun CharArray.minWithOrNull(comparator: Comparator<in Char>): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public fun <T> Array<out T>.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public fun ByteArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public fun ShortArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public fun IntArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public fun LongArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public fun FloatArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public fun DoubleArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public fun BooleanArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public fun CharArray.none(): Boolean {
    return isEmpty()}
(index: Int, Short) -> Unit): ShortArray {\n    return apply { forEachIndexed(action) }\n}nn/**\n* Performs the given [action] on each element, providing sequential index with the element.\n* and returns the array itself afterwards.\n* @param [action] function that takes the index of an element and the element itself\n* and performs the action on the element.\n* @SinceKotlin("1.4")\n* @kotlin.internal.InlineOnly\npublic inline fun\nIntArray.onEachIndexed(action: (index: Int, Int) -> Unit): IntArray {\n    return apply { forEachIndexed(action) }\n}nn/**\n* Performs the given [action] on each element, providing sequential index with the element.\n* and returns the array itself afterwards.\n* @param [action] function that takes the index of an element and the element itself\n* and performs the action on the element.\n* @SinceKotlin("1.4")\n* @kotlin.internal.InlineOnly\npublic inline fun\nFloatArray.onEachIndexed(action: (index: Int, Float) -> Unit): FloatArray {\n    return apply { forEachIndexed(action) }\n}nn/**\n* Performs the given [action] on each element, providing sequential index with the element.\n* and returns the array itself afterwards.\n* @param [action] function that takes the index of an element and the element itself\n* and performs the action on the element.\n* @SinceKotlin("1.4")\n* @kotlin.internal.InlineOnly\npublic inline fun\nDoubleArray.onEachIndexed(action: (index: Int, Double) -> Unit): DoubleArray {\n    return apply { forEachIndexed(action) }\n}nn/**\n* Performs the given [action] on each element, providing sequential index with the element.\n* and returns the array itself afterwards.\n* @param [action] function that takes the index of an element and the element itself\n* and performs the action on the element.\n* @SinceKotlin("1.4")\n* @kotlin.internal.InlineOnly\npublic inline fun\nBooleanArray.onEachIndexed(action: (index: Int, Boolean) -> Unit): BooleanArray {\n    return apply { forEachIndexed(action) }\n}nn/**\n* Performs the given [action] on each element, providing sequential index with the element.\n* and returns the array itself afterwards.\n* @param [action] function that takes the index of an element and the element itself\n* and performs the action on the element.\n* @SinceKotlin("1.4")\n* @kotlin.internal.InlineOnly\npublic inline fun\nCharArray.onEachIndexed(action: (index: Int, Char) -> Unit): CharArray {\n    return apply { forEachIndexed(action) }\n}

/**\n* Accumulates value starting with the first element and applying [operation] from left to right\n* to current accumulator value and each element.\n* @param [operation] function that takes current accumulator value and an element,\n* and calculates the next accumulator value.\n* @sample samples.collections.Collections.Aggregates.reduce\n*/
public inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {
    if (isEmpty())
        throw
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])\n    }
    return accumulator
}

/**\n* Accumulates value starting with the first element and applying [operation] from left to right\n* to current accumulator value and each element.\n* @param [operation] function that takes current accumulator value and an element,\n* and calculates the next accumulator value.\n* @sample samples.collections.Collections.Aggregates.reduce\n*/
public inline fun
ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {
    if (isEmpty())
        throw
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator: Byte = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])\n    }
    return accumulator
}

/**\n* Accumulates value starting with the first element and applying [operation] from left to right\n* to current accumulator value and each element.\n* @param [operation] function that takes current accumulator value and an element,\n* and calculates the next accumulator value.\n* @sample samples.collections.Collections.Aggregates.reduce\n*/
public inline fun
CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator: Char = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])\n    }
    return accumulator
}
CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {
    if (isEmpty()) throw
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator value.
 * @param samples.Collections.Aggregates.reduce
 */
public inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
    if (isEmpty()) throw
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator value.
 * @param samples.Collections.Aggregates.reduce
 */
public inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {
    if (isEmpty()) throw
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator value.
 * @param samples.Collections.Aggregates.reduce
 */
public inline fun ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {
    if (isEmpty()) throw
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator value.
 * @param samples.Collections.Aggregates.reduce
 */
public inline fun IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {
    if (isEmpty()) throw
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator value.
 * @param samples.Collections.Aggregates.reduce
 */
    if (isEmpty()) throw
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and calculates the next accumulator value.
 * @sample samples.collections.Aggregates
 */
public inline fun
FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and calculates the next accumulator value.
 * @sample samples.collections.Aggregates
 */
public inline fun
DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and calculates the next accumulator value.
 * @sample samples.collections.Aggregates
 */
public inline fun
BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and calculates the next accumulator value.
 * @sample samples.collections.Aggregates
 */
@SinceKotlin("1.4")
public inline fun <S, T : S>
Array<out T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and calculates the next accumulator value.
 * @sample samples.collections.Aggregates
 */
Array<out T>.reduceOr(Null

@SinceKotlin("1.4")
public inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
public inline fun ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short, Short) -> Short): Short? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
public inline fun IntArray.reduceIndexedOrNull(operation: (index: Int, acc: Int, Int) -> Int): Int? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and calculates the next accumulator value.
 * @sample samples.collections_collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
public inline fun FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
public inline fun DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc: Double, Double) -> Double): Double? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
public inline fun BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
with the first element and applying \[operation\] from left to right to current accumulator value and each element
with its index in the original array.

```
*An @SinceKotlin("1.4")@ public inline fun CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? { \n    if (isEmpty()) \n        return null \n    var accumulator = this[0] for (index in 1..lastIndex) \n        accumulator = operation(index, accumulator, this[index]) \n    return accumulator
}
```

```
@SinceKotlin("1.4")@ @WasExperimental(ExperimentalStdlibApi::class)@ public inline fun <S, T : S>
ByteArray.reduceOrNull(operation: (acc: S, T) -> S): S? { \n    if (isEmpty()) \n        return null \n    var accumulator: S = this[0] for (index in 1..lastIndex) \n        accumulator = operation(accumulator, this[index]) \n    return accumulator
}
```

```
@SinceKotlin("1.4")@ @WasExperimental(ExperimentalStdlibApi::class)@ public inline fun ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? { \n    if (isEmpty()) \n        return null \n    var accumulator = this[0] \n    for (index in 1..lastIndex) \n        accumulator = operation(accumulator, this[index]) \n    return accumulator
}
```

```
@SinceKotlin("1.4")@ @WasExperimental(ExperimentalStdlibApi::class)@ public inline fun IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? { \n    if (isEmpty()) \n        return null \n    var accumulator = this[0] \n    for (index in 1..lastIndex) \n        accumulator = operation(accumulator, this[index]) \n    return accumulator
}
```

```
@SinceKotlin("1.4")@ @WasExperimental(ExperimentalStdlibApi::class)@ public inline fun LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long? { \n    if (isEmpty()) \n        return null \n    var accumulator = this[0] \n    for (index in 1..lastIndex) \n        accumulator = operation(accumulator, this[index]) \n    return accumulator
}
```

```
@SinceKotlin("1.4")@ @WasExperimental(ExperimentalStdlibApi::class)@ public inline fun FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? { \n    if (isEmpty()) \n        return null \n    var accumulator = this[0] \n    for (index in 1..lastIndex) \n        accumulator = operation(accumulator, this[index]) \n    return accumulator
}
```
accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * Returns `null` if the array is empty.
 *
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 *
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun
    DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * Returns `null` if the array is empty.
 * and calculates the next accumulator value.
 *
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun
    BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * Returns `null` if the array is empty.
 * and calculates the next accumulator value.
 *
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun
    CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * Returns `null` if this array is empty.
 * and calculates the next accumulator value.
 *
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
public inline fun
    <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can’t be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * Returns `null` if this array is empty.
 * and calculates the next accumulator value.
 *
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
public inline fun
    ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can’t be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * Returns `null` if this array is empty.
 * and calculates the next accumulator value.
 *
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
public inline fun
    ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can’t be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
UnsupportedOperationException("Empty array can't be reduced.")
var accumulator = get(index--)
while (index >= 0) {
    accumulator = operation(get(index--), accumulator)
}
return accumulator

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
and calculates the next accumulator value.

```

```
next accumulator value.

```kotlin
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 9481
samples.collections.Collections.Aggregates.reduceRightOrNull
*\n@SinceKotlin("1.4")*\n\npublic inline fun <S, T : S> Array<out T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator: S = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n    return null\n} *\n* *\n* Returns `null` if the array is empty.\n* *\n* *\n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* *\n* and calculates the next accumulator value.\n* *\n* *\n* *\n* @sample

samples.collections.Collections.Aggregates.reduceRightOrNull
*\n@SinceKotlin("1.4")*\n\npublic inline fun ByteArray.reduceRightIndexedOrNull(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n    return null\n} *\n* *\n* *\n* Returns `null` if the array is empty.\n* *\n* *\n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* *\n* and calculates the next accumulator value.\n* *\n* *\n* *\n* @sample

samples.collections.Collections.Aggregates.reduceRightOrNull
*\n@SinceKotlin("1.4")*\n\npublic inline fun ShortArray.reduceRightIndexedOrNull(operation: (index: Int, Short, acc: Short) -> Short): Short? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n    return null\n} *\n* *\n* *\n* Returns `null` if the array is empty.\n* *\n* *\n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* *\n* and calculates the next accumulator value.\n* *\n* *\n* *\n* @sample

samples.collections.Collections.Aggregates.reduceRightOrNull
*\n@SinceKotlin("1.4")*\n\npublic inline fun IntArray.reduceRightIndexedOrNull(operation: (index: Int, Int, acc: Int) -> Int): Int? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n    return null\n} *\n* *\n* *\n* Returns `null` if the array is empty.\n* *\n* *\n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* *\n* and calculates the next accumulator value.\n* *\n* *\n* *\n* @sample

samples.collections.Collections.Aggregates.reduceRightOrNull
*\n@SinceKotlin("1.4")*\n\npublic inline fun LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, acc: Long) -> Long): Long? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n    return null\n} *\n* *\n* *\n* Returns `null` if the array is empty.\n* *\n* *\n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* *\n* and calculates the next accumulator value.\n* *\n* *\n* *\n* @sample

samples.collections.Collections.Aggregates.reduceRightOrNull
*\n@SinceKotlin("1.4")*\n\npublic inline fun FloatArray.reduceRightIndexedOrNull(operation: (index: Int, Float, acc: Float) -> Float): Float? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n    return null\n} *\n* *\n* *\n* Returns `null` if the array is empty.\n* *\n* *\n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* *\n* and calculates the next accumulator value.\n* *\n* *\n* *\n* @sample
samples.collections.Collections.Aggregates.reduceRightOrNull

public inline fun DoubleArray.reduceRightIndexedOrNull(operation: (index: Int, Double, acc: Double) -> Double): Double? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        var accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Takes the index of an element, the element itself and current accumulator value,
 * and calculates the next accumulator value.
 * @param operation function that takes the index of an element, the element itself and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
public inline fun BooleanArray.reduceRightIndexedOrNull(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Takes the index of an element, the element itself and current accumulator value,
 * and calculates the next accumulator value.
 * @param operation function that takes the index of an element, the element itself and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
public inline fun CharArray.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @param operation function that takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <S, T : S> Array<out T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @param operation function that takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun ByteArray.reduceRightOrNull(operation: (Byte, acc: Byte) -> Byte): Byte? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @param operation function that takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```kotlin
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {
    var index = lastIndex
    if (index < 0)
        return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @sample
 * samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {
    var index = lastIndex
    if (index < 0)
        return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @sample
 * samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {
    var index = lastIndex
    if (index < 0)
        return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @sample
 * samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {
    var index = lastIndex
    if (index < 0)
        return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun CharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0)
        return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}
```

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9484
@sample samples.collections.Collections.Aggregates.runningFold

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect
 * the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {
    val result = ArrayList<R>(size + 1).apply { add(initial) } for (element in this) {
        var accumulator = initial
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect
 * the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
public inline fun <T, R> ByteArray.runningFold(initial: R, operation: (acc: R, Byte) -> R): List<R> {
    val result = ArrayList<R>(size + 1).apply { add(initial) } for (element in this) {
        var accumulator = initial
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect
 * the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
public inline fun <T, R> ShortArray.runningFold(initial: R, operation: (acc: R, Short) -> R): List<R> {
    val result = ArrayList<R>(size + 1).apply { add(initial) } for (element in this) {
        var accumulator = initial
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect
 * the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
    val result = ArrayList<R>(size + 1).apply { add(initial) } for (element in this) {
        var accumulator = initial
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect
 * the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
    val result = ArrayList<R>(size + 1).apply { add(initial) } for (element in this) {
        var accumulator = initial
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect
 * the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
public inline fun <T, R> FloatArray.runningFold(initial: R, operation: (acc: R, Float) -> R): List<R> {
    val result = ArrayList<R>(size + 1).apply { add(initial) } for (element in this) {
        var accumulator = initial
        result.add(accumulator)
    }
    return result
}
+ 1).apply { add(initial) }\n  var accumulator = initial\n  for (element in this) {\n    accumulator =\n    operation(accumulator, element)\n    result.add(accumulator)\n  }\n  return result[null]**+\n}\n\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element and current accumulator value that starts with [initial] value.\n  * Note that `acc` value passed to [operation] function should not be mutated;\n  * otherwise it would affect the previous value in resulting list.\n  * * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n  * * @sample samples.collections.Collections.Aggregates.runningFold\n*\n@SinceKotlin("1.4")\ninline fun <R> DoubleArray.runningFold(initial: R,\n  operation: (acc: R, Double) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result =\n    ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n      accumulator =\n      operation(accumulator, element)\n      result.add(accumulator)\n    }\n    return result[null]**+\n}\n\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element and current accumulator value that starts with [initial] value.\n  * Note that `acc` value passed to [operation] function should not be mutated;\n  * otherwise it would affect the previous value in resulting list.\n  * * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n  * * @sample samples.collections.Collections.Aggregates.runningFold\n*\n@SinceKotlin("1.4")\ninline fun <R> BooleanArray.runningFold(initial: R,\n  operation: (acc: R, Boolean) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result =\n    ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n      accumulator =\n      operation(accumulator, element)\n      result.add(accumulator)\n    }\n    return result[null]**+\n}\n\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element and current accumulator value that starts with [initial] value.\n  * Note that `acc` value passed to [operation] function should not be mutated;\n  * otherwise it would affect the previous value in resulting list.\n  * * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n  * * @sample samples.collections.Collections.Aggregates.runningFold\n*\n@SinceKotlin("1.4")\ninline fun <R> CharArray.runningFold(initial: R,\n  operation: (acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result =\n    ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n      accumulator =\n      operation(accumulator, element)\n      result.add(accumulator)\n    }\n    return result[null]**+\n}\n\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element and current accumulator value that starts with [initial] value.\n  * Note that `acc` value passed to [operation] function should not be mutated;\n  * otherwise it would affect the previous value in resulting list.\n  * * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n  * * @sample samples.collections.Collections.Aggregates.runningFold\n*\n@SinceKotlin("1.4")\ninline fun <R> ByteArray.runningFold(initial: R,\n  operation: (acc: R, Byte) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result =\n    ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n      accumulator =\n      operation(index, accumulator, this[index])\n      result.add(accumulator)\n    }\n    return result[null]**+\n}\n\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n  * Note that `acc` value passed to [operation] function should not be mutated;\n  * otherwise it would affect the previous value in resulting list.\n  * * @param [operation] function that takes the index of an element, current accumulator value\n  * and the element itself, and calculates the next accumulator value.\n  * * @sample samples.collections.Collections.Aggregates.runningFold\n*\n@SinceKotlin("1.4")\ninline fun <T, R> Array<out T>.runningFoldIndexed(initial: R,\n  operation: (index: Int, acc: R, T) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result =\n    ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n      accumulator =\n      operation(index, accumulator, this[index])\n      result.add(accumulator)\n    }\n    return result[null]**+\n}\n\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n  * Note that `acc` value passed to [operation] function should not be mutated;\n  * otherwise it would affect the previous value in resulting list.\n  * * @param [operation] function that takes the index of an element, current accumulator value\n  * and the element itself, and calculates the next accumulator value.\n  * * @sample samples.collections.Collections.Aggregates.runningFold\n*\n@SinceKotlin("1.4")\ninline fun <T> Array<out T>.runningFold(foo: T,\n  operation: (acc: T, T) -> T): List<T> {\n    if (isEmpty()) return listOf(foo)\n    val result =\n    ArrayList<T>(size + 1).apply { add(foo) }\n    var accumulator = foo\n    for (index in indices) {\n      accumulator =\n      operation(accumulator, this[index])\n      result.add(accumulator)\n    }\n    return result[null]**+\n}\n\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n  * Note that `acc` value passed to [operation] function should not be mutated;\n  * otherwise it would affect the previous value in resulting list.\n  * * @param [operation] function that takes the index of an element, current accumulator value\n  * and the element itself, and calculates the next accumulator value.\n  * * @sample samples.collections.Collections.Aggregates.runningFold\n*\n@SinceKotlin("1.4")\ninline fun <R> ByteArray.runningFoldIndexed(initial: R,\n  operation: (index: Int, acc: R, Byte) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result =\n    ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n      accumulator =\n      operation(index, accumulator, this[index])\n      result.add(accumulator)\n    }\n    return result[null]**+\n}
result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right. It takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * @param [operation]\n * @sample samples.collections.Collections.Aggregates.runningFold\n */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R>
ShortArray.runningFoldIndexed(initial: R, operation: (Int, acc: R, Short) -> R): List<R> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial

    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right. It takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * @param [operation]\n * @sample samples.collections.Collections.Aggregates.runningFold\n */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R>
IntArray.runningFoldIndexed(initial: R, operation: (Int, acc: R, Int) -> R): List<R> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial

    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right. It takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * @param [operation]\n * @sample samples.collections.Collections.Aggregates.runningFold\n */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R>
LongArray.runningFoldIndexed(initial: R, operation: (Int, acc: R, Long) -> R): List<R> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial

    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right. It takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * @param [operation]\n * @sample samples.collections.Collections.Aggregates.runningFold\n */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R>
FloatArray.runningFoldIndexed(initial: R, operation: (Int, acc: R, Float) -> R): List<R> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial

    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right. It takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * @param [operation]\n * @sample samples.collections.Collections.Aggregates.runningFold\n */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R>
DoubleArray.runningFoldIndexed(initial: R, operation: (Int, acc: R, Double) -> R): List<R> {
    if
isEmpty()) return listOf(initial)

val result = ArrayList<R>(size + 1).apply { add(initial) }

var accumulator = initial

for (index in indices) {
    accumulator = operation(index, accumulator, this[index])

    result.add(accumulator)
}

return result

*\n*\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right
* to each element, its index in the original array and current accumulator value that starts with [initial] value.
* Note that `acc` value passed to [operation] function should not be mutated;
* otherwise it would affect the previous value in resulting list.
* * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
* *
* * @sample samples.collections.Collections.Aggregates.runningFold

*\n@SinceKotlin("1.4\")@kotlin.internal.InlineOnly\n
public inline fun <R> BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {
    if (isEmpty()) return listOf(initial)

    val result = ArrayList<R>(size + 1).apply { add(initial) }

    var accumulator = initial

    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])

        result.add(accumulator)
    }

    return result
}

*\n*\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right
* to each element, its index in the original array and current accumulator value that starts with [initial] value.
* Note that `acc` value passed to [operation] function should not be mutated;
* otherwise it would affect the previous value in resulting list.
* * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
* *
* * @sample samples.collections.Collections.Aggregates.runningFold

*\n@SinceKotlin("1.4\")@kotlin.internal.InlineOnly\n
public inline fun <R> CharArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {
    if (isEmpty()) return listOf(initial)

    val result = ArrayList<R>(size + 1).apply { add(initial) }

    var accumulator = initial

    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])

        result.add(accumulator)
    }

    return result
}

*\n*\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right
* to each element and current accumulator value that starts with the first element of this array.
* Note that `acc` value passed to [operation] function should not be mutated;
* otherwise it would affect the previous value in resulting list.
* * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
* *
* * @sample samples.collections.Collections.Aggregates.runningReduce

*\n@SinceKotlin("1.4\")@WasExperimental(ExperimentalStdlibApi::class)\n
public inline fun <S, T : S> Array<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> {
    if (isEmpty()) return emptyList()

    var accumulator: S = this[0]

    val result = ArrayList<S>(size).apply { add(accumulator) }

    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])

        result.add(accumulator)
    }

    return result
}

*\n*\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right
* to each element and current accumulator value that starts with the first element of this array.
* * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
* *
* * @sample samples.collections.Collections.Aggregates.runningReduce

*\n@SinceKotlin("1.4\")@kotlin.internal.InlineOnly\n
public inline fun <Byte> ByteArray.runningReduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> {
    if (isEmpty()) return emptyList()

    var accumulator = this[0]

    val result = ArrayList<Byte>(size).apply { add(accumulator) }

    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])

        result.add(accumulator)
    }

    return result
}

*\n*\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right
* to each element and current accumulator value that starts with the first element of this array.
* * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
* *
* * @sample samples.collections.Collections.Aggregates.runningReduce

*\n@SinceKotlin("1.4\")@kotlin.internal.InlineOnly\n
public inline fun <Short> ShortArray.runningReduce(operation: (acc: Short, Short) -> Short): List<Short> {
    if (isEmpty()) return emptyList()

    var accumulator = this[0]

    val result = ArrayList<Short>(size).apply { add(accumulator) }

    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])

        result.add(accumulator)
    }

    return result
}

*\n*\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right
* to each element and current accumulator value that starts with the first element of this array.
* * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
* *
* * @sample samples.collections.Collections.Aggregates.runningReduce

*\n@SinceKotlin("1.4\")@kotlin.internal.InlineOnly\n
public inline fun <T> ArrayBuffer.runningReduce(operation: (acc: T, T) -> T): List<T> {
    if (isEmpty()) return emptyList()

    var accumulator = this[0]

    val result = ArrayList<T>(size).apply { add(accumulator) }

    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])

        result.add(accumulator)
    }

    return result
}
containing successive accumulation values generated by applying [operation] from left to right
"n * to each element and current accumulator value that starts with the first element of this array."n * "n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value."n * "n * @sample samples.collections.Collections.Aggregates.runningReduce

*"n@SinceKotlin("1.4")@kotlin.internal.InlineOnly
unpubic inline fun IntArray.runningReduce(operation: (acc: Int, Int) -> Int): List<Int> { "n if (isEmpty()) return emptyList()"n var accumulator = this[0]"n val result = ArrayList<Int>(size).apply { add(accumulator) }"n for (index in 1 until size) { "n accumulator = operation(accumulator, this[index])"n result.add(accumulator) }"n return result }

*"n@SinceKotlin("1.4")@kotlin.internal.InlineOnly
unpubic inline fun LongArray.runningReduce(operation: (acc: Long, Long) -> Long): List<Long> { "n if (isEmpty()) return emptyList()"n var accumulator = this[0]"n val result = ArrayList<Long>(size).apply { add(accumulator) }"n for (index in 1 until size) { "n accumulator = operation(accumulator, this[index])"n result.add(accumulator) }"n return result }

*"n@SinceKotlin("1.4")@kotlin.internal.InlineOnly
unpubic inline fun FloatArray.runningReduce(operation: (acc: Float, Float) -> Float): List<Float> { "n if (isEmpty()) return emptyList()"n var accumulator = this[0]"n val result = ArrayList<Float>(size).apply { add(accumulator) }"n for (index in 1 until size) { "n accumulator = operation(accumulator, this[index])"n result.add(accumulator) }"n return result }

*"n@SinceKotlin("1.4")@kotlin.internal.InlineOnly
unpubic inline fun DoubleArray.runningReduce(operation: (acc: Double, Double) -> Double): List<Double> { "n if (isEmpty()) return emptyList()"n var accumulator = this[0]"n val result = ArrayList<Double>(size).apply { add(accumulator) }"n for (index in 1 until size) { "n accumulator = operation(accumulator, this[index])"n result.add(accumulator) }"n return result }

*"n@SinceKotlin("1.4")@kotlin.internal.InlineOnly
unpubic inline fun BooleanArray.runningReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> { "n if (isEmpty()) return emptyList()"n var accumulator = this[0]"n val result = ArrayList<Boolean>(size).apply { add(accumulator) }"n for (index in 1 until size) { "n accumulator = operation(accumulator, this[index])"n result.add(accumulator) }"n return result }

*"n@SinceKotlin("1.4")@kotlin.internal.InlineOnly
unpubic inline fun CharArray.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> { "n if (isEmpty()) return emptyList()"n var accumulator = this[0]"n val result = ArrayList<Char>(size).apply { add(accumulator) }"n for (index in 1 until size) { "n accumulator = operation(accumulator, this[index])"n result.add(accumulator) }"n return result }
containing successive accumulation values generated by applying [operation] from left to right\n* to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n*\n* Note that `acc` value passed to [operation] function should not be mutated;\n* otherwise it would affect the previous value in resulting list.\n* \n* @param [operation] function that takes the index of an element, current accumulator value\n* and the element itself, and calculates the next accumulator value.\n*\n*

```kotlin
@SinceKotlin("1.4")
public inline fun <S, T : S> Array<out T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    if (isEmpty()) return emptyList()
    var accumulator: S = this[0]
    val result = ArrayList<S>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

```kotlin
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Byte>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

```kotlin
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun ShortArray.runningReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Short>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

```kotlin
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Int>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

```kotlin
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Long>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```
takes the index of an element, current accumulator value\n* and the element itself, and calculates the next
accumulator value.\n* \n* \n* \n* @sample samples.collections.Collections.Aggregates.runningReduce\n
\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\n\npublic inline fun

FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> \n{\n    \n    if (isEmpty()) return emptyList()\n    val result = ArrayList<Float>(size).apply { \n        result.add(accumulator) \n    }\n    \n    for (index in 1 until size) \n    {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    \n    return result\n}

\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\n\npublic inline fun

DoubleArray.runningReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> \n{\n    \n    if (isEmpty()) return emptyList()\n    val result = ArrayList<Double>(size).apply { \n        result.add(accumulator) \n    }\n    \n    for (index in 1 until size) \n    {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    \n    return result\n}

\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\n\npublic inline fun

BooleanArray.runningReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean> \n{\n    \n    if (isEmpty()) return emptyList()\n    val result = ArrayList<Boolean>(size).apply { \n        result.add(accumulator) \n    }\n    \n    for (index in 1 until size) \n    {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    \n    return result\n}

\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\n\npublic inline fun

CharArray.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> \n{\n    \n    if (isEmpty()) return emptyList()\n    val result = ArrayList<Char>(size).apply { \n        result.add(accumulator) \n    }\n    \n    for (index in 1 until size) \n    {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    \n    return result\n}

\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n\npublic inline fun

Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> \n{\n    \n    return runningFold(initial, \n    operation)\n}

\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic inline fun

Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> \n{\n    \n    return runningFold(initial, \n    operation)\n}

\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic inline fun

Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> \n{\n    \n    return runningFold(initial, \n    operation)\n}

\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic inline fun

Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> \n{\n    \n    return runningFold(initial, \n    operation)\n}

\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic inline fun

Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> \n{\n    \n    return runningFold(initial, \n    operation)\n}

\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic inline fun

Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> \n{\n    \n    return runningFold(initial, \n    operation)\n}
c inline fun <R> ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation]
 * from left to right \n * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; \n * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and
 * calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation]
 * from left to right \n * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; \n * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and
 * calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation]
 * from left to right \n * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; \n * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and
 * calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation]
 * from left to right \n * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; \n * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and
 * calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation]
 * from left to right \n * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; \n * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and
 * calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation]
 * from left to right \n * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; \n * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and
 * calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {
    return runningFold(initial, operation)
}
applying operation from left to right \* to each element and current accumulator value that starts with [initial] value. \* \* \n * Note that `acc` value passed to operation function should not be mutated; otherwise it would affect the previous value in resulting list. \* \* \n * \n * @param operation function that takes current accumulator value and an element, and calculates the next accumulator value. \* \* \n * \n * @sample samples.collections.Collections.Aggregates.scan

*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <T, R> Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying operation from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value. \* \* \n * Note that `acc` value passed to operation function should not be mutated; otherwise it would affect the previous value in resulting list. \* \* \n * @param operation function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value. \* \* \n * \n * @sample samples.collections.Collections.Aggregates.scan

*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <R> ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying operation from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value. \* \* \n * Note that `acc` value passed to operation function should not be mutated; otherwise it would affect the previous value in resulting list. \* \* \n * @param operation function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value. \* \* \n * \n * @sample samples.collections.Collections.Aggregates.scan

*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <R> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying operation from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value. \* \* \n * Note that `acc` value passed to operation function should not be mutated; otherwise it would affect the previous value in resulting list. \* \* \n * @param operation function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value. \* \* \n * \n * @sample samples.collections.Collections.Aggregates.scan

*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing successive accumulation values

*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing successive accumulation values

*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <R> CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {
    return runningFold(initial, operation)
}
generated by applying [operation] from left to right\n to each element, its index in the original array and current
accumulator value that starts with [initial] value\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
 * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Aggregates.scan

 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing successive accumulation values
 * generated by applying [operation] from left to right\n to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
 * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Aggregates.scan

 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing successive accumulation values
 * generated by applying [operation] from left to right\n to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
 * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Aggregates.scan

 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing successive accumulation values
 * generated by applying [operation] from left to right\n to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
 * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Aggregates.scan

 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

@Deprecated("Use runningReducer instead.",
ReplaceWith("runningReducer(operation)"), level =
DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S>
Array<out T>.scanReduce(operation: (acc: S, T) -> S): List<S> {
    return runningReduce(operation)
}

@Deprecated("Use runningReducer instead.",
ReplaceWith("runningReducer(operation)"), level =
DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ByteArray.scanReduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> {
    return runningReduce(operation)
}

@Deprecated("Use runningReducer instead.",
ReplaceWith("runningReducer(operation)"), level =
DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ShortArray.scanReduce(operation: (acc: Short, Short) -> Short): List<Short> {
    return runningReduce(operation)
}

@Deprecated("Use runningReducer instead.",
ReplaceWith("runningReducer(operation)"), level =
DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun IntArray.scanReduce(operation: (acc: Int, Int) -> Int): List<Int> {
    return runningReduce(operation)
}
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR()
a@SinceKotlin("1.3")
a@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun LongArray.scanReduce(operation: (acc: Long, Long) -> Long): List<Long> {
    return runningReduce(operation)
} // Deprecated("Use runningReduce instead.")
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR()
a@SinceKotlin("1.3")
a@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun FloatArray.scanReduce(operation: (acc: Float, Float) -> Float): List<Float> {
    return runningReduce(operation)
} // Deprecated("Use runningReduce instead.")
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR()
a@SinceKotlin("1.3")
a@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun DoubleArray.scanReduce(operation: (acc: Double, Double) -> Double): List<Double> {
    return runningReduce(operation)
} // Deprecated("Use runningReduce instead.")
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR()
a@SinceKotlin("1.3")
a@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun BooleanArray.scanReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {
    return runningReduce(operation)
} // Deprecated("Use runningReduce instead.")
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR()
a@SinceKotlin("1.3")
a@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun CharArray.scanReduceIndexed(operation: (acc: Char, Char) -> Char): List<Char> {
    return runningReduceIndexed(operation)
} // Deprecated("Use runningReduceIndexed instead.")
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR()
a@SinceKotlin("1.3")
a@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun ByteArray.scanReduceIndexed(operation: (acc: Byte, Byte) -> Byte): List<Byte> {
    return runningReduceIndexed(operation)
} // Deprecated("Use runningReduceIndexed instead.")
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR()
a@SinceKotlin("1.3")
a@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun ShortArray.scanReduceIndexed(operation: (acc: Short, Short) -> Short): List<Short> {
    return runningReduceIndexed(operation)
} // Deprecated("Use runningReduceIndexed instead.")
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR()
a@SinceKotlin("1.3")
a@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun IntArray.scanReduceIndexed(operation: (acc: Int, Int) -> Int): List<Int> {
    return runningReduceIndexed(operation)
} // Deprecated("Use runningReduceIndexed instead.")
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR()
a@SinceKotlin("1.3")
a@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun LongArray.scanReduceIndexed(operation: (acc: Long, Long) -> Long): List<Long> {
    return runningReduceIndexed(operation)
} // Deprecated("Use runningReduceIndexed instead.")
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR()
a@SinceKotlin("1.3")
a@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun FloatArray.scanReduceIndexed(operation: (acc: Float, Float) -> Float): List<Float> {
    return runningReduceIndexed(operation)
} // Deprecated("Use runningReduceIndexed instead.")
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR()
a@SinceKotlin("1.3")
a@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun DoubleArray.scanReduceIndexed(operation: (acc: Double, Double) -> Double): List<Double> {
    return runningReduceIndexed(operation)
} // Deprecated("Use runningReduceIndexed instead.")
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR()
instead.\n}, ReplaceWith("runningReduceIndexed(operation)\n"), level =
DeprecationLevel.ERROR)@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.scanReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean):
List<Boolean> {\n    return runningReduceIndexed(operation)\n}
@Deprecated("Use runningReduceIndexed instead.\n", ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly\npublic inline fun CharArray.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char):
List<Char> {\n    return runningReduceIndexed(operation)\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun IntArray.sumBy(selector: (Int) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun LongArray.sumBy(selector: (Long) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun DoubleArray.sumBy(selector: (Double) -> Int): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun CharArray.sumBy(selector: (Char) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
public inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)\n    }
    return sum\n}
(Double) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun ByteArray.sumOf(selector: (Byte) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun ShortArray.sumOf(selector: (Short) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun IntArray.sumOf(selector: (Int) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun LongArray.sumOf(selector: (Long) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun FloatArray.sumOf(selector: (Float) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun DoubleArray.sumOf(selector: (Double) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
public inline fun CharArray.sumOf(selector: (Char) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun ByteArray.sumOf(selector: (Byte) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun ShortArray.sumOf(selector: (Short) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun IntArray.sumOf(selector: (Int) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun LongArray.sumOf(selector: (Long) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun FloatArray.sumOf(selector: (Float) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun DoubleArray.sumOf(selector: (Double) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun BooleanArray.sumOf(selector: (Boolean) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
selector(element) | return sum

* Returns the sum of all values produced by [selector] function applied to each element in the array.

*An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun StringArray.sumOf(selector: (String) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (CharSequence) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun Collection<out Collection<out Any>>.sumOf(selector: (Collection<out Collection<out Any>>) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun List<out List<out Any>>.sumOf(selector: (List<out List<out Any>>) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun Sequence<out Sequence<out Any>>.sumOf(selector: (Sequence<out Sequence<out Any>>) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun Array<out Array<out Any>>.sumOf(selector: (Array<out Array<out Any>>) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun Array<out Array<out Array<out Any>>>.sumOf(selector: (Array<out Array<out Array<out Any>>>) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun Array<out Array<out Array<out Array<out Any>>>>.sumOf(selector: (Array<out Array<out Array<out Array<out Any>>>>) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun Array<out Array<out Array<out Array<out Array<out Any>>>>>.sumOf(selector: (Array<out Array<out Array<out Array<out Array<out Any>>>>>) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum

* An@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("\sumOfLong")@kotlin.internal.InlineOnly\npublic inline fun Array<out Array<out Array<out Array<out Array<out Array<out Any>>>>>>.sumOf(selector: (Array<out Array<out Array<out Array<out Array<out Array<out Any>>>>>>>) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ShortArray.sumOf(selector: (Short) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun CharArray.sumOf(selector: (Char) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
the sum of all values produced by [selector] function applied to each element in the array.

```kotlin
public inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
```

```kotlin
public inline fun ShortArray.sumOf(selector: (Short) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
```

```kotlin
public inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
```

```kotlin
public inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
```

```kotlin
public inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
```

```kotlin
public inline fun DoubleArray.sumOf(selector: (Double) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
```

```kotlin
public inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
```

```kotlin
public inline fun CharArray.sumOf(selector: (Char) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
```

```kotlin
public fun <T : Any> Array<T?>.requireNoNulls(): Array<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as Array<T>
}
```

```kotlin
private inline fun <T> Array<out T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second =
```
ArrayList<T>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */
public inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {
    val first = ArrayList<Byte>()
    val second = ArrayList<Byte>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */
public inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {
    val first = ArrayList<Short>()
    val second = ArrayList<Short>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */
public inline fun IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {
    val first = ArrayList<Int>()
    val second = ArrayList<Int>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */
public inline fun LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {
    val first = ArrayList<Long>()
    val second = ArrayList<Long>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */
public inline fun FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {
    val first = ArrayList<Float>()
    val second = ArrayList<Float>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */
public inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {
    val first = ArrayList<Double>()
    val second = ArrayList<Double>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */
public inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {
    val first = ArrayList<Boolean>()
    val second = ArrayList<Boolean>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */
public inline fun CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {
    val first = ArrayList<Char>()
    val second = ArrayList<Char>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}
```kotlin
first = ArrayList<Char>()
second = ArrayList<Char>()
for (element in this)
    if (predicate(element))
        first.add(element)
    else
        second.add(element)

return Pair(first, second)
```

```kotlin
/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <T, R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>>
    return zip(other) { t1, t2 -> t1 to t2 }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>>
    return zip(other) { t1, t2 -> t1 to t2 }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun ShortArray.zip(other: Array<out R>): List<Pair<Short, R>>
    return zip(other) { t1, t2 -> t1 to t2 }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun IntArray.zip(other: Array<out R>): List<Pair<Int, R>>
    return zip(other) { t1, t2 -> t1 to t2 }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun LongArray.zip(other: Array<out R>): List<Pair<Long, R>>
    return zip(other) { t1, t2 -> t1 to t2 }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun FloatArray.zip(other: Array<out R>): List<Pair<Float, R>>
    return zip(other) { t1, t2 -> t1 to t2 }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun DoubleArray.zip(other: Array<out R>): List<Pair<Double, R>>
    return zip(other) { t1, t2 -> t1 to t2 }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>>
    return zip(other) { t1, t2 -> t1 to t2 }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun CharArray.zip(other: Array<out R>): List<Pair<Char, R>>
    return zip(other) { t1, t2 -> t1 to t2 }
```

```kotlin
/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> Array<out T>.zipIterableWithTransformFn(transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size = minOf(size, other.size))
    for (i in 0 until size)
        list.add(transform(this[i], other[i]))
    return list
}
```

```kotlin
/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> ByteArray.zipIterableWithTransformFn(transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size = minOf(size, other.size))
    for (i in 0 until size)
        list.add(transform(this[i], other[i]))
    return list
}
```

```kotlin
/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> ShortArray.zipIterableWithTransformFn(transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size = minOf(size, other.size))
    for (i in 0 until size)
        list.add(transform(this[i], other[i]))
    return list
}
```

```kotlin
/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> IntArray.zipIterableWithTransformFn(transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size = minOf(size, other.size))
    for (i in 0 until size)
        list.add(transform(this[i], other[i]))
    return list
}
```

```kotlin
/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> LongArray.zipIterableWithTransformFn(transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size = minOf(size, other.size))
    for (i in 0 until size)
        list.add(transform(this[i], other[i]))
    return list
}
```

```kotlin
/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> FloatArray.zipIterableWithTransformFn(transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size = minOf(size, other.size))
    for (i in 0 until size)
        list.add(transform(this[i], other[i]))
    return list
}
```

```kotlin
/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> DoubleArray.zipIterableWithTransformFn(transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size = minOf(size, other.size))
    for (i in 0 until size)
        list.add(transform(this[i], other[i]))
    return list
}
```

```kotlin
/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> BooleanArray.zipIterableWithTransformFn(transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size = minOf(size, other.size))
    for (i in 0 until size)
        list.add(transform(this[i], other[i]))
    return list
}
```

```kotlin
/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> CharArray.zipIterableWithTransformFn(transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size = minOf(size, other.size))
    for (i in 0 until size)
        list.add(transform(this[i], other[i]))
    return list
}
```

```kotlin
/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> ByteArray.zipIterableWithTransformFn(transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size = minOf(size, other.size))
    for (i in 0 until size)
        list.add(transform(this[i], other[i]))
    return list
}
```
ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

CharArray.zip(other: Iterable<R>): List<Pair<Char, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

CharArray.zip(other: Iterable<R>): List<Pair<Char, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

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elements of `this` collection and [other] array with the same index.

The returned list has length of the shortest collection.

* @sample samples.collections.Iterables.Operations.zip

IntArray.zip(other: Iterable<R>): List<Pair<Int, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

LongArray.zip(other: Iterable<R>): List<Pair<Long, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

IntArray.zip(other: Iterable<R>): List<Pair<Int, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

LongArray.zip(other: Iterable<R>): List<Pair<Long, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

IntArray.zip(other: Iterable<R>): List<Pair<Int, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

LongArray.zip(other: Iterable<R>): List<Pair<Long, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

IntArray.zip(other: Iterable<R>): List<Pair<Int, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

LongArray.zip(other: Iterable<R>): List<Pair<Long, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

IntArray.zip(other: Iterable<R>): List<Pair<Int, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

LongArray.zip(other: Iterable<R>): List<Pair<Long, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

IntArray.zip(other: Iterable<R>): List<Pair<Int, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

LongArray.zip(other: Iterable<R>): List<Pair<Long, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.

FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>>

* @sample samples.collections.Iterables.Operations.zip

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.

* The returned list has length of the shortest collection.
  val arraySize = size  
  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))  
  var i = 0  
  for (element in other) {  
    if (i >= arraySize) break  
    list.add(transform(this[i++], element))  
  }  
  return list
}

fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {  
  val arraySize = size  
  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))  
  var i = 0  
  for (element in other) {  
    if (i >= arraySize) break  
    list.add(transform(this[i++], element))  
  }  
  return list
}

fun <R, V> BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {  
  val arraySize = size  
  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))  
  var i = 0  
  for (element in other) {  
    if (i >= arraySize) break  
    list.add(transform(this[i++], element))  
  }  
  return list
}

fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {  
  val arraySize = size  
  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))  
  var i = 0  
  for (element in other) {  
    if (i >= arraySize) break  
    list.add(transform(this[i++], element))  
  }  
  return list
}

fun <R, V> ByteArray.zip(other: ByteArray): List<Pair<Byte, Byte>> {  
  return zip(other) { t1, t2 -> t1 to t2 }
}

fun <R, V> ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {  
  return zip(other) { t1, t2 -> t1 to t2 }
}

fun <R, V> IntArray.zip(other: IntArray): List<Pair<Int, Int>> {  
  return zip(other) { t1, t2 -> t1 to t2 }
}

  return zip(other) { t1, t2 -> t1 to t2 }
}
the elements of `this` array and the [other] array with the same index.

The returned list has length of the shortest collection.

* @sample collections.Iterables.Operations.zip

```java
public infix fun DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> { 
    return zip(other) { t1, t2 -> t1 to t2 } } 
```
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```java
public fun <A : Appendable> Array.joinTo(buffer: A, separator: CharSequence = "", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1)
            else break
    }
    return buffer
}

/**
 * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * In which case only the first [limit] * elements will be appended, followed by the [truncated] string (which defaults to ["..."]).
 * @sample samples.collections.Transformations.joinTo
 */
public fun <A : Appendable> Array.joinTo(buffer: A, separator: CharSequence = "", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1)
            else break
    }
    return buffer.append(separator) +
```

The returned list has length of the shortest array. * @sample samples.collections.Operations.zipIterableWithTransform */

```java
CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {
    val size = minOf(size, other.size)
    var count = 0
    for (i in 0 until size) {
        val result = transform(this[i], other[i])
        if (limit < 0 || count <= limit) {
            buffer.appendElement(result)
        } else break
    }
    return list
}
```

The returned list has length of the shortest array.
append(separator)
            else
                buffer.append(element.toString())
        } else break
    }
    if (buffer.append(separator))
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
        } else
            buffer.append(element.toString())
    }

    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied. In [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * The collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 */
public fun <A : Appendable> CharSequence.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((CharSequence) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(transform(element))
        else
            buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied. In [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * The collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 */
public fun <A : Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((CharSequence) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(transform(element))
        else
            buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied. In [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * The collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 */
public fun <A : Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(transform(element))
        else
            buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied. In [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * The collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 */
public fun <A : Appendable> DoubleArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Double) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(transform(element))
        else
            buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied. In [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * The collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 */
public fun <A : Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(transform(element))
        else
            buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied. In [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * The collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 */
public fun <A : Appendable> IntegerArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(transform(element))
        else
            buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied. In [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * The collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 */
public fun <A : Appendable> LongArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(transform(element))
        else
            buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
(limit >= 0 & count > limit) buffer.append(truncated)\nbuffer.append(postfix)\nreturn buffer\n
* Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "\n\n..."").\n
@sample samples.collections.Collections.Transformations.joinToString\n*\n
*/

fun <T> Array<T>.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "\n", transform: ((T) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

fun ByteArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

fun ShortArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

fun IntArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

fun LongArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

fun FloatArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

fun DoubleArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Double) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
CharSequence = "\"\", separator: CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "\"\", transform: (Char) -> Char = null): String {

    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
 * [limit] * * elements will be appended, followed by the [truncated] string (which defaults to "\"\") * * * * *
 */
public fun <T> Array<out T>.asIterable(): Iterable<T> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun ByteArray.asIterable(): Iterable<Byte> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun ShortArray.asIterable(): Iterable<Short> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun IntArray.asIterable(): Iterable<Int> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun LongArray.asIterable(): Iterable<Long> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun FloatArray.asIterable(): Iterable<Float> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun DoubleArray.asIterable(): Iterable<Double> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun BooleanArray.asIterable(): Iterable<Boolean> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun CharArray.asIterable(): Iterable<Char> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun <T> Array<out T>.asSequence(): Sequence<T> {

    return sequenceFromArray(this)
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun ByteArray.asSequence(): Sequence<Byte> {

    return sequenceFromArray(this)
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun ShortArray.asSequence(): Sequence<Short> {

    return sequenceFromArray(this)
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun IntArray.asSequence(): Sequence<Int> {

    return sequenceFromArray(this)
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun LongArray.asSequence(): Sequence<Long> {

    return sequenceFromArray(this)
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun FloatArray.asSequence(): Sequence<Float> {

    return sequenceFromArray(this)
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun DoubleArray.asSequence(): Sequence<Double> {

    return sequenceFromArray(this)
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun BooleanArray.asSequence(): Sequence<Boolean> {

    return sequenceFromArray(this)
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun CharArray.asSequence(): Sequence<Char> {

    return sequenceFromArray(this)
}
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.

```kotlin
@sample samples.collections.Sequences.Building.sequenceFromArray
/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun LongArray.asSequence(): Sequence<Long> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun FloatArray.asSequence(): Sequence<Float> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun DoubleArray.asSequence(): Sequence<Double> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun BooleanArray.asSequence(): Sequence<Boolean> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Array<out Byte>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfShort")
public fun Array<out Short>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Array<out Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfLong")
public fun Array<out Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Array<out Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Array<out Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}
```
sum += element
++count
}
return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Array<out Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Array<out Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Array<out Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Array<out Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Array<out Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Array<out Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun ByteArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun ShortArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun IntArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun LongArray.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun FloatArray.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun DoubleArray.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}
random.nextInt(first.toInt(), last.toInt() + 1).toChar()
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Returns a random element from this range, or `null` if this range is empty.
 * 
 * Always returns `true` if the specified [element] is `null`.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline operator fun IntRange.contains(element: Int?): Boolean {
    return element != null && contains(element)
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 * 
 * Always returns `true` if the specified [element] is `null`.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline operator fun LongRange.contains(element: Long?): Boolean {
    return element != null && contains(element)
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 * 
 * Always returns `true` if the specified [element] is `null`.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline operator fun CharRange.contains(element: Char?): Boolean {
    return element != null && contains(element)
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("intRangeContains")
public operator fun ClosedRange<Int>.contains(value: Byte): Boolean {
    return contains(value.toInt())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun ClosedRange<Long>.contains(value: Byte): Boolean {
    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("shortRangeContains")
public operator fun ClosedRange<Short>.contains(value: Byte): Boolean {
    return contains(value.toShort())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Byte): Boolean {
    return contains(value.toDouble())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Byte): Boolean {
    return contains(value.toFloat())
}
Checks if the specified [value] belongs to this range.

```kotlin
public operator fun ClosedRange<Int>.contains(value: Double): Boolean {
    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }
}

public operator fun ClosedRange<Long>.contains(value: Double): Boolean {
    return value.toLongExactOrNull().let { if (it != null) contains(it) else false }
}

public operator fun ClosedRange<Byte>.contains(value: Double): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}

public operator fun ClosedRange<Short>.contains(value: Double): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }
}

public operator fun ClosedRange<Float>.contains(value: Float): Boolean {
    return contains(value.toFloat())
}
```

Checks if the specified [value] belongs to this range.

```kotlin
public operator fun ClosedRange<Int>.contains(value: Float): Boolean {
    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }
}

public operator fun ClosedRange<Long>.contains(value: Float): Boolean {
    return value.toLongExactOrNull().let { if (it != null) contains(it) else false }
}

public operator fun ClosedRange<Byte>.contains(value: Float): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}

public operator fun ClosedRange<Short>.contains(value: Float): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }
}
```

Checks if the specified [value] belongs to this range.

```kotlin
public operator fun ClosedRange<Double>.contains(value: Float): Boolean {
    return contains(value.toDouble())
}
```

Checks if the specified [value] belongs to this range.

```kotlin
public operator fun ClosedRange<Int>.contains(value: Int): Boolean {
    return contains(value.toLong())
}

public operator fun ClosedRange<Byte>.contains(value: Int): Boolean {
    return value.toByteExactOrNull().let { if (it != null) }
}
```

Checks if the specified [value] belongs to this range.

```kotlin
public operator fun ClosedRange<Long>.contains(value: Int): Boolean {
    return contains(value.toLong())
}
```

Checks if the specified [value] belongs to this range.

```kotlin
public operator fun ClosedRange<Short>.contains(value: Int): Boolean {
    return value.toShortExactOrNull().let { if (it != null) }
}
```
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Int):
Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if
the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun
ClosedRange<Double>.contains(value: Int): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n * Checks
if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value:
Int): Boolean {\n return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value:
Long): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic
operator fun ClosedRange<Byte>.contains(value: Long): Boolean {\n return value.toByteExactOrNull().let { if (it
!= null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value:
Long): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun
ClosedRange<Double>.contains(value: Long): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value:
Long): Boolean {\n return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value:
Short): Boolean {\n return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun
ClosedRange<Long>.contains(value: Short): Boolean {\n return contains(value.toLong())\n}\n\n/**\n * Checks if
the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator
fun ClosedRange<Byte>.contains(value: Short): Boolean {\n return value.toByteExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun
ClosedRange<Double>.contains(value: Short): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince =
\"1.4\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value:
Short): Boolean {\n return contains(value.toFloat())\n}\n\n/**\n * Returns a progression from this value down to
the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the
[to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Byte):

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IntProgression \{ return IntProgression.fromClosedRange(this, to.toInt(), -1) \}

* Returns a progression from this value down to the specified [to] value with the step -1. If the [to] value is greater than this value the returned progression is empty. *

* If the [to] value is greater than this value the returned progression is empty. *

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* If the [to] value is greater than this value the returned progression is empty. *
to.toLong(), -1L\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.\n|\n**\n* Returns a progression from this value down to the specified [to] value with the step -1\n|\n**\n* The [to] value should be less than or equal to 'this' value.\n|\n**\n* If the [to] value is greater than 'this' value the returned progression is empty.
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* Ensures that this value is not less than the specified [minimumValue].

```kotlin
public fun Byte.coerceAtLeast(minimumValue: Byte): Byte {
    return if (this < minimumValue) minimumValue else this
}
```

```kotlin
public fun Short.coerceAtLeast(minimumValue: Short): Short {
    return if (this < minimumValue) minimumValue else this
}
```

```kotlin
public fun Int.coerceAtLeast(minimumValue: Int): Int {
    return if (this < minimumValue) minimumValue else this
}
```

```kotlin
public fun Long.coerceAtLeast(minimumValue: Long): Long {
    return if (this < minimumValue) minimumValue else this
}
```

```kotlin
public fun Float.coerceAtLeast(minimumValue: Float): Float {
    return if (this < minimumValue) minimumValue else this
}
```

```kotlin
public fun Double.coerceAtLeast(minimumValue: Double): Double {
    return if (this < minimumValue) minimumValue else this
}
```

```kotlin
public fun Byte.coerceAtMost(maximumValue: Byte): Byte {
    return if (this > maximumValue) maximumValue else this
}
```

```kotlin
public fun Short.coerceAtMost(maximumValue: Short): Short {
    return if (this > maximumValue) maximumValue else this
}
```

```kotlin
public fun Int.coerceAtMost(maximumValue: Int): Int {
    return if (this > maximumValue) maximumValue else this
}
```

```kotlin
public fun Long.coerceAtMost(maximumValue: Long): Long {
    return if (this > maximumValue) maximumValue else this
}
```

```kotlin
public fun Float.coerceAtMost(maximumValue: Float): Float {
    return if (this > maximumValue) maximumValue else this
}
```

```kotlin
public fun Double.coerceAtMost(maximumValue: Double): Double {
    return if (this > maximumValue) maximumValue else this
}
```

```kotlin
public fun Byte.coerceAtMostComparable(maximumValue: Byte): Byte {
    return if (this > maximumValue) maximumValue else this
}
```

```kotlin
public fun Short.coerceAtMostComparable(maximumValue: Short): Short {
    return if (this > maximumValue) maximumValue else this
}
```

```kotlin
public fun Int.coerceAtMostComparable(maximumValue: Int): Int {
    return if (this > maximumValue) maximumValue else this
}
```

```kotlin
public fun Long.coerceAtMostComparable(maximumValue: Long): Long {
    return if (this > maximumValue) maximumValue else this
}
```

```kotlin
public fun Float.coerceAtMostComparable(maximumValue: Float): Float {
    return if (this > maximumValue) maximumValue else this
}
```

```kotlin
public fun Double.coerceAtMostComparable(maximumValue: Double): Double {
    return if (this > maximumValue) maximumValue else this
}
```
Double): Double {
    return if (this > maximumValue) maximumValue
    else this
}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceIn
 */
public fun <T : Comparable<T>> T.coerceIn(minimumValue: T?, maximumValue: T?): T {
    if (minimumValue !== null && maximumValue !== null) {
        if (minimumValue > maximumValue) throw
        IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
        if (this < minimumValue) return minimumValue
        if (this > maximumValue) return maximumValue
    }
    else {
        if (minimumValue !== null) {
            if (this < minimumValue) return minimumValue
        } else if (maximumValue !== null) {
            if (this > maximumValue) return maximumValue
        }
    }
    return this
}

/**
 * Ensures that this value lies in the specified range
 * [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceIn
 */
public fun Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {
    if (minimumValue > maximumValue) throw
    IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range
 * [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceIn
 */
public fun Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {
    if (minimumValue > maximumValue) throw
    IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range
 * [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceIn
 */
public fun Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {
    if (minimumValue > maximumValue) throw
    IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range
 * [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceIn
 */
public fun Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {
    if (minimumValue > maximumValue) throw
    IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range
 * [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceIn
 */
public fun Float.coerceIn(minimumValue: Float, maximumValue: Float): Float {
    if (minimumValue > maximumValue) throw
    IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range
 * [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceIn
 */
public fun Double.coerceIn(minimumValue: Double, maximumValue: Double): Double {
    return if (this > maximumValue) maximumValue
    else this
}
maximumValue: Double): Double {
    if (minimumValue > maximumValue) throw
    IllegalArgumentOutOfRangeException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    return this
}

@sample samples.comparisons.ComparableOps.coerceInFloatingPointRange
public fun <T : Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {
    if (range.isEmpty()) throw
    IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this > range.endInclusive -> range.endInclusive
        else -> this
    }
}

/**
 * Ensures that this value lies in the specified 
 * range.
 * 
 * @return this value if it's in the range, or else the range's start or end inclusive.
 * @sample
 * samples.comparisons.ComparableOps.coerceIn
 */
public fun Int.coerceIn(range: ClosedRange<Int>): Int {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<Int>(range)
    }
    if (range.isEmpty()) throw
    IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this > range.endInclusive -> range.endInclusive
        else -> this
    }
}

/**
 * Ensures that this value lies in the specified 
 * range.
 * 
 * @return this value if it's in the range, or else the range's start or end inclusive.
 * @sample
 * samples.comparisons.ComparableOps.coerceIn
 */
public fun Long.coerceIn(range: ClosedRange<Long>): Long {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<Long>(range)
    }
    if (range.isEmpty()) throw
    IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this > range.endInclusive -> range.endInclusive
        else -> this
    }
}
Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
*\n @kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UShort): Int = this.toUShort().compareTo(other.toInt())
/**\n * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)
/**\n * Compares this value with the specified value for order.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: ULong): Int =
this.toULong().compareTo(other)
/** Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())
/** Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())
/** Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)
/** Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other)
/** Subtracts the other value from this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())
/** Subtracts the other value from this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())
/** Subtracts the other value from this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)
/** Subtracts the other value from this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)
/** Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())
/** Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())
/** Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)
/** Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)
/** Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())
/** Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())
/** Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)
/** Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)
/** Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())
/** Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())
/** Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other)
/** Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)
/** Increments this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun inc(): UByte = this.data.inc()
/** Decrement this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun dec(): UByte = this.data.dec()
two values. */
    @kotlin.internal.InlineOnly
    public inline infix fun or(other: UByte): UByte = UByte(this.data or other.data)
    /** Performs a bitwise XOR operation between the two values. */
    @kotlin.internal.InlineOnly
    public inline infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)
    /** Inverts the bits in this value. */
    @kotlin.internal.InlineOnly
    public inline fun inv(): UByte = UByte(data.inv())
    /** Performs a bitwise XOR operation between the two values. */
    @kotlin.internal.InlineOnly
    public inline infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)
    /** Inverts the bits in this value. */
    @kotlin.internal.InlineOnly
    public inline fun inv(): UByte = UByte(data.inv())
    /** Converts this [UByte] value to [Byte]. */
    @kotlin.internal.InlineOnly
    public inline fun toByte(): Byte = data
    /** Converts this [UByte] value to [Short]. */
    @kotlin.internal.InlineOnly
    public inline fun toShort(): Short = data.toShort() and 0xFF
    /** Converts this [UByte] value to [Int]. */
    @kotlin.internal.InlineOnly
    public inline fun toInt(): Int = data.toInt() and 0xFF
    /** Converts this [UByte] value to [Long]. */
    @kotlin.internal.InlineOnly
    public inline fun toLong(): Long = data.toLong() and 0xFF
    /** Converts this [UByte] value to [Float]. */
    @kotlin.internal.InlineOnly
    public inline fun toFloat(): Float = this.toFloat()
    /** Converts this [UByte] value to [Double]. */
    @kotlin.internal.InlineOnly
    public inline fun toDouble(): Double = this.toDouble()
    public override fun toString(): String = toInt().toString()

    /** Converts this [Byte] value to [UByte]. */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun Byte.toUByte(): UByte = UByte(this)
    /** Converts this [Short] value to [UByte]. */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun Short.toUByte(): UByte = UByte(this.toByte())
    /** Converts this [Int] value to [UByte]. */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun Int.toUByte(): UByte = UByte(this.toByte())
    /** Converts this [Long] value to [UByte]. */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun Long.toUByte(): UByte = UByte(this.toByte())
    /** Converts this [Float] value to [UByte]. */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun Float.toUByte(): UByte = UByte(this.toFloat())
    /** Converts this [Double] value to [UByte]. */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun Double.toUByte(): UByte = UByte(this.toDouble())
    public override fun toString(): String = toString()}
/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) : Comparable<UInt> {

    companion object {
        /**
         * A constant holding the minimum value an instance of UInt can have.
         */
        public const val MIN_VALUE: UInt = UInt(0)

        /**
         * A constant holding the maximum value an instance of UInt can have.
         */
        public const val MAX_VALUE: UInt = UInt(-1)

        /**
         * The number of bytes used to represent an instance of UInt in a binary form.
         */
        public const val SIZE_BYTES: Int = 4

        /**
         * The number of bits used to represent an instance of UInt in a binary form.
         */
        public const val SIZE_BITS: Int = 32
    }

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
     * or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
     * or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
     * or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    @Suppress("OVERRIDE_BY_INLINE")
    public override inline operator fun compareTo(other: UInt): Int = uintCompare(this.data, other.data)

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
     * or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)

    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())

    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())

    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UInt): UInt = UInt(this.data.minus(other.data))

    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: ULong): ULong = this.toULong().times(other)
}
public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\n /** Multiplies this value
by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)\n\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())\n /** Divides this value by the other
value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): UInt =
this.div(other.toUInt())\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun div(other: UInt): UInt = uintDivide(this, other)\n /** Divides this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n /** Calculates the remainder of dividing this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())\n /**
Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())\n /** Calculates the remainder of dividing
this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt
= uintRemainder(this, other)\n /** Calculates the remainder of dividing this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n /** Increments this value. */\n @kotlin.internal.InlineOnly\n public inline
operator fun inc(): UInt = UInt(data.inc())\n /** Decrements this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun dec(): UInt = UInt(data.dec())\n\n /** Creates a range from this value to the specified
[other] value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UInt): UIntRange =
UIntRange(this, other)\n\n /** Shifts this value left by the [bitCount] number of bits. */\n
@kotlin.internal.InlineOnly\n public inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\n /**
Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */\n
@kotlin.internal.InlineOnly\n public inline infix fun shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n /**
Performs a bitwise AND operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix
fun and(other: UInt): UInt = UInt(this.data and other.data)\n /** Performs a bitwise OR operation between the two
values. */\n @kotlin.internal.InlineOnly\n public inline infix fun or(other: UInt): UInt = UInt(this.data or
other.data)\n /** Performs a bitwise XOR operation between the two values. */\n @kotlin.internal.InlineOnly\n
public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\n /** Inverts the bits in this value.
*/\n @kotlin.internal.InlineOnly\n public inline fun inv(): UInt = UInt(data.inv())\n\n /**\n * Converts this
[UInt] value to [Byte].\n *\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte`
value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `Byte` value is
represented by the least significant 8 bits of this `UInt` value.\n * Note that the resulting `Byte` value may be
negative.\n */\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n /**\n *
Converts this [UInt] value to [Short].\n *\n * If this value is less than or equals to [Short.MAX_VALUE], the
resulting `Short` value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `Short`
value is represented by the least significant 16 bits of this `UInt` value.\n * Note that the resulting `Short` value
may be negative.\n */\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data.toShort()\n
/**\n * Converts this [UInt] value to [Int].\n *\n * If this value is less than or equals to [Int.MAX_VALUE],
the resulting `Int` value represents\n * the same numerical value as this `UInt`. Otherwise the result is negative.\n
*\n * The resulting `Int` value has the same binary representation as this `UInt` value.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data\n /**\n * Converts this [UInt] value to
[Long].\n *\n * The resulting `Long` value represents the same numerical value as this `UInt`.\n *\n * The
least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,\n * whereas the
most significant 32 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toLong():
Long = data.toLong() and 0xFFFF_FFFF\n\n /**\n * Converts this [UInt] value to [UByte].\n *\n * If this
value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same
numerical value as this `UInt`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits
of this `UInt` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte =

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data.toUByte() /** Converts this [UInt] value to [UShort]. */ \n * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents the same numerical value as this `UInt`.
 * The resulting `UShort` value is represented by the least significant 16 bits of this `UInt` value. */
@kotlin.internal.InlineOnly public inline fun toUShort(): UShort = data.toUShort() /** Returns this value. */
@kotlin.internal.InlineOnly public inline fun toUInt(): UInt = this /** Converts this [UInt] value to [ULong]. */
* The resulting `ULong` value represents the same numerical value as this `UInt`. *
* The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value, whenever the most significant 32 bits are filled with zeros. */
@kotlin.internal.InlineOnly public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF) /** Converts this [UInt] value to [Float]. */
* The resulting `Float` value is the closest `Float` to this `UInt` value. * In case when this `UInt` value is exactly between two `Float`s, the one with zero at least significant bit of mantissa is selected. */
@kotlin.internal.InlineOnly public inline fun toFloat(): Float = this.toDouble().toFloat() /** Converts this [UInt] value to [Double]. */
* The resulting `Double` value represents the same numerical value as this `UInt`. */
* The one with zero at least significant bit of mantissa is selected. */
@kotlin.internal.InlineOnly public inline fun toDouble(): Double = uintToDouble(data)
public override fun toString(): String = toLong().toString()

/** Converts this [Byte] value to [UInt]. */
* If this value is positive, the resulting `UInt` value represents the same numerical value as this `Byte`. */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes public inline fun Byte.toUInt(): UInt = UInt(this.toInt())
/** Converts this [Short] value to [UInt]. */
* The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `Byte` value, whereas the most significant 24 bits are filled with the sign bit of this value. */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes public inline fun Short.toUInt(): UInt = UInt(this.toInt())
/** Converts this [Int] value to [UInt]. */
* The least significant 32 bits of this `Int` value have the same binary representation as this `Int` value. */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes public inline fun Int.toUInt(): UInt = UInt(this)
/** Converts this [Long] value to [UInt]. */
* If this value is positive and less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents the same numerical value as this `Long`. */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes public inline fun Long.toUInt(): UInt = UInt(this.toLong())
/** Converts this [Float] value to [UInt]. */
* The fractional part, if any, is rounded down towards zero. */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes public inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())
/** Converts this [Double] value to [UInt]. */
* The fractional part, if any, is rounded down towards zero. */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes public inline fun Double.toUInt(): UInt = doubleToUInt(this) /* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming contributors. */
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. */
*/\n*/ AUTO-generated file. DO NOT EDIT\n*/
@kotlin.experimental.*\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class UShort @PublishedApi internal constructor(@PublishedApi internal val data: Short) : Comparable<UShort> { \n* Companion object \n**\n* A constant holding the minimum value an instance of UShort can have. */
* A constant holding the maximum value an instance of
UShort can have.

```kotlin
public const val MAX_VALUE: UShort = UShort(-1)

/**
 * The number of bytes used to represent an instance of UShort in a binary form.
 */
public const val SIZE_BYTES: Int = 2

/**
 * The number of bits used to represent an instance of UShort in a binary form.
 */
public const val SIZE_BITS: Int = 16

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
@Suppress("OVERRIDE_BY_INLINE")
public override inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: ULong): ULong = this.toULong().compareTo(other)
```

```kotlin
/**
 * Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())

/**
 * Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())

/**
 * Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)

/**
 * Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)

/**
 * Subtracts the other value from this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())

/**
 * Subtracts the other value from this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())

/**
 * Subtracts the other value from this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)

/**
 * Subtracts the other value from this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)

/**
 * Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())

/**
 * Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())

/**
 * Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)

/**
 * Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: ULong): ULong = this.toULong().times(other)

/**
 * Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())

/**
 * Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())

/**
 * Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)

/**
 * Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong = this.toULong().div(other)

/**
 * Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())

/**
 * Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())

/**
 * Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other.toUInt())

/**
 * Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)
```
Calculates the remainder of dividing this value by the other value. *
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)
/** Increments this value. *
@kotlin.internal.InlineOnly
public inline operator fun inc(): UShort = UShort(data.inv())
/** Decrements this value. *
@kotlin.internal.InlineOnly
public inline operator fun dec(): UShort = UShort(data.dec())
/** Creates a range from this value to the specified [other] value. *
@kotlin.internal.InlineOnly
public inline operator fun rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())
/** Performs a bitwise AND operation between the two values. *
@kotlin.internal.InlineOnly
public inline fun xor(other: UShort): UShort = UShort(this.data xor other.data)
/** Inverts the bits in this value. *
@kotlin.internal.InlineOnly
public inline fun inv(): UShort = UShort(data.inv())
/** Converts this [UShort] value to [Byte]. *
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte()
/** Converts this [UShort] value to [Byte] value.
* The resulting `Byte` value represents this `UShort`. *
* The resulting `Byte` value is represented by the least significant 8 bits of this `UShort` value.
* Note that the resulting `Byte` value may be negative.
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() */
* Converts this [UShort] value to [Byte]. *
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents this `UShort`. *
* The least significant 16 bits of the resulting `Byte` value are the same as the bits of this `UShort` value,
* whereas the most significant 16 bits are filled with zeros.
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() */
* Converts this [UShort] value to [Byte]. *
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents this `UShort`. *
* The least significant 16 bits of the resulting `Byte` value are the same as the bits of this `UShort` value,
* whereas the most significant 16 bits are filled with zeros.
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() */
* Converts this [UShort] value to [Byte]. *
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents this `UShort`. *
* The least significant 16 bits of the resulting `Byte` value are the same as the bits of this `UShort` value,
* whereas the most significant 16 bits are filled with zeros.
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() */
* Converts this [UShort] value to [Byte]. *
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents this `UShort`. *
* The least significant 16 bits of the resulting `Byte` value are the same as the bits of this `UShort` value,
* whereas the most significant 16 bits are filled with zeros.
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() */
* Converts this [UShort] value to [Byte]. *
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents this `UShort`. *
* The least significant 16 bits of the resulting `Byte` value are the same as the bits of this `UShort` value,
* whereas the most significant 16 bits are filled with zeros.
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() */
* Converts this [UShort] value to [Byte]. *
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents this `UShort`. *
* The least significant 16 bits of the resulting `Byte` value are the same as the bits of this `UShort` value,
* whereas the most significant 16 bits are filled with zeros.
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() */
* Converts this [UShort] value to [Byte]. *
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents this `UShort`. *
* The least significant 16 bits of the resulting `Byte` value are the same as the bits of this `UShort` value,
* whereas the most significant 16 bits are filled with zeros.
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() */
* Converts this [UShort] value to [Byte]. *
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents this `UShort`. *
* The least significant 16 bits of the resulting `Byte` value are the same as the bits of this `UShort` value,
* whereas the most significant 16 bits are filled with zeros.
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() */
* Converts this [UShort] value to [Byte]. *
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents this `UShort`. *
* The least significant 16 bits of the resulting `Byte` value are the same as the bits of this `UShort` value,
* whereas the most significant 16 bits are filled with zeros.
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() */
* Converts this [UShort] value to [Byte]. *
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents this `UShort`. *
* The least significant 16 bits of the resulting `Byte` value are the same as the bits of this `UShort` value,
Byte value, whereas the most significant 8 bits are filled with the sign bit of this value.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline fun Byte.toUShort(): UShort = UShort(this.toShort())

/**
 * Converts this [Short] value to [UShort] value represents the same numerical value as this [Short]. * The resulting `UShort` value has the same binary representation as this `Short` value.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline fun Short.toUShort(): UShort = UShort(this)

/**
 * Converts this [Int] value to [UShort].
 *
 * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents the same numerical value as this `Int`. * The resulting `UShort` value is represented by the least significant 16 bits of this `Int` value.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline fun Int.toUShort(): UShort = UShort(this)

/**
 * Converts this [Long] value to [UShort].
 *
 * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents the same numerical value as this `Long`.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline fun Long.toUShort(): UShort = UShort(this)

package kotlin.ranges

/**
 * A range of values of type `Char`.
 */
public class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {
    override val start: Char get() = first
    override val endInclusive: Char get() = last
    override fun contains(value: Char): Boolean = first <= value && value <= last
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean =
        other is CharRange && (isEmpty() && other.isEmpty() ||
        first == other.first && last == other.last)
    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())
    override fun toString(): String = "$first..$last"

    companion object {
        /** An empty range of values of type Char. */
        public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())
    }
}

package kotlin.collections

import kotlin.contracts.*
import kotlin.random.Random

internal object EmptyIterator : ListIterator<Nothing> {
    override fun hasNext(): Boolean = false
    override fun hasPrevious(): Boolean = false
    override fun nextIndex(): Int = 0
    override fun previousIndex(): Int = -1
    override fun next(): Nothing = throw NoSuchElementException()
    override fun
List<T> = MutableList(size, init)/*\n * Creates a new mutable list with the specified [size], where each element
 * is calculated by calling the specified \n * [init] function.\n */\n
/**\n * Creates a new mutable list with the specified [size], where each element
 * is calculated by calling the specified \n * [init] function.\n */
@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun MutableList(size: Int, init: (index: Int) -> T): MutableList<T> {\n
    val list = ArrayList<T>(size)\n
    repeat(size) { index -> list.add(init(index)) }\n
    return list\n}

/**\n * Builds a new read-only [List] by populating a [MutableList] using the given
 * [builderAction] and returning a read-only list with the same elements.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildList(@BuilderInference builderAction: MutableList<E>.() -> Unit): List<E> {\n
    contract {\n        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) \n    }\n
    return buildListInternal(builderAction)\n}

@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildListInternal(builderAction: MutableList<E>.() -> Unit): List<E>\n
/**\n * Returns an [IntRange] of the valid indices for this collection.\n */\npublic val Collection<*>.indices: IntRange\n    get() = 0..size - 1

/**\n * Returns the index of the last item in the list or -1 if the list is empty.\n */\npublic val <T> List<T>.lastIndex: Int\n    get() = this.size - 1

/**\n * Returns `true` if the collection is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()\n
/**\n * Returns this Collection if it’s not empty or the result of calling \n * the [defaultValue] function if the collection is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<*>, C : R\n
{\n    this if it’s not `null` \n    otherwise this \n}

/**\n * Checks if all elements in the specified collection are contained in this collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.isAllIn(collection: Collection<T>): Boolean\n
{\n    if empty \n    otherwise \n}

/**\n * Returns a new `List` that contains all elements \n * of the specified collection \n * that are also present in this list.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.containsAll(collection: Collection<T>): Collection<T>\n
{\n    if empty \n    otherwise \n}

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@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases

// function to check if a list contains all elements of another list
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)

/**
 * Returns a new list with the elements of this list randomly shuffled
 * using the specified [random] instance as the source of randomness.
 */
@SinceKotlin("1.3")
public fun <T> Iterable<T>.shuffled(random: Random): List<T> = toMutableList().apply { shuffle(random) }

internal fun <T> List<T>.optimizeReadOnlyList() = when (size) {
    0 -> emptyList()
    1 -> listOf(this[0])
    else -> this
}

/**
 * Searches this list or its range for the provided [element] using the binary search algorithm.
 * The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements.
 * otherwise the result is undefined.
 * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.
 * `null` value is considered to be less than any non-null value.
 * @return the index of the element, if it is contained in the list within the specified range;
 * otherwise, the inverted insertion point `(insertion point - 1)`.
 * The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted.
 */
public fun <T : Comparable<T>> List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {
    rangeCheck(size, fromIndex, toIndex)
    var low = fromIndex
    var high = toIndex - 1
    var mid = (low + high).ushr(1) // safe from overflows
    while (low <= high) {
        val midVal = get(mid)
        val cmp = compareValues(midVal, element)
        if (cmp < 0)
            low = mid + 1
        else if (cmp > 0)
            high = mid - 1
        else
            return mid // key found
    }
    return -(high + 1)  // key not found
}

/**
 * Searches this list or its range for the provided [element] using the binary search algorithm.
 * The list is expected to be sorted into ascending order according to the specified [comparator],
 * otherwise the result is undefined.
 * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.
 * `null` value is considered to be less than any non-null value.
 * @return the index of the element, if it is contained in the list within the specified range;
 * otherwise, the inverted insertion point `(insertion point - 1)`.
 * The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted according to the specified [comparator].
 */
public fun <T> List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {
    rangeCheck(size, fromIndex, toIndex)
    var low = fromIndex
    var high = toIndex - 1
    var mid = (low + high).ushr(1) // safe from overflows
    var midVal = get(mid)
    var cmp = comparator.compare(midVal, element)
    if (cmp < 0)
        low = mid + 1
    else if (cmp > 0)
        high = mid - 1
    else
        return mid // key found
    // key not found
}

/**
 * Searches this list or its range for an element having the key returned by the specified [selector] function.
 * The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.
 * otherwise the result is undefined.
 * If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.
 * `null` value is considered to be less than any non-null value.
 * @return the index of the element with the specified [key], if it is contained in the list within the specified range;
 * otherwise, the inverted insertion point `(insertion point - 1)`.
 * The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted.
 */
public inline fun <T, K : Comparable<K>> List<T>.binarySearchBy(key: K?, fromIndex: Int = 0, toIndex: Int = size, selector: (T) -> K?): Int = binarySearchFromIndex(toIndex, selector) { compareValues(selector(it), key) }
given [comparison] function returns zero using the binary search algorithm.

The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements. i.e. negative values come before zero and zeroes come before positive values. Otherwise, the result is undefined. If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found. @param comparison function that returns zero when called on the list element being searched. On the elements coming before the target element, the function must return positive values; on the elements coming after the target element, the function must return positive values.

* The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements, i.e. negative values come before zero and zeroes come before positive values. Otherwise, the result is undefined. If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.

```
@publishedFunction<

public fun <T>
List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {
    rangeCheck(size, fromIndex, toIndex)

    var low = fromIndex
    var high = toIndex - 1
    var mid = (low + high).ushr(1) // safe from overflows
    var midVal = get(mid)
    var cmp = comparison(midVal)

    if (cmp < 0)
        low = mid + 1
    else if (cmp > 0)
        high = mid - 1
    else
        return mid // key found
    return -(low + 1)  // key not found
}
```

* @param comparison function that returns zero when called on the list element being searched.
* On the elements coming before the target element, the function must return positive values; on the elements coming after the target element, the function must return positive values.

* The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements, i.e. negative values come before zero and zeroes come before positive values. Otherwise, the result is undefined. If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.

* @param comparison function that returns zero when called on the list element being searched.
<K, V> mapOf(): Map<K, V> = emptyMap() /* Returns an empty new [MutableMap] */

/**
 * Returns an empty new [MutableMap] with the specified contents, given as a list of pairs
 * where the first component is the key and the second is the value.
 * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.
 * Entries of the map are iterated in the order they were specified.
 */
@sample samples.collections.Maps.Instantiation.mutableMapFromPairs

/**
 * Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction] and returning a read-only map with the same key-value pairs.
 * The map passed as a receiver to the [builderAction] is valid only inside that function.
 * Using it outside of the function produces an unspecified behavior.
 * Entries of the map are iterated in the order they were added by the [builderAction].
 */
@sample samples.collections.Builders.Maps.buildMapSample

/**
 * Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction] and returning a read-only map with the same key-value pairs.
 * The map passed as a receiver to the [builderAction] is valid only inside that function.
 * Using it outside of the function produces an unspecified behavior.
 * Entries of the map are iterated in the order they were added by the [builderAction].
 * @throws IllegalArgumentException if the given [capacity] is negative.
 */
@sample samples.collections.Builders.Maps.buildMapSample

/**
 * Calculate the initial capacity of a map.
 */
@PublishedApi
internal expect fun mapCapacity(expectedSize: Int): Int

/**
 * Returns `true` if this map is not empty.
 */
public fun isEmpty(): Boolean

/**
 * Returns a new [HashSet] with the specified contents, given as a list of pairs
 * where the first component is the key and the second is the value.
 * Entries of the set are iterated in the order they were added by the [builderAction].
 */
@sample samples.collections.SetBuilder

/**
 * Returns a new [LinkedHashSet] with the specified contents, given as a list of pairs
 * where the first component is the key and the second is the value.
 * Entries of the set are iterated in the order they were added by the [builderAction].
 */
@sample samples.collections.SetBuilder

/**
 * Returns an empty new [LinkedHashSet].
 */
@SinceKotlin("1.1")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <K> linkedHashSetOf(): LinkedHashSet<K> = LinkedHashSet<K>()

/**
 * Returns a new [LinkedHashSet] with the specified contents, given as a list of pairs
 * where the first component is the key and the second is the value.
 * Entries of the set are iterated in the order they were added by the [builderAction].
 * @throws IllegalArgumentException if the given [capacity] is negative.
 * @sample samples.collections.SetBuilder
 */
@SinceKotlin("1.1")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <K, V> linkedHashSetOf(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>.() -> Unit): LinkedHashSet<K, V> =
    LinkedHashSet<K, V>(capacity).apply { putAll(linkedMapOf(builderAction)) } /* Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction] and returning a read-only map with the same key-value pairs. Entries of the set are iterated in the order they were added by the [builderAction]. */
samples.collections.Maps/useIsNotEmpty

`@sample samples.collections.Maps/useIsNotEmpty

samples.collections.Maps/useIsNullOrEmpty

samples.collections.Maps/useMapOrEmpty

samples.collections.Maps/useMapOrEmpty

samples.collections.Maps/useMapIfEmpty

samples.collections.Maps/useContains

samples.collections.Maps/useGet

samples.collections.Maps/useSet

samples.collections.Maps/useContainsKey

samples.collections.Maps/useContainsValue

samples.collections.Maps/useRemove

samples.collections.Maps/useComponent1

samples.collections.Maps/useComponent2

samples.collections.Maps/useGetOrElse

samples.collections.Maps/useGetOrElseNull

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else {
    @Suppress("UNCHECKED_CAST")
    return value as V
}

/**
 * Returns the value for the given [key] or throws an exception if there is no such key in the map.
 * If the map was created by [withDefault], resorts to its `defaultValue` provider function instead of throwing an exception.
 */
@SinceKotlin("1.1")
public fun <K, V> Map<K, V>.getValue(key: K): V

/**
 * Returns the value for the given [key] or throws an exception if there is no such key in the map.
 * If the key is not found in the map, calls the [defaultValue] function, puts its result into the map under the given key and returns it.
 * Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.
 */
@sample samples.collections.Maps.Usage.getOrImplicitDefault

/**
 * Returns an [Iterator] over the entries in the [Map].
 */
@kotlin.internal.InlineOnly

/**
 * Returns a [MutableIterator] over the mutable entries in the [MutableMap].
 */
@kotlin.jvm.JvmName("mutableIterator")
@kotlin.internal.InlineOnly

/**
 * Puts all the given [pairs] into this [MutableMap] with the first component in the pair being the key and the second the value.
 */
public fun <K, V> MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {
    for ((key, value) in pairs) {
        put(key, value)
    }
}

/**
 * Puts all the elements of the given collection into this [MutableMap] with the first component in the pair being the key and the second the value.
 */
public fun <K, V> MutableMap<in K, in V>.putAll(pairs: Iterable<Pair<K, V>>): Unit {
    for ((key, value) in pairs) {
        put(key, value)
    }
}

/**
 * Puts all the elements of the given sequence into this [MutableMap] with the first component in the pair being the key and the second the value.
 */
public fun <K, V> MutableMap<in K, in V>.putAll(pairs: Sequence<Pair<K, V>>): Unit {
    for ((key, value) in pairs) {
        put(key, value)
    }
}

/**
 * Returns a new map containing all key-value pairs with keys matching the given [predicate].
 */
public inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V>
entry.value)\n    }\n} return result\n
* Returns a map containing all key-value pairs with values matching the given [predicate].\n
* @return the destination map.\n
* @sample samples.collections.Maps.Filtering.filterValues\n
* @public inline fun <K, V> Map<<K, V>>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n    val result = LinkedHashMap<K, V>()\n    for (entry in this) {\n        if (predicate(entry.value)) {\n            result.put(entry.key, entry.value)\n        }\n    }\n    return result\n}

/**\n * Returns a map containing all key-value pairs matching the given [predicate].\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filter\n */
public inline fun <K, V> Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n    return filterTo(LinkedHashMap<K, V>(), predicate)\n}

/**\n * Appends all entries not matching the given [predicate] into the destination map.\n * @return the destination map.\n * @sample samples.collections.Maps.Filtering.filterNotTo\n */
public inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n    for (element in this) {\n        if (!predicate(element)) {\n            destination.put(element.key, element.value)\n        }\n    }\n    return destination\n}

/**\n * Returns a new map containing all key-value pairs not matching the given [predicate].\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filterNot\n */
public inline fun <K, V> Map<out K, V>.filterNot(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n    return filterNotTo(LinkedHashMap<K, V>(), predicate)\n}

/**\n * Returns a new map containing all key-value pairs from the given collection of pairs.\n * The returned map preserves the entry iteration order of the original collection.\n * If any of two pairs would have the same key the last one gets added to the map.\n * @return a new map containing all key-value pairs from the given collection of pairs.\n * @sample samples.collections.Maps.Filtering.filter\n */
public fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {\n    if (this is Collection) {\n        return when (size) {\n            0 -> emptyMap()\n            1 -> mapOf(if (this is List) this[0] else iterator().next())\n            else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n        }\n    }\n    return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\n}

/**\n * Populates and returns the destination mutable map with key-value pairs from the given collection of pairs.\n * @return a new map containing all key-value pairs from the given collection of pairs.\n * @sample samples.collections.Maps.Filtering.filter\n */
public fun <K, V, M : MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\n    destination.apply { putAll(this@toMap) }\n
/**\n * Returns a new map containing all key-value pairs from the given sequence of pairs.\n * The returned map preserves the entry iteration order of the original sequence.\n * @return a new map containing all key-value pairs from the given sequence of pairs.\n * @sample samples.collections.Maps.Filtering.filter\n */
public fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> {\n    return filterNotTo(LinkedHashMap<K, V>(), predicate)\n}

/**\n * Returns a new read-only map containing all key-value pairs from the original map.\n * The returned map preserves the entry iteration order of the original map.\n * @return a new read-only map containing all key-value pairs from the original map.\n * @sample samples.collections.Maps.Filtering.filter\n */
@SinceKotlin("1.1")
public fun <K, V> Map<out K, V>.toMap(): Map<K, V> =\n    when (size) {\n        0 -> emptyMap()\n        1 -> toSingletonMap()\n        else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n    }\n
/**\n * Returns a new mutable map containing all key-value pairs from the original map.\n * The returned map preserves the entry iteration order of the original map.\n * @return a new mutable map containing all key-value pairs from the original map.\n * @sample samples.collections.Maps.Filtering.filter\n */
@SinceKotlin("1.1")
public fun <K, V> Map<out K, V>.toMutableMap(): Map<K, V> =\n    filterNotTo(LinkedHashMap<K, V>(), predicate)\n
/**\n * Returns a new map containing all key-value pairs from the given array of pairs.\n * The returned map preserves the entry iteration order of the original array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * @return a new map containing all key-value pairs from the given array of pairs.\n * @sample samples.collections.Maps.Filtering.filter\n */
public fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> =\n    when (size) {\n        0 -> emptyMap()\n        1 -> mapOf(this[0])\n        else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n    }\n
/**\n * Populates and returns the destination mutable map with key-value pairs from the given array of pairs.\n * @return a new map containing all key-value pairs from the given array of pairs.\n * @sample samples.collections.Maps.Filtering.filter\n */
public fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =\n    destination.apply { putAll(this@toMap) }\n
/**\n * Returns a new map containing all key-value pairs from the given sequence of pairs.\n * The returned map preserves the entry iteration order of the original sequence.\n * If any of two pairs would have the same key the last one gets added to the map.\n * @return a new map containing all key-value pairs from the given sequence of pairs.\n * @sample samples.collections.Maps.Filtering.filter\n */
public fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> =\n    when (size) {\n        0 -> emptyMap()\n        1 -> toSingletonMap()\n        else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n    }\n
/**\n * Returns a new read-only map containing all key-value pairs from the original sequence.\n * The returned map preserves the entry iteration order of the original sequence.\n * If any of two pairs would have the same key the last one gets added to the map.\n * @return a new read-only map containing all key-value pairs from the original sequence.\n * @sample samples.collections.Maps.Filtering.filter\n */
@SinceKotlin("1.1")
public fun <K, V> Sequence<Pair<K, V>>.toReadOnlyMap(): Map<K, V> =\n    when (size) {\n        0 -> emptyMap()\n        1 -> toSingletonMap()\n        else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n    }\n
/**\n * Returns a new mutable map containing all key-value pairs from the original sequence.\n * The returned map preserves the entry iteration order of the original sequence.\n * @return a new mutable map containing all key-value pairs from the original sequence.\n * @sample samples.collections.Maps.Filtering.filter\n */
@SinceKotlin("1.1")
public fun <K, V> Sequence<Pair<K, V>>.toMutableMap(): Map<K, V> =\n    when (size) {\n        0 -> emptyMap()\n        1 -> toSingletonMap()\n        else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n    }\n
/**\n * Returns a new map containing all key-value pairs from the given array of pairs.\n * The returned map preserves the entry iteration order of the original array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * @return a new map containing all key-value pairs from the given array of pairs.\n * @sample samples.collections.Maps.Filtering.filter\n */
public fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> =\n    when (size) {\n        0 -> emptyMap()\n        1 -> mapOf(this[0])\n        else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n    }\n
/**\n * Populates and returns the destination mutable map with key-value pairs from the given array of pairs.\n * @return a new map containing all key-value pairs from the given array of pairs.\n * @sample samples.collections.Maps.Filtering.filter\n */
public fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =\n    destination.apply { putAll(this@toMap) }\n
/**\n * Returns a new map containing all key-value pairs from the given sequence of pairs.\n * The returned map preserves the entry iteration order of the original sequence.\n * If any of two pairs would have the same key the last one gets added to the map.\n * @return a new map containing all key-value pairs from the given sequence of pairs.\n * @sample samples.collections.Maps.Filtering.filter\n */
public fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> =\n    when (size) {\n        0 -> emptyMap()\n        1 -> toSingletonMap()\n        else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n    }\n
/**\n * Returns a new read-only map containing all key-value pairs from the original sequence.\n * The returned map preserves the entry iteration order of the original sequence.\n * If any of two pairs would have the same key the last one gets added to the map.\n * @return a new read-only map containing all key-value pairs from the original sequence.\n * @sample samples.collections.Maps.Filtering.filter\n */
@SinceKotlin("1.1")
public fun <K, V> Sequence<Pair<K, V>>.toReadOnlyMap(): Map<K, V> =\n    when (size) {\n        0 -> emptyMap()\n        1 -> toSingletonMap()\n        else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n    }\n
/**\n * Returns a new mutable map containing all key-value pairs from the original sequence.\n * The returned map preserves the entry iteration order of the original sequence.\n * @return a new mutable map containing all key-value pairs from the original sequence.\n * @sample samples.collections.Maps.Filtering.filter\n */
@SinceKotlin("1.1")
public fun <K, V> Sequence<Pair<K, V>>.toMutableMap(): Map<K, V> =\n    when (size) {\n        0 -> emptyMap()\n        1 -> toSingletonMap()\n        else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n    }

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9538
V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this).un/*]**un * Populates and returns the
[destination] mutable map with key-value pairs from the given map.


destination.apply {
pullAll(this)@toMap) }un/*]**un * Creates a new read-only map by replacing or adding an entry to this map from a
given key-value [pair].

* /* The returned map preserves the entry iteration order of the original map.

*/*[pair] is iterated in the end if it has a unique key.


un if (this.isEmpty()) pairs.toMap() else

LinkedHashMap(this).apply { pullAll(pairs) }un/*]**un * Creates a new read-only map by replacing or adding entries to this map from a
given array of key-value [pairs].

* /* The returned map preserves the entry iteration order of the original map.

*/* Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.


un if (this.isEmpty()) pairs.toMap() else

LinkedHashMap(this).apply { pullAll(pairs) }un/*]**un * Creates a new read-only map by replacing or adding entries to this map from a
given sequence of key-value [pairs].

* /* The returned map preserves the entry iteration order of the original map.

*/* Those [pairs] with unique keys are iterated in the order of [pairs] sequence.


un if (this.isEmpty()) pairs.toMap() else

LinkedHashMap(this).apply { pullAll(pairs) }un/*]**un * Creates a new read-only map by replacing or adding entries to this map from a
given array of key-value [pairs].

* /* The returned map preserves the entry iteration order of the original map.

*/* Those entries of another [map] that are missing in this map are iterated in the end in the order of that [map].

* /*public fun <K, V> Map<out K, V>.minus(key: K): Map<K, V> =

this.toMutableMap().apply { minusAssign(key) }un/*]**un * Returns a map

* /* containing all entries of the original map except the given [key].

* /* The returned map preserves the entry
termination order of the original map.

*/* The returned map preserves the entry iteration order of the original map.

*/* Returns a map containing all entries of the original map except those entries

* /* the keys of which are contained in the given [keys] collection.

* /* The returned map preserves the entry

* /* Returns a map containing all entries of the original map except those entries

* /* the keys of which are contained in the given [keys] array.

* /* The returned map preserves the entry iteration order of the original map.

* /* Returns a map containing all entries of the original map except those entries

* /* the keys of which are contained in the given [keys] sequence.

* /* The returned map preserves the entry
iteration order of the original map.
 */
@SinceKotlin("1.1")
    this.toMutableMap().apply { minusAssign(keys) }
    .optimizeReadOnlyMap()

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
    this.removeAll(keys)

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
    this.removeAll(keys)

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
    this.removeAll(keys)

@PublishedApi
internal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {
    0 -> emptyMap()
    1 -> toSingletonMapOrSelf()
    else -> this
}

package kotlin.collections

import kotlin.contracts.*

internal object EmptySet : Set<Nothing>, Serializable {
    private const val serialVersionUID: Long = 3406603774387020532

    override fun equals(other: Any?): Boolean = other is Set<*>
    override fun hashCode(): Int = 0
    override fun toString(): String = "[]"

    override val size: Int get() = 0

    override fun isEmpty(): Boolean = true
    override fun contains(element: Nothing): Boolean = false
    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()

    override fun iterator(): Iterator<Nothing> = EmptyIterator

    private fun readResolve(): Any = EmptySet
}

public fun <T> emptySet(): Set<T> = EmptySet

public fun <T> setOf(vararg elements: T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()

public fun <T> mutableSetOf(vararg elements: T): MutableSet<T> =
    elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))

public fun <T> hashSetOf(vararg elements: T): HashSet<T> =
    elements.toCollection(HashSet(mapCapacity(elements.size)))

public fun <T> linkedSetOf(): LinkedHashSet<T> =
    LinkedHashSet()

fun <T> hashSetOf(elements: T): HashSet<T> =
    elements.toCollection(HashSet(mapCapacity(elements.size)))

fun <T> linkedSetOf(elements: T): LinkedHashSet<T> =
    LinkedHashSet(elements.toCollection(HashSet(mapCapacity(elements.size))))

fun <T> setOf(elements: T): Set<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))

fun <T> mutableSetOf(elements: T): MutableSet<T> =
    LinkedHashSet(elements.toCollection(LinkedHashSet(mapCapacity(elements.size))))

fun <T> emptySet(): Set<T> = EmptySet

fun <T> listOf(elements: T): List<T> = elements.toCollection(ArrayList(mapCapacity(elements.size)))

fun <T> withIndex(elements: List<T>): List<IndexedElement<T>> =
    elements.withIndex()
```kotlin
/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
@file:Suppress("PLATFORM_CLASS_MAPPED_TO_KOTLIN")

package kotlin.text

/**
 * Parses the string as a signed [Byte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)

/**
 * Parses the string as a signed [Byte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 *
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.1")
public fun String.toByteOrNull(radix: Int): Byte? {
    val int = this.toIntOrNull(radix) ?: return null
    if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null
    return int.toByte()
}

/**
 * Parses the string as a [Short] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)

/**
 * Parses the string as a [Short] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 *
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.1")
public fun String.toShortOrNull(radix: Int): Short? {
    val int = this.toIntOrNull(radix) ?: return null
    if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null
    return int.toShort()
}

/**
 * Parses the string as a [Int] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)

/**
 * Parses the string as a [Int] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 *
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.1")
public fun String.toIntOrNull(radix: Int): Int? {
    val int = this.toIntOrNull(radix) ?: return null
    if (int < Int.MIN_VALUE || int > Int.MAX_VALUE) return null
    return int.toInt()
}

/**
 * Parses the string as a [Long] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)

/**
 * Parses the string as a [Long] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 *
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.1")
public fun String.toLongOrNull(radix: Int): Long? {
    val int = this.toIntOrNull(radix) ?: return null
    if (int < Long.MIN_VALUE || int > Long.MAX_VALUE) return null
    return int.toLong()
}

/**
 * Parses the string as a [Double] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toDoubleOrNull(): Double? = toDoubleOrNull(radix = 10)

/**
 * Parses the string as a [Double] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 *
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.1")
public fun String.toDoubleOrNull(radix: Int): Double? {
    val int = this.toIntOrNull(radix) ?: return null
    if (int < Double.MIN_VALUE || int > Double.MAX_VALUE) return null
    return int.toDouble()
}

/**
 * Parses the string as a [Float] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toFloatOrNull(): Float? = toFloatOrNull(radix = 10)

/**
 * Parses the string as a [Float] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 *
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.1")
public fun String.toFloatOrNull(radix: Int): Float? {
    val int = this.toIntOrNull(radix) ?: return null
    if (int < Float.MIN_VALUE || int > Float.MAX_VALUE) return null
    return int.toFloat()
}

/**
 * Parses the string as a [Char] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toCharOrNull(): Char? = toCharOrNull(radix = 10)

/**
 * Parses the string as a [Char] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 *
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.1")
public fun String.toCharOrNull(radix: Int): Char? {
    val int = this.toIntOrNull(radix) ?: return null
    if (int < Char.MIN_VALUE || int > Char.MAX_VALUE) return null
    return int.toChar()
}
```

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Int): Short? {\n    val int = this.toIntOrNull(radix) ?: return null
    return int.toShort()
}

/**
 * Parses the string as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)

/**
 * Parses the string as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toIntOrNull(radix: Int): Int? {
    checkRadix(radix)

    val length = this.length
    if (length == 0) return null

    val start: Int
    val isNegative: Boolean
    val limit: Int

    val firstChar = this[0]
    if (firstChar < '0') {  // Possible leading sign\n        if (length == 1) return null  // non-digit (possible sign) only, no digits after\n            start = 1\n
        if (firstChar == '-') {
            isNegative = true
            limit = Int.MIN_VALUE
        } else if (firstChar == '+') {
            isNegative = false
            limit = -Int.MAX_VALUE
        } else
            return null
    } else {
        start = 0
        isNegative = false
        limit = -Int.MAX_VALUE
    }

    val limitForMaxRadix = (-Int.MAX_VALUE) / 36

    var limitBeforeMul = limitForMaxRadix
    var result = 0
    for (i in start until length) {
        val digit = digitOf(this[i], radix)
        if (digit < 0) return null
        if (result < limitBeforeMul) {
            if (limitBeforeMul == limitForMaxRadix) {
                limitBeforeMul = limit / radix
                if (result < limitBeforeMul) {
                    return null
                }
            } else {
                return null
            }
        }

        result *= radix
        if (result < limit + digit)
            return null
        result -= digit
    }

    return if (isNegative) result else -result
}

/**
 * Parses the string\n * as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)

/**
 * Parses the string as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.
 *
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.1")
public fun String.toLongOrNull(radix: Int): Long? {
    checkRadix(radix)

    val length = this.length
    if (length == 0) return null

    val start: Int
    val isNegative: Boolean
    val limit: Long

    val firstChar = this[0]
    if (firstChar < '0') {  // Possible leading sign\n        if (length == 1) return null  // non-digit (possible sign) only, no digits after\n            start = 1

        if (firstChar == '-') {
            isNegative = true
            limit = Long.MIN_VALUE
        } else if (firstChar == '+') {
            isNegative = false
            limit = -Long.MAX_VALUE
        } else
            return null
    } else {
        start = 0
        isNegative = false
        limit = -Long.MAX_VALUE
    }

    val limitForMaxRadix = (-Long.MAX_VALUE) / 36

    var limitBeforeMul = limitForMaxRadix
    var result = 0L
    for (i in start until length) {
        val digit = digitOf(this[i], radix)
        if (digit < 0) return null
        if (result < limitBeforeMul) {
            if (limitBeforeMul == limitForMaxRadix) {
                limitBeforeMul = limit / radix
                if (result < limitBeforeMul) {
                    return null
                }
            } else {
                return null
            }
        }

        result *= radix
        if (result < limit + digit)
            return null
        result -= digit
    }

    return if (isNegative) result else -result
}

internal fun numberFormatError(input: String): Nothing = throw NumberFormatException("Invalid number format: '$input'")

*\n@file:kotlin.jvm.JvmName("UnsignedKt")\n@file:OptIn(ExperimentalUnsignedTypes::class)\npackage kotlin

@PublishedApi
internal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)
@PublishedApi

@PublishedApi
internal fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()
@PublishedApi
internal fun uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n
// Division and remainder are based on Guava's UnsignedLongs implementation\nCopyright 2011 The Guava Authors\n
Authors:\n
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n*
(dividend >= 0) \(\{\) \n return ULong(dividend / divisor)\n \} \n // Otherwise, approximate the quotient, check, and correct if necessary.\n val quotient = ((dividend ushr 1) / divisor) shl 1\n val rem = dividend - quotient * divisor\n return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0)\n\}\n\}\n\} \n return ULong(dividend % divisor)\n\} \n // Otherwise, approximate the quotient, check, and correct if necessary.\n val quotient = ((dividend ushr 1) / divisor) shl 1\n val rem = dividend - quotient * divisor\n return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)\n\} \n\} // Optimization - use signed modulus if both dividend and divisor < 2^63\n if (dividend >= 0) \(\{\) \n return ULong(dividend % divisor)\n \} \n \} // Optimization - use signed modulus if both dividend and divisor < 2^63\n if (dividend >= 0) \(\{\) \n return ULong(dividend % divisor)\n \} \n // Otherwise, approximate the quotient, check, and correct if necessary.\n val quotient = ((dividend ushr 1) / divisor) shl 1\n val rem = dividend - quotient * divisor\n return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)\n\} \n\} // Optimization - use signed modulus if both dividend and divisor < 2^63\n if (dividend >= 0) \(\{\) \n return ULong(dividend % divisor)\n \} \n\} // Optimization - use signed modulus if both dividend and divisor < 2^63\n if (dividend >= 0) \(\{\) \n return ULong(dividend % divisor)\n \} \n // Otherwise, approximate the quotient, check, and correct if necessary.\n val quotient = ((dividend ushr 1) / divisor) shl 1\n val rem = dividend - quotient * divisor\n return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)\n\} \n\} // Optimization - use signed modulus if both dividend and divisor < 2^63\n if (dividend >= 0) \(\{\) \n return ULong(dividend % divisor)\n \} \n // Otherwise, approximate the quotient, check, and correct if necessary.\n val quotient = ((dividend ushr 1) / divisor) shl 1\n val rem = dividend - quotient * divisor\n return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)\n\} \n\}
Collection -> if (this.safeToConvertToSet()) toHashSet() else this
        else -> toHashSet()
    }

    /**
     * @sample samples.collections.Iterables.Operations.flattenIterable
     */
    public fun <T> List<T>.flatten(): List<Sequence<T>> { return this.flatten() }

    /**
     * @sample samples.collections.Iterables.Operations.unzipIterable
     */
    public fun <T, R> List<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {
        val l = listR.add(pair.second) to l
    }

    @file:kotlin.jvm.JvmMultifileClass
    @file:kotlin.jvm.JvmName("SequencesKt")
    package kotlin.sequences

    import kotlin.random.Random

    /**
     * Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator]
     * provided by that function.
     * The values are evaluated lazily, and the sequence is potentially infinite. Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator] provided by that function. The values are evaluated lazily, and the sequence is potentially infinite. Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator] provided by that function. The values are evaluated lazily, and the sequence is potentially infinite.
     * @sample samples.collections.Sequences.Building.sequenceFromIterator
     */
    @kotlin.internal.InlineOnly
    public inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {
        override fun iterator(): Iterator<T> = iterator()
    }

    /**
     * Creates a sequence that returns all elements from this iterator.
     * The sequence is constrained to be iterated only once.
     * @sample samples.collections.Sequences.Building.sequenceFromIterator
     */
    public fun <T> Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()

    /**
     * Creates a sequence that returns the specified values.
     * @sample samples.collections.Sequences.Building.sequenceOfValues
     */
    public fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else elements.asSequence()

    /***
     * Returns an empty sequence.
     */
    public fun <T> emptySequence(): Sequence<T> = if (emptySequence() isEmpty()) emptySequence() else elements.asSequence()

    private object EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {
        override fun iterator(): Iterator<Nothing> = EmptyIterator
        override fun drop(n: Int) = EmptySequence
        override fun take(n: Int) = EmptySequence
    }

    /**
     * Returns this sequence if it's not `null` and the empty sequence otherwise.
     * @sample samples.collections.Sequences.Usage.sequenceOrEmpty
     */
    @SinceKotlin("1.3")
    @kotlin.internal.InlineOnly
    public inline fun <T> Sequence<T>?.orEmpty(): Sequence<T> = this ?: emptySequence()

    /**
     * Returns a sequence of all elements from all sequences in this sequence.
     * The operation is _intermediate_ and _stateless_.
     * @sample samples.collections.Sequences.Transformations.flattenSequenceOfSequences
     */
    public fun <T> Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }

    private fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>): Sequence<R> {
        if (this is TransformingSequence<*, *>) {
            return (this as TransformingSequence<*,.T>).flatten(iterator)
        }
        return FlatteningSequence(this, { it }, iterator)
    }

    /**
     * Returns a sequence of all elements from all iterables in this sequence.
     * The operation is _intermediate_ and _stateless_.
     * @sample samples.collections.Sequences.Transformations.flattenSequenceOfIterables
     */
    public fun <T> Sequence<T>.flatten(): Sequence<T> = flatten { it.iterator() }

    /**
     * Returns a sequence of all elements from all lists in this sequence.
     * The operation is _terminal_.
     * @sample samples.collections.Sequences.Transformations.flattenSequenceOfLists
     */
    public fun <T> Sequence<T>.flatten(): Sequence<T> = flatten { it.iterator() }

    @SinceKotlin("1.3")
    @file:kotlin.jvm.JvmName("SequencesKt")
    package kotlin.sequences

    import kotlin.random.Random

    /**
     * Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator]
     * provided by that function. The values are evaluated lazily, and the sequence is potentially infinite.
     * @sample samples.collections.Sequences.Building.sequenceFromIterator
     */
    public fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {
        override fun iterator(): Iterator<T> = iterator()
    }

    /**
     * Creates a sequence that returns all elements from this iterator.
     * The sequence is constrained to be iterated only once.
     * @sample samples.collections.Sequences.Building.sequenceFromIterator
     */
    public fun <T> Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()

    /**
     * Creates a sequence that returns the specified values.
     * @sample samples.collections.Sequences.Building.sequenceOfValues
     */
    public fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else elements.asSequence()

    /***
     * Returns an empty sequence.
     */
    public fun <T> emptySequence(): Sequence<T> = if (emptySequence() isEmpty()) emptySequence() else elements.asSequence()

    private object EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {
        override fun iterator(): Iterator<Nothing> = EmptyIterator
        override fun drop(n: Int) = EmptySequence
        override fun take(n: Int) = EmptySequence
    }

    /**
     * Returns this sequence if it's not `null` and the empty sequence otherwise.
     * @sample samples.collections.Sequences.Usage.sequenceOrEmpty
     */
    @SinceKotlin("1.3")
    @kotlin.internal.InlineOnly
    public inline fun <T> Sequence<T>?.orEmpty(): Sequence<T> = this ?: emptySequence()

    /**
     * Returns a sequence of all elements from all sequences in this sequence.
     * The operation is _intermediate_ and _stateless_.
     * @sample samples.collections.Sequences.Transformations.flattenSequenceOfSequences
     */
    public fun <T> Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }

    private fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>): Sequence<R> {
        if (this is TransformingSequence<*, *>) {
            return (this as TransformingSequence<*,.T>).flatten(iterator)
        }
        return FlatteningSequence(this, { it }, iterator)
    }

    /**
     * Returns a sequence of all elements from all iterables in this sequence.
     * The operation is _intermediate_ and _stateless_.
     * @sample samples.collections.Sequences.Transformations.flattenSequenceOfIterables
     */
    public fun <T> Sequence<T>.flatten(): Sequence<T> = flatten { it.iterator() }

    /**
     * Returns a sequence of all elements from all lists in this sequence.
     * The operation is _terminal_.
     * @sample samples.collections.Sequences.Transformations.flattenSequenceOfLists
     */
    public fun <T> Sequence<T>.flatten(): Sequence<T> = flatten { it.iterator() }

    @file:kotlin.jvm.JvmMultifileClass
    @file:kotlin.jvm.JvmName("SequencesKt")
    package kotlin.sequences

    import kotlin.random.Random

    /**
     * Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator]
     * provided by that function. The values are evaluated lazily, and the sequence is potentially infinite.
     * @sample samples.collections.Sequences.Building.sequenceFromIterator
     */
    public fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {
        override fun iterator(): Iterator<T> = iterator()
    }

    /**
     * Creates a sequence that returns all elements from this iterator.
     * The sequence is constrained to be iterated only once.
     * @sample samples.collections.Sequences.Building.sequenceFromIterator
     */
    public fun <T> Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()

    /**
     * Creates a sequence that returns the specified values.
     * @sample samples.collections.Sequences.Building.sequenceOfValues
     */
    public fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else elements.asSequence()

    /***
     * Returns an empty sequence.
     */
    public fun <T> emptySequence(): Sequence<T> = if (emptySequence() isEmpty()) emptySequence() else elements.asSequence()

    private object EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {
        override fun iterator(): Iterator<Nothing> = EmptyIterator
        override fun drop(n: Int) = EmptySequence
        override fun take(n: Int) = EmptySequence
    }

    /**
     * Returns this sequence if it's not `null` and the empty sequence otherwise.
     * @sample samples.collections.Sequences.Usage.sequenceOrEmpty
     */
    @SinceKotlin("1.3")
    @kotlin.internal.InlineOnly
    public inline fun <T> Sequence<T>?.orEmpty(): Sequence<T> = this ?: emptySequence()
Pair<List<T>, List<R>> {

    val listT = ArrayList<T>()
    val listR = ArrayList<R>()
    for (pair in this) {
        listT.add(pair.first)
        listR.add(pair.second)
    }
    return listT to listR
}

/**
 * Returns a sequence that
 * yields elements of this sequence randomly shuffled.
 * Not that every iteration of the sequence returns
 * elements in a different order.
 * The operation is intermediate and stateful.
 * Returns a sequence that yields elements of this sequence randomly shuffled
 * using the specified [random] instance as the source of randomness.
 * Note that every iteration of the sequence returns elements in a different
 * order.
 * The operation is intermediate and stateful.
 */
@SinceKotlin("1.4")
public fun <T> Sequence<T>.shuffled(): Sequence<T> = shuffled(Random)

/**
 * Returns a sequence that yields elements of this sequence randomly shuffled
 * using the specified [random] instance as the source of randomness.
 * Note that every iteration of the sequence returns elements in a different
 * order.
 * The operation is intermediate and stateful.
 */
@SinceKotlin("1.4")
public fun <T> Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {
    val buffer = toMutableList()
    while (buffer.isNotEmpty()) {
        val j = random.nextInt(buffer.size)
        val last = buffer.removeLast()
        val value = if (j < buffer.size) buffer.set(j, last) else last
        yield(value)
    }
}

/**
 * A sequence that returns the values from the underlying [sequence]
 * that either match or do not match
 * the specified [predicate].
 */
internal class FilteringSequence<T>(
    private val sequence: Sequence<T>,
    private val sendWhen: Boolean = true,
    private val predicate: (T) -> Boolean
) : Sequence<T> {

    override fun iterator(): Iterator<T> = object : Iterator<T> {
        val iterator = sequence.iterator()
        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue
        var nextItem: T? = null

        private fun calcNext() {
            while (iterator.hasNext()) {
                val item = iterator.next()
                if (predicate(item) == sendWhen) {
                    nextItem = item
                    nextState = 1
                    return
                }
            }
            nextState = 0
        }

        override fun next(): T {
            if (nextState == -1)
                calcNext()
            if (nextState == 0)
                throw NoSuchElementException()
            val result = nextItem
            nextItem = null
            nextState = -1
            @Suppress("UNCHECKED_CAST")
            return result as T
        }

        override fun hasNext(): Boolean {
            if (nextState == -1)
                calcNext()
            return nextState == 1
        }
    }
}

/**
 * A sequence which returns the results of applying the given [transformer] function to
 * the values in the underlying [sequence].
 */

internal class TransformingSequence<T, R>
constructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) : Sequence<R> {
    override fun iterator(): Iterator<R> = object : Iterator<R> {
        val iterator = sequence.iterator()
        override fun next(): R {
            return transformer(iterator.next())
        }

        override fun hasNext(): Boolean {
            return iterator.hasNext()
        }
    }

    internal fun <E> flatten(iterator: (R) -> Iterator<E>): Sequence<E> {
        return FlatteningSequence<T, R, E>(sequence, transformer, iterator)
    }
}

/**
 * A sequence which returns the results of applying the given [transformer] function to
 * the values in the underlying [sequence], where the transform function takes
 * the index of the value in the underlying [sequence] along with the value itself.
 */

internal class TransformingIndexedSequence<T, R>
constructor(private val sequence: Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {
    override fun iterator(): Iterator<R> = object : Iterator<R> {
        val iterator = sequence.iterator()
        var index = 0
        override fun next(): R {
            return transformer(checkIndexOverflow(index++), iterator.next())
        }

        override fun hasNext(): Boolean {
            return iterator.hasNext()
        }
    }
}

/**
 * A sequence which combines values from the underlying [sequence] with their
 * indices and returns them as [IndexedValue] objects.
 */

internal class IndexingSequence<T>
constructor(private val sequence: Sequence<T>) : Sequence<IndexedValue<T>> {
    override fun iterator(): Iterator<IndexedValue<T>> = object : Iterator<IndexedValue<T>> {
        val iterator = sequence.iterator()
        var index = 0
        override fun next(): IndexedValue<T> {
            return IndexedValue(checkIndexOverflow(index++), iterator.next())
        }

        override fun hasNext(): Boolean {
            return iterator.hasNext()
        }
    }
}

/**
 * A sequence which takes the values from two parallel underlying sequences, passes them to
 * the given [transform] function and returns the values returned by that function.
 * The sequence stops returning values as soon as one of the underlying sequences stops returning values.
 */

internal class MergingSequence<T1, T2, V>
constructor(
    private val sequence1: Sequence<T1>,
    private val sequence2: Sequence<T2>,
    private val transform: (T1, T2) -> V
) :
private fun calcNext() {
    if (iterator.hasNext()) {
        val item = iterator.next()
        sequence.iterator()
        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue
        var nextItem: T? = null
        val element = iterator.next()
        val nextItemIterator = iterator(transformer(element))
        while (itemIterator == null) {
            if (nextItemIterator.hasNext()) {
                item = nextItemIterator.next()
                if (itemIterator?.hasNext() == false)
                    itemIterator = null
                while (itemIterator == null) {
                    if (itemIterator?.hasNext() == false)
                        throw NoSuchElementException()
                    val element = itemIterator.next()
                    val nextItemIterator = itemIterator.iterator()
                }
            } else {
                if (itemIterator?.hasNext() == false)
                    throw NoSuchElementException()
                val element = itemIterator.next()
                val nextItemIterator = itemIterator.iterator()
            }
            if (nextItemIterator.hasNext()) {
                itemIterator = nextItemIterator
                return true
            } else if (itemIterator.hasNext()) {
                item = itemIterator.next()
                if (itemIterator?.hasNext() == false)
                    itemIterator = null
                while (itemIterator == null) {
                    if (itemIterator?.hasNext() == false)
                        throw NoSuchElementException()
                    val element = itemIterator.next()
                    val nextItemIterator = itemIterator.iterator()
                }
            } else if (itemIterator.hasNext()) {
                itemIterator = itemIterator.next()
                if (itemIterator?.hasNext() == false)
                    itemIterator = null
                while (itemIterator == null) {
                    if (itemIterator?.hasNext() == false)
                        throw NoSuchElementException()
                    val element = itemIterator.next()
                    val nextItemIterator = itemIterator.iterator()
                }
            } else {
                throw NoSuchElementException()
            }
            yieldAll(iterator(result))
            yieldAll(iterator(result))
        }
        return true
    }
}

override fun iterator(): Iterator<T> = object : Iterator<T> {
    override fun hasNext(): Boolean {
        return hasNext()
    }
    override fun next(): T {
        if (itemIterator?.hasNext() == false)
            throw NoSuchElementException()
        return itemIterator.next()
    }
}

override fun fun iterator(): Iterator<V> = object : Iterator<V> {
    override fun hasNext(): Boolean {
        return hasNext()
    }
    override fun next(): V {
        return transform(iterator1.next(), transformer(iterator2.next()))
    }
}

override fun hasNext(): Boolean {
    return transform(iterator1.next(), transformer(iterator2.next()))
}

override fun fun hasNext(): Boolean {
    return hasNext()
}

override fun fun hasNext(): Boolean {
    return hasNext()
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override fun fun hasNext(): Boolean {
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override fun fun hasNext(): Boolean {
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override fun fun hasNext(): Boolean {
    return hasNext()
}

override fun fun hasNext(): Boolean {
    return hasNext()
if (predicate(item)) {
    nextState = 1
    nextItem = item
    return
}

else {
    nextState = 0
}

override fun next(t: T): T {
    if (nextState == -1)
        calcNext() // will change nextState
    if (nextState == -2)
        return
    val result = nextItem as T
    // Clean next to avoid keeping reference on yielded instance
    nextItem = null
    nextState = -1
    return result
}

override fun hasNext(): Boolean {
    if (nextState == -1)
        calcNext() // will change nextState
    return nextState == 1
}

@Suppress("UNCHECKED_CAST")
    val result = nextItem as T
    // Clean next to avoid keeping reference on yielded instance
    nextItem = null
    nextState = -1
    return result
}

override fun hasNext(): Boolean {
    if (nextState == -1)
        calcNext() // will change nextState
    return nextState == 1
}

@Suppress("UNCHECKED_CAST")
    val result = nextItem as T
    // Clean next to avoid keeping reference on yielded instance
    nextItem = null
    nextState = -1
    return result
}

override fun hasNext(): Boolean {
    if (nextState == -1)
        calcNext() // will change nextState
    return nextState == 1
}

@Suppress("UNCHECKED_CAST")
    val result = nextItem as T
    // Clean next to avoid keeping reference on yielded instance
    nextItem = null
    nextState = -1
    return result
}

override fun hasNext(): Boolean {
    if (nextState == -1)
        calcNext() // will change nextState
    return nextState == 1
}

@Suppress("UNCHECKED_CAST")
    val result = nextItem as T
    // Clean next to avoid keeping reference on yielded instance
    nextItem = null
    nextState = -1
    return result
}

override fun hasNext(): Boolean {
    if (nextState == -1)
        calcNext() // will change nextState
    return nextState == 1
}

@Suppress("UNCHECKED_CAST")
    val result = nextItem as T
    // Clean next to avoid keeping reference on yielded instance
    nextItem = null
    nextState = -1
    return result
}

override fun hasNext(): Boolean {
    if (nextState == -1)
        calcNext() // will change nextState
    return nextState == 1
}

@Suppress("UNCHECKED_CAST")
    val result = nextItem as T
    // Clean next to avoid keeping reference on yielded instance
    nextItem = null
    nextState = -1
    return result
}
ConstrainedOnceSequence<T> ?: ConstrainedOnceSequence.this
    return if (this is ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence.this
    ConstrainedOnceSequence

    *un * @ see constrainOnce
    * see kotlin.sequences.sequence
    *un * @ sample samples.collections.Sequences.Building.
generateSequence
    *un * @public fun <T : Any> generateSequence(nextFunction: () -> T?): Sequence<T> {
        return GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()
    }

    *un * @ see kotlin.sequences.sequence
    *un * @ sample samples.collections.Sequences.Building.
generateSequenceWithSeed

    *un * @file: kotlin.internal.LowPriorityInOverloadResolution
    *un * @public fun <T : Any> generateSequence(seed: T?,
        nextFunction: (T) -> T?): Sequence<T> =
        if (seed == null) EmptySequence
        else GeneratorSequence({ seed }, nextFunction)

    *un * @ see kotlin.sequences.sequence
    *un * @ sample samples.collections.Sequences.Building.
generateSequenceWithLazySeed

    *un * @ see kotlin.sequences.sequence
    *un * @ sample samples.Collections.Sequences.Building.generateSequence

    *un * @ see kotlin.sequences.sequence
    *un * @ sample samples.Collections.Sequences.Building.
generateSequence

*un * @ file: kotlin.jvm.JvmMultifileClass
*un * @ file: kotlin.jvm.JvmName("\PreconditionsKt")
*un * @ package kotlin
*un * @ sample samples.miss.

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*un * @ sample samples.miss.
Throws an [IllegalStateException] if the [value] is null. Otherwise returns the not null value.

*/

@sample samples.misc.Preconditions.failCheckWithLazyMessage

/**
 * Throws an [IllegalStateException] if the [value] is null. Otherwise returns the not null value.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */

package kotlin.collections

import kotlin.ranges.range

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun <T> Array<out T>.elementAt(index: Int): T {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun ByteArray.elementAt(index: Int): Byte {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun ShortArray.elementAt(index: Int): Short {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun IntArray.elementAt(index: Int): Int {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun LongArray.elementAt(index: Int): Long {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun FloatArray.elementAt(index: Int): Float {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun DoubleArray.elementAt(index: Int): Double {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun BooleanArray.elementAt(index: Int): Boolean {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun CharArray.elementAt(index: Int): Char {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}
/**
 * Returns a [List] that wraps the original array.
 */
public actual fun <T> Array<out T>.asList(): List<T> {
    return ArrayList<T>(this.unsafeCast<Array<Any?>>())
}

/**
 * Returns a [List] that wraps the original array.
 */
@kotlin.internal.InlineOnly
public actual inline fun ByteArray.asList(): List<Byte> {
    return this.unsafeCast<Array<Byte>>().asList()
}

/**
 * Returns a [List] that wraps the original array.
 */
@kotlin.internal.InlineOnly
public actual inline fun ShortArray.asList(): List<Short> {
    return this.unsafeCast<Array<Short>>().asList()
}

/**
 * Returns a [List] that wraps the original array.
 */
@kotlin.internal.InlineOnly
public actual inline fun IntArray.asList(): List<Int> {
    return this.unsafeCast<Array<Int>>().asList()
}

/**
 * Returns a [List] that wraps the original array.
 */
@kotlin.internal.InlineOnly
public actual inline fun LongArray.asList(): List<Long> {
    return this.unsafeCast<Array<Long>>().asList()
}

/**
 * Returns a [List] that wraps the original array.
 */
@kotlin.internal.InlineOnly
public actual inline fun FloatArray.asList(): List<Float> {
    return this.unsafeCast<Array<Float>>().asList()
}

/**
 * Returns a [List] that wraps the original array.
 */
@kotlin.internal.InlineOnly
public actual inline fun DoubleArray.asList(): List<Double> {
    return this.unsafeCast<Array<Double>>().asList()
}

/**
 * Returns a [List] that wraps the original array.
 */
public actual fun BooleanArray.asList(): List<Boolean> {
    return this.unsafeCast<Array<Boolean>>().asList()
}

/**
 * Returns a hash code based on the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 * If any of arrays contains itself on any nesting level the behavior is undefined.
 * The elements of other types are compared for equality with the [equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public actual fun <T> Array<out T>?.contentDeepHashCode(): Int {
    definedExternally
}

/**
 * Returns a string representation of the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 * If any of arrays contains itself on any nesting level the behavior is undefined.
 */
@SinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public actual infix fun <T> Array<out T>?.contentDeepHashCode(): Int {
    definedExternally
}

/**
 * Returns `true` if the two specified arrays are deeply equal to each other.
 * The specified arrays are also considered deeply equal if both are `null`.
 * The elements of other types are compared for equality with the [equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public actual fun <T> Array<out T>?.contentDeepEquals(other: Array<out T>?): Boolean {
    definedExternally
}

/**
 * Returns `true` if the two specified arrays are deeply equal to each other.
 * The specified arrays are also considered deeply equal if both are `null`.
 * The elements of other types are compared for equality with the [equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public actual infix fun <T> Array<out T>?.contentDeepEquals(other: Array<out T>?): Boolean {
    definedExternally
}
samples.collections.Arrays.ContentOperations.contentDeepToString

/*\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\n\npublic actual fun <T> Array<out T>.contentDeepToString(): String {
    return this.contentDeepToString()
}
*/

/**
 * Returns a string representation of the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 * If any of arrays contains itself on any nesting level that reference is rendered as `\"\[]\"` to prevent recursion.
 */
@sample samples.collections.Arrays.ContentOperations.contentDeepToString

/*\n@SinceKotlin("1.4")\n\nprivate actual fun <T> Array<out T>.contentDeepToString(): String {
    definedExternally
}
*/

/**
 * Returns a string representation of the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 * If any of arrays contains itself on any nesting level that reference is rendered as `\"\[]\"` to prevent recursion.
 */
@SinceKotlin("1.4")
@library("arrayDeepToString")
public actual fun <T> Array<out T>?.contentDeepToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 * If any of arrays contains itself on any nesting level that reference is rendered as `\"\[...\]` to prevent recursion.
 */
@SinceKotlin("1.4")
public actual infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean {
    return this.contentEquals(other)
}

/**
 * Returns a string representation of the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 * If any of arrays contains itself on any nesting level that reference is rendered as `\"\[...\]` to prevent recursion.
 */
@SinceKotlin("1.4")
public actual infix fun ByteArray.contentEquals(other: ByteArray): Boolean {
    return this.contentEquals(other)
}

/**
 * Returns a string representation of the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 * If any of arrays contains itself on any nesting level that reference is rendered as `\"\[...\]` to prevent recursion.
 */
@SinceKotlin("1.4")
public actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {
    return this.contentEquals(other)
}

/**
 * Returns a string representation of the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 * If any of arrays contains itself on any nesting level that reference is rendered as `\"\[...\]` to prevent recursion.
 */
@SinceKotlin("1.4")
public actual infix fun IntArray.contentEquals(other: IntArray): Boolean {
    return this.contentEquals(other)
}

/**
 * Returns a string representation of the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 * If any of arrays contains itself on any nesting level that reference is rendered as `\"\[...\]` to prevent recursion.
 */
@SinceKotlin("1.4")
public actual infix fun LongArray.contentEquals(other: LongArray): Boolean {
    return this.contentEquals(other)
}

/**
 * Returns a string representation of the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 * If any of arrays contains itself on any nesting level that reference is rendered as `\"\[...\]` to prevent recursion.
 */
@SinceKotlin("1.4")
public actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {
    return this.contentEquals(other)
}
DoubleArray.contentEquals(other: DoubleArray): Boolean {
    return this.contentEquals(other)
}

Returns `true` if the two specified arrays are structurally equal to one another, *i.e.* contain the same number of the same elements in the same order. *The elements are compared for equality with the [equals][Any.equals] function.*

For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

* @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")

Kotlin(1.1.1)@DeprecatedSinceKotlin(hideSince = "1.4")public actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {
    return this.contentEquals(other)
}

Returns `true` if the two specified arrays are structurally equal to one another, *i.e.* contain the same number of the same elements in the same order. *The elements are compared for equality with the [equals][Any.equals] function.*

For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

* @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")

Kotlin(1.1.1)@DeprecatedSinceKotlin(hideSince = "1.4")public actual infix fun CharArray.contentEquals(other: CharArray): Boolean {
    return this.contentEquals(other)
}

The elements are compared for equality with the [equals][Any.equals] function. *For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.*

* @SinceKotlin("1.1")
@library("arrayEquals")

public actual infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean {
    definedExternally
}

The elements are compared for equality with the [equals][Any.equals] function. *For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.*

* @SinceKotlin("1.1")
@library("arrayEquals")

public actual infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean {
    definedExternally
}

The elements are compared for equality with the [equals][Any.equals] function. *For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.*

* @SinceKotlin("1.1")
@library("arrayEquals")

public actual infix fun IntArray?.contentEquals(other: IntArray?): Boolean {
    definedExternally
}

The elements are compared for equality with the [equals][Any.equals] function. *For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.*

* @SinceKotlin("1.1")
@library("arrayEquals")

public actual infix fun LongArray?.contentEquals(other: LongArray?): Boolean {
    definedExternally
}

The elements are compared for equality with the [equals][Any.equals] function. *For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.*

* @SinceKotlin("1.1")
@library("arrayEquals")

public actual infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean {
    definedExternally
}

The elements are compared for equality with the [equals][Any.equals] function. *For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.*

* @SinceKotlin("1.1")
@library("arrayEquals")

public actual infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean {
    definedExternally
}

The elements are compared for equality with the [equals][Any.equals] function. *For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.*

* @SinceKotlin("1.1")
@library("arrayEquals")

public actual infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean {
    definedExternally
}

The elements are compared for equality with the [equals][Any.equals] function. *For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.*
*structurally* equal to one another, i.e. contain the same number of the same elements in the same order. For floating point numbers it means that NaN is equal to itself and -0.0 is not equal to 0.0.

```kotlin
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean {
    definedExternally
}
```

```kotlin
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun CharArray?.contentEquals(other: CharArray?): Boolean {
    definedExternally
}
```

```kotlin
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun <T> Array<out T>.contentHashCode(): Int {
    return this.contentHashCode()
}
```

```kotlin
@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun <T> Array<out T>?.contentHashCode(): Int {
    definedExternally
}
```
FloatArray?.contentHashCode(): Int

DoubleArray?.contentHashCode(): Int

CharArray?.contentHashCode(): Int

ByteArray.contentToString(): String

ShortArray.contentToString(): String

IntArray.contentToString(): String

LongArray.contentToString(): String

FloatArray.contentToString(): String

DoubleArray.contentToString(): String

CharArray?.contentHashCode(): Int

BooleanArray?.contentHashCode(): Int

@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun

@SinceKotlin("1.4")
@library("arrayToString")
public actual fun
@SinceKotlin("1.4")
@library("arrayToString")
public actual fun ByteArray?.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
@library("arrayToString")
public actual fun ShortArray?.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
@library("arrayToString")
public actual fun IntArray?.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
@library("arrayToString")
public actual fun LongArray?.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
@library("arrayToString")
public actual fun FloatArray?.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
@library("arrayToString")
public actual fun DoubleArray?.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as
 * if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")
@library("arrayToString")
public actual fun BooleanArray?.contentToString(): String {
    definedExternally
}

/**
 * Copies this array or its subrange into the [destination] array and returns that
 * array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it
 * overlaps with the destination range. If the subrange doesn't fit into the [destination] array starting at the specified
 * [destinationOffset], it is out of range of this array indices or when the [endIndex] index is out of the [destination] array indices range.
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified
 * [destinationOffset], or when that index is out of the [destination] array indices range.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {
    arrayCopy(this, destination, destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that
 * array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it
 * overlaps with the destination range. If the subrange doesn't fit into the [destination] array starting at the specified
 * [destinationOffset], it is out of range of this array indices or when the [endIndex] index is out of the [destination] array indices range.
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified
 * [destinationOffset], or when that index is out of the [destination] array indices range.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray {
    arrayCopy(this.unsafeCast<Array<Byte>>(

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9555
destination.unsafeCast<Array<Byte>>()}, destinationOffset, startIndex, endIndex) return destination

* Copies this array or its subrange into the [destination] array and returns that array.
* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
* @param destination the array to copy to.
* @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
* @return the [destination] array.

*An@SinceKotlin("1.3")@kotlin.internal.InlineOnly@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")@public actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {
    arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>()}, destinationOffset, startIndex, endIndex) return destination

* Copies this array or its subrange into the [destination] array and returns that array.
* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
* @param destination the array to copy to.
* @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
* @return the [destination] array.

*An@SinceKotlin("1.3")@kotlin.internal.InlineOnly@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")@public actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {
    arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>()}, destinationOffset, startIndex, endIndex) return destination

* Copies this array or its subrange into the [destination] array and returns that array.
* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
* @param destination the array to copy to.
* @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
* @return the [destination] array.

*An@SinceKotlin("1.3")@kotlin.internal.InlineOnly@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")@public actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {
    arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>()}, destinationOffset, startIndex, endIndex) return destination

* Copies this array or its subrange into the [destination] array and returns that array.
* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
* @param destination the array to copy to.
* @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the
public actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {
    arrayCopy(this.unsafeCast<Array<Float>>(), destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. 
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
 * 
 * @return the [destination] array.
 */

public actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {
    arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
 * 
 * @return the [destination] array.
 */

public actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {
    arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
 * 
 * @return the [destination] array.
 */

public actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {
    arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)
    return destination
}
this.asDynamic().slice(i)\n\n**\nReturns new array which is a copy of the original array.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
* @public

actual inline fun ByteArray.copyOf(): ByteArray {\n  return this.asDynamic().slice(i)\n\n**\nReturns new array which is a copy of the original array.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
* @public

actual inline fun ShortArray.copyOf(): ShortArray {\n  return this.asDynamic().slice(i)\n\n**\nReturns new array which is a copy of the original array.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyWith\n
* @public

actual inline fun IntArray.copyOf(): IntArray {\n  return this.asDynamic().slice(i)\n\n**\nReturns new array which is a copy of the original array.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyWith\n
* @public

actual inline fun LongArray.copyOf(): LongArray {\n  return withType(\"LongArray\")\nthis.asDynamic().slice(i)\n\n**\nReturns new array which is a copy of the original array.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyWith\n
* @public

actual inline fun FloatArray.copyOf(): FloatArray {\n  return this.asDynamic().slice(i)\n\n**\nReturns new array which is a copy of the original array.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyWith\n
* @public

actual inline fun DoubleArray.copyOf(): DoubleArray {\n  return this.asDynamic().slice(i)\n\n**\nReturns new array which is a copy of the original array.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyWith\n
* @public

actual inline fun BooleanArray.copyOf(): BooleanArray {\n  return withType(\"BooleanArray\")\nthis.asDynamic().slice(i)\n\n**\nReturns new array which is a copy of the original array.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyWith\n
* @public

actual inline fun CharArray.copyOf(): CharArray {\n  return withType(\"CharArray\")\nthis.asDynamic().slice(i)\n\n**\nReturns new array which is a copy of the original array, resized to the given [newSize].\n* The copy is either truncated or padded at the end with value zero if necessary.\n* If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n* If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyWith\n
* @public

actual fun ByteArray.copyOf(newSize: Int): ByteArray {\n  require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n  return fillFrom(this, ByteArray(newSize))\n\n**\nReturns new array which is a copy of the original array, resized to the given [newSize].\n* The copy is either truncated or padded at the end with value zero if necessary.\n* If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n* If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyWith\n
* @public

actual fun ShortArray.copyOf(newSize: Int): ShortArray {\n  require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n  return fillFrom(this, ShortArray(newSize))\n\n**\nReturns new array which is a copy of the original array, resized to the given [newSize].\n* The copy is either truncated or padded at the end with value zero if necessary.\n* If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n* If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyWith\n
* @public

actual fun IntArray.copyOf(newSize: Int): IntArray {\n  require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n  return fillFrom(this, IntArray(newSize))\n\n**\nReturns new array which is a copy of the original array, resized to the given [newSize].\n* The copy is either truncated or padded at the end with value zero if necessary.\n* If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n* If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n
* @sample samples.collections.Arrays.CopyOfOperations.copyWith\n
* @public

actual fun LongArray.copyOf(newSize: Int): LongArray {\n  require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n  return withType(\"LongArray\")\narrayCopyResize(this, newSize, 0L)\n\n**\nReturns new
array which is a copy of the original array, resized to the given [newSize].
* The copy is either truncated or padded at the end with zero values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the
* - If [newSize] is greater than the size of the original array, the extra elements in
*   the copy array are filled with zero values.
* @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

FloatArray.copyOf(newSize: Int): FloatArray
{
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, FloatArray(newSize)).toArray() * Returns new array which is a copy of the original
array, resized to the given [newSize].
* The copy is either truncated or padded at the end with zero values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the
* - If [newSize] is greater than the size of the original array, the extra elements in the
array are filled with zero values.
* @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

DoubleArray.copyOf(newSize: Int): DoubleArray
{
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, DoubleArray(newSize)).toArray() * Returns new array which is a copy of the original
array, resized to the given [newSize].
* The copy is either truncated or padded at the end with zero values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the
* - If [newSize] is greater than the size of the original array, the extra elements in the
array are filled with zero values.
* @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

BooleanArray.copyOf(newSize: Int): BooleanArray
{
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("BooleanArray", arrayCopyResize(this, newSize, false)).toArray() * Returns new array which is a copy of the original
array, resized to the given [newSize].
* The copy is either truncated or padded at the end with false values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the
* - If [newSize] is greater than the size of the original array, the extra elements in the
array are filled with false values.
* @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

CharArray.copyOf(newSize: Int): CharArray
{
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("CharArray", fillFrom(this, CharArray(newSize))).toArray() * Returns new array which is a copy of the original
array, resized to the given [newSize].
* The copy is either truncated or padded at the end with null char (\u0000) values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the
* - If [newSize] is greater than the size of the original array, the extra elements in the
array are filled with null char (\u0000) values.
* @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray
{
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex).toArray() * Returns a new array which is a copy of the specified
range of the original array.
* - If [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
* - If [fromIndex] is greater than [toIndex].
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

@param fromIndex the start of the range (inclusive) to copy.
 @param toIndex the end of the range (exclusive) to copy.
 @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("LongArray", this.asDynamic().slice(fromIndex, toIndex)).asArray().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("FloatArray", this.asDynamic().slice(fromIndex, toIndex)).asArray().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("DoubleArray", this.asDynamic().slice(fromIndex, toIndex)).asArray().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("BooleanArray", this.asDynamic().slice(fromIndex, toIndex)).asArray().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("CharArray", this.asDynamic().slice(fromIndex, toIndex)).asArray().slice(fromIndex, toIndex)
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {
AbstractList.checkRangeIndexes(fromIndex, toIndex, size) this.asDynamic().fill(element, fromIndex, toIndex);

private fun Array.fill(element: Element, fromIndex: Int, toIndex: Int) =
    this.asDynamic().fill(element, fromIndex, toIndex);

fun <T> List.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}
operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
} *\public actual operator fun IntArray.plus(elements: Collection<Int>): IntArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
} *\public actual operator fun LongArray.plus(elements: Collection<Long>): LongArray {
    return arrayPlusCollection(this, elements)
} *\public actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {
    return primitiveArrayConcat(this, elements)
} *\public actual operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {
    return primitiveArrayConcat(this, elements)
} *\public actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {
    return primitiveArrayConcat(this, elements)
} *\public actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
} *\public actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {
    return this.asDynamic().concat(elements)
} *\public actual inline operator fun ByteArray.plus(elements: ByteArray): ByteArray {
    return primitiveArrayConcat(this, elements)
} *\public actual inline operator fun ShortArray.plus(elements: ShortArray): ShortArray {
    return primitiveArrayConcat(this, elements)
} *\public actual inline operator fun IntArray.plus(elements: IntArray): IntArray {
    return primitiveArrayConcat(this, elements)
} *\public actual inline operator fun LongArray.plus(elements: LongArray): LongArray {
    return primitiveArrayConcat(this, elements)
} *\public actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray {
    return primitiveArrayConcat(this, elements)
} *\public actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray {
    return primitiveArrayConcat(this, elements)
} *\public actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {
    return primitiveArrayConcat(this, elements)
} *\public actual inline operator fun CharArray.plus(elements: CharArray): CharArray {
    return primitiveArrayConcat(this, elements)
}
Array\(<\text{T}\>\).plusElement(element: \text{T}) \{ \n    return
    this.asDynamic().concat(arrayOf(element))
\}

/**
 * Sorts the array in-place.
 * @sample samples.collections.Arrays.Sorting.sortInt
 */
@library("primitiveArraySort")
public fun IntArray.sort(): Unit
    @sample samples.collections.Arrays.Sorting.sortInt

/**
 * Sorts the array in-place.
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public fun LongArray.sort(): Unit
    @sample samples.collections.Arrays.Sorting.sortArray

/**
 * Sorts the array in-place.
 * @sample samples.collections.Arrays.Sorting.sortDouble
 */
public fun DoubleArray.sort(): Unit
    @sample samples.collections.Arrays.Sorting.sortDouble

/**
 * Sorts the array in-place.
 * @sample samples.collections.Arrays.Sorting.sortFloat
 */
public fun FloatArray.sort(): Unit
    @sample samples.collections.Arrays.Sorting.sortFloat

/**
 * Sorts the array in-place.
 * @sample samples.collections.Arrays.Sorting.sortChar
 */
public fun CharArray.sort(): Unit
    @sample samples.collections.Arrays.Sorting.sortChar

/**
 * Sorts a range in the array in-place.
 * @param fromIndex the start of the range (inclusive) to sort
 * @param toIndex the end of the range (exclusive) to sort
 * @throws IndexOutOfBoundsException if \[fromIndex\] is less than zero or \[toIndex\] is greater than the size of this array
 * @throws IllegalArgumentException if \[fromIndex\] is greater than \[toIndex\]
 * @sample samples.collections.Arrays.Sorting.sortRangeOfInt
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit
    @sample samples.collections.Arrays.Sorting.sortRangeOfInt

/**
 * Sorts a range in the array in-place.
 * @param fromIndex the start of the range (inclusive) to sort
 * @param toIndex the end of the range (exclusive) to sort
 * @throws IndexOutOfBoundsException if \[fromIndex\] is less than zero or \[toIndex\] is greater than the size of this array
 * @throws IllegalArgumentException if \[fromIndex\] is greater than \[toIndex\]
 * @sample samples.collections.Arrays.Sorting.sortRangeOfInt
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit
    @sample samples.collections.Arrays.Sorting.sortRangeOfInt

/**
 * Sorts a range in the array in-place.
 * @param fromIndex the start of the range (inclusive) to sort
 * @param toIndex the end of the range (exclusive) to sort
 * @throws IndexOutOfBoundsException if \[fromIndex\] is less than zero or \[toIndex\] is greater than the size of this array
 * @throws IllegalArgumentException if \[fromIndex\] is greater than \[toIndex\]
 * @sample samples.collections.Arrays.Sorting.sortRangeOfInt
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit
    @sample samples.collections.Arrays.Sorting.sortRangeOfInt

/**
 * Sorts a range in the array in-place.
 * @param fromIndex the start of the range (inclusive) to sort
 * @param toIndex the end of the range (exclusive) to sort
 * @throws IndexOutOfBoundsException if \[fromIndex\] is less than zero or \[toIndex\] is greater than the size of this array
 * @throws IllegalArgumentException if \[fromIndex\] is greater than \[toIndex\]
 * @sample samples.collections.Arrays.Sorting.sortRangeOfChar
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit
    @sample samples.collections.Arrays.Sorting.sortRangeOfChar
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ShortArray>().subarray.sort() * Sorts a range in the array in-place.

this.asDynamic().subarray(fromIndex, toIndex).subarray.sort() * Sorts a range in the array in-place.

subarray.sort() * @param fromIndex the start of the range (inclusive) to sort, 0 by default.

subarray.sort() * @param toIndex the end of the range (exclusive) to sort, size of this array by default.

IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

IllegalArgumentException if [fromIndex] is greater than [toIndex].

samples.collections.Arrays.Sorting.sortRangeOfArray

/*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n*/
actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray =
        this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>().subarray.sort() * @param fromIndex the start of the range (inclusive) to sort, 0 by default.

    subarray.sort() * @param toIndex the end of the range (exclusive) to sort, size of this array by default.

    IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

    @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

    samples.collections.Arrays.Sorting.sortRangeOfArray

/*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n*/
actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    sortArrayWith(this.unsafeCast<Array<Long>>(), fromIndex, toIndex, naturalOrder()) * @param fromIndex the start of the range (inclusive) to sort, 0 by default.

    @param toIndex the end of the range (exclusive) to sort, size of this array by default.

    IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

    @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

    samples.collections.Arrays.Sorting.sortRangeOfArray

/*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n*/
actual fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray =
        this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<FloatArray>().subarray.sort() * @param fromIndex the start of the range (inclusive) to sort, 0 by default.

    subarray.sort() * @param toIndex the end of the range (exclusive) to sort, size of this array by default.

    IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

    @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

    samples.collections.Arrays.Sorting.sortRangeOfArray

/*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n*/
actual fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray =
        this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<DoubleArray>().subarray.sort() * @param fromIndex the start of the range (inclusive) to sort, 0 by default.

    subarray.sort() * @param toIndex the end of the range (exclusive) to sort, size of this array by default.

    IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

    @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

    samples.collections.Arrays.Sorting.sortRangeOfArray

/*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n*/
actual fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray =
        this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<CharArray>().subarray.sort() * @param fromIndex the start of the range (inclusive) to sort, 0 by default.

    subarray.sort() * @param toIndex the end of the range (exclusive) to sort, size of this array by default.

    IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

    @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

    samples.collections.Arrays.Sorting.sortRangeOfArray

/*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n*/
actual fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int): Unit {
    asDynamic().sort(comparison)
}

/*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n*/
actual fun LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    sortArrayWith(this.unsafeCast<Array<Long>>(), fromIndex, toIndex, naturalOrder()) * @param fromIndex the start of the range (inclusive) to sort, 0 by default.

    @param toIndex the end of the range (exclusive) to sort, size of this array by default.

    IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

    @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

    samples.collections.Arrays.Sorting.sortRangeOfArray

/*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n*/
actual fun DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    sortArrayWith(this.unsafeCast<Array<Double>>(), fromIndex, toIndex, naturalOrder()) * @param fromIndex the start of the range (inclusive) to sort, 0 by default.

    @param toIndex the end of the range (exclusive) to sort, size of this array by default.

    IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

    @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

    samples.collections.Arrays.Sorting.sortRangeOfArray

/*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n*/
actual fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    sortArrayWith(this.unsafeCast<Array<Char>>(), fromIndex, toIndex, naturalOrder()) * @param fromIndex the start of the range (inclusive) to sort, 0 by default.

    @param toIndex the end of the range (exclusive) to sort, size of this array by default.

    IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

    @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

    samples.collections.Arrays.Sorting.sortRangeOfArray

/*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n*/
actual fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int): Unit {
    asDynamic().sort(comparison)
}
```kotlin
*\n\n\nthe given \[comparison\] function.\n */
@kotlin.internal.InlineOnly
public inline fun ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n    asDynamic().sort(comparison)\n}

/**
 * Sorts the array in-place according to the order specified by the given \[comparison\] function.\n */
@kotlin.internal.InlineOnly
public inline fun IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n    asDynamic().sort(comparison)\n}

/**
 * Sorts the array in-place according to the order specified by the given \[comparison\] function.\n */
@kotlin.internal.InlineOnly
public inline fun LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {\n    asDynamic().sort(comparison)\n}

/**
 * Sorts the array in-place according to the order specified by the given \[comparison\] function.\n */
@kotlin.internal.InlineOnly
public inline fun FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n    asDynamic().sort(comparison)\n}

/**
 * Sorts the array in-place according to the order specified by the given \[comparison\] function.\n */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {\n    asDynamic().sort(comparison)\n}

/**
 * Sorts the array in-place according to the order specified by the given \[comparison\] function.\n */
@kotlin.internal.InlineOnly
public inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n    asDynamic().sort(comparison)\n}

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
 * contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
 * license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmName("ComparisonsKt")
@file:kotlin.jvm.JvmMultifileClass

package kotlin.comparisons

/**
 * Compares two values using the specified functions \[selectors\] to calculate the result of
 * the comparison.\n * The functions are called sequentially, receive the given values \[a\] and \[b\] and return
 * \[Comparable\] objects. As soon as the \[Comparable\] instances returned by a function for \[a\] and \[b\] values do
```
no\n * compare as equal, the result of that comparison is returned.\n * @sample
 samples.comparisons.Comparisons.compareValuesByWithSelectors\n * @public fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>?): Int {\n * require(selectors.size > 0)\n * return compareValuesByImpl(a, b, selectors)\n }

private fun <T> compareValuesByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>?>): Int {
 * for (fn in selectors) {\n * val v1 = fn(a)\n * val v2 = fn(b)\n * val diff = compareValues(v1, v2)\n * if (diff != 0) return diff\n * return 0\n * }\n * compare two values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the given values [a] and [b] and return [Comparable] objects.\n * The result of comparison of these [Comparable] instances is returned.\n * @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector\n
@kotlin.internal.InlineOnly\n@public inline fun <T> compareValuesBy(a: T, b: T, selector: (T) -> Comparable<*>?): Int {
 * return compareValues(selector(a), selector(b))\n * compare two values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the given values [a] and [b] and return [Comparable]\n
@kotlin.internal.InlineOnly\n@public inline fun <T> compareValuesWith(a: T, b: T, comparator: Comparator<T>): Int = comparator.compare(a, b)

/**
 * Compares two nullable [Comparable] values. Null is considered less than any value.\n * @sample samples.comparisons.Comparisons.compareValues\n */
public fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {
 * if (a === b) return 0\n * if (a == null) return -1\n * if (b == null) return 1\n *
 * return (a as Comparable<Any>).compareTo(b)\n *
 * @sample samples.comparisons.Comparisons.compareValues\n *
 * create a comparator using the sequence of functions to calculate a result of comparison.\n * The functions are called sequentially, receive the given values `a` and `b` and return [Comparable] objects. As soon as the [Comparable]\n
@kotlin.internal.InlineOnly\n@public inline fun <T> compareBy(vararg selectors: (T) -> Comparable<*>?): Comparator<T> {
 * require(selectors.size > 0)\n * return Comparator { a, b ->\n * compareValuesByImpl(a, b, selectors)\n *\n * compare two values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the given values [a] and [b] and return [Comparable] objects. As soon as the [Comparable]\n
@kotlin.internal.InlineOnly\n@public inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =
 * Comparator { a, b ->\n * compareValuesBy(b, a, selector)\n *\n * create a comparator using the function to transform value to a [Comparable] instance for comparison.\n * @sample samples.comparisons.Comparisons.compareByWithSingleSelector\n
@kotlin.internal.InlineOnly\n@public inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =
 * Comparator { a, b ->\n * compareValuesBy(a, b, selector)\n *\n * create a descending comparator using the function to transform value to a [Comparable] instance for comparison.\n * @sample samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\n
@kotlin.internal.InlineOnly\n@public inline fun <T> compareByDescendingWithSingleSelector{\n * @sample
/*
 * Creates a comparator comparing values after the primary comparator defined them equal. It uses
 * the [selector] function to transform values and then compares them with the given [comparator].
 */
@kotlin.internal.InlineOnly
public inline fun <T> Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =
    Comparator { a, b -
        val previousCompare = this@thenBy.compare(a, b)
        if (previousCompare != 0) previousCompare else compareValuesBy(a, b, selector)
    }

/**
 * Creates a comparator comparing values after the primary comparator defined them equal. It uses
 * the function to transform values and then compares them with the given [comparator].
 */
@kotlin.internal.InlineOnly
public inline fun <T, K> Comparator<T>.thenBy(crossinline selector: (T) -> K): Comparator<T> =
Comparator<T> { a, b ->
    val previousCompare = this@thenBy.compare(a, b)
    if (previousCompare != 0) previousCompare else compareValuesBy(a, b, selector)
}

/**
 * Creates a descending comparator using the primary comparator and
 * the function to transform value to a [Comparable] instance for comparison.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =
Comparator { a, b ->
    val previousCompare = this@thenByDescending.compare(a, b)
    if (previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)
}

/**
 * Creates a comparator comparing values after the primary comparator defined them equal. It uses
 * the [selector] function to transform values and then compares them with the given [comparator].
 */
@kotlin.internal.InlineOnly
public inline fun <T, K> Comparator<T>.thenByDescending(crossinline selector: (T) -> K): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenByDescending.compare(a, b)
        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)
    }

/**
 * Creates a comparator using the primary comparator and function to calculate a result of comparison.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenComparator.compare(a, b)
        if (previousCompare != 0) previousCompare else comparison(a, b)
    }

/**
 * Combines this comparator and the given [comparator] such that the latter is applied only
 * when the former considered values equal.\n */
public infix fun <T> Comparator<T>.then(comparator: Comparator<in T>): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@then.compare(a, b)
        if (previousCompare != 0) previousCompare else comparator.compare(a, b)
    }

/**
 * Combines this comparator and the given [comparator] such that the latter is applied only
 * when the former considered values equal.\n */
public infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =
    Comparator<T> { a, b ->
        val previousCompare = this@thenDescending.compare(a, b)
        if (previousCompare != 0) previousCompare else comparator.compare(b, a)
    }

// Not so useful without type inference for receiver of expression\n
/**
 * Extends the given [comparator] of non-nullable values to a comparator of nullable values considering `null` value less than any other value.
 */
@kotlin.internal.InlineOnly
public inline fun <T : Any> nullsFirst(comparator: Comparator<in T>): Comparator<T?> =
    Comparator { a, b ->
        val previousCompare = this@then.compare(a, b)
        if (previousCompare != 0) previousCompare else comparator.compare(a, b)
    }

/**
 * Provides a comparator of non-nullable values considering `null` value less than any other value.
 */
@kotlin.internal.InlineOnly
public inline fun <T : Any> nullsLast(comparator: Comparator<in T>): Comparator<T?> =
    Comparator { a, b ->
        val previousCompare = this@then.compare(a, b)
        if (previousCompare != 0) previousCompare else comparator.compare(a, b)
    }

// Not so useful without type inference for receiver of expression\n
/**
 * Extends the given [comparator] of non-nullable values to a comparator of nullable values considering ‘null’ value less than any other value.
 */
@kotlin.internal.InlineOnly
public inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> =
    comparator.nullsFirst()
nullsLast comparator: Comparator\(<\text{T}>\): Comparator\(<\text{T}>\) =
Comparator\{ a, b ->
when \{\text{ a == b -> 0\n a != null -> b == null -> 1\n else -> comparator.compare(a, b)\}n }\}n
* Provides a comparator of nullable [Comparable] values\n* considering `null` value greater than any other value\n* @sample samples.comparisons.Comparisons
nullsFirstLastComparator

*\n@kotlin.internal.InlineOnly\npublic inline fun \(<\text{T} : \text{Comparable}<\text{\text{T}}>\) nullsFirstLast(): Comparator<\text{T}?> = nullsFirstLast(naturalOrder())\n* Returns a comparator that compares [Comparable] objects in natural order\n* @sample samples.comparisons.Comparisons
naturalOrderComparator\(n\)*

**
* Provides a comparator of nullable [Comparable] values\n* considering `null` value greater than any other value\n* @sample samples.comparisons.Comparisons

naturalOrder(): Comparator<\text{T}?> = @Suppress("UNCHECKED_CAST")\n(NaturalOrderComparator as Comparator<\text{T}?>)\n
* Returns a comparator that compares [Comparable] objects in natural order\n* @sample samples.comparisons.Comparisons

naturalOrderComparator\(n\)*

/**
 * Returns a comparator that compares [Comparable] objects in reversed natural order.
* @sample samples.comparisons.Comparisons

reverseOrder(): Comparator<\text{T}?> = @Suppress("UNCHECKED_CAST")\n(ReverseOrderComparator as Comparator<\text{T}?>)\n
* Returns a comparator that imposes the reverse ordering of this comparator\n* @sample samples.comparisons.Comparisons
ReverseOrderComparator\(n\)*

Comparator<\text{T}?>.reversed(): Comparator<\text{T}?> = when (this) \{\n\text{ is ReversedComparator -> this.comparator\n NaturalOrderComparator -> @Suppress("UNCHECKED_CAST") (ReverseOrderComparator as Comparator<\text{T}?>)\n ReverseOrderComparator -> @Suppress("UNCHECKED_CAST")\n(NaturalOrderComparator as Comparator<\text{T}?>)\n else -> ReversedComparator(this)\}n\n\nprivate class ReversedComparator<\text{T}>(public val comparator: Comparator<\text{T}>) : Comparator<\text{T}>
{
    override fun compare(a: \text{T}, b: \text{T}): Int = comparator.compare(b, a)
    @Suppress("VIRTUAL_MEMBER_HIDDEN")
    fun reversed(): Comparator<\text{T}?> = comparator
}

private object NaturalOrderComparator : Comparator<\text{Comparable<\text{Any}>}>\n{
    override fun compare(a: \text{Comparable<\text{Any}>}, b: \text{Comparable<\text{Any}>}): Int = a.compareTo(b)
    @Suppress("VIRTUAL_MEMBER_HIDDEN")
    fun reversed(): Comparator<\text{Comparable<\text{Any}>}> = ReverseOrderComparator
}

private object ReverseOrderComparator : Comparator<\text{Comparable<\text{Any}>}>\n{
    override fun compare(a: \text{Comparable<\text{Any}>}, b: \text{Comparable<\text{Any}>}): Int = b.compareTo(a)
    @Suppress("VIRTUAL_MEMBER_HIDDEN")
    fun reversed(): Comparator<\text{Comparable<\text{Any}>}> = NaturalOrderComparator
}

/**
 * Calls the specified function \[\text{block}\] and returns its result.
* \text{* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).}\n*/
@kotlin.internal.InlineOnly\npublic inline fun \(<\text{R}>\) run(\text{block}: () -> \text{R})\n: \text{R}\ncontract \{\n\text{ call in place} (\text{block}, InvocationKind.EXACTLY_ONCE)\n\}n\n\n* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\n*/
@kotlin.internal.InlineOnly\npublic inline fun \(<\text{T}, \text{R}>\) run(\text{block}: T.() -> \text{R})\n: \text{R}\ncontract \{\n\text{ call in place} (\text{block}, InvocationKind.EXACTLY_ONCE)\n\}n\n\n* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\n*/
@kotlin.internal.InlineOnly\npublic inline fun \(<\text{T}, \text{R}>\) with(\text{receiver}: \text{T}, \text{block}: T.() -> \text{R})\n: \text{R}\ncontract \{\n\text{ call in place} (\text{block}, InvocationKind.EXACTLY_ONCE)\n\}n

specified function [block] with `this` value as its receiver and returns `this` value.

* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).

```kotlin
@kotlin.internal.InlineOnly
public inline fun <T> T.apply(block: T.() -> Unit): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    block()
    return this
}
```

```kotlin
/**
 * Calls the specified function [block] with `this` value as its argument and returns `this` value.
 * 
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).
 */
@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.also(block: (T) -> Unit): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    block(this)
    return this
}
```

```kotlin
/**
 * Calls the specified function [block] with `this` value as its argument and returns its result.
 * 
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).
 */
@kotlin.internal.InlineOnly
public inline fun <T, R> T.let(block: (T) -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block(this)
}
```

```kotlin
/**
 * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.
 * 
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeIf).
 */
@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    }
    return if (predicate(this)) this else null
}
```

```kotlin
/**
 * Returns `this` value if it does not satisfy the given [predicate] or 'null', if it does.
 * 
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeUnless).
 */
@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    }
    return if (!predicate(this)) this else null
}
```

```kotlin
/**
 * Executes the given function [action] specified number of [times].
 * 
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#repeat).
 */
@kotlin.internal.InlineOnly
public inline fun repeat(times: Int, action: (Int) -> Unit) {
    contract { callsInPlace(action) }

    for (index in 0 until times) {
        action(index)
    }
}
```

```kotlin
package kotlin.comparisons

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import kotlin.js.*

/**
 * Returns the greater of two values.
 * 
 * If values are equal, returns the first one.
 */
@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {
    return if (a >= b) a else b
}
```

```kotlin
/**
 * Returns the greater of two values.
 * 
 * If either value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Float, b: Float): Float {
    return Math.max(a, b)
}
```

```kotlin
/**
 * Returns the greater of three values.
 * 
 * If there are multiple equal maximal values, returns the first of them.
 */
```
public actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {
    return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Short, b: Short, c: Short): Short {
    return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun maxOf(a: Int, b: Int, c: Int): Int {
    return Math.max(a, b, c)
}

/**
 * Returns the greater of three values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Float, b: Float, c: Float): Float {
    return Math.max(a, b, c)
}

/**
 * Returns the greater of three values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Double, b: Double, c: Double): Double {
    return Math.max(a, b, c)
}

/**
 * Returns the greater of the given values.
 * 
 * If there are multiple equal maximal values, returns the first of them.
 */
@SinceKotlin("1.4")
public actual fun maxOf(a: Byte, vararg other: Byte): Byte {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}

/**
 * Returns the greater of the given values.
 * 
 * If there are multiple equal maximal values, returns the first of them.
 */
@SinceKotlin("1.4")
public actual fun maxOf(a: Short, vararg other: Short): Short {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}

/**
 * Returns the greater of the given values.
 * 
 * If there are multiple equal maximal values, returns the first of them.
 */
@SinceKotlin("1.4")
public actual fun maxOf(a: Int, vararg other: Int): Int {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}

/**
 * Returns the greater of the given values.
 * 
 * If there are multiple equal maximal values, returns the first of them.
 */
@SinceKotlin("1.4")
public actual fun maxOf(a: Long, vararg other: Long): Long {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}

/**
 * Returns the greater of the given values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.4")
public actual fun maxOf(a: Float, vararg other: Float): Float {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}

/**
 * Returns the greater of the given values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.4")
public actual fun maxOf(a: Double, vararg other: Double): Double {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}

/**
 * Returns the smaller of two values.
 * 
 * If values are equal, returns the first one.
 */
@SinceKotlin("1.1")
public actual fun minOf(a: Byte, b: Byte): Byte {
    return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Byte, b: Byte): Byte {
    return Math.min(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Short, b: Short): Short {
    return Math.min(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Int, b: Int): Int {
    return Math.min(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Long, b: Long): Long {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Float, b: Float): Float {
    return Math.min(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Double, b: Double): Double {
    return Math.min(a, b)
}

/**
 * Returns the smaller of the given values.
 * 
 * If either value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Float, b: Float): Float {
    return Math.min(a, b)
}

/**
 * Returns the smaller of the given values.
 * 
 * If either value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Double, b: Double): Double {
    return Math.min(a, b)
}
inline fun minOf(a: Float, b: Float): Float {
    return Math.min(a, b)
}

/**
 * Returns the smaller of two values.
 * 
 * If either value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Double, b: Double): Double {
    return Math.min(a, b)
}

/**
 * Returns the smaller of three values.
 * 
 * If there are multiple equal minimal values, returns the first of them.
 */
@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {
    return Math.min(a.toInt(), b.toInt(), c.toInt().unsafeCast<Byte>())
}

/**
 * Returns the smaller of three values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Short, b: Short, c: Short): Short {
    return Math.min(a.toInt(), b.toInt(), c.toInt().unsafeCast<Short>())
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Int, b: Int, c: Int): Int {
    return Math.min(a, b, c)
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Long, b: Long, c: Long): Long {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Float, b: Float, c: Float): Float {
    return Math.min(a, b, c)
}

/**
 * Returns the smaller of three values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Double, b: Double, c: Double): Double {
    return Math.min(a, b, c)
}

/**
 * Returns the smaller of the given values.
 * 
 * If there are multiple equal minimal values, returns the first of them.
 */
@SinceKotlin("1.4")
public actual fun <T : Comparable<T>> minOf(a: T, vararg other: T): T {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.4")
public actual fun minOf(a: Byte, vararg other: Byte): Byte {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.4")
public actual fun minOf(a: Short, vararg other: Short): Short {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.4")
public actual fun minOf(a: Int, vararg other: Int): Int {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.4")
public actual fun minOf(a: Long, vararg other: Long): Long {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.4")
public actual fun minOf(a: Float, vararg other: Float): Float {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 * 
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.4")
public actual fun minOf(a: Double, vararg other: Double): Double {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}
SIZE_BYTES: Int = 8

Sizes

/**
 * The number of bits used to represent an instance of ULong in a binary
 * form.
 */
public const val SIZE_BITS: Int = 64

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if
 * it's less than other, or a positive number if it's greater than other.
 */
public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toULong())

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
public inline operator fun compareTo(other: ULong): Int = ulongCompare(this.data, other.data)

/** Adds the other value to this value. */
public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())

/** Adds the other value to this value. */
public inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())

/** Adds the other value to this value. */
public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())

/** Adds the other value to this value. */
public inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))

/** Subtracts the other value from this value. */
public inline operator fun minus(other: UByte): ULong = this.minus(other.toULong())

/** Subtracts the other value from this value. */
public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())

/** Subtracts the other value from this value. */
public inline operator fun minus(other: UInt): ULong = this.minus(other.toULong())

/** Subtracts the other value from this value. */
public inline operator fun minus(other: ULong): ULong = ulongDivide(this, other)

/** Calculates the remainder of dividing this value by the other value. */
public inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())

/** Calculates the remainder of dividing this value by the other value. */
public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())

/** Calculates the remainder of dividing this value by the other value. */
public inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())

/** Calculates the remainder of dividing this value by the other value. */
public inline operator fun rem(other: ULong): ULong = ulongRemainder(this, other)

/** Increments this value. */
public override inline operator fun compareTo(other: ULong): Int = this.compareTo(other)

/** Increments this value. */
public override inline operator fun plus(other: ULong): ULong = this.plus(other)

/** Increments this value. */
public override inline operator fun minus(other: ULong): ULong = this.minus(other)

/** Increments this value. */
public override inline operator fun times(other: ULong): ULong = this.times(other)

/** Increments this value. */
public override inline operator fun div(other: ULong): ULong = this.div(other)

/** Increments this value. */
public override inline operator fun rem(other: ULong): ULong = this.rem(other)
public inline operator fun inc(): ULong = ULong(data.inc())
    /** Decrement this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun dec(): ULong = ULong(data.dec())
    /** Creates a range from this value to the specified [other] value. */
    @kotlin.internal.InlineOnly
    public inline operator fun rangeTo(other: ULong): ULongRange = ULongRange(this, other)
    /** Shifts this value left by the [bitCount] number of bits. */
    @kotlin.internal.InlineOnly
    public inline infix fun shl(bitCount: Int): ULong = ULong(data.shl(bitCount))
    /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */
    @kotlin.internal.InlineOnly
    public inline infix fun ushr(bitCount: Int): ULong = ULong(data.ushr(bitCount))
    /** Performs a bitwise AND operation between the two values. */
    @kotlin.internal.InlineOnly
    public inline infix fun and(other: ULong): ULong = ULong(data and other.data)
    /** Performs a bitwise OR operation between the two values. */
    @kotlin.internal.InlineOnly
    public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)
    /** Performs a bitwise XOR operation between the two values. */
    @kotlin.internal.InlineOnly
    public inline infix fun xor(other: ULong): ULong = ULong(this.data xor other.data)
    /** Inverts the bits in this value. */
    @kotlin.internal.InlineOnly
    public inline fun inv(): ULong = ULong(data.inv())
    /** Converts this [ULong] value to [Byte]. */
    @kotlin.internal.InlineOnly
    public inline fun toByte(): Byte = data.toByte()
    /** Converts this [ULong] value to [UByte]. */
    @kotlin.internal.InlineOnly
    public inline fun toUByte(): UByte = data.toUByte()
    /** Converts this [ULong] value to [UShort]. */
    @kotlin.internal.InlineOnly
    public inline fun toUShort(): UShort = data.toUShort()
    /** Converts this [ULong] value to [UInt]. */
    @kotlin.internal.InlineOnly
    public inline fun toUInt(): UInt = data.toUInt()
    /** Returns this value. */
    @kotlin.internal.InlineOnly
    public inline fun toLong(): Long = data.toLong()
    /** Converts this [ULong] value to [Int]. */
    @kotlin.internal.InlineOnly
    public inline fun toInt(): Int = data.toInt()
    /** Converts this [ULong] value to [Short]. */
    @kotlin.internal.InlineOnly
    public inline fun toShort(): Short = data.toShort()
    /** Converts this [ULong] value to [UShort]. */
    @kotlin.internal.InlineOnly
    public inline fun toUShort(): UShort = data.toUShort()
    /** Converts this [ULong] value to [UInt]. */
    @kotlin.internal.InlineOnly
    public inline fun toUInt(): UInt = data.toUInt()
    /** Converts this [ULong] value to [Long]. */
    @kotlin.internal.InlineOnly
    public inline fun toLong(): Long = data.toLong()
    /** Converts this [ULong] value to [Int]. */
    @kotlin.internal.InlineOnly
    public inline fun toInt(): Int = data.toInt()
    /** Converts this [ULong] value to [Short]. */
    @kotlin.internal.InlineOnly
    public inline fun toShort(): Short = data.toShort()
Double = ulongToDouble(data)

    public override fun toString(): String = ulongToString(data)

}

/**
 * Converts this `Byte` value to `ULong`.
 * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Byte` value.
 * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value.
 * The most significant 48 bits are filled with the sign bit of this value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Byte.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this `Short` value to `ULong`.
 * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short` value.
 * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value.
 * The most significant 32 bits are filled with the sign bit of this value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Short.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this `Int` value to `ULong`.
 * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int` value.
 * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value.
 * The most significant 32 bits are filled with the sign bit of this value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Int.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this `Long` value to `ULong`.
 * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long` value.
 * The resulting `ULong` value has the same binary representation as this `Long` value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Long.toULong(): ULong = ULong(this)
/**
 * Converts this `Float` value to `ULong`.
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if this `Float` value is negative or `NaN`.
 * Returns `ULong.MAX_VALUE` if it's bigger than `ULong.MAX_VALUE`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())
/**
 * Converts this `Double` value to `ULong`.
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if this `Double` value is negative or `NaN`.
 * Returns `ULong.MAX_VALUE` if it's bigger than `ULong.MAX_VALUE`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Double.toULong(): ULong = doubleToULong(this)
element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this
collection।

Iterate<T>.elementAt(index: Int): T {\n    if (this is List)\n        return get(index)\n    else\n        throw IndexOutOfBoundsException("Collection doesn't contain element at index\n        $index.")\n}

Iterable<T>.elementAtOrElse(index: Int) {\n    throw IndexOutOfBoundsException("Collection doesn't contain element at index\n    $index.")\n}

Iterable<T>.elementAtOrNull(index: Int): T? {\n    if (is List)\n        return getOrNull(index)\n    else\n        return null\n}

Iterable<T>.first(): T {\n    if (is List)\n        return first()\n    else\n        throw NoSuchElementException("Collection is empty.")\n}

Iterable<T>.firstOrNull(): T? {\n    if (is List)\n        return firstOrNull()\n    else\n        return null\n}

Iterable<T>.find(predicate: (T) -> Boolean): T? {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Collection contains no element matching the predicate.")\n}

Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n    return lastOrNull(predicate)\n}

Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n    return lastOrNull(predicate)\n}

Iterable<T>.firstOrNull(): T? {\n    if (is List)\n        return firstOrNull()\n    else\n        return null\n}

Iterable<T>.firstOrNull(): T? {\n    if (is List)\n        return firstOrNull()\n    else\n        return null\n}

Iterable<T>.firstOrNull(): T? {\n    if (is List)\n        return firstOrNull()\n    else\n        return null\n}

Iterable<T>.firstOrNull(): T? {\n    if (is List)\n        return firstOrNull()\n    else\n        return null\n}
```kotlin
checkIndexOverflow(index)
if (element == item)
    lastIndex = index
index++
}

/**
 * Returns last index of [element], or -1 if the list does not contain element.
 */
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases
public fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {
    return lastIndexOf(element)
}

/**
 * Returns last index of [element], or `null` if the list is empty.
 */
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases
public fun <T> List<T>.lastOrNull(): T? {
    when (this)
    @return
    else -> {
        val iterator = iterator()
        if (!iterator.hasNext()) return null
        var last = iterator.next()
        while (iterator.hasNext())
            last = iterator.next()
        return last
    }
}

/**
 * Returns last index matching the given [predicate], or `null` if no such element was found.
 */
public fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {
    var last: T? = null
    for (element in this)
        if (predicate(element)) {
            last = element
            return last
        }
}

/**
 * Returns a random element from this collection.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.random(): T {
    return random(Random)
}

/**
 * Returns a random element from this collection using the specified source of randomness.
 */
@SinceKotlin("1.3")
public fun <T> Collection<T>.random(random: Random): T {
    if (isEmpty()) throw NoSuchElementException("Collection is empty.")
    return elementAt(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the collection is empty or has more than one element.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public fun <T> Collection<T>.singleOrNull(): T? {
    return singleOrNull(Random)
}

/**
 * Returns the single element matching the given [predicate], or `null` if there is no or more than one matching element.
 */
public inline fun <T> Collection<T>.singleOrNull(predicate: (T) -> Boolean): T? {
    var single: T? = null
    var found = false
    for (element in this)
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Collection contains more than one matching element.")
            single = element
            found = true
        } else return null
    return single
}
```
List<T>.singleOrNull(): T? {
    if (size == 1) return this[0]
    return null
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {
    var single: T? = null
    for (item in this) {
        if (predicate(item)) {
            if (single != null) return null
            single = item
        }
    }
    return single
}

/**
 * Returns a list containing all elements except first [n] elements.
 */
public fun <T> Iterable<T>.drop(n: Int): List<T> {
    return dropLast(n).toList()
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 */
public fun <T> List<T>.dropLast(n: Int): List<T> {
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun <T> Iterable<T>.dropWhile(predicate: (T) -> Boolean): List<T> {
    var yielding = false
    val list = ArrayList<T>()
    for (item in this) {
        if (!yielding && !predicate(item)) {
            list.add(item)
            yielding = true
        }
    }
    return list
}

/**
 * Returns a list containing all elements that are instances of specified type parameter R.
 */
public inline fun <reified R> Iterable<*>.filterIsInstance(): List<R> {
    return filterIsInstanceTo(ArrayList<R>())
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 */
public inline fun <R> Iterable<R>.filterIsInstanceTo(destination: MutableList<R>): R? {
    // Implementation
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 */
public inline fun <T> Iterable<T>.filterNot(predicate: (T) -> Boolean): List<T> {
    return filterIndexedTo(ArrayList<T>(), predicate)
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 */
public inline fun <R> Iterable<R>.filterNotTo(destination: MutableList<R>) {
    // Implementation
}

/**
 * Returns a list containing only elements matching the given [predicate] on the element.
 */
public inline fun <R> Iterable<R>.filterIsInstanceOf(): List<@kotlin.internal.NoInfer R> {
    return filterIsInstanceOfTo(ArrayList<R>())
}

/**
 * Returns a list containing only elements matching the given [predicate] on the element.
 */
public inline fun <R> Iterable<R>.filterIsInstanceOfTo(destination: MutableList<R>) {
    // Implementation
}
```kotlin
Iterables.filterNot(predicates: (T) -> Boolean): List<T> {
    return filterNotTo(ArrayList<T>(), predicates) as List<T>
}
```
in the list in-place according to natural sort order of the value returned by specified [selector] function.

* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.

The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function.

The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

Sorts elements in the list in-place descending according to the specified [comparator].

The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

* Returns a list of all elements sorted according to the specified [selector] function.

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LongArray(size) var index = 0n for (element in this)\n    result[index++] = element\nreturn result\n\n// Returns an array of Short containing all of the elements of this collection.
\n/**
 * Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given collection.
 * If any of two pairs would have the same key the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original collection.
 * @sample samples.collections.Collections.Transformations.toShortArray
 */
\npublic fun Collection<Short>.toShortArray(): ShortArray {
    var index = 0n for (element in this)
    result[index++] = element
    return result
}

/**
 * Returns an array of Short containing all of the elements of this collection.
 * If any two elements would have the same key the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original collection.
 * @sample samples.collections.Collections.Transformations.toShortArray
 */
\npublic fun Collection<Short>.toShortArray(): ShortArray {
    var index = 0n for (element in this)
    result[index++] = element
    return result
}

/**
 * Returns a [Map] containing elements from the given collection indexed by the key returned from [keySelector] function applied to each element.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original collection.
 * @sample samples.collections.Collections.Transformations.toHashMap
 */
\npublic fun Collection<in Any>.toHashMap(transform: (T) -> Pair<K, V>): Map<K, V> {
    var index = 0n for (element in this)
    result[index++] = element
    return result
}

/**
 * Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given collection.
 * If any of two pairs would have the same key the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original collection.
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    result[index++] = element
    return result
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 * If any of two pairs would have the same key the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original collection.
 * @sample samples.collections.Collections.Transformations.toHashMap
 */
\npublic fun Collection<in Any>.toHashMap(transform: (T) -> Pair<K, V>): Map<K, V> {
    var index = 0n for (element in this)
    result[index++] = element
    return result
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and value is provided by the [valueSelector] function applied to elements of the given collection.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original collection.
 * @sample samples.collections.Collections.Transformations.toHashMap
 */
\npublic fun Collection<in Any>.toHashMap(destination: Map<K, V>, keySelector: (T) -> K, valueSelector: (T) -> V): Map<K, V> {
    var index = 0n for (element in this)
    destination[keySelector(element), valueSelector(element)] = element
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and value is provided by the [valueSelector] function applied to elements of the given collection.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original collection.
 * @sample samples.collections.Collections.Transformations.toHashMap
 */
\npublic fun Collection<in Any>.toHashMap(destination: Map<K, V>, keySelector: (T) -> K, valueSelector: (T) -> V): Map<K, V> {
    var index = 0n for (element in this)
    destination[keySelector(element), valueSelector(element)] = element
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and value is provided by the [valueSelector] function applied to elements of the given collection.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original collection.
 * @sample samples.collections.Collections.Transformations.toHashMap
 */
\npublic fun Collection<in Any>.toHashMap(destination: Map<K, V>, keySelector: (T) -> K, valueSelector: (T) -> V): Map<K, V> {
    var index = 0n for (element in this)
    destination[keySelector(element), valueSelector(element)] = element
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and value is provided by the [valueSelector] function applied to elements of the given collection.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original collection.
 * @sample samples.collections.Collections.Transformations.toHashMap
 */
\npublic fun Collection<in Any>.toHashMap(destination: Map<K, V>, keySelector: (T) -> K, valueSelector: (T) -> V): Map<K, V> {
    var index = 0n for (element in this)
    destination[keySelector(element), valueSelector(element)] = element
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and value is provided by the [valueSelector] function applied to elements of the given collection.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original collection.
 * @sample samples.collections.Collections.Transformations.toHashMap
 */
\npublic fun Collection<in Any>.toHashMap(destination: Map<K, V>, keySelector: (T) -> K, valueSelector: (T) -> V): Map<K, V> {
    var index = 0n for (element in this)
    destination[keySelector(element), valueSelector(element)] = element
    return destination
}
valueSelector)

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each
 * element of the given collection.\n * where key is the element itself and value is provided by the [valueSelector]
 * function applied to that key.\n *\n * If any two elements are equal, the last one overwrites the former value in the
 * map.\n */
@SinceKotlin("1.3")\npublic inline fun <K, V, M : MutableMap<K, V>>
Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {
    for (element in this) {
        destination[element] = valueSelector(element)
    }
    return destination
}

/**
 * Appends all elements to
 * the given [destination] collection.\n */
public fun <T, C : MutableCollection<T>>
Iterable<T>.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Returns a new [HashSet] of all elements.\n */
public fun <T> Iterable<T>.toHashSet(): HashSet<T> {
    return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being
 * invoked on each element of original collection.\n */
public fun <T, R> Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being
 * invoked on each element of original collection.\n */
public fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each
 * element of original collection,\n */
public fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

/*@
*\n*/
By LambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(checkIndexOverflow(index++), element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element*n* and its index in the original collection, to the given [destination].\n */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
By LambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(checkIndexOverflow(index++), element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Groups elements of the original collection by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements.\n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n */
public inline fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original collection
 * by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding values.\n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n */
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<T>() }
        list.add(element)
    }
    return destination
}
operations
* using the specified [keySelector] function to extract a key from each element.

```kotlin
* * @sample samples.collections.Grouping.groupingByEachCount
*
/**
   * Grouping an iterable by using the specified [keySelector] function to extract a key from each element.
   * Returns a list containing the results of applying the given [transform] function to each element in the original collection.
   */
@SinceKotlin("1.1")
public inline fun <T, K>
Iterable<T>.groupBy(crossinline keySelector: (T) -> K): Grouping<T, K> {
    override fun sourceIterator(): Iterator<T> = this@groupBy.iterator()
    override fun keyOf(element: T): K = keySelector(element)
    return object : Grouping<T, K> {
        override fun iterator(): Iterator<T> = this@groupBy.iterator()
```

```kotlin
    override fun transform(key: K, elements: List<T>): List<Pair<K, List<T>>>
    return emptyList()
}
```

```kotlin
    return object : Grouping<T, K> {
        override fun iterator(): Iterator<T> = this@groupBy.iterator()
        override fun keyOf(element: T): K = keySelector(element)
```
given collection with equal keys, only the first one will be present in the resulting list. The elements in the resulting list are in the same order as they were in the source collection. 

* Returns a set containing all elements that are contained by both this collection and the specified collection. 

The returned set preserves the element iteration order of the original collection.

* To get a set containing all elements that are contained at least in one of these collections use [union].

* Returns a new [MutableSet] containing all distinct elements from the given collection. 

* The returned set preserves the element iteration order of the original collection.

* Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection.

* Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection.

* Returns `true` if all elements match the given [predicate].

* Returns `true` if at least one element matches the given [predicate].

* Returns the number of elements in this collection.

* Accumulates value starting with [initial] value and applying [operation] from left to right in the original collection.

* Returns `true` if at least one element matches the given [predicate].

* Returns `true` if at least one element matches the given [predicate].

* Returns a new [MutableSet] containing all distinct elements from both collections.

* Returns `true` if at least one element matches the given [predicate].

* Returns the number of elements matching the given [predicate].

* Returns the specified [initial] value if the collection is empty. 

* * @sample 

* Returns a new [MutableSet] containing all distinct elements from the given collection. 

* Returns the number of elements in this collection.

* Returns the number of elements matching the given [predicate].

* Returns the specified [initial] value if the collection is empty. 

* * @param 

* Function that takes current accumulator value and an element, and calculates the next accumulator value. 

* Accumulates value starting with [initial] value and applying [operation] from left to right in the original collection.

* Returns the specified [initial] value if the collection is empty. 

* * @param 

* Function that takes current accumulator value and an element, and calculates the next accumulator value.
value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * Returns the specified [initial] value if the list is empty.\n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {
    var accumulator = initial\n    if (!isEmpty()) {\n        val iterator = listIterator(size)\n        while (iterator.hasPrevious()) {\n            accumulator = operation(iterator.previous(), accumulator)\n        }\n        return accumulator\n    }\n    return initial\n}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * Returns the specified [initial] value if the list is empty.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */
public inline fun <T, R> List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {
    var accumulator = initial\n    if (!isEmpty()) {\n        val iterator = listIterator(size)\n        while (iterator.hasPrevious()) {\n            val index = iterator.previousIndex()\n            accumulator = operation(index, iterator.previous(), accumulator)\n        }\n        return accumulator\n    }\n    return initial\n}

/**
 * Performs the given [action] on each element.
 */
@kotlin.internal.HidesMembers
public inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {
    for (element in this) action(element)\n}

/**
 * Performs the given [action] on each element, providing sequential
 * index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element using the index.\n */
public inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
    var index = 0\n    for (item in this) action(checkIndexOverflow(index++), item)\n}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public fun Iterable<Double>.max(): Double? {
    return maxOrNull()\n}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public fun Iterable<Float>.max(): Float? {
    return maxOrNull()\n}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public fun <T : Comparable<T>> Iterable<T>.max(): T? {
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxElem = iterator.next()\n    if (!iterator.hasNext()) return maxElem\n    var maxValue = selector(maxElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    } while (iterator.hasNext())\n    return maxElem\n}

/**
 * Returns the first element yielding the largest value of the given function or
 * 'null' if there are no elements.\n * @param [selector] function\n * applied to each element in the collection.\n * @throws NoSuchElementException if the collection is empty.\n */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) -> Double): T? {
    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var maxElem = iterator.next()\n    if (!iterator.hasNext()) return maxElem\n    var maxValue = selector(maxElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    } while (iterator.hasNext())\n    return maxElem\n}

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Float): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the collection.
 * @throws NoSuchElementException if the collection is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@public inline fun <T, R : Comparable<R>> Iterable<T>.maxOf(selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@public inline fun <T> Iterable<T>.maxOfOrNull(selector: (T) -> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@public inline fun <T> Iterable<T>.maxOfOrNull(selector: (T) -> Float): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@public inline fun <T, R : Comparable<R>> Iterable<T>.maxOfOrNull(selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the collection.
 * @throws NoSuchElementException if the collection is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@public inline fun <T, R, C : Comparator<R>> Iterable<T>.maxOfWith(comparator: C, selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@public inline fun <T, R, C : Comparator<R>> Iterable<T>.maxOfWithOrNull(comparator: C, selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}
elements.

If any of elements is `NaN` returns `NaN`.

* /@SinceKotlin("1.4")*/public

fun Iterable<Double>.maxOrNull(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        max = maxOf(max, e)
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun Iterable<Float>.maxOrNull(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        max = maxOf(max, e)
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun <T : Comparable<T>> Iterable<T>.maxOrNull(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {
    return maxWithOrNull(comparator)
}

/**
 * Returns the first element having the largest value according to the provided 
 comparator or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun <T> Iterable<T>.maxWithOrNull(comparator: Comparator<in T>): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

@Deprecated("Use minOrNull instead.", ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public fun Iterable<Double>.min(): Double? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.", ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public fun Iterable<Float>.min(): Float? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.", ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun <T : Comparable<T>> Iterable<T>.min(): T? {
    return minOrNull()
}

@Deprecated("Use minByOrNull instead.", ReplaceWith("minByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minElem = iterator.next()
    if (!iterator.hasNext()) return minElem
    var minValue = selector(minElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    } while (iterator.hasNext())
    return minElem
}

/**
 * Returns the smallest value among all values produced by 
 [selector] function
 * applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minOf(selector: (T) -> Double): Double {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by 
 [selector] function
 * applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minOf(selector: (T) -> Float): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}
minValue = selector(iterator.next())
while (iterator.hasNext()) {
    val v = selector(iterator.next())
    minValue = minOf(minValue, v)
}
return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.experimental.InlineOnly
public inline fun <T, R : Comparable<R>> Iterable<T>.minOf(selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the collection or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.experimental.InlineOnly
public inline fun <T> Iterable<T>.minOfOrNull(selector: (T) -> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the collection or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.experimental.InlineOnly
public inline fun <T, R : Comparable<R>> Iterable<T>.minOfOrNull(selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the collection or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.experimental.InlineOnly
public inline fun <T> Iterable<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the collection or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.experimental.InlineOnly
public inline fun <T> Iterable<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun Iterable<Double>.minOrNull(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var
min = iterator.next()
while (iterator.hasNext()) {
    val e = iterator.next()
    min = minOf(min, e)
}
return min
}

/**
 * Returns the smallest element or `null` if there are no elements.
 * 
 * If any of elements
 * is `NaN` returns `NaN`. In *\n * If any of elements is `NaN` returns `NaN`. In *\n * If any of elements is `NaN` returns `NaN`. In *\n * Returns the smallest element or `null`.
 */
@SinceKotlin("1.4")
public fun Iterable<Float>.minOrNull(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        min = minOf(min, e)
    }
    return min
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun <T : Comparable<T>> Iterable<T>.minOrNull(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun <T> Iterable<T>.none(): Boolean {
    if (this is Collection) return isEmpty()
    return !iterator().hasNext()
}

/**
 * Returns `true` if no elements match the given [predicate].
 */
public inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {
    if (this is Collection && isEmpty()) return true
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.1")
public inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {
    return apply { forEach(action) }
}

/**
 * Performs the given [action] on each element, providing sequential index with the element,
 * and returns the collection itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
public inline fun <T, C : Iterable<T>> C.onEachIndexed(action: (index: Int, T) -> Unit): C {
    return apply { forEachIndexed(action) }
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * 
 * Throws an exception if this collection is empty. If the collection can be empty in an expected way,
 * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 * 
 * If the collection can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 */
public inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original collection.
 * 
 * Throws an exception if this collection is empty. If the collection can be empty in an expected way,
 * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
 * 
 * If the collection can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
 */
public inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")
    var index = 1
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
    }
    return accumulator
}
null if the collection is empty.

@sinceKotlin("1.4")
public inline fun <S, T : S> Iterable<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {
    var val iterator = this.iterator()
    if (!iterator.hasNext()) return null
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(iterator.next(), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to each element. null if the collection is empty.
 * 
 * @param [operation] function that takes current accumulator value and each element.
 * @param [operation] function that takes current accumulator value and each element.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@sinceKotlin("1.4")
@wasExperimental(ExperimentalStdlibApi::class)
public inline fun <S, T : S> Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return null
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * 
 * Throws an exception if this list is empty. If the list can be empty in an expected way,
 * null please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
 * 
 * @param [operation] function that takes an element and current accumulator value,
 * 
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun <S, T : S> List<T>.reduceRight(operation: (T, acc: S) -> S): S {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        throw UnsupportedOperationException("Empty list can't be reduced.")
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        accumulator = operation(iterator.previous(), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original list and current accumulator value.
 * 
 * Returns `null` if the list is empty.
 * 
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value,
 * 
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@sinceKotlin("1.4")
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        return null
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        val index = iterator.previousIndex()
        accumulator = operation(index, iterator.previous(), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.
 * 
 *抛出异常如果此列表是空的。如果该列表可以以预期的方式为空，则使用 [reduceRightOrNull] 替代。
 * 返回 `null` 当其接收者是空。
 * 
 * @param [operation] function that takes an element and current accumulator value,
 * 
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@sinceKotlin("1.4")
public inline fun <S, T : S> List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        return null
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        accumulator = operation(iterator.previous(), accumulator)
    }
    return accumulator
}

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```kotlin

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list.
 * 
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * 
 * @sample samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
public inline fun <T, R>
Iterable<T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {
    val estimatedSize = collectionSizeOrDefault(9)
    if (estimatedSize == 0) return listOf(initial)
    val result = ArrayList<R>(estimatedSize + 1).apply {
        add(initial)
        for (element in this) {
            accumulator = operation(accumulator, element)
            add(accumulator)
        }
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element, its index in the original collection and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list.
 * 
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * 
 * @sample samples.collections.Collections.Aggregates.runningFoldIndexed
 */
@SinceKotlin("1.4")
public inline fun <T, R>
Iterable<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {
    val estimatedSize = collectionSizeOrDefault(9)
    if (estimatedSize == 0) return listOf(initial)
    val result = ArrayList<R>(estimatedSize + 1).apply {
        add(initial)
        var index = 0
        for (element in this) {
            accumulator = operation(index++, accumulator, element)
            add(accumulator)
        }
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with the first element of this collection.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list.
 * 
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * 
 * @sample samples.collections.Collections.Aggregates.runningReduce
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <S, T : S>
Iterable<T>.runningReduce(operation: (acc: S, T) -> S): List<S> {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return emptyList()
    var accumulator: S = iterator.next()
    val result = ArrayList<S>(collectionSizeOrDefault(10)).apply {
        add(accumulator)
        while (iterator.hasNext()) {
            accumulator = operation(accumulator, iterator.next())
            add(accumulator)
        }
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element, its index in the original collection and current accumulator value that starts with the
 * first element of this collection.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list.
 * 
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * 
 * @sample samples.collections.Collections.Aggregates.runningReduceIndexed
 */
@SinceKotlin("1.4")
public inline fun <S, T : S> Iterable<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return emptyList()
    var accumulator: S = iterator.next()
    val result = ArrayList<S>(collectionSizeOrDefault(10)).apply {
        add(accumulator)
        var index = 1
        while (iterator.hasNext()) {
            accumulator = operation(index++, accumulator, iterator.next())
            add(accumulator)
        }
    }
    return result
}
```

---

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value.

@sample samples.collections.Collections.Aggregates.scan

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <T, R>
Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation]
 * from left to right to each element, its index in the original collection and current accumulator value
 * that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the
 * index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <T, R>
Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

@Deprecated("Use runningReduce instead.",
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S>
Iterable<T>.scanReduce(operation: (acc: S, T) -> S): List<S> {
    return runningReduce(operation)
}

@Deprecated("Use runningReduceIndexed instead.",
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S>
Iterable<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    return runningReduceIndexed(operation)
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the collection.
 * @sample samples.collections.Collections.Aggregates.sum
 */
public inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the collection.
 */
public inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.sumOf(selector: (T) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.sumOf(selector: (T) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.experimental.UnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.sumOf(selector: (T) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@kotlin.experimental.UnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
public inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong {
    var sum = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns an original collection containing all the non-null elements, throwing an [IllegalArgumentExce
Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Returns a list containing all elements of the original collection and then the given [element].
 */
public operator fun <T> Iterable<T>.plus(element: T): List<T> {
    val this = this as? Collection
    return result.addAll(this)
}

/**
 * Returns a list containing all elements of the original collection and then the given [elements].
 */
public operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {
    val result = ArrayList<T>(this.size + elements.size)
    result.addAll(this)
    result.addAll(elements)
    return result
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.
 */
public operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {
    val result = ArrayList<T>(this.size + elements.size)
    result.addAll(this)
    result.addAll(elements)
    return result
}

/**
 * Returns a list of snapshots of the window of the given [size]
 * sliding along this collection with the given [step], where each [index] snapshot is a list.
 */
public fun <T> Iterable<T>.windowed(size: Int,
    step: Int = 1, partialWindows: Boolean = false): List<List<T>> {
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
        val result = ArrayList<List<T>>(resultCapacity)
        var index = 0
        while (index in 0 until thisSize) {
            val windowSize = size.coerceAtMost(thisSize - index)
            if (windowSize < size && !partialWindows) break
            result.add(List(windowSize) { this[it + index] })
            index += step
        }
        return result
    }
    val result = ArrayList<List<T>>()
    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {
        result.add(it)
    }
    return result
}

/**
 * Returns a list of results of applying the
 */
given [transform] function to\n* an each list representing a view over the window of the given [size]\n* sliding
along this collection with the given [step].\n* Note that the list passed to the [transform] function is ephemeral
and is valid only inside that function.\n* You should not store it or allow it to escape in some way, unless you made
a snapshot of it.\n* Several last lists may have less elements than the given [size].\n* Both [size] and [step]
must be greater than the number of elements in this collection.\n* @param size the number of elements to take in each window\n* @param step the number of elements to move the window forward by on an
each step, by default 1\n* @param partialWindows controls whether or not to keep partial windows in the end if
any\n* by default `false` which means partial windows won't be preserved\n* @sample samples.collections.Sequences.Transformations.averageWindows\n* @SinceKotlin("1.2")\npublic fun <T, R>\nIterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):\nList<R> {\n    checkWindowSizeStep(size, step)\n    if (this is RandomAccess && this is List) {\n        val thisSize =\n        this.size\n        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result =\n        ArrayList<R>(resultCapacity)\n        val window = MovingSubList(this)\n        var index = 0\n        while (index in 0\n            until thisSize) {\n            val windowSize = size.coerceAtMost(thisSize - index)\n            if (!partialWindows &&\n                windowSize < size) break\n            window.move(index, index + windowSize)\n            result.add(transform(window))\n            index += step\n        }\n        return result\n    }\n    val result =\n    ArrayList<R>()\n    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n        result.add(transform(it))\n    }\n    return result\n}\n/**\n * Returns a list of pairs built from the elements of `this`
collection and the \n* [other] array with the same index.\n* The returned list has length of the shortest collection.\n* @sample samples.collections.Iterables.Operations.zip
*/
public infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**\n * Returns a list of values \n* built from the elements of `this` collection and the \n* [other] collection with the same index\n* using the provided \n* [transform] function applied to each pair of elements.\n* The returned list has length of the shortest collection.\n* @sample samples.collections.Iterables.Operations.zip
*/
public inline fun <T, R, V> Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {
    val first = iterator()
    val second = other.iterator()
    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))
    while (first.hasNext() && second.hasNext()) {
        list.add(transform(first.next(), second.next()))
    }
    return list
}

/**\n * Returns a list of pairs of each two \n* adjacent elements in this collection.\n* The returned list is empty if this collection contains less than two\n* elements.\n* @sample samples.collections.Collections.Transformations.zipWithNext\n*/
@SinceKotlin("1.2")\npublic fun <T, R> Iterable<T>.zipWithNext(): List<Pair<T, T>> {
    return zipWithNext { a, b -> a to b }
}

/**\n * Returns a list containing the results of applying the given \n* [transform] function \n* to \n* an each pair of two adjacent elements in this collection.\n* The returned list is empty if this collection contains less than two\n* elements.\n* @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n*/
@SinceKotlin("1.2")\npublic inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = iterator()
    if (!iterator.hasNext()) return emptyList()
    val list = mutableListOf<R>()
    var current = iterator.next()
    while (iterator.hasNext()) {
        val next = iterator.next()
        list.add(transform(current, next))
        current
    }
    return list
}
Iterable<T>.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequencen = "", postfix: CharSequencen = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequencen) = null): A

public fun <T, A : Appendable>
    A @sample samples.collections.Collections.Transformations.joinTo

Iterable<T>.joinTo(StringBuilder(), separator: CharSequence = ", ", prefix: CharSequencen = "", postfix: CharSequencen = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequencen) = null): String

public fun Iterable<Byte>.average(): Double

public fun Iterable<Short>.average(): Double

public fun Iterable<Int>.average(): Double

public fun Iterable<Long>.average(): Double

public fun Iterable<Float>.average(): Double

public fun Iterable<Double>.average(): Double

public fun Iterable<Byte>.sum(): Int

public fun Iterable<Short>.sum(): Int

public fun Iterable<Int>.sum(): Int

public fun Iterable<Long>.sum(): Int

public fun Iterable<Float>.sum(): Int

public fun Iterable<Double>.sum(): Int

public fun <T> Iterable<T>.asIterable(): Iterable<T>

public fun <T> Iterable<T>.asSequence(): Sequence<T>

@kotlin.jvm.JvmName("averageOfByte")
public fun Iterable<Byte>.average(): Double

@kotlin.jvm.JvmName("averageOfShort")
public fun Iterable<Short>.average(): Double

@kotlin.jvm.JvmName("averageOfInt")
public fun Iterable<Int>.average(): Double

@kotlin.jvm.JvmName("averageOfLong")
public fun Iterable<Long>.average(): Double

@kotlin.jvm.JvmName("averageOfFloat")
public fun Iterable<Float>.average(): Double

@kotlin.jvm.JvmName("averageOfDouble")
public fun Iterable<Double>.average(): Double

@kotlin.jvm.JvmName("sumOfByte")
public fun Iterable<Byte>.sum(): Int

@kotlin.jvm.JvmName("sumOfShort")
public fun Iterable<Short>.sum(): Int

@kotlin.jvm.JvmName("sumOfInt")
public fun Iterable<Int>.sum(): Int

@kotlin.jvm.JvmName("sumOfLong")
public fun Iterable<Long>.sum(): Int

@kotlin.jvm.JvmName("sumOfFloat")
public fun Iterable<Float>.sum(): Int

@kotlin.jvm.JvmName("sumOfDouble")
public fun Iterable<Double>.sum(): Int
for (element in this) { n sum += element
 } n return sum
 } n/* */ * n Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Iterable<Long>.sum(): Long {
    var sum: Long = 0
    for (element in this) { n sum += element
 } n return sum
 } n/* */ * n Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Iterable<Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) { n sum += element
 } n return sum
 } n/* */ * n Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Iterable<Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) { n sum += element
 } n return sum
 } n/* */ * n Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Iterable<Long>.sum(): Int {
    var sum: Int = 0
    for (element in this) { n sum += element
 } n return sum
 } n/* */ * n Returns the sum of all elements in the collection.
MutableList<T>.fill(value: T): Unit { for (index in 0..lastIndex) { this[index] = value } }

/**
 * Fills the list with the provided [value].
 */
@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.fill(value: T): Unit {
    for (index in 0..lastIndex) {
        this[index] = value
    }
}

/**
 * Randomly shuffles elements in this list.
 */
@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)

/**
 * Sorts elements in the list in-place according to their natural sort order.
 */
public actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit { sortStable() }

/**
 * Sorts elements in the list in-place according to the order specified with [comparator].
 */
public actual fun <T> MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {
    sortStableWith(comparator)
}

private fun <T> MutableList<T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =
    if (isVarargs) { this } else { this.copyOf() }

@PublishedApi
internal actual fun checkIndexOverflow(index: Int): Int {
    if (index < 0) {
        throwIndexOverflow()
    }
    return index
}

@PublishedApi
internal actual fun checkCountOverflow(count: Int): Int {
    if (count < 0) {
        throwCountOverflow()
    }
    return count
}

/**
 * JS map and set implementations do not make use of capacities or load factors.
 */
@PublishedApi
internal actual fun mapCapacity(expectedSize: Int) = expectedSize

/**
 * Checks a collection builder function capacity argument.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@PublishedApi
internal fun checkBuilderCapacity(capacity: Int) {
    require(capacity >= 0) { "capacity must be non-negative." }
}
public fun <T> Iterator<T>.withIndex(): Iterator<IndexedValue<T>> = IndexingIterator(this)

public inline fun <T> Iterator<T>.forEach(operation: (T) -> Unit): Unit {
    for (element in this) operation(element)
}

class IndexingIterator<out T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {
    private var index = 0
    final override fun hasNext(): Boolean = iterator.hasNext()
    final override fun next(): IndexedValue<T> = IndexedValue(checkIndexOverflow(index++), iterator.next())
}

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("ComparisonsKt")

package kotlin.comparisons

import kotlin.random.*

fun <T : Comparable<T>> maxOf(a: T, b: T): T
    return if (comparator.compare(a, b) >= 0) a else b

fun <T : Comparable<T>> maxOf(a: T, b: T, comparator: Comparator<in T>): T {
    return maxOf(a, maxOf(b, c, comparator), comparator)
}

fun <T> maxOf(a: T, vararg other: T): T
    return if (comparator.compare(a, b) >= 0) a else b

fun <T> maxOf(a: T, vararg other: T): T
    return if (comparator.compare(a, b) >= 0) a else b
```kotlin
/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")
public expect fun maxOf(a: Long, vararg other: Long): Long

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")
public expect fun maxOf(a: Float, vararg other: Float): Float

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")
public expect fun maxOf(a: Double, vararg other: Double): Double

/**
 * Returns the greater of the given values according to the order specified by the given comparator.
 */
@SinceKotlin("1.4")
public expect fun maxOf(a: T, vararg other: T, comparator: Comparator<in T>): T

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")
public expect fun minOf(a: Byte, b: Byte): Byte

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")
public expect fun minOf(a: Short, b: Short): Short

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")
public expect fun minOf(a: Int, b: Int): Int

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")
public expect fun minOf(a: Long, b: Long): Long

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")
public expect fun minOf(a: Float, b: Float): Float

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")
public expect fun minOf(a: Double, b: Double): Double
```

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Float): Float\n  *\n  * Returns the smaller of the given values.\n  *\n  * If any value is 'NaN', returns 'NaN'.\n  *
  *@SinceKotlin("1.4")\n
public expect fun minOf(a: Double, vararg other: Double): Double\n  *\n  * Returns the smaller of the given values according to the order specified by the given [comparator].\n  *\n  * If there are multiple equal minimal values, returns the first of them.\n  *
  *@SinceKotlin("1.4")\n
public fun <T> minOf(a: T, vararg other: T, comparator: Comparator<in T>): T\n  {\n    var min = a\n    for (e in other if\n        comparator.compare(min, e) > 0) min = e\n    return min\n  }\n
@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt\")\n
package kotlin.collections\n
//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n
import kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed

/**\n * Returns a [List] containing all key-value pairs.\n *\n * val iterator = entries.iterator()\n * if (!iterator.hasNext()) return emptyList().\n *\n * if (!iterator.hasNext())\n * return ArrayListPair(K, V).\n *\n * result.add(first.toPair())\n * do {\n * result.add(iterator.next().toPair())\n * } while (iterator.hasNext())\n * return result.\n */\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n    if (size == 0)\n        return emptyList()\n    val iterator = entries.iterator()\n    if (!iterator.hasNext())\n        return listOf(first.toPair())\n    val result = ArrayList<Pair<K, V>>(size)\n
    result.add(first.toPair())\n    do {\n        result.add(iterator.next().toPair())\n    } while (iterator.hasNext())\n    return result
}

/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n *\n * @sample samples.collections.Maps.Transformations.flatMap\n */\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)
}

/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n *\n * @sample\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {\n    return flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Sequence<R>)(\n        transform)\n    C {\n        for (element in this) \n            val list = transform(element)\n            destination.addAll(list)\n    }\n}

/**\n * Returns a list containing the results of applying the given [transform] function being invoked on each entry of original map.\n *\n * @sample\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n    forEach {\n        element -> transform(element)?.let { destination.add(it) }\n    }\n    return destination
}

/**\n * Applies the given [transform] function to each entry of the original map\n * and appends only the non-null results to the given [destination].\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("mapNotNullable")\npublic fun <K, V, R> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(), transform)\n}

/**\n * Applies the given [transform] function to each entry in the original map\n * and appends only the non-null results to the given [destination].\n */\npublic fun <K, V, R> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n    return mapNotNullTo(transform)\n}

/**\n * @file:kotlin.jvm.JvmMultifileClass\n * @file:kotlin.jvm.JvmName("MapsKt")\n */
public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Returns `true` if all entries match the given [predicate].
 * @sample samples.collections.Collections.Aggregates.all
 */
public inline fun <K, V> Map<out K, V>.all(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {
    if (isEmpty()) return true
    for (item in this)
        return !predicate(item)
    return true
}

/**
 * Checks whether the map has at least one entry.
 * @sample samples.collections.Collections.Aggregates.any
 */
public fun <K, V> Map<out K, V>.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one entry matches the given [predicate].
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun <K, V> Map<out K, V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {
    if (isEmpty()) return false
    for (item in this)
        return predicate(item)
    return false
}

/**
 * Returns the number of entries matching the given [predicate].
 * @sample samples.collections.Collections.Aggregates.count
 */
public inline fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {
    return size
}

/**
 * Returns the number of entries matching the given [predicate].
 * @sample samples.collections.Collections.Aggregates.countOrNull
 */
public inline fun <K, V> Map<out K, V>.countOrNull(predicate: (Map.Entry<K, V>) -> Boolean): Int? {
    return entries.countOrNull(predicate)
}

/**
 * Performs the given [action] on each entry.
 * @sample samples.collections.Collections.Aggregates.forEach
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>) -> Unit): Unit {
    for (item in this)
        action(item)
}

@Deprecated("Use maxByOrNull instead.", ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@kotlin.internal.InlineOnly
    return entries.maxByOrNull(selector)
}

/**
 * Returns the largest value among all values produced by 
 * [selector] function\n * applied to each entry in the map.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * @throws NoSuchElementException if the map is empty.\n */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.maxOf(selector: (Map.Entry<K, V>) -> Double): Double {
    return entries.maxOf(selector)
}

/**
 * Returns the largest value among all values produced by 
 * [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n * @throws NoSuchElementException if the map is empty.\n */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {
    return entries.maxOfOrNull(selector)
}
`function` is `NaN`, the returned result is `NaN`.

*\@since kotlin\{(1.4)\}@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun \(K, V\) Map\<\out K, V\> \.maxOfOrNull(selector: (Map.Entry\(K, V\)\) -> Float): Float? {

    return entries.maxOfOrNull(selector)\(\)\n*\ Returns the largest value among all values produced by `selector` function applied to each entry in the map or `null` if there are no entries.

*\@since kotlin\{(1.4)\}@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun \(K, V, R\) Map\<\out K, V\> .maxOfOrNull(selector: \(\) -> R): R? {

    return entries.maxOfOrNull(selector)\(\)\n*\ Returns the largest value according to the provided `selector` function applied to each entry in the map.\n*\ *\ @throws NoSuchElementException if the map is empty.

*\@since kotlin\{(1.4)\}@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun \(K, V, R\) Map\<\out K, V\> .maxOfWith(comparator: Comparator\(in R\)\, selector: (Map.Entry\(K, V\)\) -> R): Map.Entry\(K, V\)? {

    return entries.maxOfWith(comparator, selector)\(\)\n*\ Returns the first entry having the largest value according to the provided `comparator` or `null` if there are no entries.\n
*\@since kotlin\{(1.4)\}@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun \(K, V, R\) Map\<\out K, V\> .minBy(selector: (Map.Entry\(K, V\)\) -> R): Map.Entry\(K, V\)? {

    return entries.minBy(selector)\(\)\n*\ Returns the smallest value among all values produced by `selector` function applied to each entry in the map or `null` if there are no entries.\n
*\@since kotlin\{(1.4)\}@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun \(K, V, R\) Map\<\out K, V\> .minByOrNull(selector: (Map.Entry\(K, V\)\) -> R): Map.Entry\(K, V\)? {

    return entries.minByOrNull(selector)\(\)\n*\ Returns the smallest value among all values produced by `selector` function applied to each entry in the map.\n*\ *\ @throws NoSuchElementException if the map is empty.\n
*\@since kotlin\{(1.4)\}@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun \(K, V\) Map\<\out K, V\> .minOf\(\)\n
    return entries.minOf\(\)\n*\ Returns the smallest value among all values produced by `selector` function applied to each entry in the map.\n*\ *\ @throws NoSuchElementException if the map is empty.

*\@since kotlin\{(1.4)\}@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun \(K, V\) Map\<\out K, V\> .minOf\(\)\n
    return entries.minOf\(\)\n*\ Returns the smallest value among all values produced by `selector` function applied to each entry in the map.\n*\ *\ @throws NoSuchElementException if the map is empty.
Returns the smallest value among all values produced by [selector] function applied to each entry in the map or `null` if there are no entries.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V, R : Comparable<R>> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> R): R {
    return entries.minOf(selector) ?: NaN
}
```

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each entry in the map.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V, R> Map<out K, V>.minOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {
    return entries.minOfWith(comparator, selector) ?: NaN
}
```

Returns the first entry having the smallest value according to the provided [comparator] or `null` if there are no entries.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
    return entries.minWithWithPredicate(comparator) ?: NaN
}
```

Returns the smallest value among all values produced by [selector] function applied to each entry in the map.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {
    return entries.minOfOrNull(selector) ?: NaN
}
```

Returns the smallest value among all values produced by [selector] function applied to each entry in the map.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {
    return entries.minOfOrNull(selector) ?: NaN
}
```

Returns the smallest value among all values produced by [selector] function applied to each entry in the map.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {
    return entries.minOfOrNull(selector) ?: NaN
}
```

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each entry in the map.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
    return entries.minOfWithOrNull(comparator, selector) ?: NaN
}
```

Returns the first entry having the smallest value according to the provided [comparator] or `null` if there are no entries.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.internal.InlineOnly)
public inline fun <K, V> Map<out K, V>.none(): Boolean {
    return isEmpty()
}
```

Returns `true` if no entries match the given [predicate].

```kotlin
@SinceKotlin("1.4")
public inline fun <K, V> Map<out K, V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {
    if (isEmpty()) return true
    for (element in this) if (predicate(element)) return false
    return true
}
```

Performs the given [action] on each entry and returns the map itself afterwards.

```kotlin
@SinceKotlin("1.1")
public inline fun <K, V> Map<out K, V>.onEach(action: (Map.Entry<K, V>) -> Unit): Unit {
    for (element in this) action(element)
}
```

Perform the given [action] on each entry, providing sequential index with the entry.

```kotlin
@SinceKotlin("1.4")
public fun <K, V> Map<out K, V>.onEachWithOrNull(comparator: Comparator<in Map.Entry<K, V>>, action: (Map.Entry<K, V>) -> Unit): Unit {
    for (element in this) action(element)
}
```

Performs the given [action] on each entry, providing sequential index with the entry.

```kotlin
@SinceKotlin("1.4")
public inline fun <K, V> Map<out K, V>.onEachWithWithPredicate(action: (Map.Entry<K, V>, index: Int) -> Unit): Unit {
    for (index in 0 until size) action(element, index)
}
```

Perform the given [action] on each entry, providing sequential index with the entry.

```kotlin
@SinceKotlin("1.4")
public inline fun <K, V> Map<out K, V>.onEachWithWithPredicateOrNull(action: (Map.Entry<K, V?, index: Int) -> Unit): Unit? {
    for (index in 0 until size) action(element, index)
}
```

Perform the given [action] on each entry, providing sequential index with the entry.

```kotlin
@SinceKotlin("1.4")
    for (index in 0 until size) action(element, index)
}
```

Perform the given [action] on each entry, providing sequential index with the entry.

```kotlin
@SinceKotlin("1.4")
public inline fun <K, V> Map<out K, V>.onEachWithWithPredicateNotNullOrNull(action: (Map.Entry<K, V, index: Int) -> Unit): Unit? {
    for (index in 0 until size) action(element, index)
}
```

Perform the given [action] on each entry, providing sequential index with the entry.

```kotlin
@SinceKotlin("1.4")
    for (index in 0 until size) action(element, index)
}
```

Perform the given [action] on each entry, providing sequential index with the entry.

```kotlin
@SinceKotlin("1.4")
public inline fun <K, V> Map<out K, V>.onEachWithWithPredicateNotNullOrNull(action: (Map.Entry<K, V, index: Int) -> Unit): Unit? {
    for (index in 0 until size) action(element, index)
}
```

Perform the given [action] on each entry, providing sequential index with the entry.
all elements except first \([n]\) elements.\n * The operation is _intermediate_ and _stateless_.\n * @throws IllegalArgumentException if \([n]\) is negative.\n * @sample samples.collections.Collections.Transformations.drop\n *\n */
public fun <T> Sequence<T>.drop(n: Int): Sequence<T> {
    return when {
        n == 0 -> this
        else -> DropSequence(this, n)
    }
}

/**
 * Returns a sequence containing only elements matching the given \([predicate]\).\n * The operation is _intermediate_ and _stateless_.\n * @sample samples.collections.Collections.Filtering.filter\n */
public fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {
    return FilteringSequence(this, true, predicate)\n}

/**
 * Returns a sequence containing only elements matching the given \([predicate]\).\n * The operation is _intermediate_ and _stateless_.\n * @sample samples.collections.Collections.Filtering.filterIndexed\n */
public fun <T> Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {
    return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), { it.value })\n}

/**
 * Returns a sequence containing only elements matching the given \([predicate]\).\n * The operation is _intermediate_ and _stateless_.\n * @sample samples.collections.Collections.Filtering.filterNot\n */
public fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {
    return FilteringSequence(this, false, predicate)\n}

/**
 * Returns a sequence containing only elements not matching the given \([predicate]\).\n * The operation is _intermediate_ and _stateless_.\n * @sample samples.collections.Collections.Filtering.filterNotTo\n */
public inline fun <T, C :MutableCollection<in T>> Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}

/**
 * Returns a sequence containing all elements not matching the given \([predicate]\).\n * The operation is _intermediate_ and _stateless_.\n * @sample samples.collections.Collections.Filtering.filterTo\n */
public inline fun <T, C :MutableCollection<in T>> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}

/**
 * Returns a sequence containing all elements that are instances of specified type parameter \(T\).\n * The operation is _intermediate_ and _stateless_.\n * @sample samples.collections.Collections.Filtering.filterIsInstance\n */
public inline fun <reified T> Sequence<*>.filterIsInstance(): Sequence<T> {
    @Suppress("UNCHECKED_CAST")
    return filter { it is T } as Sequence<T>\n}

/**
 * Appends all elements that are not `null` to the given \([destination]\).\n * The operation is _intermediate_ and _stateless_.\n * @sample samples.collections.Collections.Filtering.filterNotNull\n */
public inline fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {
    return filterNot { it == null } as Sequence<T>\n}

/**
 * Appends all elements matching the given \([predicate]\) to the given \([destination]\).\n * The operation is _terminal_.\n * @sample samples.collections.Collections.Filtering.filterTo\n */
public inline fun <T, C :MutableCollection<in T>> Sequence<T>.filterTo(destination: C): C {
    for (element in this) if (element != null) destination.add(element)\n    return destination\n}

/**
 * Returns a sequence containing elements matching the given \([predicate]\).\n * The operation is _terminal_.\n * @sample samples.collections.Collections.Filtering.filterNullTo\n */
public inline fun <T :Any> Sequence<T>.filterNullTo(): Sequence<T> {
    return filterNot { filterNotNull() }\n}

/**
 * Returns a sequence containing elements that are `null` to the given \([destination]\).\n * The operation is _terminal_.\n * @sample samples.collections.Collections.Filtering.filterNull\n */
public inline fun <T :Any> Sequence<T>.filterNull(): Sequence<T> {
    return filter { filterNotNull() }\n}

/**
 * Returns a sequence containing elements that are `null` to the given \([destination]\).\n * The operation is _terminal_.\n * @sample samples.collections.Collections.Filtering.filterNotNull\n */
public inline fun <T :Any> Sequence<T>.filterNotNull(): Sequence<T> {
    return filter { !filterNotNull() }\n}

/**
 * Returns a sequence containing all elements matching the given \([predicate]\).\n * The operation is _terminal_.\n * @sample samples.collections.Collections.Filtering.filterTo\n */
public inline fun <T, C :MutableCollection<in T>> Sequence<T>.filterTo(destination: C): C {
    for (element in this) if (element != null) destination.add(element)\n    return destination\n}

/**
 * Returns a sequence containing all elements not matching the given \([predicate]\).\n * The operation is _terminal_.\n * @sample samples.collections.Collections.Filtering.filterTo\n */
public inline fun <T, C :MutableCollection<in T>> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}
```kotlin
/**
 * Returns a sequence containing first \[n\] elements.
 *
 * The operation is _intermediate_ and _stateless_, \n *
 * @throws IllegalArgumentException if \[n\] is negative. \n *
 * @sample samples.collections.Collections.Transformations.take
 */
public fun <T> Sequence<T>.take(n: Int): Sequence<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return when {
        n == 0 -> emptySequence()
        this is DropTakeSequence -> this.take(n)
        else -> TakeSequence(this, n)
    }
}

/**
 * Returns a sequence containing first elements satisfying the given \[predicate\].
 *
 * The operation is _intermediate_ and _stateless_, \n *
 * @sample samples.collections.Collections.Transformations.take
 */
public fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {
    return TakeWhileSequence(this, predicate)
}

/**
 * Returns a sequence that yields elements of this sequence sorted according to their natural sort order. \n *
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. \n *
 * The operation is _intermediate_ and _stateful_, \n *
 * @sample sample.collections.Collections.Transformations.sorted
 */
public fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {
    return object : Sequence<T> {
        override fun iterator(): Iterator<T> {
            val sortedList = this@sorted.toMutableList()
            sortedList.sort()
            return sortedList.iterator()
        }
    }
}

/**
 * Returns a sequence that yields elements of this sequence sorted according to the specified \[comparator\].
 *
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. \n *
 * The operation is _intermediate_ and _stateful_, \n *
 * @sample sample.collections.Collections.Transformations.sortedWith
 */
public fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {
    return object : Sequence<T> {
        override fun iterator(): Iterator<T> {
            val sortedList = this@sortedWith.toMutableList()
            sortedList.sortWith(comparator)
            return sortedList.iterator()
        }
    }
}
```

---

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same key returned by [keySelector] the last one gets added to the map.\n *\n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Transformations.associateByWithValueTransform\n *\n * @public inline fun <T, K, V> Sequence<T>.associateByWith(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n * return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)\n *\n * @sample samples.collections.Collections.Transformations.associateByTo\n *\n * @public inline fun <T, K, V> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n * for (element in this) {\n * destination.put(keySelector(element), element)\n * }\n *\n * @sample samples.collections.Collections.Transformations.associateTo\n *\n * @SinceKotlin("1.3") inline fun <T, K, V> Sequence<T>.associateTo(destination: M, valueSelector: (K) -> V): M {\n * for (item in this) {\n * destination.add(item)\n * }\n *\n * @sample samples.collections.Collections.Transformations.associateToWith\n *\n * @SinceKotlin("1.3") inline fun <T, K, V> Sequence<T>.associateToWith(valueSelector: (K) -> V): Map<K, V> {\n * val result = LinkedHashMap<K, V>\n *\n * @sample samples.collections.Collections.Transformations.associateWith\n *\n * @SinceKotlin("1.3") inline fun <T, K> Sequence<T>.toCollection(): List<T> {\n *\n * @sample samples.collections.Collections.Transformations.associateWithTo\n *\n * @SinceKotlin("1.3") inline fun <T, K> Sequence<T>.toHashSet(): HashSet<T> {\n *\n * @sample samples.collections.Collections.Transformations.associateWithToWithValueTransform\n *\n * @SinceKotlin("1.3") inline fun <T, K, V> Sequence<T>.toList(): List<T> {\n *\n * @sample samples.collections.Collections.Transformations.associateWithToWithValueTransform
toCollection(LinkedHashSet<T>).optimizeReadOnlySet().

public fun <T, R>
    Sequence<T>.flatMap(transform: (T) -> Iterable<R>): Sequence<R> {
    return FlatteningSequence(this,
        transform, Iterable<R>::iterator)
}

/**
 * Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.\n * The operation is _intermediate_ and _stateless_.\n * @sample samples.collections.Collections.Transformations.flatMap
 */
public fun <T, R>
    Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {
    return FlatteningSequence(this,
        transform, Sequence<R>::iterator)
}

/**
 * Returns a single sequence of all elements yielded from results of [transform] function being invoked on each element and its index in the original sequence.\n * The operation is _intermediate_ and _stateless_.\n * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
public fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element and its index in the original sequence, to the given
 * destination.\n * The operation is _terminal_.\n */
public inline fun <T, R : Any> Sequence<T>.flatMapIndexedTo(destination: MutableList<R>, transform: (index: Int, T) -> R): MutableList<R> {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original sequence, to the given 
 * destination.\n * The operation is _terminal_.\n */
public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> R): C
TransformingIndexedSequence(this, transform).filterNotNull().\n\nApplies the given [transform] function to each element and its index in the original sequence\n* and appends only the non-null results to the given [destination].\n* @param [transform] function that takes the index of an element and the element itself\n* and returns the result of the transform applied to the element.\n* @param [destination] the sequence to store the non-null results in.\n* The operation is _terminal_.\n
public inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (Int, T) -> R?): C {\n    forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n    return destination\n}

Returns a sequence containing only the non-null results of applying the given [transform] function\n* to each element in the original sequence.\n* @return a sequence containing only the non-null results of applying the given [transform] function\n* to each element in the original sequence.\n* @param [transform] function that takes the index of an element and the element itself\n* and returns the result of the transform applied to the element.\n* The operation is _terminal_.\n
public inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R?): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(checkIndexOverflow(index++), item))\n    return destination\n}

Returns a sequence containing only distinct elements from the given sequence.\n* @param [selector] function that returns a unique key for each element in the given sequence.\n* The operation is _terminal_.\n
public fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n    return DistinctSequence(this, selector)\n}

Returns a new [MutableSet] containing all distinct elements from the given sequence.\n* @param [selector] function that returns a unique key for each element in the given sequence.\n* The operation is _terminal_.\n
public fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {\n    val set = LinkedHashSet<T>(this)\n    for (item in this)\n        set.add(item)\n    return set\n}

Returns `true` if all elements match the given [predicate].\n* The operation is _terminal_.\n
public inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {\n    for (item in this)\n        if (!predicate(item)) return false\n    return true\n}

Returns `true` if at least one element matches the given [predicate].\n* The operation is _terminal_.\n
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samples.collections.Collections.Aggregates.anyWithPredicate\n*/unpublic inline fun <T>
Sequence<T>.any(predicate: (T) -> Boolean): Boolean {
    for (element in this)
        if (predicate(element)) return true
    return false\n}*/

return count
}*/

public inline fun <T>
Sequence<T>.any(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns the number of elements in this sequence.
 */
public fun <T> Sequence<T>.count(): Int {
    var count = 0
    for (element in this)
        count++
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
public inline fun <T> Sequence<T>.count(predicate: (T) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) count++
    return count
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right.
 * The operation is _terminal_.
 */
public inline fun <T, R>
Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] with its index in the original sequence.
 */
public inline fun <T, R>
Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index, accumulator, element)
    return accumulator
}

/**
 * Performs the given [action] on each element.
 */
public inline fun <T> Sequence<T>.forEach(action: (T) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
public inline fun <T>
Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public
fun Sequence<Double>.max(): Double? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public
fun Sequence<Float>.max(): Float? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public
fun <T : Comparable<T>> Sequence<T>.max(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var maxElem = iterator.next()
    if (!iterator.hasNext()) return maxElem
    var maxValue = selector(maxElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    } while (iterator.hasNext())
    return maxElem
}

/**
 * Performs the given [operation] function that takes current accumulator value and an element, and calculates
 * the next accumulator value.
 */
public fun <T> Sequence<T>.maxOf(selector: (T) -> Double): Double {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxElem = iterator.next()
    var maxValue = selector(maxElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    } while (iterator.hasNext())
    return maxElem
}
maxValue = selector(iterator.next()) \n while (iterator.hasNext()) { \n \n v = selector(iterator.next()) \n maxValue = maxOf(maxValue, v) \n return maxValue \n }\n\n/**
 * Returns the largest value among all values produced by [selector] function \n * applied to each element in the sequence. \n * @throws NoSuchElementException if the sequence is empty. \n * The operation is _terminal_. \n */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.experimental.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) -> Float): Float { \n val iterator = iterator() \n \n while (iterator.hasNext()) { \n v = selector(iterator.next()) \n \n maxValue = maxOf(maxValue, v) \n \n return maxValue \n }\nreturn maxValue \n }

/**
 * Returns the largest value among all values produced by [selector] function \n * applied to each element in the sequence. \n * @throws NoSuchElementException if the sequence is empty. \n * The operation is _terminal_. \n */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.experimental.InlineOnly\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxOf(selector: (T) -> R): R { \n val iterator = iterator() \n \n while (iterator.hasNext()) { \n v = selector(iterator.next()) \n \n if (maxValue < v) { \n \n maxValue = v \n \n }\nreturn maxValue \n }\nreturn maxValue \n }

/**
 * Returns the largest value among all values produced by [selector] function \n * applied to each element in the sequence or `null` if there are no elements. \n * @throws NoSuchElementException if the sequence is empty. \n * The operation is _terminal_. \n */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.experimental.InlineOnly\npublic inline fun <T> Sequence<T>.maxOfOrNull(selector: (T) -> Double): Double? { \n val iterator = iterator() \n \n while (iterator.hasNext()) { \n v = selector(iterator.next()) \n \n maxOf(maxValue, v) \n \n return maxOfOrNull \n }\nreturn maxOfOrNull \n }

/**
 * Returns the largest value among all values produced by [selector] function \n * applied to each element in the sequence or `null` if there are no elements. \n * @throws NoSuchElementException if the sequence is empty. \n * The operation is _terminal_. \n */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.experimental.InlineOnly\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxOfOrNull(selector: (T) -> R): R? { \n val iterator = iterator() \n \n while (iterator.hasNext()) { \n v = selector(iterator.next()) \n \n if (comparator.compare(maxValue, v) < 0) { \n \n maxValue = v \n \n }\nreturn maxValue \n }\nreturn maxValue \n }

/**
 * Returns the largest value according to the provided [comparator] \n * among all values produced by [selector] function \n * applied to each element in the sequence. \n * @throws NoSuchElementException if the sequence is empty. \n * The operation is _terminal_. \n */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.experimental.InlineOnly\npublic inline fun <T> Sequence<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R { \n val iterator = iterator() \n \n while (iterator.hasNext()) { \n v = selector(iterator.next()) \n \n if (comparator.compare(maxValue, v) < 0) { \n \n maxValue = v \n \n }\nreturn maxValue \n }\nreturn maxValue \n }
```kotlin
@package
@file

/**
 * Returns the largest element or `null` if there are no elements.
 * * If any of elements is `NaN` returns `NaN`.
 * *
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
    Sequence<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    var max = selector(iterator.next())
    while (iterator.hasNext()) {
        if (comparator.compare(max, iterator.next()) < 0) max = iterator.next()
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * *
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
public fun Sequence<Double>.maxOrNull(): Double? {
    var max = iterator.next()
    while (iterator.hasNext()) {
        max = maxOf(max, iterator.next())
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * *
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
public fun <T : Comparable<T>> Sequence<T>.maxOrNull(): T? {
    var max = iterator.next()
    while (iterator.hasNext()) {
        if (max < iterator.next()) max = iterator.next()
    }
    return max
}

@Deprecated("Use maxWithOrNull instead.",
ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? {
    return maxWithOrNull(comparator)
}

/**
 * Returns the smallest value among all values produced by 
 * function applied to each element in the sequence or `null` if there are no elements.
 * *
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
    Sequence<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    var min = selector(iterator.next())
    while (iterator.hasNext()) {
        if (comparator.compare(min, iterator.next()) > 0) min = iterator.next()
    }
    return min
}

/**
 * Returns the smallest value among all values produced by 
 * function applied to each element in the sequence or `null` if there are no elements.
 * *
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * *
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
public fun Sequence<Double>.minOrNull(): Double? {
    var min = iterator.next()
    while (iterator.hasNext()) {
        min = minOf(min, iterator.next())
    }
    return min
}

/**
 * Returns the smallest value among all values produced by 
 * function applied to each element in the sequence or `null` if there are no elements.
 * *
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * *
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
public fun <T : Comparable<T>> Sequence<T>.minOrNull(): T? {
    var min = iterator.next()
    while (iterator.hasNext()) {
        if (min > iterator.next()) min = iterator.next()
    }
    return min
}

@Deprecated("Use minByOrNull instead.",
ReplaceWith("minByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T? {
    var min = selector(iterator.next())
    while (iterator.hasNext()) {
        if (min > iterator.next()) min = iterator.next()
    }
    return min
}
```

ByLambdaReturnType

public inline fun <T> Sequence<T>.minOf(selector: (T) -> Double): Double {
    var iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the sequence.
 * @throws NoSuchElementException if the sequence is empty.
 * The operation is _terminal_.
 */

public inline fun <T> Sequence<T>.minOfOrNull(selector: (T) -> Double): Double? {
    var iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the sequence or `null` if there are no elements.
 * @throws NoSuchElementException if the sequence is empty.
 * The operation is _terminal_.
 */

public inline fun <T, R : Comparable<R>> Sequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    var iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the sequence or `null` if there are no elements.
 * @throws NoSuchElementException if the sequence is empty.
 * The operation is _terminal_.
 */

public inline fun <T, R : Comparable<R>> Sequence<T>.minOfOrNull(selector: (T) -> R): R? {
    var iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}
Sequence<T>.reduce(operation: (acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * The operation is _terminal_.
 * 
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself.
 * and calculates the next accumulator value.
 * 
 * The operation is _terminal_.
 * 
 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun <S, T : S> Sequence<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return null
    var index = 1
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
    }
    return accumulator
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right
 * to each element. The operation is _intermediate_ and _stateless_.
 * 
 * @param [operation] function that takes an element, current accumulator value and the next accumulator value.
 * Note that `acc` value passed to [operation] function should not be mutated.
 * otherwise it would affect the previous value in resulting sequence.
 * 
 * The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.
 * 
 * @sample samples.collections.Collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <T, R> Sequence<T>.runningFold(initial: R, operation: (acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var accumulator = initial
        for (element in this@runningFold) {
            accumulator = operation(accumulator, element)
            yield(accumulator)
        }
    }
}
```kotlin
<br>
<br>@sample samples.collections.Collections.Aggregates.runningFold<kotlin>un */
@SinceKotlin("1.4")<kotlin>un public fun
<T, R> Sequence<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {<kotlin>
    return sequence {
        yield(initial)
        var index = 0
        var accumulator = initial
        for (element in this@runningFoldIndexed) {
            accumulator = operation(checkIndexOverflow(index++), accumulator, element)
            yield(accumulator)
            index++
        }
    }
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with the first element of this sequence.<kotlin>
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.<kotlin>
 * <br>
 * @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.<kotlin>
 * The operation is _intermediate_ and _stateless_.
 * @sample samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)<kotlin>un public fun <S, T : S>
Sequence<T>.runningReduce(operation: (acc: S, T) -> S): Sequence<S> {<kotlin>
    return sequence {
        val iterator = iterator()<kotlin>
        if (iterator.hasNext()) {
            var accumulator: S = iterator.next()<kotlin>
            yield(accumulator)<kotlin>
            while (iterator.hasNext()) {
                accumulator = operation(accumulator, iterator.next())
                yield(accumulator)<kotlin>
            }
        }
    }
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right
 * to each element, its index in the original sequence and current accumulator value that starts with the first element of this sequence.<kotlin>
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.<kotlin>
 * <br>
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.<kotlin>
 * The operation is _intermediate_ and _stateless_.
 * @sample samples.collections.Collections.Aggregates.runningFoldIndexed
 */
@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)<kotlin>un public fun <S, T : S>
Sequence<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {<kotlin>
    return sequence {
        val iterator = iterator()<kotlin>
        if (iterator.hasNext()) {
            var accumulator: S = iterator.next()<kotlin>
            yield(accumulator)<kotlin>
            var index = 1
            while (iterator.hasNext()) {
                accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
                yield(accumulator)<kotlin>
                index++
            }
        }
    }
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with `[initial]` value.<kotlin>
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.<kotlin>
 * The `[initial]` value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.<kotlin>
 * <br>
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.<kotlin>
 * The operation is _intermediate_ and _stateless_.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)<kotlin>un public fun <T, R>
Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {<kotlin>
    return runningFold(initial, operation)<kotlin>
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right
 * to each element, its index in the original sequence and current accumulator value that starts with the first element of this sequence.<kotlin>
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.<kotlin>
 * The `[initial]` value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.<kotlin>
 * <br>
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.<kotlin>
 * The operation is _intermediate_ and _stateless_.
 * @sample samples.collections.Collections.Aggregates.scanIndexed
 */
@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)<kotlin>un public fun <T, R>
Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {<kotlin>
    return runningFoldIndexed(initial, operation)<kotlin>@Deprecated("Use runningReduce instead.",
    ReplaceWith("runningReduce(operation)"), level =
```
DeprecationLevel.ERROR)@SinceKotlin("1.3")@ExperimentalStdlibApi

public <S, T : S> Sequence<T>.scanReduce(operation: (acc: S, T) -> S): Sequence<S> { return runningReduce(operation) }

@SinceKotlin("1.3")@ExperimentalStdlibApi

public <S, T : S> Sequence<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> { return runningReduceIndexed(operation) }

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the sequence.
 * The operation is _terminal_ and _public inline fun <T>
 * Returns the sum of all values produced by [selector] function applied to each element in the sequence.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.jvm.JvmName("sumOfDouble")
public inline fun <T> Sequence<T>.sumOf(selector: (T) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the sequence.
 * The operation is _terminal_ and _public inline fun <T>
 * Returns the sum of all values produced by [selector] function applied to each element in the sequence.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.jvm.JvmName("sumOfInt")
public inline fun <T> Sequence<T>.sumOf(selector: (T) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the sequence.
 * The operation is _terminal_ and _public inline fun <T>
 * Returns the sum of all values produced by [selector] function applied to each element in the sequence.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.jvm.JvmName("sumOfLong")
public inline fun <T> Sequence<T>.sumOf(selector: (T) -> Long): Long {
    var sum: Long = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.
 * The operation is _intermediate_ and _stateless_.
 */
@SinceKotlin("1.2")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.jvm.JvmName("chunked")
public inline fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {
Splits this sequence into several lists each not exceeding the given \[size\] and applies the given \[transform\] function to each. \n
Example:
```kotlin
val numbers = 1..10
val transformed = numbers.chunked(size = 3) { it.sum() }
```

### Sequence::chunked(size: Int, transform: (List<T>) -> R): Sequence<R>

Splits this sequence into several lists each not exceeding the given \[size\] and applies the \[transform\] function to each.

- **Parameters**
  - \[size\]: the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.
  - \[transform\]: The operation is _intermediate_ and _stateful_.

### Sequence::minus(element: T): Sequence<T>

Returns a sequence containing all elements of original sequence except the elements contained in the given \[elements\] array.

Example:
```kotlin
val original = 1..10
val minus = original.minus(5)
```

### Sequence::minus(elements: Array<out T>): Sequence<T>

Returns a sequence containing all elements of original sequence except the elements contained in the given \[elements\] collection.

Example:
```kotlin
val original = 1..10
val minus = original.minus(arrayOf(5, 8))
```

### Sequence::minus(elements: Sequence<T>): Sequence<T>

Returns a sequence containing all elements of original sequence except the elements contained in the given \[elements\] sequence.

Example:
```kotlin
val original = 1..10
val minus = original.minus(sequenceOf(5, 8))
```

### Inline operator

- `minusElement(element: T): Sequence<T>`
- `partition(predicate: (T) -> Boolean): Sequence<Pair<T, T>>`
Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] array.
 * Note that the source sequence and the array being added are iterated only when an `iterator` is requested from it
 * The operation is _intermediate_ and _stateless_.
 */
public operator fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T> {
    return sequenceOf(this, sequenceOf(elements)).flatten()
}

/**
 * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] collection.
 * Note that the source sequence and the collection being added are iterated only when an `iterator` is requested from it
 * The operation is _intermediate_ and _stateless_.
 */
public operator fun <T> Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {
    return sequenceOf(this, elements.asSequence()).flatten()
}

/**
 * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] sequence.
 * Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested from it
 * The operation is _intermediate_ and _stateless_.
 */
public operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {
    return sequenceOf(this, elements).flatten()
}

/**
 * Returns a sequence containing all elements of original sequence and then all elements of the given [elements].
 * Note that the source sequence and the collection being added are iterated only when an `iterator` is requested from it
 * The operation is _intermediate_ and _stateless_.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {
    return plus(element)
}

/**
 * Returns a sequence of snapshots of the window of the given [size]
 * sliding along this sequence with the given [step], where each
 * snapshot is a list.
 * Several last lists may have less elements than the given [size].
 * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.
 * @param size the number of elements to take in each window
 * @param step the number of elements to move the window forward by on each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any,
 * by default `false` which means partial windows won't be preserved
 * @param sample control the selection of the window size
 * @since 1.2
 */
@SinceKotlin("1.2")
    return windowedSequence(size, step, partialWindows, reuseBuffer = false)
}

/**
 * Returns a sequence of results of applying the given [transform] function to each list
 * representing a view over the window of the given [size] sliding along this sequence with the given [step],
 * by default `false` which means partial windows won't be preserved
 * @param transform function to apply
 * @param sample control the selection of the window size
 * @param partialWindows controls whether or not to keep partial windows in the end if any,
 * by default `false` which means partial windows won't be preserved
 * @since 1.2
 */
@SinceKotlin("1.2")
public fun <T, R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): Sequence<R> {
    return windowedSequence(size, step, partialWindows, reuseBuffer = false).map(transform)
}

/**
 * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index.
 * The resulting sequence ends as soon as the shortest input sequence ends.
 * @param other sequence with the same index
 */
public fun <T> Sequence<T>.zip(other: Sequence<T>): Sequence<Pair<T, T>> {
Sequence<R>): Sequence<Pair<T, R>> {
    return MergingSequence(this, other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same
 * index
 * * The operation is _intermediate_ and _stateless_.
 * @sample samples.collections.Sequences.Transformations.zipWithTransform\n */
public fun <T, R, V> Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {
    return MergingSequence(this, other, transform)
}

/**
 * Returns a sequence of pairs of each two adjacent elements in
 * this sequence.
 * * The returned sequence is empty if this sequence contains less than two elements.
 * * The operation is _intermediate_ and _stateless_.
 * @sample samples.collections.Transformations.zipWithNext\n */
public fun <T, R> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {
    return zipWithNext { a, b -> a to b }
}

/**
 * Returns a sequence containing the results of applying the given [transform] function
 * to an each pair of two adjacent elements in this sequence.
 * * The returned sequence is empty if this sequence contains less than two elements.
 * * The operation is _intermediate_ and _stateless_.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDelta\n */
@SinceKotlin("1.2")
public fun <T, R> Sequence<T>.zipWithNextToFindDelta(transform: (a: T, b: T) -> R): Sequence<R> {
    return sequence result@{
        val iterator = iterator()
        if (!iterator.hasNext()) return@result
        var current = iterator.next()
        while (iterator.hasNext()) {
            val next = iterator.next()
            yield(transform(current, next))
            current = next
        }
    }
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix]
 * if supplied.
 * * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
 * elements will be appended, followed by the [truncated] string (which defaults to "..."").
 * * The operation is _terminal_.
 * @sample samples.collections.Collections.Transformations.joinToString\n */
public fun <T> Sequence<T>.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix]
 * if supplied.
 * * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
 * elements will be appended, followed by the [truncated] string (which defaults to "..."").
 * * The operation is _terminal_.
 * @sample samples.collections.Collections.Transformations.joinTo\n */
public fun <T> Sequence<T>.joinTo(buffer: Appendable, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): Appendable

    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            buffer.appendElement(element, transform)
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Returns this sequence as
 * a 
 * @sample
 * */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.asSequence(): Sequence<T> { return this
}

/**
 * Returns an average value of elements in the sequence.
 * * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Sequence<Byte>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfShort")
public fun Sequence<Short>.average(): Double {
    var sum:
    Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Sequence<Int>.average(): Double {
    var sum:
    Int = 0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfLong")
public fun Sequence<Long>.average(): Double {
    var sum:
    Long = 0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Sequence<Float>.average(): Double {
    var sum:
    Float = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Sequence<Double>.average(): Double {
    var sum:
    Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
@kotlin.jvm.JvmName("averageOfInt")
public fun Sequence<Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 */
@kotlin.jvm.JvmName("averageOfLong")
public fun Sequence<Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Sequence<Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Sequence<Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the sequence.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Sequence<Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Sequence<Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Sequence<Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Sequence<Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Sequence<Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Sequence<Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")

package kotlin.collections

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
// Serializes
// unimport kotlin.collections.contains
// unimport kotlin.collections.reversed
// unimport kotlin.collections.contains
// The returned set preserves the element iteration order of the original set.
// The returned set preserves the element iteration order of the original set.
// The returned set preserves the element iteration order of the original set.
// The returned set preserves the element iteration order of the original set.
// The returned set preserves the element iteration order of the original set.
// The returned set preserves the element iteration order of the original set.
// The returned set preserves the element iteration order of the original set.
// The returned set preserves the element iteration order of the original set.
// The returned set preserves the element iteration order of the original set.
correct and stable implementation of `hashCode()` that doesn't change between successive invocations. 
*/
public
operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {
    val other = elements.convertToSetForSetOperationWith(this)
    return this.filterNotTo(LinkedHashSet<T>()) { it in other } 
}

/**
 * Returns a set containing all elements of the original set except the given [elements] sequence.
 * The returned set preserves the element iteration order of the original set.
 * */
public operator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size))
    result.addAll(this)
    result.addAll(elements)
    return result
}

/**
 * Returns a set containing all elements of the original set except the given [element].
 * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.
 * */
@kotlin.internal.InlineOnly
public inline fun <T> Set<T>.plus(element: T): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size + 1))
    result.addAll(this)
    result.add(element)
    return result
}

/**
 * Returns a set containing all elements of the original set and the given [elements] array,
 * which aren't already in this set.
 * */
public operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size + elements.size))
    result.addAll(this)
    result.addAll(elements)
    return result
}

/**
 * Returns a set containing all elements of the original set and the given [elements] collection,
 * which aren't already in this set.
 * */
public operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(collectionSizeOrNull()?.let { this.size + it } ?: this.size * 2))
    result.addAll(this)
    result.addAll(elements)
    return result
}

/**
 * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.
 * */
@kotlin.internal.InlineOnly
public inline fun <T> Set<T>.plusElement(element: T): Set<T> {
    return plus(element)
}

"/
*/
/*
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

package kotlin

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt library
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import kotlin.random.*

/**
 * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.
 * */
public expect fun CharSequence.elementAt(index: Int): Char

/**
 * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.
 * */
@kotlin.internal.InlineOnly
public inline fun CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.
 * */
@kotlin.internal.InlineOnly
public inline fun CharSequence.elementAtOrNull(index: Int): Char? {
    return this.getOrNull(index)
}

/**
 * Returns the first character matching the given [predicate], or `null` if no such character was found.
 * */
@kotlin.internal.InlineOnly
public inline fun CharSequence.elementAtOrNothing(index: Int): Char? {
    return this.getOrNull(index)
}

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samples.collections.Collections.Elements.find { predicate: (Char) -> Boolean }:
Char? { 
    return firstOrNull(predicate)
}  

* Returns the last character matching the given [predicate], or `null` if no such character was found.

samples.collections.Collections.Elements.findLast { predicate: (Char) -> Boolean }:
Char? { 
    return lastOrNull(predicate)
}  

* Returns first character.

@kotlin.internal.InlineOnly
public inline fun 
CharSequence.find { predicate: (Char) -> Boolean }: Char? { 
    return firstOrNull(predicate)
}

* Returns the last character matching the given [predicate], or `null` if the char sequence is empty.

@kotlin.internal.InlineOnly
public inline fun 
CharSequence.findLast { predicate: (Char) -> Boolean }: Char? { 
    return lastOrNull(predicate)
}

* Returns the last character, or `null` if the char sequence is empty.

@kotlin.internal.InlineOnly
public fun 
CharSequence.first(): Char { 
    if (isEmpty())
        throw NoSuchElementException("Char sequence is empty.")
    return this[0]
}

* Returns first character.

@kotlin.internal.InlineOnly
public inline fun 
CharSequence.first { predicate: (Char) -> Boolean }: Char { 
    for (index in indices)
        if (predicate(this[index]))
            return this[index]
    throw NoSuchElementException("Char sequence contains no character matching the predicate.")
}

* Returns first character.

@kotlin.internal.InlineOnly
public fun 
CharSequence.firstOrNull(): Char? { 
    return if (isEmpty()) null else this[0]
}

* Returns first character.

@kotlin.internal.InlineOnly
public inline fun 
CharSequence.firstOrNull { predicate: (Char) -> Boolean }: Char? { 
    for (index in indices)
        if (predicate(this[index]))
            return this[index]
    return null
}

* Returns first character.

@kotlin.internal.InlineOnly
public fun 
CharSequence.indexOfFirst { predicate: (Char) -> Boolean }: Int { 
    for (index in indices)
        if (predicate(this[index]))
            return index
    return -1
}

* Returns index of the first character matching the given [predicate], or -1 if the char sequence does not contain such character.

@kotlin.internal.InlineOnly
public inline fun 
CharSequence.indexOfFirst { predicate: (Char) -> Boolean }: Int { 
    for (index in indices)
        if (predicate(this[index]))
            return index
    return -1
}

* Returns index of the last character matching the given [predicate], or -1 if the char sequence does not contain such character.

@kotlin.internal.InlineOnly
public fun 
CharSequence.indexOfLast { predicate: (Char) -> Boolean }: Int { 
    for (index in indices.reversed())
        if (predicate(this[index]))
            return index
    return -1
}

* Returns index of the last character matching the given [predicate], or -1 if the char sequence does not contain such character.

@kotlin.internal.InlineOnly
public fun 
CharSequence.lastIndexOf { predicate: (Char) -> Boolean }: Int { 
    for (index in indices.reversed())
        if (predicate(this[index]))
            return index
    return -1
}

* Returns index of the last character matching the given [predicate], or -1 if the char sequence does not contain such character.

@kotlin.internal.InlineOnly
public fun 
CharSequence.last(): Char { 
    if (isEmpty())
        throw NoSuchElementException("Char sequence is empty.")
    return this[lastIndex]
}

* Returns last character.

@kotlin.internal.InlineOnly
public inline fun 
CharSequence.last { predicate: (Char) -> Boolean }: Char { 
    for (index in indices.reversed())
        if (predicate(this[index]))
            return this[index]
    throw NoSuchElementException("Char sequence contains no character matching the predicate.")
}

* Returns last character.

@kotlin.internal.InlineOnly
public fun 
CharSequence.lastOrNull(): Char? { 
    return if (isEmpty()) null else this[lastIndex]
}

* Returns last character.

@kotlin.internal.InlineOnly
public inline fun 
CharSequence.lastOrNull { predicate: (Char) -> Boolean }: Char? { 
    for (index in indices.reversed())
        if (predicate(this[index]))
            return this[index]
    return null
}

* Returns last character.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun 
CharSequence.random(): Char { 
    return random(Random)
}

* Returns a random character from this char sequence.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun 
CharSequence.random { random: Random }: Char { 
    if (isEmpty())
        throw NoSuchElementException("Char sequence is empty.")
    return get(random.nextInt(length))
}

* Returns a random character from this char sequence using the specified source of randomness.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun 
CharSequence.randomOrNull(): Char? { 
    return randomOrNull(Random)
}

* Returns a random character from this char sequence if this char sequence is empty.

@SinceKotlin("1.3")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun 
CharSequence.randomOrNull { random: Random }: Char? { 
    return randomOrNull(Random)
}

* Returns a random character from this char sequence if this char sequence is empty.
random character from this char sequence using the specified source of randomness, or `null` if this char sequence is empty.\n */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun CharSequence.randomOrNull(random: Random): Char? {
    if (isEmpty())
        return null
    return get(random.nextInt(length))
}

/**
 * Returns the single character, or throws an exception if the char sequence is empty or has more than one character.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun CharSequence.single(): Char {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (element == SINGLE_CHARACTER) {
            if (found) throw
IllegalArgumentException("Char sequence contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Char sequence contains no matching character.")
    return single
}

/**
 * Returns the single character matching the given [predicate], or throws exception if there is no or more than one matching character.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun CharSequence.single(predicate: Char -> Boolean): Char {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
IllegalArgumentException("Char sequence contains more than one matching character.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Char sequence contains no character matching the predicate.")
    return single
}

/**
 * Returns a subsequence of this char sequence with the first [n] characters removed.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.text.Strings.drop
 */
public fun CharSequence.drop(n: Int): CharSequence {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return subSequence(n.coerceAtMost(length), length)
}

/**
 * Returns a string with the first [n] characters removed.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.text.Strings.drop
 */
public fun String.drop(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return substring(n.coerceAtMost(length))
}

/**
 * Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].
 * @sample samples.text.Strings.drop
 */
public inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
}

/**
 * Returns a string containing all characters except last characters that satisfy the given [predicate].
 * @sample samples.text.Strings.drop
 */
public inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {
    for (index in this.indices)
        if (!predicate(this[index]))
            return substring(index)
    return ""
}

/**
 * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].
 * @sample samples.text.Strings.filter
 */
public inline fun
CharSequence.filter(predicate: (Char) -> Boolean): CharSequence
| \n| return filterTo(StringBuilder(), predicate)\n| \n| * Returns a string containing only those characters from the original string that match the given [predicate].\n| \n| * @sample samples.text.Strings.filter\n| \n| *\n| public inline fun String.filter(predicate: (Char) -> Boolean): String
| \n| return filterTo(StringBuilder(), predicate).toString()\n| \n| * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n| \n| * @param [predicate] function that takes the index of a character and the character itself\n| \n| * and returns the result of predicate evaluation on the character.\n| \n| * @sample samples.collections.Collections.Filtering.filter\n| \n| *\n| CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence
| \n| return filterIndexedTo(StringBuilder(), predicate)\n| \n| * Returns a string containing only those characters from the original string that match the given [predicate].\n| \n| * @param [predicate] function that takes the index of a character and the character itself\n| \n| * and returns the result of predicate evaluation on the character.\n| \n| * @sample samples.collections.Collections.Filtering.filterIndexed\n| \n| *\n| CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence
| \n| return filterNotTo(StringBuilder(), predicate)\n| \n| * Returns a string containing only those characters from the original string that do not match the given [predicate].\n| \n| * @sample samples.text.Strings.filterNot\n| \n| *\n| String.filterNot(predicate: (Char) -> Boolean): String
| \n| return filterNotTo(StringBuilder(), predicate).toString()\n| \n| * Returns a string containing only those characters from the original string that do not match the given [predicate].\n| \n| * @sample samples.collections.Collections.Filtering.filterNot\n| \n| *\n| CharSequence.slice(indices: IntRange): CharSequence
| \n| return subSequence(indices)\n| \n| * Returns a char sequence containing characters of the original string at the specified range of [indices].\n| \n| *\n| String.slice(indices: IntRange): String
| \n| return substring(indices)\n| \n| * Returns a string containing characters of the original string at the specified range of [indices].\n| \n| *\n| CharSequence.slice(indices: Iterable<Int>): CharSequence
| \n| return StringBuilder().append(element for (index, element) in indexElement)\n| \n| * Returns a char sequence containing characters of the original char sequence at specified [indices].\n| \n| *\n| CharSequence.take(n: Int): CharSequence
| \n| return subSequence(0, n)\n| \n| * Returns a char sequence containing the first [n] characters from the original char sequence, or the entire char sequence if this char sequence is shorter.\n| \n| * @throws IllegalArgumentException if [n] is negative.\n| \n| * @sample samples.text.Strings.take\n| \n| *\n| CharSequence.slice(n: Int): CharSequence
| \n| require(n > 0)\n| \n| * \n| \n| *\n| String.slice(n: Int): String
| \n| require(n <= length)\n| \n| * Returns a string containing the first [n] characters from this string, or the entire string if this string is shorter.\n| \n| * @throws IllegalArgument if
@Published fun String.take(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return substring(0, n.coerceAtMost(length))
}

/**
 * Returns a subsequence of this char sequence containing the last [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.text.Strings.take
 */
public fun String.takeLast(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return subSequence(length - n.coerceAtMost(length), length)
}

/**
 * Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.text.Strings.take
 */
public fun String.takeLast(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return substring(length - n.coerceAtMost(length), length)
}

/**
 * Returns a string containing the last [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.
 * @throws IllegalArgument Exception if [n] is negative.
 * @sample samples.text.Strings.take
 */
public fun CharSequence.takeLast(n: Int): CharSequence {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return subSequence(length - n.coerceAtMost(length), length)
}

/**
 * Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.text.Strings.take
 */
public fun String.takeLast(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return substring(length - n.coerceAtMost(length), length)
}

/**
 * Returns a char sequence with characters in reversed order.
 */
public fun CharSequence.reversed(): CharSequence {
    return StringBuilder(this).reverse()
}

/**
 * Returns a string with characters in reversed order.
 */
@kotlin.internal.InlineOnly
public inline fun String.reversed(): String {
    return (this as CharSequence).reversed().toString()
}

/**
 * Returns a Map containing key-value pairs provided by [transform] function applied to characters of the given char sequence. If any of two pairs would have the same key the last one gets added to the map. The returned map preserves the entry iteration order of the original char sequence.
 * @sample samples.text.Strings.associate
 */
public inline fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {
    val capacity = mapCapacity(length).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity), transform)
}

/**
 * Returns a Map containing the characters from the given char sequence indexed by the key returned by [keySelector] function applied to each character.
 * If any two characters would have the same key returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration order of the original char sequence.
 * @sample samples.text.Strings.associateBy
 */
public inline fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {
    val capacity = mapCapacity(length).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)
}

/**
 * Returns a Map containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char sequence. If any two characters would have the same key returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration order of the original char sequence.
 * @sample samples.text.Strings.associateWithKeyValueTransform
 */
public inline fun <K, V> CharSequence.associateWithKeyValueTransform(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {
    val capacity = mapCapacity(length).coerceAtLeast(16)
    return associateWithKeyValueTransformTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to characters of the given char sequence. If any of two pairs would have the same key the last one gets added to the map. The returned map preserves the entry iteration order of the original char sequence.
 * @sample samples.text.Strings.associateWith
 */
public inline fun <K, V> CharSequence.associateWith(transform: (Char) -> V): Map<K, V> {
    val capacity = mapCapacity(length).coerceAtLeast(16)
    return associateWithTo(LinkedHashMap<K, V>(capacity), transform)
}

/**
 * Returns a Map containing the characters from the given char sequence indexed by the key returned from the given [predicate].
 * @sample samples.text.Strings.takeWhile
 */
public inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return subSequence(index + 1, length)
        }
    }
    return subSequence(0, length)
}

/**
 * Returns a string containing characters in reversed order.
 * @sample samples.text.Strings.takeWhile
 */
@kotlin.internal.InlineOnly
public inline fun String.takeWhile(predicate: (Char) -> Boolean): String {
    for (index in lastIndex downTo 0) {
        if (!predicate(get(index))) {
            return substring(index + 1)
        }
    }
    return this
}

/**
 * Returns a char sequence containing the first characters that satisfy the given [predicate].
 * @sample samples.text.Strings.take
 */
public inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in 0 until length)
        if (!predicate(get(index))) {
            return subSequence(0, index)
        }
    return subSequence(0, length)
}

/**
 * Returns a string containing the first characters that satisfy the given [predicate].
 * @sample samples.text.Strings.take
 */
public inline fun String.takeWhile(predicate: (Char) -> Boolean): String {
    for (index in 0 until length)
        if (!predicate(get(index))) {
            return substring(0, index)
        }
    return this
}

/**
 * Returns a Map containing key-value pairs provided by [transform] function applied to characters of the given char sequence. If any of two pairs would have the same key the last one gets added to the map. The returned map preserves the entry iteration order of the original char sequence.
 * @sample samples.text.Strings.associateWith
 */
public inline fun <K, V> CharSequence.associateWith(transform: (Char) -> V): Map<K, V> {
    val capacity = mapCapacity(length).coerceAtLeast(16)
    return associateWithTo(LinkedHashMap<K, V>(capacity), transform)
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to characters of the given char sequence. If any of two pairs would have the same key the last one gets added to the map. The returned map preserves the entry iteration order of the original char sequence.
 * @sample samples.text.Strings.associateWith
 */
public inline fun <K, V> String.associateWith(transform: (Char) -> V): Map<K, V> {
    val capacity = mapCapacity(length).coerceAtLeast(16)
    return associateWithTo(LinkedHashMap<K, V>(capacity), transform)
}
pairs, * where key is provided by the [keySelector] function applied to each character of the given char sequence * and value is the character itself. * If any two characters would have the same key returned by [keySelector] the last one gets added to the map. * * @sample samples.text.Strings.associateByTo
 */
public inline fun <K, M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, * where key is provided by the 
 [keySelector] function and * and value is provided by the [valueTransform] function applied to characters of the 
 given char sequence. * * @sample samples.text.Strings.associateByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs * provided by [transform] function applied to each of the given char 
 sequence. * * @sample samples.text.Strings.associateTo
 */
public inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Returns a [Map] where keys are characters from the given char sequence and values are * produced by the [valueSelector] function applied to each 
 character. * * @sample samples.text.Strings.associateWith
 */
@SinceKotlin("1.3")
public inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {
    val result = LinkedHashMap<Char, V>(mapCapacity(length.coerceAtMost(128)).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a new [MutableMap] filled with all characters of this char sequence. * * @sample samples.text.Strings.associateWithTo
 */
@SinceKotlin("1.3")
public inline fun <V, M : MutableMap<in Char, in V>> CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on 
 each character of original char sequence. * * @sample samples.collections.Collections.Transformations.flatMap
 */
public inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}


```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterable")
@kotlin.internal.InlineOnly
public inline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each character in
 * and its index in the original char sequence, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapIndexedTo(destination: C, transform: (index: Int, Char) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each character of original char sequence, to the given
 * [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Groups characters of the original char sequence by
 * the key returned by the given [keySelector] function
 * applied to each character and returns a map where each group
 * key is associated with a list of corresponding characters.
 */
public inline fun <K> CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {
    return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)
}

/**
 * Groups values returned by the
 * [valueTransform] function applied to each character of the original char sequence
 * by the key returned by the given [keySelector] function
 * applied to the character and returns a map where each group key
 * is associated with a list of corresponding values.
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrDefault(key) { ArrayList<Char>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Creates a [Grouping] source from a char sequence to be used later with one of group-and-
 * fold operations
 * using the specified [keySelector] function to extract a key from each character.
 */
@SinceKotlin("1.1")
public inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {
    return object :
```
@sample samples.text.Strings.map

@public inline fun <R> CharSequence.map(transform: (Char) -> R):
List<R> { /* return mapTo(ArrayList<R>|length), transform|@n */
    var results = ArrayList<R>(length)
    for (i in 0 until length) { results.add(transform(get(i))) }
    return results
}

@public inline fun <R> CharSequence.mapIndexed(transform: (Int, Char) -> R):
List<R> { /* return mapIndexedTo(ArrayList<R>|length), transform|@n */
    var results = ArrayList<R>(length)
    for (i in 0 until length) { results.add(transform(i, get(i))) }
    return results
}

@public inline fun <R> CharSequence.mapIndexedNotNull(transform: (Int, Char) -> R?):
List<R> { /* return mapIndexedNotNullTo(ArrayList<R>(), transform|@n */
    var results = ArrayList<R>()
    for (i in 0 until length) { var result = transform(i, get(i))
        if (result != null) results.add(result)
    }
    return results
}

@public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (Int, Char) -> R?):
C { /* var index = 0 for (item in this) destination.add(transform(index++,
    item)) */
    var index = 0
    for (i in 0 until length) { var result = transform(i, get(i))
        if (result != null) destination.add(result)
        index++
    }
    return destination
}

@public inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) -> R):
C { /* for (item in this) destination.add(transform(item)) */
    for (i in 0 until length) { destination.add(transform(get(i))) }
    return destination
}

@public fun <R> CharSequence.withIndex(): Iterable<IndexedValue<Char>> { /* return IndexingIterable { iterator() } */
    return IndexingIterable { iterator() };
}

@public inline fun <R> CharSequence.all(predicate: (Char) -> Boolean): Boolean { /* for (element in this) if (!predicate(element)) return false */
    return true
}

@public fun <R> CharSequence.any(): Boolean { /* !isEmpty() */
    return true
}

@public inline fun <R> CharSequence.any(predicate: (Char) -> Boolean): Boolean { /* for (element in this) if (predicate(element)) return true */
    return false
}

@public inline fun <R> CharSequence.count(): Int { /* return length */
    return length
}

@public inline fun <R> CharSequence.count(predicate: (Char) -> Boolean): Int { /* return length */
    return length
}

@public inline fun <R> CharSequence.mapIndexedNotNull(transform: (Int, Char) -> R?):
List<R> { /* return mapIndexedNotNullTo(ArrayList<R>(), transform|@n */
    var results = ArrayList<R>()
    for (i in 0 until length) { var result = transform(i, get(i))
        if (result != null) results.add(result)
    }
    return results
}

@public inline fun <R, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (Int, Char) -> R?):
C { /* var index = 0 for (item in this) destination.add(transform(index++,
    item)) */
    var index = 0
    for (i in 0 until length) { var result = transform(i, get(i))
        if (result != null) destination.add(result)
        index++
    }
    return destination
}

@public inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) -> R): C { /* for (item in this) destination.add(transform(item)) */
    for (i in 0 until length) { destination.add(transform(get(i))) }
    return destination
}

@public fun <R> CharSequence.withIndex(): Iterable<IndexedValue<Char>> { /* return IndexingIterable { iterator() } */
    return IndexingIterable { iterator() };
}

@public inline fun <R> CharSequence.all(predicate: (Char) -> Boolean): Boolean { /* for (element in this) if (!predicate(element)) return false */
    return true
}

@public fun <R> CharSequence.any(): Boolean { /* !isEmpty() */
    return true
}

@public inline fun <R> CharSequence.any(predicate: (Char) -> Boolean): Boolean { /* for (element in this) if (predicate(element)) return true */
    return false
}

@public inline fun <R> CharSequence.count(): Int { /* return length */
    return length
}

@public inline fun <R> CharSequence.count(predicate: (Char) -> Boolean): Int { /* return length */
    return length
}
* Returns the specified [initial] value if the char sequence is empty.

```kotlin
public inline fun <R>
CharSequence.fold(initial: R, operation: (R, Char) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
```

* and the character itself, and calculates the next accumulator value.

```kotlin
public inline fun <R>
CharSequence.foldIndexed(initial: R, operation: (Int, R, Char) -> R): R {
    var index = 0
    var accumulator = initial
    while (index < lastIndex) {
        accumulator = operation(index++, accumulator, get(index))
    }
    return accumulator
}
```

* Returns the specified [initial] value if the char sequence is empty.

```kotlin
public inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index > 0) {
        accumulator = operation(get(index - 1), accumulator)
    }
    return accumulator
}
```

* Returns the first character yielding the largest value of the given function or 'null' if there are no characters.

```kotlin
public inline fun <R : Comparable<R>> CharSequence.maxByOrNull(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```
```kotlin
*\@SinceKotlin("1.4")\n\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\@OverloadResolution
\@Deprecated("Use maxWithOrNull")
*\@SinceKotlin("1.4")\n\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\@OverloadResolution
ByLambdaReturnType\n\@kotlin.internal.InlineOnly\n\@public inline fun CharSequence.maxOf(selector: (Char) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
        return maxValue
    }/* Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * @throws NoSuchElementException if the char sequence is empty.\n *
*\@SinceKotlin("1.4")\n\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\@OverloadResolution
ByLambdaReturnType\n\@kotlin.internal.InlineOnly\n\@public inline fun <R : Comparable<R>> CharSequence.maxOf(selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}/* Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * @throws NoSuchElementException if the char sequence is empty.\n *
*\@SinceKotlin("1.4")\n\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\@OverloadResolution
ByLambdaReturnType\n\@kotlin.internal.InlineOnly\n\@public inline fun CharSequence.maxOfOrNull(selector: (Char) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
        return maxValue
    }/* Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * @throws NoSuchElementException if the char sequence is empty.\n *
*\@SinceKotlin("1.4")\n\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\@OverloadResolution
ByLambdaReturnType\n\@kotlin.internal.InlineOnly\n\@public inline fun <R : Comparable<R>> CharSequence.maxOfOrNull(selector: (Char) -> R): R? {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
} /* Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n * @throws NoSuchElementException if the char sequence is empty.\n *
*\@SinceKotlin("1.4")\n\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\@OverloadResolution
ByLambdaReturnType\n\@kotlin.internal.InlineOnly\n\@public inline fun <R> CharSequence.maxOfWithOrNull(comparator: Comparator<R>, selector: (Char) -> R): R? {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
} /* Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each character in the char sequence or `null` if there are no characters.\n *
*\@SinceKotlin("1.4")\n\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\@OverloadResolution
ByLambdaReturnType\n\@kotlin.internal.InlineOnly\n\@public inline fun <R> CharSequence.maxOfWith(comparator: Comparator<R>, selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
} /* Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each character in the char sequence or `null` if there are no characters.\n *
*\@SinceKotlin("1.4")\n\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\@OverloadResolution
ByLambdaReturnType\n\@kotlin.internal.InlineOnly\n\@public inline fun CharSequence.maxOrNull(): Char? {
    if (isEmpty()) return null
    var maxChar = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (maxChar < e) maxChar = e
    }
    return maxChar
} /* Returns the largest character or `null` if there are no characters.\n *
```
instead.

ReplaceWith("\nmaxWithOrNull(comparator)\n")
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun CharSequence.maxWith(comparator: Comparator<Char>): Char? {
    return maxWithOrNull(comparator)  * Returns the first character having the largest value according to the provided [comparator] or `null` if there are no characters.

@DeprecatedSinceKotlin(warningSince = "1.4")
public fun CharSequence.maxWithOrNull(comparator: Comparator<Char>): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun CharSequence.min(): Char? {
    return minOrNull()
}

@Deprecated("Use minByOrNull instead.",
ReplaceWith("minByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <R : Comparable<R>> CharSequence.minBy(selector: (Char) -> R): Char? {
    return minByOrNull(selector)  * Returns the first character yielding the smallest value of the given function or `null` if there are no characters.
}

@Sample
collections.Collections.Aggregates.minByOrNull
@
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharSequence.minOf(selector: (Char) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException if the char sequence is empty.

    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharSequence.minOf(selector: (Char) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException if the char sequence is empty.

    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> CharSequence.minOf(selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException if the char sequence is empty.

    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharSequence.minOfOrNull(selector: (Char) -> Double): Double? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharSequence.minOfOrNull(selector: (Char) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> CharSequence.minOfOrNull(selector: (Char) -> R): R? {
    if (isEmpty()) return null

    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector: (Char) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = Math.min(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each character in the char sequence or `null` if there are no characters.
 */

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharSequence.minOfOrNull(selector: (Char) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest character or `null` if there are no characters.
 */
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.minOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest character or `null` if there are no characters.
 */
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the first character having the smallest value according to the provided [comparator] or `null` if there are no characters.
 */
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <Char, Comparator<in Char>> CharSequence.minWithOrNull(): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        var e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns `true` if the char sequence has no characters.
 */
public fun CharSequence.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if no characters match the given [predicate].
 */
public inline fun <Char> CharSequence.none(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Performs the given [action] on each character and returns the char sequence afterwards.
 */
@SinceKotlin("1.1")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S {
    return apply { for (element in this) action(element) }
}

/**
 * Performs the given [action] on each character, providing sequential index with the character, and returns the char sequence afterwards.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <S : CharSequence> S.onEachIndexed(action: (index: Int, Char) -> Unit): S {
    return apply { forEachIndexed(action) }
}

/**
 * Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <S : CharSequence> S.onEachIndexed(operation: (Int, Char) -> Unit): S { // Counts the number of characters in a sequence.
    return apply { forEachIndexed(operation) }
}

/**
 * Performs the given [operation] on each character and applying [operation] to current accumulator value and each character.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <S : CharSequence> S.onEachIndexed(operation: (index: Int, Char) -> Unit): S { // Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character.
    return apply { forEachIndexed(operation) }
}

/**
 * Throws an exception if the char sequence is empty. If the char sequence can be empty in an expected way, use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <S : CharSequence> S.onEachIndexed(operation: (index: Int, Char) -> Unit): S { // Reduces a sequence to a single value by applying [operation] to each element and accumulating the result.
    return apply { reduceOrNull(operation) }
}

/**
 * Performs the given [operation] on each character and applying [operation] to current accumulator value and each character.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <S : CharSequence> S.onEachIndexed(operation: (index: Int, Char) -> Unit): S { // Performs the given [operation] on each character, providing sequential index with the character.
    return apply { forEachIndexed(operation) }
}

/**
 * Perform the given [action] on each character and returns the char sequence afterwards.
 */
@SinceKotlin("1.1")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S { // Performs the given [action] on each character.
    return apply { for (element in this) action(element) }
}

/**
 * Perform the given [action] on each character, providing sequential index with the character.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <S : CharSequence> S.onEachIndexed(action: (index: Int, Char) -> Unit): S { // Performs the given [action] on each character, providing sequential index with the character.
    return apply { forEachIndexed(action) }
}
that takes current accumulator value and a character,*\n* and calculates the next accumulator value.*\n* @sample samples.collections.Collections.Aggregates.reduce
*\n*\n*public inline fun CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {\n* if (isEmpty()) throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n* var accumulator = this[0] for (index in 1..lastIndex) {\n* accumulator = operation(accumulator, this[index])\n* }\n* return accumulator\n*}/**\n* Accumulates value starting with the first character and applying \[operation] from left to right\n* to current accumulator value and each character with its index in the original char sequence.*\n* *\n* Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,*\n* please use \[reduceIndexedOrOrNull\] instead. It returns `null` when its receiver is empty.*\n* *\n* @param \[operation\] function that takes the index of a character, current accumulator value and the character itself,*\n* and calculates the next accumulator value.*\n* * @sample samples.collections.Collections.Aggregates.reduce\n*\n*\n*public inline fun CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n* if (isEmpty()) throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n* var accumulator = this[0] for (index in 1..lastIndex) {\n* accumulator = operation(index, accumulator, this[index])\n* }\n* return accumulator\n*}/**\n* Accumulates value starting with the first character and applying \[operation] from left to right\n* to current accumulator value and each character with its index in the original char sequence.*\n* *\n* Returns `null` if the char sequence is empty.*\n* \*\n* @param \[operation\] function that takes the index of a character, current accumulator value and the character itself,*\n* and calculates the next accumulator value.*\n* * @sample samples.collections.Collections.Aggregates.reduceIndexed\n*\n*\n*public inline fun CharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {\n* if (isEmpty()) return null\n* var accumulator = this[0] for (index in 1..lastIndex) {\n* accumulator = operation(index, accumulator, this[index])\n* }\n* return accumulator\n*}/**\n* Returns `null` if the char sequence is empty.*\n* *\n* @param \[operation\] function that takes the index of a character, current accumulator value and the character itself,*\n* and calculates the next accumulator value.*\n* * @sample samples.collections.Collections.Aggregates.reduceIndexedOrNull\n*\n*\n*public inline fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n* var index = lastIndex\n* if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n* var accumulator = get(index--)\n* while (index >= 0) {\n* accumulator = operation(get(index--), accumulator)\n* }\n* return accumulator\n*}/**\n* Accumulates value starting with the last character and applying \[operation] from right to left\n* to each character and current accumulator value.*\n* *\n* Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,*\n* please use \[reduceRightIndexedOrOrNull\] instead. It returns `null` when its receiver is empty.*\n* *\n* @param \[operation\] function that takes the index of a character, the character itself and current accumulator value,*\n* and calculates the next accumulator value.*\n* * @sample samples.collections.Collections.Aggregates.reduceRight\n*\n*\n*public inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n* var index = lastIndexOf(\n* if (index < 0) throw UnsupportedOperation(Exception("Empty char sequence can't be reduced.")\n* var accumulator = get(index--)\n* while (index >= 0) {\n* accumulator = operation(get(index--), index, accumulator)\n* }\n* return accumulator\n*}/**\n* Accumulates value starting with the last character and applying \[operation] from right to left\n* to each character with its index in the original char sequence and current accumulator value.*\n* *\n* Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,*\n* please use \[reduceRightIndexedOrNull\] instead. It returns `null` when its receiver is empty.*\n* *\n* @param \[operation\] function that takes the index of a character, the character itself and current accumulator value,*\n* and calculates the next accumulator value.*\n* * @sample samples.collections.Collections.Aggregates.reduceRightIndexed\n*\n*\n*public inline fun CharSequence.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char {\n* var index = lastIndexOf(\n* if (index < 0) throw UnsupportedOperation(Exception("Empty char sequence can't be reduced.")\n* var accumulator = get(index--)\n* while (index >= 0) {\n* accumulator = operation(index, get(index), index, accumulator)\n* --index\n* }\n* return accumulator\n*}}
character and applying [operation] from right to left*
 to each character with its index in the original char sequence
and current accumulator value.

*\n
* Returns `null` if the char sequence is empty.

*\n
* @param [operation] function that takes the index of a character, the character itself and current accumulator value.

* \n
* and calculates the next accumulator value.

* \n
* @sample samples.collections.Collections.Aggregates.reduceRightOrNull


@SinceKotlin("1.4")
public inline fun CharSequence.reduceRightIndexedOrNull(operation: (Int, Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last character and applying [operation] from
 * right to left* to each character and current accumulator value.

* \n
* Returns `null` if the char sequence is empty.

* \n
* @param [operation] function that takes a character and current accumulator value.

* \n
* and calculates the next accumulator value.

* \n
* @sample samples.collections.Collections.Aggregates.reduceRightOrNull


@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Returns a list containing successive
 * accumulation values generated by applying [operation] from left to right* to each character and current accumulator value
 * that starts with [initial] value.

* \n
* Note that `acc` value passed to [operation] function should not be mutated;

* otherwise it would affect the previous value in resulting list.

* \n
* @param [operation] function that takes current accumulator value and a character, and calculates the next accumulating value.

* \n
* @sample samples.collections.Collections.Aggregates.runningFold

 */
@SinceKotlin("1.4")
public inline fun <R> CharSequence.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(length + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right* to each character and current accumulator value
 * that starts with the first character of this char sequence.

* \n
* Note that `acc` value passed to [operation] function should not be mutated;

* otherwise it would affect the previous value in resulting list.

* \n
* @param [operation] function that takes the index of a character, current accumulator value

* \n
* and the character itself, and calculates the next accumulating value.

* \n
* @sample samples.collections.Collections.Aggregates.runningReduce

 */
@SinceKotlin("1.4")
public inline fun CharSequence.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(length)
    for (index in 1 until length) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
samples.collections.Collections.Aggregates.runningReduce\n*/\n@SinceKotlin("1.4")\npublic inline fun
CharSequence.runningReduceIndexed(operation: (idx: Int, acc: Char, Char) -> Char): List<Char> {
  var accumulator = this[0]
  val result = ArrayList<Char>(length).apply {
    add(accumulator)
  } for (idx in 1 until length) {
    accumulator = operation(idx, accumulator,
                          this[idx])
    result.add(accumulator)
  } return result
} *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {
  return runningFold(initial, operation)$\n} *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scanIndexed(initial: R, operation: (idx: Int, acc: R, Char) -> R): List<R> {
  return runningFoldIndexed(initial, operation)$\n} *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {
  return runningReduce(operation)
} *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.scanReduceIndexed(operation: (idx: Int, acc: Char, Char) -> Char): List<Char> {
  return runningReduceIndexed(operation)
} *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.sumBy(selector: (Char) -> Int): Int {
  var sum: Int = 0
  for (element in this) {
    sum += selector(element)
  }
  return sum
} *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.sumByDouble(selector: (Char) -> Double): Double {
  var sum: Double = 0.0
  for (element in this) {
    sum += selector(element)
  }
  return sum
} *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Double): Double {
  var sum: Double = 0.toDouble()
  for (element in this) {
    sum += selector(element)
  }
  return sum
} *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.sumOfInt(selector: (Char) -> Int): Int {
  var sum: Int = 0.toInt()
  for (element in this) {
    sum += selector(element)
  }
  return sum
} *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.sumOfLong(selector: (Char) -> Long): Long {
  var sum: Long = 0.toLong()
  for (element in this) {
    sum += selector(element)
  }
  return sum
}
sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by
 * [selector] function applied to each character in the char sequence.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun CharSequence.sumOfUInt(selector: (Char) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by
 * [selector] function applied to each character in the char sequence.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun CharSequence.sumOfULong(selector: (Char) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Splits this char sequence into a list of strings each not exceeding the given [size].
 * The last string in the resulting list may have less characters than the given [size].
 * @param size the number of elements to take in each string,
 * must be positive and can be greater than the number of elements in this char sequence.
 * @sample samples.text.Strings.chunked
 */
@SinceKotlin("1.2")
public fun CharSequence.chunked(size: Int): List<String> {
    return windowed(size, size, partialWindows = true)
}

/**
 * Splits this char sequence into several char sequences each not exceeding the given [size]
 * and applies the given [transform] function to an each.
 * The last string in the resulting sequence may have less characters than the given [size].
 * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.
 * @sample samples.collections.Collections.Transformations.chunked
 */
public inline fun(CharSequence chunkedSequence(size: Int): Sequence<String> {
    return chunkedSequence(size) { it.toString() }
}

/**
 * Splits the original string into pair of strings,
 * where *first* string contains characters for which [predicate] yielded `false`
 * while *second* string contains characters for which [predicate] yielded `true`.
 * @sample samples.text.Strings.partition
 */
public inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {
    val first = StringBuilder()
    val second = StringBuilder()
    for (element in this) {
        if (predicate(element)) {
            first.append(element)
        } else {
            second.append(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original char sequence into pair of char sequences,
 * where *first* char sequence contains characters for which [predicate] yielded `true`,
 * while *second* char sequence contains characters for which [predicate] yielded `false`.
 * @sample samples.text.Strings.partition
 */
public inline fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {
    val first = StringBuilder()
    val second = StringBuilder()
    for (element in this) {
        if (predicate(element)) {
            first.append(element)
        } else {
            second.append(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original char sequence into pair of char sequences,
 * where *first* char sequence contains characters for which [predicate] yielded `true`,
 * while *second* char sequence contains characters for which [predicate] yielded `false`.
 * @sample samples.text.Strings.partition
 */
public inline fun Sequence<CharSequence>.chunked(size: Int, transform: (CharSequence) -> R): Sequence<R> {
    return windowed(size, size, partialWindows = true, transform = transform)
}

/**
 * Splits the original char sequence into pair of char sequences,
 * where *first* char sequence contains characters for which [predicate] yielded `true`,
 * while *second* char sequence contains characters for which [predicate] yielded `false`.
 * @sample samples.text.Strings.partition
 */
public inline fun Sequence<String>.chunkedTransform(size: Int): Sequence<String> {
    return windowed(size, size, partialWindows = true) { it.toString() }
}

/**
 * Splits the original char sequence into pair of char sequences,
 * where *first* char sequence contains characters for which [predicate] yielded `true`,
 * while *second* char sequence contains characters for which [predicate] yielded `false`.
 * @sample samples.text.Strings.partition
 */
public inline fun Sequence<String>.chunkedTransformToSequence(size: Int): Sequence<String> {
    return windowedSequence(size, size, partialWindows = true) { it.toString() }
}

/**
 * Splits the original char sequence into several char sequences each not exceeding the given [size]
 * and applies the given [transform] function to an each.
 * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.
 * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.
 * @sample samples.collections.Collections.Transformations.chunked
 */
public inline fun CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {
    return windowedSequence(size, size, partialWindows = true, transform = transform)
}

/**
 * Splits the original string into pair of strings,
 * where *first* string contains characters for which [predicate] yielded `false`
 * while *second* string contains characters for which [predicate] yielded `true`.
 * @sample samples.text.Strings.partition
 */
public inline fun String.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {
    return windowedSequence(size, size, partialWindows = true, transform = transform)
}
StringBuilder().val second = StringBuilder().val for (element in this) {
    if (predicate(element)) {
        first.append(element)
    } else {
        second.append(element)
    }
}
return Pair(first.toString(), second.toString())

/**
 * Returns a list of snapshots of the window of the given [size] sliding along this char sequence with the given [step], where each snapshot is a string.
 * Several last strings may have less characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.
 * @param size the number of elements to take in each window
 * @param step the number of elements to move the window forward by on each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any
 * @param partialWindows which means partial windows won't be preserved
 * @sample samples.collections.Sequences.Transformations.takeWindows
 */
@SinceKotlin("1.2")
public fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {
    return windowed(size, step, partialWindows) { it.toString() }
}

/**
 * Returns a list of results of applying the given [transform] function to an each char sequence representing a view over the window of the given [size] sliding along this char sequence with the given [step].
 * Several last strings may have less characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.
 * @param size the number of elements to take in each window
 * @param step the number of elements to move the window forward by on each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any
 * @param partialWindows which means partial windows won't be preserved
 * @sample samples.collections.Sequences.Transformations.averageWindows
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): List<R> {
    checkWindowSizeStep(size, step)
    val thisSize = this.length
    val resultCapacity = thisSize / step
    var index = 0
    while (index < thisSize) {
        val end = index + size
        val coercedEnd = if (coercedEnd < 0 || coercedEnd > thisSize) { if (partialWindows) thisSize else break } else end
        result.add(transform(subSequence(index, coercedEnd)))
        index += step
    }
    return result
}

/**
 * Returns a sequence of snapshots of the window of the given [size] sliding along this char sequence with the given [step], where each snapshot is a string.
 * Several last strings may have less characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.
 * @param size the number of elements to take in each window
 * @param step the number of elements to move the window forward by on each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any
 * @param partialWindows which means partial windows won't be preserved
 * @sample samples.collections.Sequences.Transformations.takeWindows
 */
@SinceKotlin("1.2")
public fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> {
    return windowedSequence(size, step, partialWindows) { it.toString() }
}

/**
 * Returns a sequence of results of applying the given [transform] function to an each char sequence representing a view over the window of the given [size] sliding along this char sequence with the given [step], where each snapshot is a string.
 * Several last strings may have less characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.
 * @param size the number of elements to take in each window
 * @param step the number of elements to move the window forward by on each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any
 * @param partialWindows which means partial windows won't be preserved
 * @sample samples.collections.Sequences.Transformations.averageWindows
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {
    checkWindowSizeStep(size, step)
    val windows = (if (partialWindows) indices else 0 until length - size + 1) step
step
    return windows.asSequence().map { index ->
        val end = index + size
        val coercedEnd = if (end < 0 || end > length) length else end
        transform(subSequence(index, coercedEnd))
    }
}

/**
 * Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same 
index* * @ using the provided [transform] function applied to each pair of characters.
 */
public inline fun <V> CharSequence.zip(other: CharSequence, transform: (a: Char, b: Char) -> V): List<V> {
    val length = minOf(this.length, other.length)
    val list = ArrayList<V>(length)
    for (i in 0 until length) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Creates an [Iterable] instance
 * returning its characters when being iterated.
 */
public fun CharSequence.asIterable(): Iterable<Char> {
    if (this is String && isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original char sequence returning its characters when being iterated.
 */
public fun CharSequence.asSequence(): Sequence<Char> {
    if (this is String && isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

package kotlin.text

import kotlin.contracts.contract

/**
 * Returns a list containing the results of applying the given [transform] function
 * to an each pair of two adjacent characters in this char sequence.
 */
public fun CharSequence.zipWithNext(transform: (a: Char, b: Char) -> V): List<V> {
    val size = length - 1
    if (size < 1) return emptyList()
    val result = ArrayList<V>(size)
    for (index in 0 until size) {
        result.add(transform(this[index], this[index + 1]))
    }
    return result
}

/**
 * Returns a list containing the results of applying the given [transform] function
 * to each pair of two adjacent characters in this char sequence.
 */
public fun CharSequence.zipWithNextToFindDeltas(transform: (a: Char, b: Char) -> V): List<V> {
    val size = length - 1
    if (size < 1) return emptyList()
    val result = ArrayList<V>(size)
    for (index in 0 until size) {
        result.add(transform(this[index], this[index + 1]))
    }
    return result
}

/**
 * Returns a string having leading and trailing characters matching the [predicate] removed.
 */
public fun String.trim(predicate: (Char) -> Boolean): String =
    (this as CharSequence).trim(predicate).toString()
@sample samples.text.Strings.padEnd

```kotlin
public fun String.padEnd(length: Int, padChar: Char): String =
    this as CharSequence
        .padEnd(length, padChar)
        .toString()
```

/**
 * Returns `true` if this char sequence is empty (contains no characters).
 * @sample samples.text.Strings.stringIsEmpty
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.isEmpty(): Boolean =
    length == 0

/**
 * Returns `true` if this nullable char sequence is either `null` or empty.
 * @sample samples.text.Strings.stringIsNullOrBlank
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence?.isNullOrBlank(): Boolean =
    this == null || this.isBlank()

/**
 * Returns `true` if this char sequence is not empty or consists solely of whitespace characters.
 * @sample samples.text.Strings.stringIsNotBlank
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.isNotBlank(): Boolean =
    !this.isBlank()

/**
 * Returns `true` if this nullable char sequence is either `null` or empty or consists solely of whitespace characters.
 * @sample samples.text.Strings.stringIsNullOrBlank
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence?.isNullOrBlank(): Boolean =
    this == null || this.isBlank()

/**
 * Returns the range of valid character indices for this char sequence.
 */
public val CharSequence.indices: IntRange
    get() = 0..length - 1

/**
 * Returns the index of the last character in the char sequence or -1 if it is empty.
 */
public val CharSequence.lastIndex: Int
    get() = this.length - 1

/**
 * Returns a substring specified by the given [range] of indices.
 */
public fun String.substring(range: IntRange): String =
    substring(range.start, range.endInclusive + 1)

/**
 * Returns a subsequence of this char sequence.
 *
 * This extension is chosen only for invocation with old-named parameters.
 * @ReplaceWith("substring(startIndex = start, endIndex = end)")
 */
@kotlin.internal.InlineOnly
public inline fun String.substring(range: IntRange): String =
    substring(range.start, range.endInclusive + 1)

/**
 * Returns a subsequence of this char sequence.
 * This extension is chosen only for invocation with old-named parameters.
 * @ReplaceWith("substring(startIndex = start, endIndex = end)")
 */
@kotlin.internal.InlineOnly
public inline fun String.substring(range: IntRange): String =
    substring(range.start, range.endInclusive + 1)

@sample samples.text.Strings.padEnd
```
String = subSequence(startIndex, endIndex).toString()  

/**
 * Returns a substring of chars at indices from the specified [range] of this char sequence.
 */
public fun CharSequence.substring(range: IntRange): String =
    subSequence(range.start, range.endInclusive + 1).toString()

/**
 * Returns a substring before the first occurrence of [delimiter].
 */
public fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String =
    subSequence(0, indexOf(delimiter)).toString()  

/**
 * Returns a substring after the first occurrence of [delimiter].
 */
public fun String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String =
    substring(indexOf(delimiter) + 1, length)

/**
 * Returns a substring before the first occurrence of [delimiter].
 */
public fun String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String =
    substring(0, indexOf(delimiter)).toString()  

/**
 * Returns a substring after the first occurrence of [delimiter].
 */
public fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this): String =
    substring(indexOf(delimiter) + delimiter.length, length)

/**
 * Returns a substring before the last occurrence of [delimiter].
 */
public fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String =
    substring(0, lastIndexOf(delimiter)).toString()  

/**
 * Returns a substring after the last occurrence of [delimiter].
 */
public fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String =
    substring(lastIndexOf(delimiter) + 1, length)

/**
 * Returns a substring after the last occurrence of [delimiter].
 */
public fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String =
    substring(lastIndexOf(delimiter) + delimiter.length, length)

/**
 * Returns a char sequence with content of this char sequence where its part at the given range
 * is replaced with the [replacement] char sequence.
 */
@OptIn(ExperimentalStdlibApi::class)
public fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): CharSequence {
    if (endIndex < startIndex)
        throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")
    val sb = StringBuilder()
    sb.appendRange(this, 0, startIndex)
    sb.append(replacement)
    sb.appendRange(this, endIndex, length)
    return sb.toString()
}

/**
 * Replaces the part of the string at the given range
 * with the [replacement] char sequence.
 */
@kotlin.internal.InlineOnly
public inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): String =
    (this as CharSequence).replaceRange(startIndex, endIndex, replacement).toString()  

/**
 * Returns a char sequence with content of this char sequence where its part at the given [range]
 * is replaced with the [replacement] char sequence.
 */
public fun CharSequence.replaceRange(range: IntRange, replacement: CharSequence): CharSequence =
    replaceRange(range.start, range.endInclusive + 1, replacement)
Replace the part of string at the given [range] with the [replacement] string.

The end index of the [range] is included in the part to be replaced.

Returns a char sequence with content of this char sequence where its part at the
given range is removed.

(1) - param startIndex the index of the first character to be removed.

(2) - param endIndex the index of the first character after the removed part to keep in the string.

(3) - [endIndex] is not included in the removed part.

(4) - OptIn(ExperimentalStdlibApi::class) in public inline fun CharSequence.removeRange(startIndex: Int, endIndex: Int):
CharSequence {

if (startIndex > endIndex)
throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")

if (endIndex == startIndex)
return this.subSequence(0, length)

val sb = StringBuilder(length - (endIndex - startIndex))

sb.appendRange(this, 0, startIndex)

sb.appendRange(this, endIndex, length)

return sb.run { **this @ param startIndex the index of the first character to be removed.

(5) - @param endIndex the index of the first character after the removed part to keep in the string.

(6) - [endIndex] is not included in the removed part.

(7) - @kotlin.internal.InlineOnly in public inline fun String.removeRange(startIndex: Int, endIndex: Int):
String =

(this as CharSequence).removeRange(startIndex, endIndex).toString()

(8) - @OptIn(ExperimentalStdlibApi::class) in public inline fun CharSequence.removeRange(range: IntRange):
CharSequence = removeRange(range.start, range.endInclusive + 1)

(9) - This string starts with the given [prefix], returns a new char sequence

(10) - with the prefix removed. Otherwise, returns a new char sequence with the same characters.

(11) - * in public fun CharSequence.removePrefix(prefix: CharSequence):
CharSequence { if (startsWith(prefix)) {

return subSequence(prefix.length, length)

} return subSequence(0, length)

} * in public fun String.removeRange(range: IntRange):
String =

(this as CharSequence).removeRange(range).toString()

(12) - If this string starts with the given [prefix], returns a copy of this string

(13) - with the prefix removed. Otherwise, returns this string.

(14) - * in public fun String.removePrefix(prefix: String):
String { if (startsWith(prefix)) {

return subString(prefix.length)

} return this

} * in public fun CharSequence.removeSuffix(suffix: CharSequence):
CharSequence { if (endsWith(suffix)) {

return subSequence(0, length - suffix.length)

} return subSequence(0, length)

} CharSequence = removeSurrounding(delimiter, delimiter)

} * in public fun String.removeSurrounding(delimiter: CharSequence):
String =
```kotlin
/**
 * Replace part of string before the first occurrence of given delimiter with the [replacement] string.
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}

/**
 * Replace part of string before the first occurrence of given delimiter with the [replacement] string.
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.replaceBefore(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}

/**
 * Replace part of string after the first occurrence of given delimiter with the [replacement] string.
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)
}

/**
 * Replace part of string after the first occurrence of given delimiter with the [replacement] string.
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.replaceAfter(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)
}

/**
 * Replace part of string after the last occurrence of given delimiter with the [replacement] string.
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)
}

/**
 * Replace part of string after the last occurrence of given delimiter with the [replacement] string.
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)
}

/**
 * Replace part of string before the last occurrence of given delimiter with the [replacement] string.
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}

/**
 * Replace part of string before the last occurrence of given delimiter with the [replacement] string.
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}

/**
 * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression
 * with the given [replacement].
 * The [replacement] can consist of any combination of literal text and $-substitutions. To treat the replacement string
 * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression
 * with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a
 * replacement for that match.
 * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression
 * with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a
 * replacement for that match.
 * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression
 * with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a
 * replacement for that match.
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.replace(regex: Regex, replacement: String): String =
    regex.replace(this, replacement)

/**
 * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression
 * with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a
 * replacement for that match.
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String =
    regex.replace(this, transform)

// public fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific
// public fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific
```

---

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```kotlin
public fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false): Int {
    if (!ignoreCase && chars.size == 1 && this is String) {
        val char = chars.single()
```

```kotlin
    for (index in startIndex.coerceAtLeast(0)..lastIndex) {
        val
```

```kotlin
Boolean = false): Int {
    if (!ignoreCase && chars.size == 1 && this is String) {
        val char = chars.single()
```

```kotlin
    if (!ignoreCase && this is String && suffix is String)
        return
```

```kotlin
    else
        return subSequence(length - suffix.length, length, 0, suffix.length, ignoreCase)
```

```kotlin
return
    else
        return subSequence(0, prefix.length, ignoreCase)
```

```kotlin
regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)
```
**public fun**

`string from [strings] or -1 if none of [strings] are found.`

`* To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the end to the beginning of this string, and finds at each position the first element in [strings] at that position. By default `false`.

`* @return An index of the last occurrence of matched character from [chars] or -1 if none of [chars] are found.

`* @return An index of the last occurrence of matched character from [chars] or -1 if none of [chars] are found.

`* @return A pair of an index of the last occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.

`* @return An index of the last occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.

`* @return A pair of an index of the first occurrence of matched character when matching a character. By default `false`.

`* @return A pair of an index of the first occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.

`* @return A pair of an index of the first occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.

`* @return An index of the first occurrence of matched character when matching a character. By default `false`.

`* @return An index of the first occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.

`* @return An index of the first occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.

`* @return An index of the first occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.

`* @return An index of the first occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.
CharSequence.indexOfAny(strings: Collection<String>, startIndexOf: Int = 0, ignoreCase: Boolean = false): Int =
findAnyOf(strings, startIndexOf, ignoreCase, last = false)?.first ?: -1

/**
 * Finds the index of the last occurrence of any of the specified [strings] in this char sequence.
 * @param startIndexOf The index of character to start searching at. The search proceeds backward
 * toward the beginning of the string.
 * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.
 * @return An index of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.
 * @sample samples.text.Strings.indexOf
 */
public fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndexOf: Int = lastIndex, ignoreCase: Boolean = false): Int =
    findAnyOf(strings, startIndexOf, ignoreCase, last = true)?.first ?: -1


// indexOf

/**
 * Returns the index within this string of the first occurrence of the specified character,
 * starting from the specified [startIndex] and optionally ignoring the case.
 * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.
 * @return An index of the first occurrence of [char] or -1 if none is found.
 * @sample samples.text.Strings.indexOf
 */
public fun CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this !is String)
        indexOfAny(charArrayOf(char), startIndex, ignoreCase)
    else
        nativeIndexOf(char, startIndex)
}

/**
 * Returns the index within this char sequence of the first occurrence of the specified string,
 * starting from the specified [startIndexOf] and optionally ignoring the case.
 * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.
 * @return An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.
 * @sample samples.text.Strings.indexOf
 */
public fun CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this !is String)
        indexOf(string, startIndex, length, ignoreCase)
    else
        nativeIndexOf(string, startIndex)
}

/**
 * Returns the index within this char sequence of the last occurrence of the specified character,
 * starting from the specified [startIndex].
 * @param ignoreCase `true` to ignore character case when matching a character. By default 'false'.
 * @return An index of the first occurrence of [char] or -1 if none is found.
 * @sample samples.text.Strings.lastIndexOf
 */
public fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this !is String)
        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)
    else
        nativeLastIndexOf(char, startIndex)
}

/**
 * Returns the index within this char sequence of the last occurrence of the specified string,
 * starting from the specified [startIndexOf].
 * @param ignoreCase `true` to ignore character case when matching a string. By default 'false'.
 * @return An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.
 * @sample samples.text.Strings.lastIndexOf
 */
public fun CharSequence.lastIndexOf(string: String, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this !is String)
        indexOf(string, startIndex, 0, ignoreCase, last = true)
    else
        nativeLastIndexOf(string, startIndex)
}

/**
 * Returns `true` if this char sequence contains the specified [other] sequence of characters as a substring.
 * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.
 * @return A boolean value.
 * @sample samples.text.Throws
 */
@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")
public operator fun CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =
indexOf(other, ignoreCase = ignoreCase) >= 0

/**
 * Returns `true` if this char sequence contains at least one match of the specified regular expression [regex].
 * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.
 * @return A boolean value.
 * @sample samples.regex.Samples
 */
@kotlin.internal.InlineOnly
public inline operator fun CharSequence.contains(regex: Regex): Boolean =
regex.containsMatchIn(this)


private class DelimitedRangesSequence(
    private
CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =
indexOf(other, ignoreCase = ignoreCase) >= 0
else
indexOf(other, 0, length, ignoreCase) >= 0

/**
 * Returns `true` if this char sequence contains the specified character [char] and optionally ignoring the case.
 * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.
 * @return A boolean value.
 * @sample samples.regex.Samples
 */
@kotlin.internal.InlineOnly
public inline operator fun CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =
indexOf(char, ignoreCase = ignoreCase) >= 0
else
indexOf(char, 0, length, ignoreCase) => 0

/**
 * Returns `true` if this char sequence contains at least one match of the specified regular expression [regex].
 * @param val input: CharSequence
 * @param val startIndexOf: Int
 * @param val private val limit: Int
 * @param val private val getNextMatch:
delimiter. By default `false`.\n* @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n* @param split The maximum number of substrings to return. Zero by default means no limit is set.\n* To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from the end of this string, and matches at each position the first element in [delimiters] that is equal to a delimiter in this instance at that position.\n*/

public fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
    return delimiters.map { substring(it) }
}

/**
 * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\n * @param delimiters One or more characters to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */
public fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
    if (delimiters.size == 1) {
        return split(delimiters[0], ignoreCase, limit)
    }

    return delimiters.map { substring(it) }
}

/**
 * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiter].\n * This is specialized version of split which receives single non-empty delimiter and offers better performance.\n * @param delimiter String used as delimiter\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */
private fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {
    require(limit >= 0, {"Limit must be non-negative, but was $limit." })

    var currentOffset = 0
    var nextIndex = if (ignoreCase)
        indexOf(delimiter, currentOffset, ignoreCase = true, limit = limit)
    else
        indexOf(delimiter, currentOffset)

    if (nextIndex == -1 || limit == 1) {
        return
    }

    val isLimited = limit > 0
    val result = ArrayList<String>(if (isLimited)
        limit.coerceAtMost(10) else 10)
    do {
        result.add(substring(currentOffset, nextIndex))
        currentOffset = nextIndex + delimiter.length
        // Do not search for next occurrence if we're reaching limit if (isLimited &
        result.size == limit - 1) break
        nextIndex = if (ignoreCase)
            indexOf(delimiter, currentOffset, ignoreCase = true, limit = limit)
        else
            indexOf(delimiter, currentOffset)
    } while

    result.add(substring(currentOffset, length))
    return result
}

/**
 * Splits this char sequence around matches of the given regular expression.\n * @param regex The regular expression to match.\n * @param limit Non-negative value specifying the maximum number of substrings to return.\n * Zero by default means no limit is set.\n */
@kotlin.internal.InlineOnly
public inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> =
    regex.split(this, limit)

/**
 * Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.
 * The lines returned do not include terminating line separators.
 */
public fun CharSequence.lines(): List<String> =
    lineSequence().toList()

/**
 * Converts the characters in the specified array to a string.
 */
@SinceKotlin("1.2")
@Deprecated("Use CharArray.concatToString() instead", ReplaceWith("chars.concatToString()"))
public actual fun String(chars: CharArray): String {
    var result = ""
    for (char in chars) {
        result += char
    }
    return
}

/**
 * Converts the characters from a portion of the specified array to a string.
 */
@throws
IndexOutOfBoundsException if either [offset] or [length] are less than zero or `offset + length` is out of [chars]
array bounds.\n*/

package kotlin.text

import kotlin.js.RegExp

/**
 * Converts the characters in the specified array to a string.
 */
@SinceKotlin("1.2")
@Deprecated("Use CharArray.concatToString() instead", ReplaceWith("chars.concatToString()"))
public actual fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> =
    regex.split(this, limit)

/**
 * Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.
 * The lines returned do not include terminating line separators.
 */
public fun CharSequence.lines(): List<String> =
    lineSequence().toList()
instead", ReplaceWith("\nchars.concatToString(offset, offset + length)\n")\npublic actual fun String(chars: CharArray, offset: Int, length: Int): String {\n    var result = \\
    for (index in offset until offset + length) {\n        result += chars[index] \n    } \n    return result\n}\n
// Concatenates characters in this [CharArray] into a String\n\n/**\n * Concatenates characters in this [CharArray] or its subrange into a String.
 *\n * @param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.\n * @param endIndex the end (exclusive) of the subrange of characters, size of this array by default.\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n    var result = ""\n    for (index in startIndex until endIndex) {
        result += this[index]\n    }\n    return result\n}\n
/**\n * Returns a [CharArray] containing characters of this string\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun String.toCharArray(): CharArray {
    return CharArray(length) { get(it) }\n}\n
/**\n * Returns a [CharArray] containing characters of this string or its substring.\n *\n * @param startIndex the beginning (inclusive) of the substring, 0 by default.\n * @param endIndex the end (exclusive) of the substring, length of this string by default.\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n    return CharArray(endIndex - startIndex) { get(startIndex + it) }\n}\n
/**\n * Decodes a string from the bytes in UTF-8 encoding in this array.\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws InvalidSequenceException if [startIndex] is greater than [endIndex] or the byte array contains malformed UTF-8 byte sequence.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun ByteArray.decodeToString(): String {
    return decodeUtf8(this, 0, size, false)\n}\n
/**\n * Decodes a string from the bytes in UTF-8 encoding in this array or its subrange.\n *\n * @param startIndex the beginning (inclusive) of the subrange of bytes, 0 by default.\n * @param endIndex the end (exclusive) of the subrange of bytes, size of this array by default.\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws InvalidSequenceException if [startIndex] is greater than [endIndex].\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun ByteArray.decodeToString(startIndex: Int = 0, endIndex: Int = this.size, throwOnInvalidSequence: Boolean = false): String {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n    return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n
/**\n * Encodes this string to an array of bytes in UTF-8 encoding.\n *\n * Any malformed byte sequences are replaced by the replacement byte sequence.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun String.encodeToByteArray(): ByteArray {
    return encodeUtf8(this, 0, length, false)\n}\n
/**\n * Encodes this string or its substring to an array of bytes in UTF-8 encoding.\n *\n * @param startIndex the beginning (inclusive) of the substring.\n * @param endIndex the end (exclusive) of the substring.\n * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.encodeToByteArray(startIndex: Int = 0, endIndex: Int = this.length): ByteArray {
    return encodeUtf8(this, startIndex, endIndex, false)\n}\n
malformed char sequence or replace.\n *\n @throws IndexOutOfBoundsException if [startIndex] is less than zero
 or [endIndex] is greater than the length of this string.\n *\n @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n *\n @throws CharacterCodingException if this string contains malformed char sequence
 and [throwOnInvalidSequence] is true.\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n @Support("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = this.length,\n    throwOnInvalidSequence: Boolean = false)\n    : ByteArray {\n    return AbstractList.checkBoundsIndexes(startIndex, endIndex, length) \n    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n} \n
/**\n * Returns a copy of this string converted to upper case using the rules of the default locale.\n * @param sample samples.text.Strings.toUpperCase\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\n
/**\n * Returns a copy of this string converted to lower case using the rules of the default locale.\n * @sample samples.text.Strings.toLowerCase\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()\n
@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str, fromIndex)\n
@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeLastIndexOf(str: String, fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\n
@kotlin.internal.InlineOnly\ninternal inline fun String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s, position)\n
@kotlin.internal.InlineOnly\ninternal inline fun String.nativeEndsWith(s: String): Boolean = asDynamic().endsWith(s)\n
@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int): String = asDynamic().substring(startIndex)\n
@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex, endIndex)\n
@kotlin.internal.InlineOnly\npublic inline fun String.concat(str: String): String = asDynamic().concat(str)\n
@kotlin.internal.InlineOnly\npublic inline fun String.match(regex: String): Array<String>? = asDynamic().match(regex)\n
@SinceKotlin("1.2")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n    if (ignoreCase) {\n        val n1 = this.length\n        val n2 = other.length\n        val min = minOf(n1, n2)\n        if (min == 0) return n1 - n2\n        var start = 0\n        while (true) {\n            val end = minOf(start + 16, min)\n            var s1 = this.substring(start, end)\n            var s2 = other.substring(start, end)\n            if (s1 != s2) {\n                s1 = s1.toUpperCase()\n                s2 = s2.toUpperCase()\n                if (s1 != s2) {\n                    s1 = s1.toLowerCase()\n                    s2 = s2.toLowerCase()\n                    return s1.compareTo(s2)\n                }\n            }\n            if (end == min) break\n            start = end\n            var n1 = this.length - n1\n            var n2 = other.length - n2\n            var s1 = s1.toUpperCase()\n            var s2 = s2.toUpperCase()\n            if (s1 != s2) {\n                s1 = s1.toLowerCase()\n                s2 = s2.toLowerCase()\n                return s1.compareTo(s2)\n            }\n        }\n    } else {\n        return compareTo(other)\n    }\n} \n
private val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }\n
@SinceKotlin("1.2")\npublic actual val String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String> = STRING_CASE_INSENSITIVE_ORDER

package kotlin

@SinceKotlin("1.3")\n@PublishedApi\ninternal class UByteArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@PublishedApi\ninternal val storage: ByteArray\n
/** Creates a new array of the specified [size], with all elements initialized to zero. */\npublic constructor(size: Int) : this(ByteArray(size))\n
/**\n * Returns the array element at the given [index]. This method can be called using the index operator.\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS.\n * where the behavior is unspecified.\n *\n */
operator fun get(index: Int): UByte = storage[index].toUByte() /* * Sets the element at the given [index] to the given [value]. This method can be called using the index operator. * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified. */ public operator fun set(index: Int, value: UByte) { storage[index] = value.toByte() /* */ Returns the number of elements in the array. */ public override val size: Int get() = storage.size /* Creates an iterator over the elements of the array. */ public override operator fun iterator(): ByteArrayIterator = Iterator(storage) /* private class Iterator(private val array: ByteArray): ByteArrayIterator { */ override fun contains(element: UByte): Boolean = storage.contains(element) /* Should return the value for an array element given its index. */ ^n@SinceKotlin("1.3") ^n@ExperimentalUnsignedTypes ^n@kotlin.internal.InlineOnly ^npublic inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray { /* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors. * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. */ ^n// Auto-generated file. DO NOT EDIT! ^npackage kotlin ^n@SinceKotlin("1.3") ^n@ExperimentalUnsignedTypes ^n@published inline class UintArray ^n@PublishedApi ^ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> { /* Creates a new array of the specified [size], with all elements initialized to zero. */ public constructor(size: Int) : this(IntArray(size)) /* Returns the array element at the given [index]. This method can be called using the index operator. */ ^n*/ Returns an array element sequentially starting from the first one. */ It should return the value for an array element given its index. */ ^n@SinceKotlin("1.3") ^n@ExperimentalUnsignedTypes ^n@kotlin.internal.InlineOnly ^npublic inline fun ubyteArrayOf(vararg elements: UByte): UByteArray = elements /* The function [init] is called for each array element sequentially starting from the first one. */ It should return the value for an array element given its index. */ ^n@SinceKotlin("1.3") ^n@ExperimentalUnsignedTypes ^n@kotlin.internal.InlineOnly ^npublic inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray { /* Sets the element at the given [index] to the given [value]. This method can be called using the index operator. */ ^n*/ If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified. */ public operator fun get(index: Int): Uint = storage[index].toUInt() /* * Sets the element at the given [index] to the given [value]. This method can be called using the index operator. */ ^n*/ If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified. */ public override val size: Int get() = storage.size /* Creates an iterator over the elements of the array. */ public override operator fun iterator(): UintIterator = Iterator(storage) /* private class Iterator(private val array: IntArray): IntIterator { */ override fun contains(element: Uint): Boolean = storage.contains(element) /* Creates a new array of the specified [size], with all elements initialized to zero. */ internal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> { /* Creates a new array of the specified [size], with all elements initialized to zero. */ internal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> { */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray(size: Int, init: (Int) -> UInt): UIntArray {
    return UIntArray(IntArray(size) { index ->
        init(index).toInt()
    })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun uintArrayOf(vararg elements: UInt): UIntArray = elements

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@ExperimentalUnsignedTypes
public inline fun ULongArray(size: Int, init: (Int) -> ULong): ULongArray {
    return ULongArray(LongArray(size) { index ->
        init(index).toLong()
    })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@PublishedApi
@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
public inline class ULongArray
@PublishedApi
internal constructor(@PublishedApi internal val storage: LongArray) : Collection<ULong> {
    /** Creates a new array of the specified [size], with all elements initialized to zero. */
    public constructor(size: Int) : this(LongArray(size))

    /**
     * Returns the array element at the given [index]. This method can be called using the index operator.
     */
    public operator fun get(index: Int): ULong = storage[index].toULong()

    /**
     * Sets the element at the given [index] to the given [value].
     */
    public operator fun set(index: Int, value: ULong) {
        storage[index] = value.toLong()
    }

    /** Returns the number of elements in the array. */
    public override val size: Int get() = storage.size

    /** Creates an iterator over the elements of the array. */
    public override operator fun iterator(): ULongIterator = Iterator(storage)

    private class Iterator(private val array: LongArray) : ULongIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextULong() = if (index < array.size)
            array[index++].toULong() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: ULong): Boolean {
        return storage.contains(element.toLong())
    }

    override fun containsAll(elements: Collection<ULong>): Boolean {
        return (elements as Collection<*>).all { it is ULong && storage.contains(it.toLong()) }
    }

    override fun isEmpty(): Boolean = storage.isEmpty()
}

public inline class ULongIterator
@PublishedApi
private constructor(private val array: LongArray) : ULongIterator() {
    override fun hasNext() = index < array.size
    override fun nextULong() = if (index < array.size)
        array[index++].toULong() else throw NoSuchElementException(index.toString())
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ulongArrayOf(vararg elements: ULong): ULongArray = elements

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@ExperimentalUnsignedTypes
public inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {
    return UShortArray(ShortArray(size) { index ->
        init(index).toUShort()
    })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@PublishedApi
@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
public inline class UShortArray
@PublishedApi
internal constructor(@PublishedApi internal val storage: ShortArray) : Collection<UShort> {
    /** Creates a new array of the specified [size], with all elements initialized to zero. */
    public constructor(size: Int) : this(ShortArray(size))

    /**
     * Returns the array element at the given [index]. This method can be called using the index operator.
     */
    public operator fun get(index: Int): UShort = storage[index].toUShort()

    /**
     * Sets the element at the given [index] to the given [value].
     */
    public operator fun set(index: Int, value: UShort) {
        storage[index] = value.toShort()
    }

    /** Returns the number of elements in the array. */
    public override val size: Int get() = storage.size

    /** Creates an iterator over the elements of the array. */
    public override operator fun iterator(): UShortIterator = Iterator(storage)

    private class Iterator(private val array: ShortArray) : UShortIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextUShort() = if (index < array.size)
            array[index++].toUShort() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: UShort): Boolean {
        return storage.contains(element.toShort())
    }

    override fun containsAll(elements: Collection<UShort>): Boolean {
        return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }
    }

    override fun isEmpty(): Boolean = storage.isEmpty()
}

public inline class UShortIterator
@PublishedApi
private constructor(private val array: ShortArray) : UShortIterator() {
    override fun hasNext() = index < array.size
    override fun nextUShort() = if (index < array.size)
        array[index++].toUShort() else throw NoSuchElementException(index.toString())
}
public operator fun set(index: Int, value: UShort) { storage[index] = value.toShort() } /*
 ** Returns the number of elements in the array. */
 public override val size: Int get() = storage.size
 /** Creates an iterator over the elements of the array. */
 public override operator fun iterator(): UShortIterator = Iterator(storage)

 /** Creates an iterator over the elements of the array. */
    public override operator fun iterator(): UShortIterator = Iterator(storage)

    private class Iterator(private val array: ShortArray) : UShortIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextUShort() = if (index < array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: UShort): Boolean {
        // TODO: Eliminate this check after KT-30016 gets fixed.
        // Currently JS BE does not generate special bridge method for this method.
        if ((element as Any?) !is UShort) return false
        return storage.contains(element.toShort())
    }

    override fun containsAll(elements: Collection<UShort>): Boolean {
        return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }
    }

    override fun isEmpty(): Boolean = this.storage.size == 0
}

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * [init] function. * The function [init] is called for each array element sequentially starting from the first one.*
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {
    return UShortArray(ShortArray(size) { index -> init(index).toShort() })
}

@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ushortArrayOf(vararg elements: UShort): UShortArray = elements

```kotlin
/*
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 * and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license
 * that can be found in the license/LICENSE.txt file
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UArraysKt")
@file:kotlin.collections.

package kotlin.collections

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
@import kotlin.random.
@import kotlin.ranges.contains
@import kotlin.ranges.reversed

/**
 * Returns 1st *element* from the array.
 * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.component1(): UInt {
    return get(0)
}

/**
 * Returns 2nd *element* from the array.
 * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.component1(): ULong {
    return get(1)
}

/**
 * Returns 3rd *element* from the array.
 * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.component1(): UByte {
    return get(2)
}

/**
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.component1(): UShort {
    return get(3)
}

/**
 * Returns 5th *element* from the array.
 * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ByteArray.component1(): Byte {
    return get(4)
}

/**
 * Returns 6th *element* from the array.
 * If the size of this array is less than 6, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ByteArray.component1(): Byte {
    return get(5)
}

/**
 * Returns 7th *element* from the array.
 * If the size of this array is less than 7, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun CharArray.component1(): Char {
    return get(6)
}

```
ULongArray.component2(): ULong {n  return get(1)/n\n/**n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n*\n*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypesAn@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component2(): UByte {n  return get(1)/n\n/**n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n*\n*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypesAn@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component2(): UShort {n  return get(1)/n\n/**n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n*\n*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypesAn@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component3(): UInt {n  return get(2)/n\n/**n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n*\n*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypesAn@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component3(): UByte {n  return get(2)/n\n/**n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n*\n*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypesAn@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component3(): UShort {n  return get(2)/n\n/**n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n*\n*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypesAn@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component4(): UInt {n  return get(3)/n\n/**n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n*\n*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypesAn@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component4(): UByte {n  return get(3)/n\n/**n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n*\n*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypesAn@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component4(): UShort {n  return get(3)/n\n/**n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n*\n*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypesAn@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component5(): UInt {n  return get(4)/n\n/**n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n*\n*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypesAn@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component5(): UByte {n  return get(4)/n\n/**n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n* where the behavior is unspecified.\n
```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component5(): UByte {
    return get(4)\n}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component5(): UShort {
    return get(4)\n}

/**
 * Returns an element at the given *index* or throws an [IndexOutOfBoundsException] if the *index* is out of bounds of this array.\n* @sample samples.collections.Collections.Elements.elementAt\n
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.experimental.InlineOnly\npublic inline operator fun UIntArray.elementAt(index: Int): UInt {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}

/**
 * Returns an element at the given *index* or throws an [IndexOutOfBoundsException] if the *index* is out of bounds of this array.\n* @sample samples.collections.Collections.Elements.elementAtOrElse\n
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.experimental.InlineOnly\npublic inline operator fun ULongArray.elementAt(index: Int): ULong {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}

/**
 * Returns an element at the given *index* or calls the [defaultValue] function if the *index* is out of bounds of this array.\n* @sample samples.collections.Collections.Elements.elementAtOrNull\n
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.experimental.InlineOnly\npublic inline operator fun UByteArray.elementAt(index: Int): UByte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}

/**
 * Returns an element at the given *index* or calls the [defaultValue] function if the *index* is out of bounds of this array.\n* @sample samples.collections.Collections.Elements.elementAtOrNull\n
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.experimental.InlineOnly\npublic inline operator fun UShortArray.elementAt(index: Int): UShort {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}
```

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9661
```kotlin
UByteArray.first(): UByte {
    return storage.first().toUByte()
} // Returns first element

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.first(): UByte {
    return storage.first().toUByte()
} // Returns first element

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.first(predicate: (UByte) -> Boolean): UByte {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
} // Returns first element matching the given [predicate]

/**
 * Returns the first element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.firstOrNull(): UByte? {
    return if (isEmpty()) null else this[0]
} // Returns first element, or `null` if array is empty

/**
 * Returns the first element matching the given [predicate], or `null` if
 * element was not found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {
    for (element in this) if (predicate(element)) return element
    return null
} // Returns first element matching the given [predicate], or `null` if
```
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\na@kotlin.internal.InlineOnly\npublic inline fun UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}\n
/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\na@kotlin.internal.InlineOnly\npublic inline fun ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}\n
/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\na@kotlin.internal.InlineOnly\npublic inline fun UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}\n
/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\na@kotlin.internal.InlineOnly\npublic inline fun UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}\n
/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Elements.getOrNull
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}\n
/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Elements.getOrNull
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int): ULong? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}\n
/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Elements.getOrNull
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}\n
/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Elements.getOrNull
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int): UShort? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}\n
/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.indexOf(element: UInt): Int {
    return storage.indexOf(element.toInt())
}\n
/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
*\@SinceKotlin("1.3")\n@ ExperimentalUnsignedTypes\npublic fun ULongArray.indexOf(element: ULong): Int {
    return storage.indexOf(element.toLong())
}\n
/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.indexOf(element: UByte): Int {
    return storage.indexOf(element.toByteArray())
}\n
/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.indexOf(element: UShort): Int {
    return storage.indexOf(element.toByteArray())
}\n
/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toInt())
}\n
/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toLong())
}\n
/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toByteArray())
}\n
/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toByteArray())
}\n
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9664
```kotlin
/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfFirst {
        predicate(it.toUByte())
    }
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfFirst {
        predicate(it.toUShort())
    }
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfLast {
        predicate(it.toUByte())
    }
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfLast {
        predicate(it.toUShort())
    }
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.last(): UInt {
    return storage.last().toUInt()
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.last(): ULong {
    return storage.last().toULong()
}

/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.last(predicate: (UInt) -> Boolean): UInt {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.last(predicate: (ULong) -> Boolean): ULong {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
```

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.random(): ULong {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.random(): UByte {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.random(): UShort {
    return random(Random)
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.random(random: Random): UInt {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.random(random: Random): ULong {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.random(random: Random): UByte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.random(random: Random): UShort {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.randomOrNull(): UInt? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.randomOrNull(): ULong? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.randomOrNull(): UByte? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.randomOrNull(): UShort? {
    return randomOrNull(Random)
}
randomness, or 'null' if this array is empty.

```kotlin
public fun UShortArray.randomOrNull(random: Random): UShort? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}
```

```kotlin
/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.single(): UInt {
    return storage.single().toUInt()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.single(): ULong {
    return storage.single().toULong()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.single(): UByte {
    return storage.single().toUByte()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.single(): UShort {
    return storage.single().toUShort()
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.single(predicate: (UInt) -> Boolean): UInt {
    var single: UInt? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.
```

```kotlin
@Suppress("UNCHECKED_CAST")
    return single as UInt
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {
    var single: ULong? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.
```

```kotlin
@Suppress("UNCHECKED_CAST")
    return single as ULong
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.single(predicate: (UByte) -> Boolean): UByte {
    var single: UByte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.
```

```kotlin
@Suppress("UNCHECKED_CAST")
    return single as UByte
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.single(predicate: (UShort) -> Boolean): UShort {
    var single: UShort? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.
```

```kotlin
@Suppress("UNCHECKED_CAST")
    return single as UShort
}
```

```kotlin
/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.singleOrNull(): UInt? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.randomOrNull(random: Random): UShort? {
    return if (isEmpty())
        null
    get(random.nextInt(size))
```
UByteArray.singleOrNull(): UByte? { in return if (size == 1) this[0] else null
} UShortArray.singleOrNull(): UShort? { in return if (size == 1) this[0] else null
} UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? { in var single: UInt? = null
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
} ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? { in var single: ULong? = null
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.dropLast(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0)).toList()
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws
 * IllegalArgumentException if [n] is negative.
 * 
 * @sample
 * samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.dropLast(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0)).toList()
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws
 * IllegalArgumentException if [n] is negative.
 * 
 * @sample
 * samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.dropLast(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0)).toList()
}

/**
 * Returns a list containing all elements except last [n] elements that satisfy the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {
    var yielding = false
    var list: ArrayList<UInt> = ArrayList()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {
    var yielding = false
    var list = ArrayList<ULong>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}
/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {
    var yielding = false
    val list = ArrayList<UByte>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item))
            list.add(item)
            yielding = true
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {
    var yielding = false
    val list = ArrayList<UShort>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item))
            list.add(item)
            yielding = true
    return list
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {
    return filterTo(ArrayList<UInt>(),
            predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {
    return filterTo(ArrayList<ULong>(),
            predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {
    return filterTo(ArrayList<UByte>(),
            predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {
    return filterTo(ArrayList<UShort>(),
            predicate)
}
samples.collections.Collections.Filtering.filterIndexedTo

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\nprivate inline fun UShortArray.filterIndexedTo(predicate: (Int, UShort) -> Boolean): List<UShort> {\n    return filterIndexedTo(ArrayList<UShort>(), predicate)\n}

/**
 * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\nprivate inline fun UIntArray.filterIndexedTo(destination: UIntArray, predicate: (Int, UInt) -> Boolean): UIntArray {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}

/**
 * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\nprivate inline fun ULongArray.filterIndexedTo(destination: ULongArray, predicate: (Int, ULong) -> Boolean): ULongArray {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}

/**
 * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\nprivate inline fun UByteArray.filterIndexedTo(destination: UByteArray, predicate: (Int, UByte) -> Boolean): UByteArray {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}

/**
 * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\nprivate inline fun UShortArray.filterIndexedTo(destination: UShortArray, predicate: (Int, UShort) -> Boolean): UShortArray {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}

/**
 * Returns a list containing all elements not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\nprivate inline fun UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n    return filterNotTo(ArrayList<UInt>(), predicate)\n}

/**
 * Returns a list containing all elements not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\nprivate inline fun ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n    return filterNotTo(ArrayList<ULong>(), predicate)\n}

/**
 * Returns a list containing all elements not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\nprivate inline fun UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n    return filterNotTo(ArrayList<UByte>(), predicate)\n}

/**
 * Returns a list containing all elements not matching the given [predicate].\n * @sample samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\nprivate inline fun UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n    return filterNotTo(ArrayList<UShort>(), predicate)\n}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.slice(indices: IntRange): List<UInt> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun ULongArray.slice(indices: IntRange): List<ULong> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.slice(indices: IntRange): List<UByte> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.slice(indices: IntRange): List<UShort> {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 * 
 * @sample samples.Collections.Filtering.slice
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.slice(indices: IntRange): List<UInt> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 * 
 * @sample samples.Collections.Filtering.slice
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.slice(indices: IntRange): List<ULong> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 * 
 * @sample samples.Collections.Filtering.slice
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.slice(indices: IntRange): List<UByte> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 * 
 * @sample samples.Collections.Filtering.slice
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.slice(indices: IntRange): List<UShort> {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.slice(indices: IntRange): List<UShort> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.slice(indices: Iterable<Int>): List<UInt> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<UInt>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.slice(indices: Iterable<Int>): List<ULong> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<ULong>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.slice(indices: Iterable<Int>): List<UByte> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<UByte>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.slice(indices: Iterable<Int>): List<UShort> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<UShort>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns an array containing elements of this array at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sliceArray(indices: Collection<Int>): UIntArray {
    return UIntArray(storage.sliceArray(indices))
}

/**
 * Returns an array containing elements of this array at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sliceArray(indices: Collection<Int>): ULongArray {
    return ULongArray(storage.sliceArray(indices))
}

/**
 * Returns an array containing elements of this array at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sliceArray(indices: Collection<Int>): UByteArray {
    return UByteArray(storage.sliceArray(indices))
}

/**
 * Returns an array containing elements of this array at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sliceArray(indices: Collection<Int>): UShortArray {
    return UShortArray(storage.sliceArray(indices))
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sliceArray(indices: IntRange): UIntArray {
    return UIntArray(storage.sliceArray(indices))
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sliceArray(indices: IntRange): ULongArray {
    return ULongArray(storage.sliceArray(indices))
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sliceArray(indices: IntRange): UByteArray {
    return UByteArray(storage.sliceArray(indices))
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sliceArray(indices: IntRange): UShortArray {
    return UShortArray(storage.sliceArray(indices))
}

/**
 * Returns a list containing first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.take(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UInt>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}
a list containing first \([n]\) elements.\n * \n * @throws IllegalArgumentException if \([n]\) is negative.\n * \n * @sample samples.collections.Collections.Transformations.take

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.take(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<ULong>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns a list containing first \([n]\) elements.\n * 
 * @throws IllegalArgumentException if \([n]\) is negative.\n * 
 * @sample samples.collections.Collections.Transformations.take

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.take(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UByte>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns a list containing first \([n]\) elements.\n * 
 * @throws IllegalArgumentException if \([n]\) is negative.\n * 
 * @sample samples.collections.Collections.Transformations.take

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.take(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UShort>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns a list containing last \([n]\) elements.\n * 
 * @throws IllegalArgumentException if \([n]\) is negative.\n * 
 * @sample samples.collections.Collections.Transformations.take

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.takeLast(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<UInt>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

/**
 * Returns a list containing last \([n]\) elements.\n * 
 * @throws IllegalArgumentException if \([n]\) is negative.\n * 
 * @sample samples.collections.Collections.Transformations.take

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.takeLast(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<ULong>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

/**
 * Returns a list containing last \([n]\) elements.\n * 
 * @throws IllegalArgumentException if \([n]\) is negative.\n * 
 * @sample samples.collections.Collections.Transformations.take

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.takeLast(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<UByte>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

/**
 * Returns a list containing last \([n]\) elements.\n * 
 * @throws IllegalArgumentException if \([n]\) is negative.\n * 
 * @sample samples.collections.Collections.Transformations.take

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.takeLast(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<UShort>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

/**
 * Returns a list containing last \([n]\) elements satisfying the given \([predicate]\).\n * 
 * @sample \n * @sample samples.collections.Collections.Transformations.take

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last \([n]\) elements satisfying the given \([predicate]\).\n * 
 * @sample \n * @sample samples.collections.Collections.Transformations.take

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last \([n]\) elements satisfying the given \([predicate]\).\n * 
 * @sample \n * @sample samples.collections.Collections.Transformations.take

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last \([n]\) elements satisfying the given \([predicate]\).\n * 
 * @sample \n * @sample samples.collections.Collections.Transformations.take

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}
```

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9675
samples.collections.Collections.Transformations.take

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {
    val list = ArrayList<UInt>()
    for (item in this)
        if (!predicate(item))
            break
        list.add(item)
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {
    val list = ArrayList<ULong>()
    for (item in this)
        if (!predicate(item))
            break
        list.add(item)
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {
    val list = ArrayList<UByte>()
    for (item in this)
        if (!predicate(item))
            break
        list.add(item)
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {
    val list = ArrayList<UShort>()
    for (item in this)
        if (!predicate(item))
            break
        list.add(item)
    return list
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UIntArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun ULongArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UByteArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UShortArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements of the array in the specified range in-place.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    storage.reverse(fromIndex,
Reverses elements of the array in the specified range in-place.

Reverses elements of the array in the specified range in-place.

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Reverses elements of the array in the specified range in-place.

Reverses elements of the array in the specified range in-place.
shuffle(Random) *
Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.

*\n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.4") \n@ExperimentalUnsignedTypes \n@public fun UIntArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
} *

/**
 * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.

* \n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.4") \n@ExperimentalUnsignedTypes \n@public fun ULongArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
} *

/**
 * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.

* \n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.4") \n@ExperimentalUnsignedTypes \n@public fun UByteArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
} *

/**
 * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.

* \n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.4") \n@ExperimentalUnsignedTypes \n@public fun UShortArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
} *

/**
 * Sorts elements in the array in-place descending according to their natural sort order.

* \n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \n@public fun UIntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
} *

/**
 * Sorts elements in the array in-place descending according to their natural sort order.

* \n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \n@public fun ULongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
} *

/**
 * Sorts elements in the array in-place descending according to their natural sort order.

* \n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \n@public fun UByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
} *

/**
 * Sorts elements in the array in-place descending according to their natural sort order.

* \n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \n@public fun UShortArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
} *

/**
 * Returns a list of all elements sorted according to their natural sort order.

* \n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \n@public fun UIntArray.sorted(): List<UInt> {
    return copyOf().apply { sort() }.asList()
} *

/**
 * Returns a list of all elements sorted according to their natural sort order.

* \n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \n@public fun ULongArray.sorted(): List<ULong> {
    return copyOf().apply { sort() }.asList()
} *

/**
 * Returns a list of all elements sorted according to their natural sort order.

* \n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \n@public fun UByteArray.sorted(): List<UByte> {
    return copyOf().apply { sort() }.asList()
} *

/**
 * Returns a list of all elements sorted according to their natural sort order.

* \n* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

*\n\n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \n@public fun UShortArray.sorted(): List<UShort> {
    return copyOf().apply { sort() }.asList()
} *
if (isEmpty()) return this
    return this.copyOf().apply { sort() }\n}*/\n
/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.sortedArray(): UShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }\n}*/\n
/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public funUIntArray.sortedArrayDescending(): UIntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }\n}*/\n
/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULongArray.sortedArrayDescending(): ULongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }\n}*/\n
/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>

/**
 * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray {
    return storage
}*/\n
/**
 * Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray {
    return storage
}*/\n
/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>

/**
 * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray {
    return storage
}*/\n
/**
 * Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray {
    return storage
}*/\n
/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>

/**
 * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray {
    return storage
}*/\n
/**
 * Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray {
    return storage
}*/\n
/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>
which is a view of this array where each element is a signed reinterpretation
* of the corresponding element of this array.

 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.asShortArray(): ShortArray {
    return storage
}

/**
 * Returns an array of type [UByteArray], which is a view of this array where each element is an unsigned reinterpretation
* of the corresponding element of this array.

 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.asUByteArray(): UByteArray {
    return UByteArray(this)
}

/**
 * Returns an array of type [UIntArray], which is a view of this array where each element is an unsigned reinterpretation
* of the corresponding element of this array.

 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun IntArray.asUIntArray(): UIntArray {
    return UIntArray(this)
}

/**
 * Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation
* of the corresponding element of this array.

 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun LongArray.asULongArray(): ULongArray {
    return ULongArray(this)
}

/**
 * Returns an array of type [UShortArray], which is a view of this array where each element is an unsigned reinterpretation
* of the corresponding element of this array.

 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ShortArray.asUShortArray(): UShortArray {
    return UShortArray(this)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,\n* i.e. contain the same number of the same elements in the same order.\n
 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun UIntArray.contentEquals(other: UIntArray): Boolean {
    return this.contentEquals(other)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,\n* i.e. contain the same number of the same elements in the same order.\n
 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun ULongArray.contentEquals(other: ULongArray): Boolean {
    return this.contentEquals(other)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,\n* i.e. contain the same number of the same elements in the same order.\n
 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun UByteArray.contentEquals(other: UByteArray): Boolean {
    return this.contentEquals(other)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,\n* i.e. contain the same number of the same elements in the same order.\n
 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun UShortArray.contentEquals(other: UShortArray): Boolean {
    return this.contentEquals(other)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,\n* i.e. contain the same number of the same elements in the same order.\n
 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun UIntArray?.contentEquals(other: UIntArray?): Boolean {
    return this?.storage.contentEquals(other?.storage)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,\n* i.e. contain the same number of the same elements in the same order.\n
 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun ULongArray?.contentEquals(other: ULongArray?): Boolean {
    return this?.storage.contentEquals(other?.storage)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,\n* i.e. contain the same number of the same elements in the same order.\n
 */

@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun UByteArray?.contentEquals(other: UByteArray?): Boolean {
    return this?.storage.contentEquals(other?.storage)
}
two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

```kotlin
UShortArray?.contentEquals(other: UShortArray?): Boolean {
    return this?.storage.contentEquals(other?.storage)
}
```

Returns a hash code based on the contents of this array as if it is [List].

```kotlin
UIntArray?.contentHashCode(): Int {
    return this?.storage.contentHashCode()
}
```

Returns a hash code based on the contents of this array as if it is [List].

```kotlin
UIntArray?.contentToString(): String {
    return this?.storage.contentToString()
}
```

Returns a string representation of the contents of the specified array as if it is [List].
this.contentToString() return this?.joinToString(",", "[", "]") ?: "null"

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes@public fun UIntArray?.contentToString(): String {
return this?.joinToString(", ", "[", "]") ?: "null"
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes@public fun ULongArray?.contentToString(): String {
return this?.joinToString(", ", "[", "]") ?: "null"
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes@public fun UByteArray?.contentToString(): String {
return this?.joinToString(", ", "[", "]") ?: "null"
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes@public fun UShortArray?.contentToString(): String {
return this?.joinToString(", ", "[", "]") ?: "null"
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to, 0 by default.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UIntArray {
storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
ULongArray {
storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {
storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UShortArray {
storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
return destination
}
out of the [destination] array indices range.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    \n}

/**
 * @return the \[destination\] array.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    \n}

/**
 * @return the \[destination\] array.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    \n}

/**
 * @return the \[destination\] array.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    \n}

/**
 * @return the \[destination\] array.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    \n}

/**
 * @return the \[destination\] array.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    \n}

/**
 * @return the \[destination\] array.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    \n}
truncated or padded at the end with zero values if necessary.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.copyOf(newSize: Int): UShortArray {
    return UShortArray(storage.copyOf(newSize))
}

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {
    return UShortArray(storage.copyOfRange(fromIndex, toIndex))
}
```

```kotlin
/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {
    return UShortArray(storage.copyOfRange(fromIndex, toIndex))
}
```
Fills this array or its subrange with the specified [element] value.

@throws IllegalArgumentException if \( \text{fromIndex} \) is greater than \( \text{toIndex} \).

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toByte(), fromIndex, toIndex)
}
```

Fills this array or its subrange with the specified \( \text{element} \) value.

@throws IndexOutOfBoundsException if \( \text{fromIndex} \) is less than zero or \( \text{toIndex} \) is greater than the size of this array.

@throws IllegalArgumentException if \( \text{fromIndex} \) is greater than \( \text{toIndex} \).

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toShort(), fromIndex, toIndex)
}
```

Returns the range of valid indices for the array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UIntArray.indices: IntRange
    get() = storage.indices

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val ULongArray.indices: IntRange
    get() = storage.indices

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UByteArray.indices: IntRange
    get() = storage.indices

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UShortArray.indices: IntRange
    get() = storage.indices
```

Returns the last valid index for the array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UIntArray.lastIndex: Int
    get() = storage.lastIndex

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val ULongArray.lastIndex: Int
    get() = storage.lastIndex

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UByteArray.lastIndex: Int
    get() = storage.lastIndex

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UShortArray.lastIndex: Int
    get() = storage.lastIndex
```

The [element] is added to the end of this array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.plus(element: UInt): UIntArray {
    return UIntArray(storage + element.toInt())
}
```

The [elements] are added to the end of this array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public operator fun UIntArray.plus(elements: Collection<UInt>): UIntArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toInt()
    return UIntArray(result)
}
```

The [elements] are added to the end of this array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public operator fun ULongArray.plus(elements: Collection<ULong>): ULongArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toLong()
    return ULongArray(result)
}
```

The [elements] are added to the end of this array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toByte()
    return UByteArray(result)
}
```

The [elements] are added to the end of this array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public operator fun UShortArray.plus(elements: Collection<UShort>): UShortArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toShort()
    return UShortArray(result)
}
```
storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toByte()
    return UByteArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {
    return UShortArray(storage + elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.plus(elements: UByteArray): UByteArray {
    return UByteArray(storage + elements.storage)
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sort(): Unit {
    sortArray(this, 0, size)
}

/**
 * Sorts a range in the array in-place.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArray
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    sortArray(this, fromIndex, toIndex)
}

/**
 * Sorts a range in the array in-place.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArray
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    sortArray(this, fromIndex, toIndex)
}

/**
 * Sorts a range in the array in-place.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArray
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    sortArray(this, fromIndex, toIndex)
}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.toShortArray(): ShortArray {
    return storage.copyOf()}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.toTypedArray(): Array<UInt>
{
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.toTypedArray(): Array<ULong> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.toTypedArray(): Array<UByte> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.toTypedArray(): Array<UShort> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns an array of UByte containing all of the elements of this generic array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Array<out UByte>.toUByteArray(): UByteArray {
    return UByteArray(size) { index -> this[index] }
}

/**
 * Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ByteArray.toUByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of UInt containing all of the elements of this generic array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Array<out UInt>.toUIntArray(): UIntArray {
    return UIntArray(size) { index -> this[index] }
}

/**
 * Returns an array of type [UIntArray], which is a copy of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
IntArray.toUIntArray(): UIntArray {
    return UIntArray(this.copyOf())
}

/**
 * Returns an array of ULong containing all of the elements of this generic array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Array<out ULong>.toULongArray(): ULongArray {
    return ULongArray(size) { index -> this[index] }
}

/**
 * Returns an array of type [ULongArray], which is a copy of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ShortArray.toUShortArray(): UShortArray {
    return UShortArray(this.copyOf())
}

/**
 * Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to
each element.
 * If any two elements are equal, the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 * @sample
 * samples.collections.Collections.Transformations.associateWith
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {
    val result = LinkedHashMap<UInt, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}
returned map preserves the entry iteration order of the original array.

@sample
samples.collections.Collections.Transformations.associateWith

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong, V>
{ val result = LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector) }

@SinceKotlin("1.4")
@Experimenta...
invoked on each element of original array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public inline fun <R> UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.flatMapIndexed(transform: (index: Int, UInt) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.flatMapIndexed(transform: (index: Int, ULong) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.flatMapIndexed(transform: (index: Int, UByte) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) -> Iterable<R>){
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element * and its index in the original array, to the given [destination].
 */
@SinceKotlin("1.4") fn@OptIn(kotlin.experimental.ExperimentalTypeInference::class) fn@OverloadResolution
ByLambdaReturnType fn@ExperimentalUnsignedTypes fn@kotlin.internal.InlineOnly fn private inline fun <R, C : MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination: C, transform: (index: Int, ULong) -> Iterable<R>){
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element * and its index in the original array, to the given [destination].
 */
@SinceKotlin("1.4") fn@OptIn(kotlin.experimental.ExperimentalTypeInference::class) fn@OverloadResolution
ByLambdaReturnType fn@ExperimentalUnsignedTypes fn@kotlin.internal.InlineOnly fn private inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) -> Iterable<R>){
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element * and its index in the original array, to the given [destination].
 */
@SinceKotlin("1.4") fn@OptIn(kotlin.experimental.ExperimentalTypeInference::class) fn@OverloadResolution
ByLambdaReturnType fn@ExperimentalUnsignedTypes fn@kotlin.internal.InlineOnly fn private inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) -> Iterable<R>){
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and returns a map where each group key is associated with a list of corresponding elements.
 */
@SinceKotlin("1.3") fn@ExperimentalUnsignedTypes fn@kotlin.internal.InlineOnly fn private inline fun <K>
UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> { return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> { return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> { return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> { return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> { return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> { return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> { return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> { return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> { return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> { return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> { return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> { return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> { return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.

UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> { return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector) } * Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and returns a map where each group key is associated with a list of corresponding elements.

The returned map preserves the entry iteration order of the keys produced from the original array.
produced from the original array.

```kotlin
public inline fun <K, V, M : MutableMap<in K, MutableList<in V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<in V>()
        }
        list.add(valueTransform(element))
    }
    return destination
}
```

```kotlin
public inline fun <K, M : MutableMap<in K, MutableList<in V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<in V>()
        }
        list.add(valueTransform(element))
    }
    return destination
}
```

```kotlin
public inline fun <K, M : MutableMap<in K, MutableList<in V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<in V>()
        }
        list.add(valueTransform(element))
    }
    return destination
}
```

```kotlin
public inline fun <K, M : MutableMap<in K, MutableList<in V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K, valueTransform: (UByte) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<in V>()
        }
        list.add(valueTransform(element))
    }
    return destination
}
```

```kotlin
public inline fun <K, M : MutableMap<in K, MutableList<in V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<in V>()
        }
        list.add(valueTransform(element))
    }
    return destination
}
```

```kotlin
public inline fun <K, V> UShortArray.groupByTo(destination: Map<K, List<V>>, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform) { fn } { * * } * * *
```
= destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination\n}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
 * [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n */
@sample samples.collections.Collections.Transformations.groupByKeysAndValues

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
 * [destination] map each group key associated with a list of corresponding values.\n */
@sample samples.collections.Collections.Transformations.groupbyKeysAndValues
mapIndexedTo(ArrayList<R>(size), transform)\n\nReturns a list containing the results of applying the given [transform] function\n\n* to each element and its index in the original array.\n\n* @param [transform] function\n\nthat takes the index of an element and the element itself\n\n* and returns the result of the transform applied to the element.\n\n* @SinceKotlin("1.3.\")\n
@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <R> UShortArray.mapIndexedTo(transform: (index: Int, UShort) -> R): List<R> \nreturn\nmapIndexedTo(ArrayList<R>(size), transform)\n\nApplies the given [transform] function to each element and its index in the original array\n\n* and returns the result of the transform applied to the element.\n\n* @SinceKotlin("1.3.\")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <R, C :\n\nMutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C \n\nreturn\ndestination.mapIndexed(transform)\n\nApplies the given [transform] function to each element and its index in the original array\n\n* and returns the result of the transform applied to the element.\n\n* @SinceKotlin("1.3.\")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <R, C :\n\nMutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C \n\nreturn\ndestination.mapIndexed(transform)\n\nApplies the given [transform] function to each element and its index in the original array\n\n* and returns the result of the transform applied to the element.\n\n* @SinceKotlin("1.3.\")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <R, C :\n\nMutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C \n\nreturn\ndestination.mapIndexed(transform)\n\nApplies the given [transform] function to each element and its index in the original array\n\n* and returns the result of the transform applied to the element.\n\n* @SinceKotlin("1.3.\")\n\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <R, C :\n\nMutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C \n\nreturn\ndestination.mapIndexed(transform)\n\nApplies the given [transform] function to each element and its index in the original array\n\n* and returns the result of the transform applied to the element.\n
Iterable<IndexedValue<Int>> { return IndexingIterable { iterator() } }

/**
 * Returns a lazy [Iterable] that wraps each element of the original array
 * into an [IndexedValue] containing the index of that element and the
 * element itself.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.withIndex():
    return IndexingIterable { iterator() }
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.any(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.any(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns the number of elements matching the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.countWithPredicate
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.count(predicate: (UInt) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given
 * [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given
 * [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given
 * [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Accumulates value starting with [initial] value and applying
 * [operation] from left to right until a specified [initial] value is reached.
 * 
 * @sample samples.collections.Collections.Aggregates.foldWithInitial
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * until a specified [initial] value is reached.
 * 
 * @sample samples.collections.Collections.Aggregates.foldWithInitial
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * until a specified [initial] value is reached.
 * 
 * @sample samples.collections.Collections.Aggregates.foldWithInitial
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * until a specified [initial] value is reached.
 * 
 * @sample samples.collections.Collections.Aggregates.foldWithInitial
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldIndexed(initial: R, operation: (R, R) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.foldIndexed(initial: R, operation: (R, R) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element and current accumulator value.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.foldRight(initial: R, operation: (R, ULong) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element and current accumulator value.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldRight(initial: R, operation: (R, ULong) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element and current accumulator value.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.foldRight(initial: R, operation: (R, UByte) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
public inline fun <R> UShortArray.foldRight(index: Int, operation: (Int, UShort, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with 
 * the specified [initial] value if 
 * the array is empty.
 * @param [operation] function that takes 
 * the index of an element, 
 * the element itself
 * and current accumulator value, 
 * and calculates the next 
 * accumulator value.
 */
public inline fun <R> UShortArray.foldRightIndexed(index: Int, operation: (Int, UShort, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with 
 * the specified [initial] value if 
 * the array is empty.
 * @param [operation] function that takes 
 * the index of an element, 
 * the element itself
 * and current accumulator value, 
 * and calculates the next 
 * accumulator value.
 */
public inline fun <R> UByteArray.foldRightIndexed(index: Int, operation: (Int, UByte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Performs the given 
 * function on each element.
 */
public inline fun UIntArray.forEach(action: (UInt) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given 
 * function on each element.
 */
public inline fun ULongArray.forEach(action: (ULong) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given 
 * function on each element.
 */
public inline fun UByteArray.forEach(action: (UByte) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given 
 * function on each element.
 */
public inline fun UShortArray.forEach(action: (UShort) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given 
 * function on each element, 
 * providing sequential index with 
 * the element.
 * @param [action] function that takes 
 * the index of an element and the 
 * element itself
 * and performs the action on the element.
 */
public inline fun ULongArray.eachIndexed(index: Int, action: (Int, ULong) -> Unit): Unit {
    for (element in this) action(index, element)
}

/**
 * Performs the given 
 * function on each element, 
 * providing sequential index with 
 * the element.
 * @param [action] function that takes 
 * the index of an element and the 
 * element itself
 * and performs the action on the element.
 */
public inline fun UByteArray.eachIndexed(index: Int, action: (Int, UByte) -> Unit): Unit {
    for (element in this) action(index, element)
}

/**
 * Performs the given 
 * function on each element, 
 * providing sequential index with 
 * the element.
 * @param [action] function that takes 
 * the index of an element and the 
 * element itself
 * and performs the action on the element.
 */
public inline fun UShortArray.eachIndexed(index: Int, action: (Int, UShort) -> Unit): Unit {
    for (element in this) action(index, element)
}

/**
 * Performs the given 
 * function on each element.
 */
public inline fun UIntArray.forEachIndexed(index: Int, action: (Int, UInt) -> Unit): Unit {
    for (element in this) action(index, element)
}

/**
 * Performs the given 
 * function on each element.
 */
public inline fun UByteArray.forEachIndexed(index: Int, action: (Int, UByte) -> Unit): Unit {
    for (element in this) action(index, element)
}

/**
 * Performs the given 
 * function on each element.
 */
public inline fun UShortArray.forEachIndexed(index: Int, action: (Int, UShort) -> Unit): Unit {
    for (element in this) action(index, element)
}
**Illustrative:**

*An@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly

*public inline fun

*UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with
 * the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

*ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with
 * the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

*UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with
 * the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

*UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with
 * the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

*UIntArray.max(): UInt? {
    return maxOrNull()
}

/**
 * Performs the given [action] on each element, providing sequential index with
 * the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

*ULongArray.max(): ULong? {
    return maxOrNull()
}

/**
 * Performs the given [action] on each element, providing sequential index with
 * the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

*UByteArray.max(): UByte? {
    return maxOrNull()
}

/**
 * Performs the given [action] on each element, providing sequential index with
 * the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

*UShortArray.max(): UShort? {
    return maxOrNull()
}

/**
 * Returns the first element yielding the largest value of the given function or
 * `null` if there are no elements.
 * @param [selector] function that takes an element and returns its value.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

<Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {
    if (isEmpty()) return null
    var
maxElem = this[0]
val lastIndex = this.lastIndex
if (lastIndex == 0) return maxElem

var maxVal = selector(maxElem)
for (i in 1..lastIndex) {
    val e = this[i]
    val v = selector(e)
    if (maxVal < v) {
        maxElem = e
        maxVal = v
    }
}
return maxElem

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * 
 * @since SinceKotlin("1.4")
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ULongArray.maxByOrNull(selector: (ULong) -> R): ULong? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxVal = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxVal < v) {
            maxElem = e
            maxVal = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * 
 * @since SinceKotlin("1.4")
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.maxByOrNull(selector: (UByte) -> R): UByte? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxVal = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxVal < v) {
            maxElem = e
            maxVal = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * 
 * @since SinceKotlin("1.4")
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.maxByOrNull(selector: (UShort) -> R): UShort? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxVal = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxVal < v) {
            maxElem = e
            maxVal = v
        }
    }
    return maxElem
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array.
 * 
 * @since SinceKotlin("1.4")
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.maxOf(selector: (UInt) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array.
 * 
 * @since SinceKotlin("1.4")
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.maxOf(selector: (ULong) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array.
 * 
 * @since SinceKotlin("1.4")
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.maxOf(selector: (UByte) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array.
 * 
 * @since SinceKotlin("1.4")
 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.maxOf(selector: (UShort) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

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@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.maxOf(selector: (UShort) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.maxOf(selector: (UInt) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.maxOf(selector: (ULong) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.maxOf(selector: (UByte) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ULongArray.maxOf(selector: (ULong) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.maxOf(selector: (UByte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}
Returns the largest value among all values produced by [selector] function\n* applied to each element in the
array.\n* @throws NoSuchElementException if the array is empty.\n
*\n* \n
 by LambdaReturn Type\n*\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution\n* @LambdaReturnType\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
UByteArray.maxOf(selector: (UByte) -> R): R \nif (isEMPTY()) throw
NoSuchElementException()\nvar max\nvalue = selector(this[0])\nfor (i in 1..lastIndex) \nvar max =
selector(this[i])\nif (max > max) {\n max = max\n }\n\n
 By LambdaReturn Type\n*\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
UShortArray.maxOf(selector: (UShort) -> R): R \nif (isEMPTY()) throw
NoSuchElementException()\nvar max\nvalue = selector(this[0])\nfor (i in 1..lastIndex) \nvar max =
selector(this[i])\nif (max > max) {\n max = max\n }\n\n
 By LambdaReturn Type\n*\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? \nif (isEMPTY()) return null\nvar max\nvalue = selector(this[0])\nfor (i in 1..lastIndex) \nvar max =
selector(this[i])\nif (max > max) {\n max = max\n }\n\n
 By LambdaReturn Type\n*\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
ULongArray.maxOfOrNull(selector: (ULong) -> Double): Double? \nif (isEMPTY()) return null\nvar max\nvalue = selector(this[0])\nfor (i in 1..lastIndex) \nvar max =
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UByteArray.maxOfOrNull(selector: (UByte) -> Double): Double? \nif (isEMPTY()) return null\nvar max\nvalue = selector(this[0])\nfor (i in 1..lastIndex) \nvar max =
selector(this[i])\nif (max > max) {\n max = max\n }\n\n
 By LambdaReturn Type\n*\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
UShortArray.maxOfOrNull(selector: (UShort) -> Double): Double? \nif (isEMPTY()) return null\nvar max\nvalue = selector(this[0])\nfor (i in 1..lastIndex) \nvar max =
selector(this[i])\nif (max > max) {\n max = max\n }\n\n
 By LambdaReturn Type\n*\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
UIntArray.maxOfOrNull(selector: (UInt) -> Float): Float? \nif (isEMPTY()) return null\nvar max\nvalue =
selector(this[0])\nfor (i in 1..lastIndex) \nvar max =
selector(this[i])\nif (max > max) {
selector(this[0]) for (i in 1...lastIndex) { val v = selector(this[i]) val maxValue = maxOf(maxValue, v)
    return maxValue }
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun ULongArray.maxOfOrNull(selector: (ULong) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0]) for (i in 1...lastIndex) { val v = selector(this[i]) val maxValue = maxOf(maxValue, v)
    return maxValue }
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
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@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
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public inline fun UByteArray.maxOfOrNull(selector: (UByte) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0]) for (i in 1...lastIndex) { val v = selector(this[i]) val maxValue = maxOf(maxValue, v)
    return maxValue }
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.maxOfOrNull(selector: (UShort) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0]) for (i in 1...lastIndex) { val v = selector(this[i]) val maxValue = maxOf(maxValue, v)
    return maxValue }
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UIntArray.maxOfOrNull(selector: (UInt) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0]) for (i in 1...lastIndex) { val v = selector(this[i]) if (maxValue < v) {
    maxValue = v
    }
    return maxValue }
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ULongArray.maxOfOrNull(selector: (ULong) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0]) for (i in 1...lastIndex) { val v = selector(this[i]) if (maxValue < v) {
    maxValue = v
    }
    return maxValue }
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
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public inline fun <R : Comparable<R>> UByteArray.maxOfOrNull(selector: (UByte) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0]) for (i in 1...lastIndex) { val v = selector(this[i]) if (maxValue < v) {
    maxValue = v
    }
    return maxValue }
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.maxOfOrNull(selector: (UShort) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0]) for (i in 1...lastIndex) { val v = selector(this[i]) if (maxValue < v) {
    maxValue = v
    }
    return maxValue }
}
@Throws(NoSuchElementException) if the array is empty.

```kotlin
public inline fun <R>
UIntArray.maxOfWith(comparator: Comparator<R>, selector: (UInt) -> R): R {
    if (isEmpty()) throw
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) { maxValue = v
            } return
    }
    return maxValue
}
```

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

```kotlin
public inline fun <R>
ULongArray.maxOfWith(comparator: Comparator<R>, selector: (ULong) -> R): R {
    if (isEmpty()) throw
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) { maxValue = v
            } return
    }
    return maxValue
}
```

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

```kotlin
public inline fun <R>
UByteArray.maxOfWith(comparator: Comparator<R>, selector: (UByte) -> R): R {
    if (isEmpty()) throw
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) { maxValue = v
            } return
    }
    return maxValue
}
```

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

```kotlin
public inline fun <R>
UShortArray.maxOfWith(comparator: Comparator<R>, selector: (UShort) -> R): R {
    if (isEmpty()) throw
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) { maxValue = v
            } return
    }
    return maxValue
}
```

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

```kotlin
public inline fun <R>
UIntArray.maxOfWithOrNull(comparator: Comparator<R>, selector: (UInt) -> R): R? {
    if (isEmpty()) return
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) { maxValue = v
            } return
    }
    return maxValue
}
```

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

```kotlin
public inline fun <R>
ULongArray.maxOfWithOrNull(comparator: Comparator<R>, selector: (ULong) -> R): R? {
    if (isEmpty()) return
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) { maxValue = v
            } return
    }
    return maxValue
}
```

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

```kotlin
public inline fun <R>
UByteArray.maxOfWithOrNull(comparator: Comparator<R>, selector: (UByte) -> R): R? {
    if (isEmpty()) return
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) { maxValue = v
            } return
    }
    return maxValue
}
```

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

```kotlin
public inline fun <R>
UShortArray.maxOfWithOrNull(comparator: Comparator<R>, selector: (UShort) -> R): R? {
    if (isEmpty()) return
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) { maxValue = v
            } return
    }
    return maxValue
}
```
UByteArray.maxOfOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {
    if (isNullOrEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * @since Kotlin("1.4")
 * @optIn(kotlin.experimental.ExperimentalTypeInference::class)
 * @overloadResolution ByLambdaReturnType
 * @experimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * @public fun UByteArray.maxOfOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {
    if (isNullOrEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector]
 * function applied to each element in the array or `null` if there are no elements.
 * @since Kotlin("1.4")
 * @optIn(kotlin.experimental.ExperimentalTypeInference::class)
 * @overloadResolution ByLambdaReturnType
 * @experimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public fun UShortArray.maxOfOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {
    if (isNullOrEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest element or `null` if there are no elements.
 * @since Kotlin("1.4")
 * @optIn(kotlin.experimental.ExperimentalTypeInference::class)
 * @overloadResolution ByLambdaReturnType
 * @experimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun <R>
 * UByteArray.maxOfOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {
    if (isNullOrEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest element or `null` if there are no elements.
 * @since Kotlin("1.4")
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 * public inline fun <R>
 * UShortArray.maxOfOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {
    if (isNullOrEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

@deprecated("Use maxWithOrNull instead.",
    replaceWith("maxWithOrNull(comparator)"))
@deprecatedSinceKotlin(warningSince = "1.4")
@sinceKotlin("1.3")
@optIn(kotlin.experimental.ExperimentalTypeInference::class)
@overloadResolution ByLambdaReturnType
@experimentalUnsignedTypes
@kotlin.experimental.InlineOnly
@public fun UIntArray.maxWithOrNull(comparator: Comparator<in UInt>): UInt? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        if (comparator.compare(max, this[i]) < 0) max = this[i]
    }
    return max
}

@deprecated("Use maxWithOrNull instead.",
    replaceWith("maxWithOrNull(comparator)"))
@deprecatedSinceKotlin(warningSince = "1.4")
@sinceKotlin("1.3")
@optIn(kotlin.experimental.ExperimentalTypeInference::class)
@overloadResolution ByLambdaReturnType
@experimentalUnsignedTypes
@kotlin.experimental.InlineOnly
@public fun ULongArray.maxWithOrNull(comparator: Comparator<in ULong>): ULong? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        if (comparator.compare(max, this[i]) < 0) max = this[i]
    }
    return max
}

@deprecated("Use maxWithOrNull instead.",
    replaceWith("maxWithOrNull(comparator)"))
@deprecatedSinceKotlin(warningSince = "1.4")
@sinceKotlin("1.3")
@optIn(kotlin.experimental.ExperimentalTypeInference::class)
@overloadResolution ByLambdaReturnType
@experimentalUnsignedTypes
@kotlin.experimental.InlineOnly
@public fun UByteArray.maxWithOrNull(comparator: Comparator<in UByte>): UByte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        if (comparator.compare(max, this[i]) < 0) max = this[i]
    }
    return max
}

@deprecated("Use maxWithOrNull instead.",
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@optIn(kotlin.experimental.ExperimentalTypeInference::class)
@overloadResolution ByLambdaReturnType
@experimentalUnsignedTypes
@kotlin.experimental.InlineOnly
@public fun UShortArray.maxWithOrNull(comparator: Comparator<in UShort>): UShort? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        if (comparator.compare(max, this[i]) < 0) max = this[i]
    }
    return max
}
val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.maxWithOrNull(comparator: Comparator<in UShort>): UShort? {
    val max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.min(): UInt? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.min(): UByte? {
    val max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
samples.collections.Collections.Aggregates.minByOrNull

```kotlin
fun minByOrNull(selector: (T) -> R): T? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = minOf(minValue, selector(minElem))
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}
```

The function `minByOrNull` returns the first element yielding the smallest value of the given function or `null` if there are no elements.

```
fun minOf(selector: (T) -> R): T {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

The `minOf` function returns the smallest value among all values produced by `selector` function applied to each element in the array.

```kotlin
fun minOf(selector: (T) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

The `minOf` function returns the smallest value among all values produced by `selector` function applied to each element in the array.
minOf(minValue, v) | return minValue

* Returns the smallest value among all values produced by [selector] function

Any if any of values produced by [selector] function is 'NaN', the returned result is 'NaN'.

Any * Any * @throws NoSuchElementException if the array is empty.

Any@SinceKotlin('1.4')@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution

ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly

public inline fun

ULongArray.minOf(selector: (ULong) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * Any * Any * If any of values produced by [selector] function is 'NaN', the returned result is 'NaN'.
 * Any * Any * @throws NoSuchElementException if the array is empty.

Any@SinceKotlin('1.4')@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution

ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly

public inline fun

UByteArray.minOf(selector: (UByte) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * Any * Any * @throws NoSuchElementException if the array is empty.

Any@SinceKotlin('1.4')@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution

ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly

public inline fun

UShortArray.minOf(selector: (UShort) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * Any * Any * @throws NoSuchElementException if the array is empty.

Any@SinceKotlin('1.4')@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution

ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly

public inline fun

UIntArray.minOf(selector: (UInt) -> Comparable): Comparable {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * Any * Any * @throws NoSuchElementException if the array is empty.

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    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
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    }
    return minValue
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 * Returns the smallest value among all values produced by [selector] function
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 * applied to each element in the array.
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UShortArray.minOf(selector: (UShort) -> Comparable): Comparable {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@n publicity inline fun
UByteArray.minOfOrBeNull(selector: (UByte) -> Float): Float? {\n    if (isEmpty()) return null
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v
        }\n    }\n    return minValue\n\n    * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n\n* \n\n* @SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes
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@n publicity inline fun
UShortArray.minOfOrBeNull(selector: (UShort) -> Float): Float? {\n    if (isEmpty()) return null
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v
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ByLambdaReturnType\n@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@n publicity inline fun
UIntArray.minOfOrNull(selector: (UInt) -> R?): R? {\n    if (isEmpty()) return null
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v
        }\n    }\n    return minValue
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@kotlin.internal.InlineOnly
@n publicity inline fun
UIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v
        }\n    }\n    return minValue
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UShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v
        }\n    }\n    return minValue
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        }\n    }\n    return minValue
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        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@TypeInferenceByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
    UByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@TypeInferenceByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
    UShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

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 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
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            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@TypeInferenceByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
    ULongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@TypeInferenceByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.minOrNull(): UInt? {
    if
isEmpty()) return null
var min = this[0] for (i in 1..lastIndex) {
val e = this[i]
if (min > e) min = e
}
return min

*An@SinceKotlin("1.4")@ExperimentalUnsignedTypes@public fun ULongArray.minOrNull(): ULong? {
    if (isEmpty()) return null
    var min = this[0] for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min

*An@SinceKotlin("1.4")@ExperimentalUnsignedTypes@public fun UByteArray.minOrNull(): UByte? {
    if (isEmpty()) return null
    var min = this[0] for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min

*An@SinceKotlin("1.4")@ExperimentalUnsignedTypes@public fun UShortArray.minOrNull(): UShort? {
    if (isEmpty()) return null
    var min = this[0] for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min

/**
 * Returns the smallest element or ‘null’ if there are no elements.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UIntArray.minWithOrNull(comparator: Comparator<in UInt>): UInt? {
    return minWithOrNull(comparator)
}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun ULongArray.minWithOrNull(comparator: Comparator<in ULong>): ULong? {
    return minWithOrNull(comparator)
}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UByteArray.minWithOrNull(comparator: Comparator<in UByte>): UByte? {
    return minWithOrNull(comparator)
}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray.minWithOrNull(comparator: Comparator<in UShort>): UShort? {
    return minWithOrNull(comparator)
}

/**
 * Returns `true` if the array has no elements.
 */
@sample samples.collections
public @internal inline fun UIntArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@sample samples.collections
public @internal inline fun ULongArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@sample samples.collections
public @internal inline fun UByteArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@sample samples.collections
public @internal inline func UShortArray none() {
    return isEmpty()
}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.none(): Boolean {
    return isEmpty()<br/>
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none<br/>
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.none(): Boolean {
    return isEmpty()<br/>
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate<br/>
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.none(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false<br/>
    return true<br/>
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate<br/>
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.none(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false<br/>
    return true<br/>
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate<br/>
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.none(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false<br/>
    return true<br/>
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate<br/>
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.none(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false<br/>
    return true<br/>
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.<br/>
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.<br/>
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.onEachIndexed(action: (Int, UInt) -> Unit): UIntArray {
    return apply { forEachIndexed(action) }<br/>
}

/**
 * Performs the given [action] on each element, providing sequential index with the element,<br/>
 * and returns the array itself afterwards.<br/>
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.<br/>
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.onEachIndexed(action: (Int, ULong) -> Unit): ULongArray {
    return apply { forEachIndexed(action) }<br/>
}

/**
 * Performs the given [action] on each element, providing sequential index with the element,<br/>
 * and returns the array itself afterwards.<br/>
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.<br/>
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.onEachIndexed(action: (Int, UByte) -> Unit): UByteArray {
    return apply { forEachIndexed(action) }<br/>
}

/**
 * Performs the given [action] on each element, providing sequential index with the element,<br/>
 * and returns the array itself afterwards.<br/>
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.<br/>
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.onEachIndexed(action: (Int, UShort) -> Unit): UShortArray {
    return apply { forEachIndexed(action) }<br/>
}
with the element, and returns the array itself afterwards.

@sinceKotlin("1.4")
@ExperimentalUnsignedTypes
@intrafn public inline fun

UShortArray.onEachIndexed(action: (Int, UShort) -> Unit): UShortArray {
    return apply {
        forEachIndexed(action)
    }
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceOrNew] instead. It returns `null` when its receiver is empty.
 * and calculates the next accumulator value.
 * @sinceKotlin("1.3")
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@sinceKotlin("1.3")
@ExperimentalUnsignedTypes
@intrafn public inline fun

UIntArray.reduceIndexed(operation: (Int, acc: UInt, UInt) -> UInt): UInt {
    return accumulate { index, accumulator, acc ->
        accumulator = operation(acc, this[index], acc)
    }
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceOrNew] instead. It returns `null` when its receiver is empty.
 * and calculates the next accumulator value.
 * @sinceKotlin("1.3")
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@sinceKotlin("1.3")
@ExperimentalUnsignedTypes
@intrafn public inline fun

UByteArray.reduceIndexed(operation: (Int, acc: UByte, UByte) -> UByte): UByte {
    return accumulate { index, accumulator, acc ->
        accumulator = operation(acc, this[index], acc)
    }
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceOrNew] instead. It returns `null` when its receiver is empty.
 * and calculates the next accumulator value.
 * @sinceKotlin("1.3")
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@sinceKotlin("1.3")
@ExperimentalUnsignedTypes
@intrafn public inline fun

    return accumulate { index, accumulator, acc ->
        accumulator = operation(acc, this[index], acc)
    }
}
UnsupportedOperationException("Empty array can't be reduced.")
var accumulator = this[0]
for (index in 1..lastIndex) {
    accumulator = operation(index, accumulator, this[index])
}
return accumulator

* Accumulates value starting with the first element and applying [operation] from left to right
  * to current accumulator value and each element with its index in the original array.
  * Throws an exception if this array is empty. If the array can be empty in an expected way,
  * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
  * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
  * and calculates the next accumulator value.
  * @sample samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reduceIndexedOrNull(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceIndexedOrNull(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
operation(index, accumulator, this[index])
}

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceIndexedOrNull(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(index, accumulator, this[index])
    return accumulator
}

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(index, accumulator, this[index])
    return accumulator
}

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(accumulator, this[index])
    return accumulator
}

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) -> ULong): ULong? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(accumulator, this[index])
    return accumulator
}

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) -> UByte): UByte? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(accumulator, this[index])
    return accumulator
}

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(accumulator, this[index])
    return accumulator
}

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) -> UByte): UByte? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(accumulator, this[index])
    return accumulator
}

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
function that takes an element and current accumulator value, \( n \) * and calculates the next accumulator value, \( n \) *

```kotlin
public inline fun
```

### `reduceRightIndexed`<br>
`Array.reduceRightIndexed`<br>Applies an operation to each element, its index and the current accumulator value. Returns an accumulator value if there is no exception.

```kotlin
public inline fun
```

### `reduceRightIndexedOrNull`<br>
`Array.reduceRightIndexedOrNull`<br>Contains the same functionality as `reduceRightIndexed` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrNull`<br>
`Array.reduceRightOrNull`<br>Contains the same functionality as `reduceRight` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrNullOrNull`<br>`Array.reduceRightOrNullOrNull`<br>Contains the same functionality as `reduceRightOrNull` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrNull`<br>`Array.reduceRightOrNull`<br>Contains the same functionality as `reduceRight` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOr`<br>`Array.reduceRightOr`<br>Creates a function that applies the operation to each element, its index and the current accumulator value. Returns an accumulator value if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrOrNull`<br>`Array.reduceRightOrOrNull`<br>Contains the same functionality as `reduceRightOr` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrOrNullOrNull`<br>`Array.reduceRightOrOrNullOrNull`<br>Contains the same functionality as `reduceRightOrOrNull` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrIndexedOrNull`<br>`Array.reduceRightOrIndexedOrNull`<br>Contains the same functionality as `reduceRightOrIndexed` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrIndexedOrNull`<br>`Array.reduceRightOrIndexedOrNull`<br>Contains the same functionality as `reduceRightOrIndexed` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrIndexedOrNullOrNull`<br>`Array.reduceRightOrIndexedOrNullOrNull`<br>Contains the same functionality as `reduceRightOrIndexedOrNull` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrIndexedOrNullOrNull`<br>`Array.reduceRightOrIndexedOrNullOrNull`<br>Contains the same functionality as `reduceRightOrIndexedOrNull` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrNullOrNull`<br>`Array.reduceRightOrNullOrNull`<br>Contains the same functionality as `reduceRightOrNull` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrNullOrNullOrNull`<br>`Array.reduceRightOrNullOrNullOrNull`<br>Contains the same functionality as `reduceRightOrNullOrNull` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrIndexedOrNullOrNullOrNull`<br>`Array.reduceRightOrIndexedOrNullOrNullOrNull`<br>Contains the same functionality as `reduceRightOrIndexedOrNullOrNull` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrIndexedOrNullOrNullOrNull`<br>`Array.reduceRightOrIndexedOrNullOrNullOrNull`<br>Contains the same functionality as `reduceRightOrIndexedOrNullOrNull` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrIndexedOrNullOrNullOrNullOrNull`<br>`Array.reduceRightOrIndexedOrNullOrNullOrNullOrNull`<br>Contains the same functionality as `reduceRightOrIndexedOrNullOrNullOrNull` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrNullOrNullOrNullOrNull`<br>`Array.reduceRightOrNullOrNullOrNullOrNull`<br>Contains the same functionality as `reduceRightOrNullOrNullOrNull` but returns null if there is no exception.

```kotlin
public inline fun
```

### `reduceRightOrNullOrNullOrNullOrNullOrNull`<br>`Array.reduceRightOrNullOrNullOrNullOrNullOrNull`<br>Contains the same functionality as `reduceRightOrNullOrNullOrNullOrNull` but returns null if there is no exception.

```kotlin
public inline fun
```
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.");
var accumulator =
get(index--)
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
}
return accumulator

accumulate value starting with the last element and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.
Throws an exception if this array is empty. If the array can be empty in an expected way,
please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.
* @param [operation] that takes the index of an element, the element itself and current accumulator value,
and calculates the next accumulator value.

Accumulates value starting with the last element and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.

Accumulates value starting with the last element and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.

@sinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun
ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong
var index =
lastIndex
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
var accumulator = get(index--)
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
}
return accumulator

Accumulates value starting with the last element and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.

* @param [operation] that takes the index of an element, the element itself and current accumulator value,
and calculates the next accumulator value.

@sinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun
UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte
var index =
lastIndex
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
var accumulator = get(index--)
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
}
return accumulator

Accumulates value starting with the last element and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.

* @param [operation] that takes the index of an element, the element itself and current accumulator value,
and calculates the next accumulator value.

@sinceKotlin("1.4")
@ExperimentalUnsignedTypes
public inline fun
UCharArray.reduceRightIndexed(operation: (index: Int, UChar, acc: UChar) -> UChar): UChar
var index =
lastIndex
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
var accumulator = get(index--)
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
}
return accumulator

Accumulates value starting with the last element and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.

* @param [operation] that takes the index of an element, the element itself and current accumulator value,
and calculates the next accumulator value.

@sinceKotlin("1.4")
@ExperimentalUnsignedTypes
public inline fun
UIntArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt?
var index =
lastIndex
if (index < 0) return null
var accumulator = get(index--)
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
}
return accumulator

Accumulates value starting with the last element and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.

* @param [operation] that takes the index of an element, the element itself and current accumulator value,
and calculates the next accumulator value.

@sinceKotlin("1.4")
@ExperimentalUnsignedTypes
public inline fun
var index =
lastIndex
if (index < 0) return null
var accumulator = get(index--)
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
}
return accumulator

Accumulates value starting with the last element and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.
```kotlin
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceRightIndexedOrNull(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt): UInt? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) -> ULong): ULong? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes an element and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) -> UByte): UByte? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

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[operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

* @sample samples.collections.Collections.Aggregates.reduceRightOrNull

```kotlin
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) -> UShort?): UShort? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)

    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

```kotlin
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

```kotlin
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

```kotlin
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.runningFold(initial: R, operation: (acc: R, UByte) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
starts with \[initial\] value.\n* `\n* Note that `acc` value passed to \[operation\] function should not be mutated;\n* otherwise it would affect the previous value in resulting list.\n* @param \[operation\] function that takes the index of an element, current accumulator value\n* and the element itself, and calculates the next accumulator value.\n* @sample \samples.collections.Collections.Aggregates.runningFold

\[operation\] function should not be mutated;\n* otherwise it would affect the previous value in resulting list.\n* \[operation\] function that takes the index of an element, current accumulator value\n* and the element itself, and calculates the next accumulator value.\n* @sample \samples.collections.Collections.Aggregates.runningFold

\[operation\] function that takes the index of an element, current accumulator value\n* and the element itself, and calculates the next accumulator value.\n* @sample \samples.collections.Collections.Aggregates.runningFold

\[operation\] function that takes the index of an element, current accumulator value\n* and the element itself, and calculates the next accumulator value.\n* @sample \samples.collections.Collections.Aggregates.runningFold

\[operation\] function that takes the index of an element, current accumulator value\n* and the element itself, and calculates the next accumulator value.\n* @sample \samples.collections.Collections.Aggregates.runningFold

\[operation\] function that takes the index of an element, current accumulator value\n* and the element itself, and calculates the next accumulator value.\n* @sample \samples.collections.Collections.Aggregates.runningFold

\[operation\] function that takes the index of an element, current accumulator value\n* and the element itself, and calculates the next accumulator value.\n* @sample \samples.collections.Collections.Aggregates.runningFold

\[operation\] function that takes the index of an element, current accumulator value\n* and the element itself, and calculates the next accumulator value.\n* @sample \samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
*@


```kotlin
ULongArray.runningReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong>
{    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<ULong>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.runningReduce
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.runningReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte>
{    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UByte>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.runningReduce
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
{    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UShort>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R>
{    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R): List<R>
{    return runningFold(initial, operation)
}
```

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@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * This function takes the index of an element, current accumulator value and an element, and calculates the next accumulator value.
 * @param samples.collections.Collections.Aggregates.scan
 */

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element, its index in the original array and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * This function takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @param samples.collections.Collections.Aggregates.scan
 */

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element, its index in the original array and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * This function takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @param samples.collections.Collections.Aggregates.scan
 */

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element, its index in the original array and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * This function takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @param samples.collections.Collections.Aggregates.scan
 */

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element, its index in the original array and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * This function takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @param samples.collections.Collections.Aggregates.scan
 */

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    return runningFoldIndexed(initial, operation)
}

@Deprecated("Use runningReduce instead.", ReplaceWith("runningReduce(operation)"), level = DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UintArray.scanReduce(operation: (acc: Uint, Uint) -> Uint):
List<UInt> {
  return runningReduce(operation)
}

ReplaceWith("runningReduce(operation)", level = DeprecationLevel.ERROR)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.scanReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {
  return runningReduce(operation)
}

ReplaceWith("runningReduce(operation)", level = DeprecationLevel.ERROR)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.scanReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {
  return runningReduce(operation)
}

ReplaceWith("runningReduce(operation)", level = DeprecationLevel.ERROR)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
  return runningReduceIndexed(operation)
}

ReplaceWith("runningReduceIndexed(operation)", level = DeprecationLevel.ERROR)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.scanReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {
  return runningReduceIndexed(operation)
}

ReplaceWith("runningReduceIndexed(operation)", level = DeprecationLevel.ERROR)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.scanReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {
  return runningReduceIndexed(operation)
}

ReplaceWith("runningReduceIndexed(operation)", level = DeprecationLevel.ERROR)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.scanReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {
  return runningReduceIndexed(operation)
}

ReplaceWith("runningReduceIndexed(operation)", level = DeprecationLevel.ERROR)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
  return runningReduceIndexed(operation)
}

ReplaceWith("runningReduceIndexed(operation)", level = DeprecationLevel.ERROR)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumBy(selector: (UInt) -> UInt): UInt {
  var sum: UInt = 0u
  for (element in this) {
    sum += selector(element)
  }
  return sum
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumBy(selector: (ULong) -> UInt): UInt {
  var sum: UInt = 0u
  for (element in this) {
    sum += selector(element)
  }
  return sum
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumBy(selector: (UByte) -> UInt): UInt {
  var sum: UInt = 0u
  for (element in this) {
    sum += selector(element)
  }
  return sum
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumBy(selector: (UShort) -> UInt): UInt {
  var sum: UInt = 0u
  for (element in this) {
    sum += selector(element)
  }
  return sum
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumByDouble(selector: (UInt) -> Double): Double {
  var sum: Double = 0.0
  for (element in this) {
    sum += selector(element)
  }
  return sum
}
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumByDouble(selector: (ULong) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
*/
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumByDouble(selector: (UByte) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
*/
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumByDouble(selector: (UShort) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumOf(selector: (UInt) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumOf(selector: (UByte) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumOf(selector: (UShort) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
/*\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @Suppress("INAPPLICABLE_JVM_NAME")\n * @kotlin.jvm.JvmName("sumOfInt")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun UByteArray.sumOf(selector: (UByte) -> Int): Int {
 *     var sum: Int = 0.toInt()\n *     for (element in this) {
 *         sum += selector(element)\n *     }\n *     return sum\n * }
 *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @Suppress("INAPPLICABLE_JVM_NAME")\n * @kotlin.jvm.JvmName("sumOfInt")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun UShortArray.sumOf(selector: (UShort) -> Int): Int {
 *     var sum: Int = 0.toInt()\n *     for (element in this) {
 *         sum += selector(element)\n *     }\n *     return sum\n * }
 *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @Suppress("INAPPLICABLE_JVM_NAME")\n * @kotlin.jvm.JvmName("sumOfLong")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun UIntArray.sumOf(selector: (UInt) -> Long): Long {
 *     var sum: Long = 0.toLong()\n *     for (element in this) {
 *         sum += selector(element)\n *     }\n *     return sum\n * }
 *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @Suppress("INAPPLICABLE_JVM_NAME")\n * @kotlin.jvm.JvmName("sumOfLong")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun UByteArray.sumOf(selector: (UByte) -> Long): Long {
 *     var sum: Long = 0.toLong()\n *     for (element in this) {
 *         sum += selector(element)\n *     }\n *     return sum\n * }
 *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @Suppress("INAPPLICABLE_JVM_NAME")\n * @kotlin.jvm.JvmName("sumOfLong")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun UShortArray.sumOf(selector: (UShort) -> Long): Long {
 *     var sum: Long = 0.toLong()\n *     for (element in this) {
 *         sum += selector(element)\n *     }\n *     return sum\n * }
 *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @Suppress("INAPPLICABLE_JVM_NAME")\n * @kotlin.jvm.JvmName("sumOfUInt")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun UIntArray.sumOf(selector: (UInt) -> UInt): UInt {
 *     var sum: UInt = 0.toUInt()\n *     for (element in this) {
 *         sum += selector(element)\n *     }\n *     return sum\n * }
 *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @Suppress("INAPPLICABLE_JVM_NAME")\n * @kotlin.jvm.JvmName("sumOfUInt")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun ULongArray.sumOf(selector: (ULong) -> UInt): UInt {
 *     var sum: UInt = 0.toUInt()\n *     for (element in this) {
 *         sum += selector(element)\n *     }\n *     return sum\n * }
 *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @Suppress("INAPPLICABLE_JVM_NAME")\n * @kotlin.jvm.JvmName("sumOfUInt")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun UByteArray.sumOf(selector: (UByte) -> UInt): UInt {
 *     var sum: UInt = 0.toUInt()\n *     for (element in this) {
 *         sum += selector(element)\n *     }\n *     return sum\n * }
 *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @Suppress("INAPPLICABLE_JVM_NAME")\n * @kotlin.jvm.JvmName("sumOfUInt")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun UShortArray.sumOf(selector: (UShort) -> UInt): UInt {
 *     var sum: UInt = 0.toUInt()\n *     for (element in this) {
 *         sum += selector(element)\n *     }\n *     return sum\n * }
 */

return sum
}
`*\n@Since\n`
Iterable<R>): List<Pair<UShort, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }\n} mandates * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3.0")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n} mandates * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3.0")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n    val arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n} mandates * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3.0")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n    val arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n} mandates * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3.0")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n} mandates * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.
 * \n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3.0")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n} mandates * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3.0")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n} mandates * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3.0")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n} mandates * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3.0")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n} mandates * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest array.
 * \n * \n * @sample
```kotlin
/**
 * Returns a list of values built from the elements of 'this' array and the [other] array
 * with the same index * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
    UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] array
 * with the same index * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
    ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] array
 * with the same index * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
    UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] array
 * with the same index * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfUInt")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
    Array<out UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfULong")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
    Array<out ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfUByte")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
    Array<out UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfUShort")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
    Array<out UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
    UIntArray.sum(): UInt {
    return storage.sum().toUInt()
}

/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
    ULongArray.sum(): ULong {
    return storage.sum().toULong()
}

/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
fun
    UByteArray.sum(): UInt {
    return sumBy { it.toUInt() }
}

/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
fun
    UShortArray.sum(): UInt {
    return sumBy { it.toUInt() }
}
```

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```kotlin
import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns an array of UByte containing all of the
 * elements of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UByte>.toUByteArray(): UByteArray {
    val result = UByteArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of UInt containing all of the
 * elements of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UInt>.toUIntArray(): UIntArray {
    val result = UIntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of ULong containing all of the
 * elements of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<ULong>.toULongArray(): ULongArray {
    val result = ULongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of UShort containing all of the
 * elements of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UShort>.toUShortArray(): UShortArray {
    val result = UShortArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfUInt")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfULong")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfUByte")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfUShort")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UInt, b: UInt): UInt {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: ULong, b: ULong): ULong {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UByte, b: UByte): UByte {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UShort, b: UShort): UShort {
    return if (a >= b) a else b
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun maxOf(a: UInt, b: UInt, c: UInt): UInt {
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun maxOf(a: UByte, b: UByte, c: UByte): UByte {
    return maxOf(a, maxOf(b, c))
}
```
of three values.*\n*\n\n```
*/
@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly
@public inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@public fun maxOf(a: UInt, vararg other: UInt): UInt {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@public fun maxOf(a: ULong, vararg other: ULong): ULong {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@public fun maxOf(a: UByte, vararg other: UByte): UByte {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}

/**
 * Returns the greater of the given values.
 */
@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@public fun maxOf(a: UShort, vararg other: UShort): UShort {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun minOf(a: UInt, b: UInt): UInt {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun minOf(a: ULong, b: ULong): ULong {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun minOf(a: UByte, b: UByte): UByte {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun minOf(a: UShort, b: UShort): UShort {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of the given values.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun minOf(a: UInt, vararg other: UInt): UInt {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun minOf(a: ULong, vararg other: ULong): ULong {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun minOf(a: UByte, vararg other: UByte): UByte {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun minOf(a: UShort, vararg other: UShort): UShort {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

```

*/

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("URangesKt")

package kotlin.ranges

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/Kotlin/blob/master/libraries/stdlib
//

import kotlin.random.*

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun random(): Int {
    return random(Random)
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun random(): Long {
    return random(Random)
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun random(): Float {
    return random(Random)
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun random(): Double {
    return random(Random)
}

*/

@file:kotlin/jvm/JvmMultifileClass
@file:kotlin/jvm/JvmName("URangesKt")

package kotlin.ranges

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/Kotlin/blob/master/libraries/stdlib
//

import kotlin.random.*

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun random(): Int {
    return random(Random)
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun random(): Long {
    return random(Random)
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun random(): Float {
    return random(Random)
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@public fun random(): Double {
    return random(Random)
}

*/

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*\n*\n*\n*\n*/

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9734
ULONGRange.random(): ULong { n
    return random(Random(n))
} // **in

ULONGRange.randomOrNull(): ULong { n
    return random(Random)
}

/**
 * Returns a random element from this range using the specified source of randomness.
 * @throws IllegalArgument if this range is empty.
 * @since Kotlin ('1.3')
 */
public fun ULONGRange.random(random: Random): ULong {
    return random.nextULong(this)
}

/**
 * Returns a random element from this range, or `null` if this range is empty.
 * @since Kotlin ('1.4')
 */
public fun ULONGRange.randomOrNull(random: Random): ULong? {
    if (isEmpty())
        return null
    return random.nextULong(this)
}

/**
 * Checks if the specified [value] belongs to this range.
 * @since Kotlin ('1.4')
 */
public operator fun ULONGRange.contains(value: UByte): Boolean {
    return contains(value.toULong())
}

/**
 * Checks if the specified [value] belongs to this range.
 * @since Kotlin ('1.4')
 */
public operator fun ULONGRange.contains(value: UInt): Boolean {
    return contains(value.toULong())
}

/**
 * Checks if the specified [value] belongs to this range.
 * @since Kotlin ('1.4')
 */
public operator fun ULONGRange.contains(value: UShort): Boolean {
    return contains(value.toULong())
}
UIntProgression {
    return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1u)\n} /**
 * Returns a progression from this value down to the specified [to] value with the step -1.\n * @param to The [to] value should be less than or equal to this value.\n * @return If the [to] value is greater than this value the returned progression is empty.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic infix fun UInt.downTo(to: UInt): UIntProgression {
    return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}/**
 * Returns a progression from this value down to the specified [to] value with the step -1.\n * @param to The [to] value should be less than or equal to this value.\n * @return If the [to] value is greater than this value the returned progression is empty.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic infix fun ULong.downTo(to: ULong): ULongProgression {
    return ULongProgression.fromClosedRange(this.toULong(), to.toULong(), -1L)\n}/**
 * Returns a progression from this value down to the specified [to] value with the step -1.\n * @param to The [to] value should be less than or equal to this value.\n * @return If the [to] value is greater than this value the returned progression is empty.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic infix fun UShort.downTo(to: UShort): UIntProgression {
    return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic fun UIntProgression.reversed(): UIntProgression {
    return UIntProgression.fromClosedRange(last, first, -step)\n}/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic fun ULongProgression.reversed(): ULongProgression {
    return ULongProgression.fromClosedRange(last, first, -step)\n}/**
 * Returns a progression that goes over the same range with the given step.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic infix fun UIntProgression.step(step: Int): UIntProgression {
    checkStepIsPositive(step > 0, step)\n    return UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}/**
 * Returns a progression that goes over the same range with the given step.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic infix fun ULongProgression.step(step: Long): ULongProgression {
    checkStepIsPositive(step > 0, step)\n    return ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}/**
 * Returns a range from this value up to but excluding the specified [to] value.\n * @param to The [to] value should be less than or equal to this value.\n * @return If the [to] value is less than or equal to this value, then the returned range is empty.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic infix fun UByte.until(to: UByte): UIntRange {
    if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n    return this.toUInt() .. (to - 1u).toUInt()\n}/**
 * Returns a range from this value up to but excluding the specified [to] value.\n * @param to The [to] value should be less than or equal to this value.\n * @return If the [to] value is less than or equal to this value, then the returned range is empty.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic infix fun UInt.until(to: UInt): UIntRange {
    if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n    return this .. (to - 1u).toUInt()\n}/**
 * Returns a range from this value up to but excluding the specified [to] value.\n * @param to The [to] value should be less than or equal to this value.\n * @return If the [to] value is less than or equal to this value, then the returned range is empty.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic infix fun ULong.until(to: ULong): ULongRange {
    if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n    return this.toULong() .. (to - 1u).toULong()\n}/**
 * Ensures that this value is not less than the specified [minimumValue].\n * @param minimumValue If the [minimumValue] is less than or equal to this value, then the returned range is empty.\n * @return If the [minimumValue] is less than or equal to this value, then the returned range is empty.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic infix fun UInt.coerceAtLeast(minimumValue: UInt): UInt {
    return if (this < minimumValue) minimumValue else this\n}/**
 * Ensures that this value is not less than the specified [minimumValue].\n * @param minimumValue If the [minimumValue] is less than or equal to this value, then the returned range is empty.\n * @return If the [minimumValue] is less than or equal to this value, then the returned range is empty.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic infix fun ULong.coerceAtLeast(minimumValue: ULong): ULong {
    return if (this < minimumValue) minimumValue else this\n}/**
 * Ensures that this value is not less than the specified [minimumValue].\n * @param minimumValue If the [minimumValue] is less than or equal to this value, then the returned range is empty.\n * @return If the [minimumValue] is less than or equal to this value, then the returned range is empty.\n */
@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes \npublic infix fun UShort.coerceAtLeast(minimumValue: UShort): UShort {
    return if (this < minimumValue) minimumValue else this\n}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceAtLeast(minimumValue: ULong): ULong {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not less than the specified [minimumValue].
 * 
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * 
 * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByte.coerceAtLeast(minimumValue: UByte): UByte {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not less than the specified [minimumValue].
 * 
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * 
 * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShort.coerceAtLeast(minimumValue: UShort): UShort {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UInt.coerceAtMost(maximumValue: UInt): UInt {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned
 */
@SinceKotlin("1.3")
@Experimental UnsignedTypes
public fun ULong.coerceAtMost(maximumValue: ULong): ULong {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByte.coerceAtMost(maximumValue: UByte): UByte {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShort.coerceAtMost(maximumValue: UShort): UShort {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value lies in the specified range [minimumValue].[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceInUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range [minimumValue].[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceInUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}
fun UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {
    if (minimumValue > maximumValue)
        throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    else return this
}

fun UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {
    if (minimumValue > maximumValue)
        throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    else return this
}

fun UInt.coerceIn(range: ClosedRange<UInt>): UInt {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<UInt>(range)
    }
    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this > range.endInclusive -> range.endInclusive
        else -> this
    }
}

fun ULong.coerceIn(range: ClosedRange<ULong>): ULong {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<ULong>(range)
    }
    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this > range.endInclusive -> range.endInclusive
        else -> this
    }
}

fun Sequence<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

fun Sequence<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}

fun Sequence<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

fun Sequence<UShort>.sum(): UShort {
    var sum: UShort = 0u
    for (element in this) {
        sum += element
    }
    return sum
}
list of exceptions that were suppressed in order to deliver this exception. The list can be empty if no exceptions were suppressed. - if the platform doesn't support suppressed exceptions

```java
@SinceKotlin("1.4")
public expect fun Throwable.addSuppressed(exception: Throwable)

/**
 * Returns a list of all exceptions that were suppressed in order to deliver this exception.
 * The list can be empty - if no exceptions were suppressed;
 * - if the platform doesn't support suppressed exceptions;
 * - if this [Throwable] instance has disabled the suppression.
 */
@SinceKotlin("1.4")
public expect val Throwable.suppressedExceptions: List<Throwable>
```

```java
/*
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 */

package kotlin.js

import kotlin.annotation.AnnotationTarget.*

/**
 * Gives a declaration (a function, a property or a class) specific name in JavaScript.
 */
@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)
@OptionalExpectation
public expect annotation class JsName(val name: String)

/**
 * Marks experimental JS export annotations.
 *
 * Note that behavior of these annotations will likely be changed in the future.
 * Usages of such annotations will be reported as warnings unless an explicit opt-in within
 * the [OptIn] annotation, e.g.
 * `@OptIn(ExperimentalJsExport::class),` or with the `-Xopt-in=kotlin.js.ExperimentalJsExport` compiler option
 * is given.
 */
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, FILE)
@SinceKotlin("1.4")
@OptionalExpectation
public expect annotation class ExperimentalJsExport

/**
 * Exports top-level declaration on JS platform.
 * Compiled module exposes declarations that are marked with this annotation without name mangling.
 * This annotation can be applied to either files or top-level declarations.
 * It is currently prohibited to export the following kinds of declarations:
 * - `expect` declarations
 * - inline functions with reified type parameters
 * - suspend functions
 * - secondary constructors without `@JsName`
 * - extension properties
 * - enum classes
 * - annotation classes
 * - Signature of exported declarations must only contain `exportable` types:
 *   - `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`
 * - `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`
 * - `Array<exportable-type>`
 * - Function types with exportable parameters and return types
 * - `external` or `@JsExport` classes and interfaces
 * - Nullable counterparts of types above
 * - Unit return type. Must not be nullable
 * - This annotation is experimental, meaning that restrictions mentioned above are subject to change.
 */
@ExperimentalJsExport
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, FILE)
@SinceKotlin("1.4")
@OptionalExpectation
public expect annotation class JsExport()
```

```java
/*
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 */

package kotlin.collections

import kotlin.internal.PlatformDependent

/**
 * Classes that inherit from this interface can be represented as a sequence of elements that can be iterated over.
 * @param T the type of element being iterated over. The iterator is covariant in its element type.
 */
public interface Iterable<out T> {
    /**
     * Returns an iterator over the elements of this object.
     */
    public operator fun iterator(): Iterator<T>
}

/**
 * Classes that inherit from this interface can be represented as a sequence of elements that supports removing elements during iteration.
 * @param T the type of element being iterated over. The iterator is covariant in its element type.
 */
public interface MutableIterable<out T> : Iterable<T> {
    /**
     * Returns an iterator over the elements of this sequence that supports removing elements during iteration.
     */
    override fun iterator():.MutableIterator<T>
}

/**
 * A generic collection of elements. Methods in this interface support only read-only access to the collection;
 * read/write access is supported through the [MutableCollection] interface.
 * @param E the type of elements contained in the collection.
 */
public interface Collection<out E> : Iterable<E> {
    // Query Operations
    /**
     * Returns the size of the collection.
     */
    public val size: Int

    /**
     * Checks if the specified element is contained in this collection.
     */
    public override fun contains(element: @UnsafeVariance E): Boolean

    // Bulk Operations
    /**
     * Returns an iterator over the elements of this object that can be iterated over and that supports removing elements during iteration.
     */
    public operator fun iterator(): Iterator<E>

    // Bulk Operations
    /**
     * Returns an iterator over the elements of this sequence that supports removing elements during iteration.
     */
    public override fun contains(element: @UnsafeVariance E): Boolean
```
range.  

* The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].  

* In order to go backwards the [step] must be negative.  

* [step] must be greater than 'Int.MIN_VALUE' and not equal to zero.  

* An open class LongProgression

```java
public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd, step)
```

```java
/**
 * A progression of values of type `Long`.  
 */
public open class LongProgression

```

```kotlin
    internal constructor
        (start: Long,
         endInclusive: Long,
         step: Long)
    : Iterable<Long> {
        init {
            if (step == 0L) throw kotlin.IllegalArgumentException("Step must be non-zero.")
            if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Long.MIN_VALUE to avoid overflow on negation.")
            * The first element in the progression.
            * A public val first: Long = start
            * The last element in the progression.
            * A public val last: Long = getProgressionLastElement(start.toLong(), endInclusive.toLong(), step).toLong()  
        * The step of the progression.
        * A public val step: Long = step
        override fun iterator(): LongIterator = LongProgressionIterator(first, last, step)

        /** Checks if the progression is empty. */
        public fun isEmpty(): Boolean = if (step > 0) first > last else first < last

        override fun equals(other: Any?): Boolean =
            other is LongProgression && (isEmpty() && other.isEmpty() ||
            first == other.first && last == other.last &&
        step == other.step)  

        override fun hashCode(): Int =
            if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()

        override fun toString(): String = if (step > 0)
            "$first..$last step $step"
        else "$first downTo $last step $step"

        companion object {
            /**
             * Creates LongProgression within the specified bounds of a closed range.
             * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].  

             * In order to go backwards the [step] must be negative.  

             * [step] must be greater than 'Long.MIN_VALUE' and not equal to zero.  

             * A public fun fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression

```

```kotlin
/*
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 * Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

package kotlin.ranges

/**
 * Represents a range of values (for example, numbers or characters).
 * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.
 */
public interface ClosedRange<T: Comparable<T>> {
    /**
     * The minimum value in the range.
     */
    val start: T

    /**
     * The maximum value in the range (inclusive).
     */
    val endInclusive: T

    /**
     * Checks whether the specified [value] belongs to the range.
     */
    operator fun contains(value: T): Boolean = value >= start && value <= endInclusive

    /**
     * Checks whether the range is empty.
     */
    fun isEmpty(): Boolean = start > endInclusive
}
```

```kotlin
    internal constructor
        (start: Int, endInclusive: Int, step: Int)
    : Iterable<Int> {
        init {
            if (step == 0) throw kotlin.IllegalArgumentException("Step must be non-zero.")
            if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on negation.")
            * The first element in the progression.
            * A public val first: Int = start
            * The last element in the progression.
            * A public val last: Int = getProgressionLastElement(start, endInclusive, step)
        * The step of the progression.
        * A public val step: Int = step
        override fun iterator(): IntIterator = IntProgressionIterator(first, last, step)

        /** Checks if the progression is empty. */
        public fun isEmpty(): Boolean = if (step > 0) first > last else first < last

        override fun equals(other: Any?): Boolean =
            other is IntProgression && (isEmpty() && other.isEmpty() ||
            first == other.first && last == other.last &&
        step == other.step)

        override fun hashCode(): Int =
            if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()

        override fun toString(): String = if (step > 0)
            "$first..$last step $step"
        else "$first downTo $last step $step"

        companion object {
            /**
             * Creates IntProgression within the specified bounds of a closed range.
             * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].

             * In order to go backwards the [step] must be negative.

             * [step] must be greater than 'Int.MIN_VALUE' and not equal to zero.

             * A public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression

```

```kotlin
/*
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 * Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

package kotlin

/**
 * The type with only
 * one value: the `Unit` object. This type corresponds to the `void` type in Java.
 */
public object Unit {
    override fun toString() = "kotlin.Unit"
}
```

```kotlin
/*
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 *
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 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 * http://www.apache.org/licenses/LICENSE-2.0
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES
 * OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package kotlin.annotation

import kotlin.annotation.AnnotationTarget.*

/**
 * Contains the list of code elements which are the possible annotation targets
 */
public enum class AnnotationTarget {
    /**
     * Class, interface or object, annotation class is also included
     */
    CLASS,
    /** Annotation class only
     */
    ANNOTATION,
    /**
     * Property, function, method, constructor or field, annotation class is not included
     */
    PROPERTY,
    /**
     * Any of the previous options, or nothing, if no annotation is to be applied
     */
    ANY
```
Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative [step]. No validation on passed parameters is performed. The given parameters should satisfy the condition: either \( step > 0 \) and \( start <= end \), or \( step < 0 \) and \( start >= end \). No validation on passed parameters is performed. The given parameters should satisfy the condition: \( step > 0 \) and \( start <= end \), or \( step < 0 \) and \( start >= end \). The given parameters should satisfy the condition: \( step > 0 \) and \( start <= end \), or \( step < 0 \) and \( start >= end \).
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@file:Suppress("UNUSED_PARAMETER", "NOTHING_TO_INLINE")

package kotlin

/**
 * Returns an empty array of the specified type [T].
 */
public inline fun <T> emptyArray(): Array<T> = js("[]")

@library
public fun <T> arrayOf(vararg elements: T): Array<T> = definedExternally

@library
public fun doubleArrayOf(vararg elements: Double): DoubleArray = definedExternally

@library
public fun floatArrayOf(vararg elements: Float): FloatArray = definedExternally

@library
public fun longArrayOf(vararg elements: Long): LongArray = definedExternally

@library
public fun intArrayOf(vararg elements: Int): IntArray = definedExternally

@library
public fun charArrayOf(vararg elements: Char): CharArray = definedExternally

@library
public fun shortArrayOf(vararg elements: Short): ShortArray = definedExternally

@library
public fun byteArrayOf(vararg elements: Byte): ByteArray = definedExternally

@library
public fun booleanArrayOf(vararg elements: Boolean): BooleanArray = definedExternally

/**
 * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].
 */
public actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)

/**
 * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].
 * The [lock] parameter is ignored.
 */
public actual fun <T> lazy(lock: Any?, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)

internal fun fillFrom(src: dynamic, dst: dynamic): dynamic {
    val srcLen: Int = src.length
    val dstLen: Int = dst.length
    var index: Int = 0
    while (index < srcLen && index < dstLen) dst[index] = src[index++]
    return dst
}

internal fun arrayCopyResize(source: dynamic, newSize: Int, defaultValue: Any?): dynamic {
    val result = source.slice(0, newSize)
    copyArrayType(source, result)
    var index: Int = source.length
    if (newSize > index) {
        result.length = newSize
        while (index < newSize) result[index++] = defaultValue
    }
    return result
}

internal inline fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {
    val result = array.slice()
    result.length += collection.size
    copyArrayType(array, result, var index: Int = 0
    for (element in collection) result[index++] = element
    return result
}

internal fun <T> fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {
    var index = startIndex
    for (element in collection) dst[index++] = element
    return dst
}

internal inline fun copyArrayType(from: dynamic, to: dynamic) {
    if (from.`$type$` !== undefined) {
        to.`$type$` = from.`$type$`
    }
}

internal inline fun jsIsType(obj: dynamic, jsClass: dynamic) = js("Kotlin").isType(obj, jsClass)
public inline class Result<out T> @PublishedApi internal constructor(
    @PublishedApi
    internal val value: T,
    @PublishedApi
    internal val exception: Throwable) {
    // discovery

    /**
     * A discriminated union that encapsulates a successful outcome with a value of type [T]
     * or a failure with an arbitrary [Throwable]
     */

    /**
     * Companion object for [Result]
     */
    public companion object {

        // companion with constructors

        /**
         * Returns an instance that encapsulates the given [Throwable] [exception] as failure.
         */
        @Suppress("INAPPLICABLE_JVM_NAME")
        @InlineOnly
        @JvmName("failure")
        public inline fun <T> failure(exception: Throwable): Result<T> =
            Result(null, exception)

        /**
         * Returns an instance that encapsulates the given [value] as successful value.
         */
        @Suppress("INAPPLICABLE_JVM_NAME")
        @InlineOnly
        @JvmName("success")
        public inline fun <T> success(value: T): Result<T> =
            Result(value)

        /**
         * Returns a string `Success(v)` if this instance represents a successful outcome.
         * In this case `isSuccess` returns true.
         */
        public val isSuccess: Boolean get() = value !is Failure

        // value & exception retrieval

        /**
         * Returns the encapsulated value if this instance represents a successful outcome.
         * In this case `isSuccess` returns true.
         */
        public val value: T?
            get() = if (isFailure) null else value

        /**
         * Returns the encapsulated [Throwable] exception if this instance represents a failure.
         * In this case `isFailure` returns true.
         */
        public val exception: Throwable?
            get() = if (isSuccess) null else exception

        // value & exception retrieval

        /**
         * Returns a string `Success(v)` if this instance represents a successful outcome.
         * In this case `isSuccess` returns true.
         */
        public val successOrNull: String?
            get() = when (value) {
                is Success -> value.toString()
                else -> null
            }

        /**
         * Returns a string `Failure(e)` if this instance represents a failure.
         * In this case `isFailure` returns true.
         */
        public val failureOrNull: String?
            get() = when (exception) {
                is Failure -> exception.toString()
                else -> null
            }

        // value & exception retrieval

        /**
         * Returns a string `Success(v)` if this instance represents a successful outcome.
         * In this case `isSuccess` returns true.
         */
        public companion object::success

        /**
         * Returns a string `Failure(e)` if this instance represents a failure.
         * In this case `isFailure` returns true.
         */
        public companion object::failure

        // value & exception retrieval

        /**
         * Returns an instance that encapsulates the given [value] as successful value.
         */
        @Suppress("INAPPLICABLE_JVM_NAME")
        @InlineOnly
        @JvmName("success")
        public inline fun Result<T>.success(value: T): Result<T> =
            Result(value)

        /**
         * Returns an instance that encapsulates the given [Throwable] [exception] as failure.
         */
        @Suppress("INAPPLICABLE_JVM_NAME")
        @InlineOnly
        @JvmName("failure")
        public inline fun Result<T>.failure(exception: Throwable): Result<T> =
            Result(null, exception)
inline fun <T> failure(exception: Throwable): Result<T> =
    Result(createFailure(exception))

internal class Failure(
    @JvmField
    val exception: Throwable
) : Serializable {

    override fun equals(other: Any?): Boolean = other is Failure && exception == other.exception
    override fun hashCode(): Int = exception.hashCode()
    override fun toString(): String = "Failure($exception)"
}

/**
 * Creates an instance of internal marker [Result.Failure] class to ensure that this class is not exposed in ABI.
 */
@PublishedApi
@SinceKotlin("1.3")
internal fun createFailure(exception: Throwable): Any =
    Result.Failure(exception)

/**
 * Throws exception if the result is failure. This internal function minimizes inlined bytecode for [getOrThrow] and makes sure that in the future we can add some exception-augmenting logic here (if needed).
 */
@PublishedApi
@SinceKotlin("1.3")
internal fun Result<*>.throwOnFailure() {
    if (value is Result.Failure) throw value.exception
}

/**
 * Calls the specified function [block] and returns the encapsulated result if invocation was successful, and anything any Throwable exception that was thrown from the [block] function execution and encapsulating it as a failure.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R> runCatching(block: () -> R): Result<R> {
    return try {
        Result.success(block())
    } catch (e: Throwable) {
        Result.failure(e)
    }
}

/**
 * Calls the specified function [block] with `this` value as its receiver and returns the encapsulated result if invocation was successful, and anything any Throwable exception that was thrown from the [block] function execution and encapsulating it as a failure.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {
    return try {
        Result.success(block())
    } catch (e: Throwable) {
        Result.failure(e)
    }
}

// extensions ---

/**
 * Returns the encapsulated value if this instance represents [success] or throws the encapsulated [Throwable] exception if it is [failure].
 * This function is a shorthand for `getOrElse { throw it }` (see [getOrElse]).
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.getOrThrow(): T {
    throwOnFailure()
    return value as T
}

/**
 * Returns the encapsulated value if this instance represents [success] or the result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure].
 * Note, that this function rethrows any [Throwable] exception thrown by [onFailure] function.
 * This function is a shorthand for `fold(onSuccess = { it }, onFailure = onFailure)` (see [fold]).
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {
    contract {
        callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> onSuccess(value as T)
        else -> onFailure(exception)
    }
}

/**
 * Returns the encapsulated value if this instance represents [success] or the [defaultValue] if it is [failure].
 * This function is a shorthand for `getOrElse { defaultValue }` (see [getOrElse]).
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.getOrDefault(defaultValue: R): R {
    if (isFailure) return defaultValue
    return value as T
}

/**
 * Returns the result of [onSuccess] for the encapsulated value if this instance represents [success] or the result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure].
 * Note, that this function rethrows any [Throwable] exception thrown by [onSuccess] or [onFailure] function.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.fold(
    onSuccess: (value: T) -> R,
    onFailure: (exception: Throwable) -> R
): R {
    contract {
        callsInPlace(onSuccess, InvocationKind.AT_MOST_ONCE)
        callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> onSuccess(value as T)
        else -> onFailure(exception)
    }
}

/**
 * Returns the result of the given [transform] function applied to the encapsulated value if this instance represents [success] or the original encapsulated [Throwable] exception if it is [failure].
 * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {
    contract {
        callsInPlace(transform, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> onSuccess(value as T)
        else -> onFailure(exception)
    }
}

// transformation

applied to the encapsulated value
* if this instance represents [success][Result.isSuccess] or the
original
encapsulated [Throwable] exception if it is [failure][Result.isFailure].
This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.
See [map] for an alternative that rethrows exceptions from 'transform' function.

@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {
    return when {
        isSuccess ->
            runCatching {
                transform(value as T)
            }
        else -> Result.value
    }
}

/**
 * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception
* if this instance represents [failure][Result.isFailure] or the
* original encapsulated value if it is [success][Result.isSuccess].
* Note, that this function rethrows any [Throwable] exception thrown by [transform] function.
* See [recoverCatching] for an alternative that encapsulates exceptions.
*/
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {
    contract {
        callsInPlace(transform, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> this
        else -> Result.success(transform(exception))
    }
}

/**
 * Performs the given [action] on the encapsulated [Throwable] exception if this instance represents
* [failure][Result.isFailure] or the original 'Result' unchanged.
*/
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Continuation<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {
    contract {
        callsInPlace(action, InvocationKind.AT_MOST_ONCE)
    }
    exceptionOrNull()?.let { action(it) }
    return this
}

/**
 * Performs the given [action] on the encapsulated value if this instance represents
* [success][Result.isSuccess].
*/
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Continuation<T>.onSuccess(action: (value: T) -> Unit): Result<T> {
    contract {
        callsInPlace(action, InvocationKind.AT_MOST_ONCE)
    }
    if (isSuccess) action(value as T)
    return this
}
resumeWith(Result.failure(exception))

/**
 * Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun <T> Continuation\n    context: CoroutineContext,
    crossinline resumeWith: (Result<T>) -> Unit\n) : Continuation<T> =
    object : Continuation<T> {
        override val context: CoroutineContext
            get() = context

        override fun resumeWith(result: Result<T>) =
            resumeWith(result)
    }

/**
 * Creates a coroutine with a receiver and with result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * @param completion The [completion] continuation is invoked when the coroutine completes with a result or an exception.
 * @param exception Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <T> (suspend () -> T).createCoroutine(
    completion: Continuation<T>
): Continuation<Unit> =
    SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)

/**
 * Starts a coroutine without a receiver and with result type [T].
 * This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.
 * @param completion The [completion] continuation is invoked when the coroutine completes with a result or an exception.
 * @param exception Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <T> (suspend () -> T).startCoroutine(
    completion: Continuation<T>
) {
    createCoroutineUnintercepted(completion).intercepted().resume(Unit)
}

/**
 * Obtains the current continuation instance inside suspend functions and suspends
 * the currently running coroutine.
 * In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously
 * from a different thread of execution. Subsequent invocation of any resume function will produce an
 * [IllegalStateException].
 */
@SinceKotlin("1.3")
@InlineOnly
public suspend inline fun <T> suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {
    contract { callsInPlace(block, InvocationKind.EXACTLY_ONCE) }
    return suspendCoroutineUninterceptedOrReturn { c: Continuation<T> ->
        val safe = SafeContinuation(c.intercepted())
        block(safe)
        safe.getOrThrow()
    }
}

/**
 * Returns the context of the current coroutine.
 */
@SinceKotlin("1.3")
@Suppress("WRONG_MODIFIER_TARGET")
@InlineOnly
public suspend inline
val coroutineContext: CoroutineContext
    get() {
        throw NotImplementedError("Implemented as intrinsic")
    }
the coroutine completes with a result or an exception. The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established. This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended coroutine using a reference to the suspending function.

```
@SinceKotlin("1.3")
@InlineOnly
public actual inline fun <T> (suspend () -> T).startCoroutineUninterceptedOrReturn(completion: Continuation<T>): Any? =
    this.asDynamic()(completion, false)
```

The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established. This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended coroutine using a reference to the suspending function.

```
@SinceKotlin("1.3")
@InlineOnly
    this.asDynamic()(receiver, completion, false)
```

The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established. This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended coroutine using a reference to the suspending function.

```
@SinceKotlin("1.3")
@InlineOnly
public actual fun <T> (suspend () -> T).createCoroutineUnintercepted(completion: Continuation<T>): Continuation<Unit> =
    // Kotlin/JS suspend lambdas have an extra parameter `suspended`
    if (this.asDynamic().length == 2) {
        // When `suspended` is true the continuation is created, but not executed
        this.asDynamic()(completion, true)
    } else {
        createCoroutineFromSuspendFunction(completion) {
            this.asDynamic()()
        }
    }
```

The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established. This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended coroutine using a reference to the suspending function.

```
@SinceKotlin("1.3")
@InlineOnly
public actual fun <R, T>
(suspend R.() -> T).createCoroutineUnintercepted
    continuation<Unit> =
    // Kotlin/JS suspend lambdas have an extra parameter `suspended` if
    (this.asDynamic().length == 3) {
        // When `suspended` is true the continuation is created, but not executed
        this.asDynamic()(receiver, completion, true) } else {
            createCoroutineFromSuspendFunction(completion) {
                this.asDynamic()(receiver, completion) } } } // *n * Intercepts this continuation with
    [ContinuationInterceptor].
    @suspend R.() -> T. createCoroutineUnintercepted
    or [suspendCoroutineUninterceptedOrReturn].
* in which case it checks for
    [ContinuationInterceptor] in the continuation's [context].
* invokes
    [ContinuationInterceptor.interceptContinuation], caches and returns the result.
* If this function is invoked on other [Continuation] instances it returns `this` continuation unchanged.
  
  /*
   * Copyright 2010-2018 JetBrains s.r.o.
   * and Kotlin Programming Language contributors.
   * Use of this source code is governed by the Apache 2.0 license that can be found in the LICENSE.txt file.
   */

  package kotlin.js

  // Mirrors signature from JS IR
  BE
  // Used for js.translator/testData/box/number/mulInt32.kt
  @library
  @JsName("imulEmulated")
  internal
  fun imul(x: Int, y: Int): Int = definedExternally

  internal inline fun isArrayish(o: dynamic) =
  js("Kotlin").isArrayish(o),
public actual fun Float.toRawBits(): Int =

public actual inline fun Float.Companion.fromBits(bits: Int): Float =

internal inline fun Long(low: Int, high: Int) =

internal inline val Long.low: Int get() =

internal inline val Long.high: Int get() =

@PublishedApi
internal fun <T : Annotation> KClass<*>.findAssociatedObject(annotationClass: KClass<T>): Any? {
    // This API is not supported in js-v1. Return `null` to be source-compatible with js-ir.
    return null
}

package kotlin.collections

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import kotlin.js.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Reverses elements in the list in-place.
 */
public actual fun <T> MutableList<T>.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun CharSequence.elementAt(index: Int): Char {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, length: $length") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UIntArray.elementAt(index: Int): UInt {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun ULongArray.elementAt(index: Int): ULong {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UByteArray.elementAt(index: Int): UByte {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}
*/

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
 * out of bounds of this array.
 */

/*
 * Returns a [List] that wraps the original array.
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 * out of bounds of this array.
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externals/kotlin-js-jquery' package instead.

```kotlin
public inline fun JQuery.dialog(mode: String, param: String): Any? = asDynamic().dialog(mode, param)

JQuery = asDynamic().dialog(mode)
```

```
public inline fun JQuery.dialog(mode: String, param: String, value: Any?): JQuery = asDynamic().dialog(mode, param, value)
```

```
public inline fun JQuery.button(): JQuery = asDynamic().button()
```

```
public inline fun JQuery.accordion(): JQuery = asDynamic().accordion()
```

```
public inline fun JQuery.draggable(params: Json): JQuery = asDynamic().draggable(params)
```

---

```kotlin
package kotlin

public actual fun interface Comparator<T> {

@JsName("compare")
public actual fun compare(a: T, b: T): Int
}
```

```kotlin
package kotlin.js

import kotlin.annotation.AnnotationTarget.*

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeGetter

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeSetter

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeInvoke

@Target(CLASS, FUNCTION, PROPERTY)
internal annotation class library(public val name: String = "")

@Target(CLASS)
internal annotation class marker

/**
 * Gives a declaration (a function, a property or a class) specific name in JavaScript.
 *
 * This may be useful in the following cases:
 *   * There are two functions for which the compiler gives same name in JavaScript, you can mark one with `@JsName(...)` to prevent the compiler from reporting error.
 *   * You are writing a JavaScript library in Kotlin. The compiler produces mangled names for functions with parameters, which is unnatural for usual JavaScript developer.
 *       You can put `@JsName(...)` on functions you want to be available from JavaScript.
 *   * For some reason you want to rename declaration, e.g. there's common term in JavaScript for a concept provided by the declaration, which in uncommon in Kotlin.
 *
 * Example:
 *
 * ``` kotlin
 * class Person(val name: String) {
 *     fun hello() {
 *         println("Hello $name!")
 *     }
 *
 *     @JsName("helloWithGreeting")
 *     fun hello(greeting: String) {
 *         println("$greeting $name!")
 *     }
 * }
 * ```
 *
 * @property name the name which compiler uses both for declaration itself and for all references to the declaration.
 *       It's required to denote a valid JavaScript identifier.
 *       The annotation can be used on top-level external declarations (classes, properties, functions) and files.
 *       In case of file (which can't be `external`) the following rule applies: all the declarations in the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contains all the declarations from the file.
 *
 * Example:
 *
 * ``` kotlin
 * @JsModule("jquery")
 * external abstract class JQuery() {
 *     // some declarations here
 * }
 * ```

```
/*
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 */
```
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, FILE)
public annotation class JsModule(val import: String)

/**
 * Denotes an `external` declaration that can be used without
 * module system. By default, an `external` declaration is available regardless your target module system.
 * However, by applying [JsModule] annotation you can make a declaration unavailable to *plain* module system.
 * Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available as an npm package.
 * To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the
 * `@JsNonModule` annotation.
 */
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, FILE)
public annotation class JsNonModule

/**
 * Adds prefix to `external` declarations in a source file.
 * @property value the qualifier to add to the declarations in the
 * generated code.
 * It must be a sequence of valid JavaScript identifiers separated by the `.` character.
 */
@Retention(AnnotationRetention.BINARY)
@Target(AnnotationTarget.FILE)
public annotation class JsQualifier(val value: String)

/**
 * Exports top-level declaration on JS platform.
 * Compiled module exposes declarations that are marked with this annotation without name mangling.
 * This annotation can be applied to either files or top-level declarations.
 * It is currently prohibited to export the following kinds of declarations:
 * `expect` declarations
 * inline functions with reified type parameters
 * suspend functions
 * secondary constructors without `@JsName`
 * extension properties
 * enum classes
 * annotation classes
 * signatures of exported declarations must only contain `exportable` types:
 * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`, `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`, `Array<exportable-type>`, `Unit`
 * Function types with exportable parameters and return types
 * `external` or `@JsExport` classes and interfaces
 * `Nullable` counterparts of types above
 * Unit return type. Must not be nullable
 * This annotation is experimental, meaning that restrictions mentioned above are subject to change.
 */
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, FILE)
public @SinceKotlin("1.3") annotation class JsExport

// used in common generated code in stdlib

@Target(AnnotationTarget.FIELD)
@Retention(AnnotationRetention.SOURCE)
public actual annotation class Volatile

@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)
@Retention(AnnotationRetention.SOURCE)
public actual annotation class Synchronized

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 * license/LICENSE.txt file.
 */
/*
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 * license/LICENSE.txt file.
 */

entryIterator.next() key
override fun remove() = entryIterator.remove() // TODO:

if (containsKey(key)) {

return true
}

return false

override val size: Int get() =

this@AbstractMutableMap.size

override fun checkIsMutable(): Unit =


abstract override fun put(key: K, value: V): V?

actual override fun putAll(from: Map<out K, V>) {

checkIsMutable() for (key, value) in from {

put(key, value)
}

private var _values: MutableCollection<V> = null

actual override val values: MutableCollection<V> get() {

if (_values == null) {

_values = object : AbstractMutableCollection<V>() {

override fun checkIsMutable() = this@AbstractMutableMap.checkIsMutable(): Unit =


val entryIterator = entries.iterator()()

return object : MutableIterator<V> {

override fun iterator(): MutableIterator<V> {

override fun hasNext(): Boolean = entryIterator.hasNext()

override fun next(): V =

val entry = entryIterator.next()

val k = entry.key

if (key == k) {

val value = entry.value

return value
}

}

}

override operator fun contains(element: K): Boolean {

return AbstractSet.unorderedContains(element)

}".eqls"

override fun checkIsMutable(): Unit =

override fun equals(other: Any?): Boolean {

if (this === other) return true

if (other !is Collection<*>) return false

return AbstractList.orderedEquals(this, other)

}

override val size: Int get() = this@AbstractMutableMap.size

// TODO:

should we implement them this way? Currently it's unspecified in JVM

override fun equals(other: Any?): Boolean {

if (this === other) return true

if (other !is Collection<*>) return false

return AbstractList.orderedEquals(this, other)

}

override val size: Int get() =

this@AbstractMutableMap.size

override fun checkIsMutable(): Unit =


constructor(initialCapacity: Int = 0) : this(emptyArray()) {}

    /**
     * Creates an [ArrayList] filled from the
     * [elements] collection.
     */
    public actual constructor(elements: Collection<E>) :
        this(elements.toTypedArray()) {}

    @PublishedApi
    internal fun build(): List<E> {
        checkIsMutable()
        isReadOnly = true
        return this
    }

    /** Does nothing in this ArrayList
     * implementation.
     */
    public actual fun trimToSize() {}

    /** Does nothing in this ArrayList
     * implementation.
     */
    public actual fun ensureCapacity(minCapacity: Int) {}

    @Suppress("UNCHECKED_CAST")
    actual override val size: Int get() = array.size

    @Suppress("UNCHECKED_CAST")
    actual override fun get(index: Int): E = array[rangeCheck(index)] as E

    actual override fun set(index: Int, element: E): E {
        checkIsMutable()
        rangeCheck(index)
        @Suppress("UNCHECKED_CAST")
        return array[index].apply { array[index] = element } as E
    }

    actual override fun add(element: E): Boolean {
        checkIsMutable()
        array.asDynamic().push(element)
        modCount++
        return true
    }

    actual override fun add(index: Int, element: E): Unit {
        checkIsMutable()
        array.asDynamic().splice(insertionRangeCheck(index), 0, element)
        modCount++
    }

    actual override fun addAll(elements: Collection<E>): Boolean {
        checkIsMutable()
        if (elements.isEmpty()) return false
        array += elements.toTypedArray()
        modCount++
        return true
    }

    actual override fun addAll(index: Int, elements: Collection<E>): Boolean {
        checkIsMutable()
        insertionRangeCheck(index)
        if (index == size) return addAll(elements)
        if (elements.isEmpty()) return false
        when (index) {
            size -> addAll(elements)
            0 -> array = elements.toTypedArray() + array
            else ->
                array = array.copyOfRange(0, index).asDynamic().concat(elements.toTypedArray(), array.copyOfRange(index, size))
        }
        modCount++
        return true
    }

    actual override fun removeAt(index: Int): E {
        checkIsMutable()
        rangeCheck(index)
        modCount++
        return if (index == lastIndex)
            array.asDynamic().pop()
        else
            array.asDynamic().splice(index, 1)[0]
    }

    actual override fun remove(element: E): Boolean {
        checkIsMutable()
        for (index in array.indices) {
            if (array[index] == element) {
                array.asDynamic().splice(index, 1)
                modCount++
                return true
            }
        }
        return false
    }

    override fun removeRange(fromIndex: Int, toIndex: Int) {
        checkIsMutable()
        modCount++
        array.asDynamic().splice(fromIndex, toIndex - fromIndex)
    }

    actual override fun clear() {
        checkIsMutable()
        array = emptyArray()
        modCount++
    }

    actual override fun indexOf(element: E): Int = array.indexOf(element)

    actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)

    override fun toString() = arrayToString(array)
    override fun toArray(): Array<Any?> = js("[]").slice.call(array)

    internal override fun checkIsMutable() {
        if (isReadOnly)
            throw UnsupportedOperationException()
    }

    private fun rangeCheck(index: Int) = index.apply {
        AbstractList.checkElementIndex(index, size)
    }

    private fun insertionRangeCheck(index: Int) = index.apply {
        AbstractList.checkPositionIndex(index, size)
    }

    internal fun sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {
        if (getStableSortingIsSupported()) {
            array.asDynamic().sort(comparison)
        } else {
            mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparison(comparison))
        }
    }

    internal fun sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {
        if (getStableSortingIsSupported()) {
            array.asDynamic().sort(comparison)
        } else {
            mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)
        }
    }

    internal fun sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int, comparator: Comparator<in T>) {
        if (fromIndex < toIndex - 1) {
            mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1, comparator)
        }
    }

    internal fun sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int) {
        if (fromIndex < toIndex - 1) {
            mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1, Comparator())
        }
    }

    internal fun internal fun <T : Comparable<T>> sortArray(array: Array<T>) {
        if (getStableSortingIsSupported()) {
            val comparison = { a: T, b: T -> a.compareTo(b) }
            array.asDynamic().sort(comparison)
        } else {
            mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())
        }
    }

    internal fun private var _stableSortingIsSupported: Boolean? = null
    private fun getStableSortingIsSupported(): Boolean {
        _stableSortingIsSupported?.let { return it }
    }
val array = js("["]").unsafeCast<Array<Int>>()

// known implementations may use stable sort for arrays of up to 512 elements
// so we create slightly more elements to
// test stability
for (index in 0 until 600) array.asDynamic().push(index)

val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }

array.asDynamic().sort(comparison)

for (index in 1 until array.size) {
    val a = array[index - 1]
    val b = array[index]
    if ((a and 3) == (b and 3) && a >= b) return false
}

_stableSortingIsSupported = true
return true

val buffer = array

// Merge.
var leftIndex = start
var rightIndex = median + 1
for (i in start..end) {

    when {

        leftIndex <= median && rightIndex <= end -> {
            val leftValue = left[leftIndex]
            val rightValue = right[rightIndex]

            if (comparator.compare(leftValue, rightValue) <= 0) {
                target[i] = leftValue
                leftIndex++
            } else {
                target[i] = rightValue
                rightIndex++
            }
        }

        leftIndex <= median -> {
            target[i] = left[leftIndex]
            leftIndex++
        }

        else /* rightIndex <= end */ -> {
            target[i] = right[rightIndex]
            rightIndex++
            Unit  // TODO: Fix KT-31506
        }
    }
}

return target
}
containsEntry(element) override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = internalMap.iterator()

override fun remove(element: MutableEntry<K, V>): Boolean { if (contains(element)) { this@HashMap.remove(element.key) return true } return false } override val override val size: Int get() = this@HashMap.size
/*\n * Internal implementation of the map: either string-based or hashcode-based.
 */
/*\n * private val internalMap: InternalMap<K, V>*\n * private val equality: EqualityComparator
 */

internal constructor(internalMap: InternalMap<K, V>) : super() {
    this.internalMap = internalMap
    this.equality = internalMap.equality
}

/*\n * Constructs an empty [HashMap] instance.
 */
actual constructor(): this(InternalHashCodeMap(EqualityComparator.HashCode))

/*\n * Constructs an instance of [HashMap] filled with the contents of the specified [original] map.
 */
actual constructor(original: Map<out K, V>) : this() {
    this.putAll(original)
}

actual override fun clear() {
    internalMap.clear()
}

actual override fun containsKey(key: K): Boolean = internalMap.contains(key)

actual override fun containsValue(value: V): Boolean = internalMap.any {
    equality.equals(it.value, value)
}

protected open fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()

actual override operator fun get(key: K): V? = internalMap.get(key)

actual override fun remove(key: K): V? = internalMap.remove(key)

actual override val size: Int get() = internalMap.size

/**
 * Constructs the specialized implementation of [HashMap] with [String] keys, which stores the keys as properties of a JS object without hashing them.
 */
public fun <V> stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {
    return HashMap<String, V>(InternalStringMap(EqualityComparator.HashCode)).apply {
        putAll(pairs)
    }
}
actual override operator fun contains(element: E): Boolean = map.containsKey(element)

    actual override fun isEmpty(): Boolean = map.isEmpty()

    actual override fun iterator(): MutableIterator<E> = map.keys.iterator()

    actual override val size: Int get() = map.size

}

/**
 * Creates a new instance of the specialized implementation of [HashSet] with the specified [String] elements,*
 * which elements the keys as properties of JS object without hashing them.*
 */
public fun stringSetOf(vararg elements: String): HashSet<String> {
    return HashSet(stringMapOf<Any>().apply { addAll(elements) })
}

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 */
/*
 * Based on GWT InternalHashCodeMap
 * Copyright 2008 Google Inc.*
 */

package kotlin.collections

import kotlin.collections.MutableMap.MutableEntry
import kotlin.collections.AbstractMutableMap.SimpleEntry

/**
 * A simple wrapper around JavaScriptObject to provide [java.util.Map]-like semantics for any * key type.*
 */
internal class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {

    private var backingMap: dynamic = createJsMap()
    override var size: Int = 0
        private set

    override fun put(key: K, value: V): V? {
        val hashCode = equality.getHashCode(key)
        val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null
        if (chainOrEntry !is Array<*>) {
            val entry: MutableEntry<K, V> = chainOrEntry
            if (equality.equals(entry.key, key)) {
                return entry.setValue(value)
            } else {
                if (chainOrEntry !is Array<*>) {
                    backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))
                    size++
                    return null
                } else if (chainOrEntry != null) {
                    // This is a new chain, put it to the map.
                    backingMap[hashCode] = SimpleEntry(key, value)
                } else {
                    // It is an entry
                    val chain = Array<MutableEntry<K, V>>()
                    val entry = chain.findEntryInChain(key)
                    if (entry != null) {
                        return entry.setValue(value)
                    } else {
                        // Chain already exists, perhaps key also exists.
                        val chain = Array<MutableEntry<K, V>>()
                        val entry = chain.findEntryInChain(key)
                        if (entry != null) {
                            return entry.setValue(value)
                        } else {
                            backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))
                            size++
                        }
                    }
                }
            }
        } else {
            val chain: Array<MutableEntry<K, V>> = chainOrEntry
            for (index in chain.indices) {
                val entry = chain[index]
                if (equality.equals(key, entry.key)) {
                    if (chain.size == 1) {
                        chain.asDynamic().length = 0
                        // remove the whole array
                        jsDeleteProperty(backingMap, hashCode)
                    } else {
                        // splice out the entry we're removing
                        chain.asDynamic().splice(index, 1)
                        size--
                    }
                }
            }
        }
        return null
    }

    override fun remove(key: K): V? {
        val hashCode = equality.getHashCode(key)
        val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null
        if (chainOrEntry !is Array<*>) {
            val entry: MutableEntry<K, V> = chainOrEntry
            if (equality.equals(entry.key, key)) {
                jsDeleteProperty(backingMap, hashCode)
                size--
                return entry.value
            } else {
                return null
            }
        } else {
            val chain: Array<MutableEntry<K, V>> = chainOrEntry
            for (index in chain.indices) {
                val entry = chain[index]
                if (equality.equals(key, entry.key)) {
                    if (chain.size == 1) {
                        chain.asDynamic().length = 0
                        // remove the whole array
                        jsDeleteProperty(backingMap, hashCode)
                    } else {
                        // splice out the entry we're removing
                        chain.asDynamic().splice(index, 1)
                        size--
                    }
                }
            }
        }
        return null
    }

    override fun clear() {
        backingMap = createJsMap()
        size = 0
    }

    override fun contains(key: K): Boolean = getEntry(key) != null

    override fun get(key: K): V? = getEntry(key)?.value

    private fun getEntry(key: K): MutableEntry<K, V>? {
        val chainOrEntry = getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null
        if (chainOrEntry !is Array<*>) {
            val entry: MutableEntry<K, V> = chainOrEntry
            if (equality.equals(entry.key, key)) {
                return entry
            } else {
                return null
            }
        } else {
            val chain: Array<MutableEntry<K, V>> = chainOrEntry
            return chain.findEntryInChain(key)
        }
    }

    private fun Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =
        firstOrNull { entry ->
            equality.equals(entry.key, key)
        }

    override fun iterator(): MutableIterator<MutableEntry<K, V>> {

        return object : MutableIterator<MutableEntry<K, V>> {
            var state = -1 // -1 not ready, 0 - ready, 1 -
done
val keys: Array<String> = js("Object.keys").keys(backingMap)
var keyIndex = -1

var chainOrEntry: dynamic = null
var isChain = false
var itemIndex = -1
var lastEntry: MutableEntry<K, V>? = null

private fun computeNext(): Int {
    if (chainOrEntry != null && isChain) {
        val chainSize = Int = chainOrEntry.keys.size
        itemIndex = 0
        return 0
    } else {
        chainOrEntry = null
        return 1
    }
}

override fun hasNext(): Boolean {
    if (state == -1) {
        state = computeNext()
        return state == 0
    } else {
        val lastEntry: dynamic = backingMap[keys[keyIndex]].unsafeCast<Array<MutableEntry<K, V>>>()
        itemIndex = 0
        return if (hasNext()) !isChain && lastEntry != null && lastEntry.size--
//            structureChanged(host)
            return value.unsafeCast<V>()
        } else {
//            valueMod++
            return null
        }
    }

    override fun iterator(): MutableIterator<MutableEntry<K, V>> {
        return object :
MutableIterator<MutableEntry<K, V>> {
    private val keys: Array<String> = js("Object").keys(backingMap)
    private val iterator = keys.iterator()
    private var lastKey: String? = null

    override fun hasNext(): Boolean = iterator.hasNext()

    override fun next(): MutableEntry<K, V> {
        val key = iterator.next()
        lastKey = key
        @Suppress("UNCHECKED_CAST")
        return newMapEntry(key as K)
    }

    override
    fun remove() {
        @Suppress("UNCHECKED_CAST")
        this@InternalStringMap.remove(checkNotNull(lastKey) as K)
    }
}

private fun
newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {
    override val key: K get() = key
    override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()

    override fun
setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()

    override fun
hashCode(): Int = AbstractMap.entryHashCode(this)
    override fun toString(): String = AbstractMap.entryToString(this)
    override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this, other)
}

package
kotlin.collections

import kotlin.collections.MutableMap.MutableEntry

/**
 * Hash table based 
 * implementation of the 
 * [MutableMap] interface, which additionally preserves the insertion order * of entries during
 * the iteration. *
 * The insertion order is preserved by maintaining a doubly-linked list of all of its entries. *
 */
public actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {

    /**
     * The entry we use includes next/prev pointers for a doubly-linked circular
     * list with a head node. This reduces the special cases we have to deal with
     * in the list operations. 
     * Note that we duplicate the key from the
     * underlying hash map so we can find the
     * eldest entry. The alternative would have been to modify HashMap so
     * more
     * of the code was directly usable here, but this would have added some
     * overhead to Hash Map, or to
     * reimplement most of the HashMap code here with
     * small modifications. Paying a small storage cost only if
     * you use
     * LinkedHashSet and minimizing code size seemed like a better tradeoff
     * 
     */
    private inner class
    ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {
        internal var
        next: ChainEntry<K, V>? = null
        internal var prev: ChainEntry<K, V>? = null

        override fun 
setValue(newValue: V): V {
            this@LinkedHashMap.checkIsMutable()
            return 
            super.setValue(newValue)
        }
    }

    private inner class EntrySet : AbstractMutableSet<MutableEntry<K,
    V>>() {

        private inner class EntryIterator : MutableIterator<MutableEntry<K, V>> {
            // The last
            entry that was returned from this iterator.
            private var last: ChainEntry<K, V>? = null

            // The next
            entry to return from this iterator.
            private var next: ChainEntry<K, V>? = null

            init {
                next = head
//                recordLastKnownStructure(map, this)
            }

            override fun hasNext(): 
Boolean {
                return next !== null
            }

            override fun next(): MutableEntry<K, V> {
//                checkStructuralChange(map, this)
                if (!hasNext()) throw NoSuchElementException()

                val 
current = next!!
                last = current
                next = current.next.takeIf { it !== head }
                return 
current
            }

            override fun remove() {
                check(last != null)
                this@EntrySet.checkIsMutable()
//                checkStructuralChange(map, this)

                last!!.remove().
        map.remove(last!!)
//                recordLastKnownStructure(map, this)
        last = null
        }
        }

        override fun add(element: MutableEntry<K, V>): Boolean {
            throw
            UnsupportedOperationException("Add is not supported on entries")
        }

        override fun clear() {
            this@LinkedHashMap.clear()
        }

        override operator fun contains(element: MutableEntry<K, V>): Boolean {
            checkIsMutable()
            if (contains(element)) {
                this@LinkedHashMap.remove(element.key)
                return true
            }
            return false
        }

        override fun contains(key: K): Boolean {
            if (contains(element)) {
                this@LinkedHashMap.remove(element.key)
                return true
            }
            return false
        }

        override fun remove(element: MutableListableEntry<K, V>): 
UnsupportedOperationException("Remove is not supported on entries")
        }

        override fun remove(key: K): 
UnsupportedOperationException("Remove is not supported on keys")
        }

        override fun size(): Int {
            get() = 
            this@LinkedHashMap.size
        }

        override fun checkIsMutable(): Unit = 
            this@LinkedHashMap.checkIsMutable()
        }

        /*
   * The head of the insert order chain, which is a doubly-
linked circular
  * list. * The most recently inserted node is at the end of the chain, i.e.

  * chain.prev.

private var head: ChainEntry<K, V> = null

Add this node to the end of the chain.

private fun ChainEntry<K, V>.addToEnd() {
   // This entry is not in the list.
   check(next == null && prev == null) // head = this
   if (head == null) {
      head = this
      head.next = this
      prev = this
   } else {
      Chain is valid.
      val _head = head
      if (_head.next == null) {
         head = this
         _head.next = this
      } else {
         // Chain is valid.
         val _tail = _head.prev
         // Update me.
         prev = _tail
         next = _head
         // Update my new siblings: current head and old tail
         _head.prev = this
         _tail.next = this
      }
   }

private fun ChainEntry<K, V>.remove() {
   if (next == this) {
      // if this is single
      head = null
   } else {
      if (head == this) {
         // if this is first
         head = next
      }
      next!!.prev = prev
      prev!!.next = next
   }
   next = null
   prev = null
}

/*
 * The hashmap that keeps track of our entries and
 * the chain. Note that we need to duplicate the key here to eliminate changes to HashMap and minimize the
 * code here, at the expense of additional space.

 * private val map: HashMap<K, ChainEntry<K, V>> = null
 * private var isReadOnly: Boolean = false

 * Constructs an empty [LinkedHashMap] instance.
 * 
 */
actual constructor() : super() {
   map = HashMap<K, ChainEntry<K, V>>()
}

internal constructor(backingMap: HashMap<K, Any>) : super() {
   @Suppress("UNCHECKED_CAST") // expected
to work due to erasure
   map = backingMap as HashMap<K, ChainEntry<K, V>>()
}

/*
 * Constructs an empty [LinkedHashMap] instance.
 * 
 * @param initialCapacity the initial capacity
 * @param loadFactor      the load factor (ignored)
 * @throws IllegalArgumentException if
 * the initial capacity or load factor are negative
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(initialCapacity, loadFactor) {
   map = HashMap<K, ChainEntry<K, V>>()
}

actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)

/*
 * Constructs an instance of [LinkedHashMap] filled with the contents of the specified [original] map.
 */
actual constructor(original: Map<out K, V>) {
   map = HashMap<K, ChainEntry<K, V>>()
   this.putAll(original)
}

@PublishedApi
internal fun build(): Map<K, V> {
   checkIsMutable()
   isReadOnly = true
   return this
}

actual override fun clear() {
   checkIsMutable()
   map.clear()
   head = null
   override fun finalize() {}

   actual override fun containsKey(key: K): Boolean = map.containsKey(key)

   actual override fun containsValue(value: V): Boolean {
      var node: ChainEntry<K, V> = head
      do {
         if (node.value == value) {
            return true
         }
         node = node.next!!
      } while (node != head)
      return false
   }

   actual override fun containsValue(key: K, value: V): Boolean {
      var node: ChainEntry<K, V> = head
      do {
         if (node.value == value) {
            return true
         }
         node = node.next!!
      } while (node != head)
      return false
   }

   actual override fun createEntrySet(): MutableSet<ChainEntry<K, V>> = EntrySet()

    actual override fun isEmpty(): Boolean
   /*
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    * Use of this source code is governed by the
    * Apache 2.0 license that can be found in the license/LICENSE.txt file.
    * Based on GWT LinkedHashMap
    * Copyright 2008 Google Inc.
    */
   /*
    * Based on GWT LinkedHashMap
    * Copyright 2010-2018
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    * Use of this source code is governed by the
    * Apache 2.0 license that can be found in the license/LICENSE.txt file.
    */
   /*
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    */
   /*
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    * Based on GWT LinkedHashMap
    * Copyright 2008 Google Inc.
    */
   /*
    * Based on GWT LinkedHashMap
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    * Apache 2.0 license that can be found in the license/LICENSE.txt file.
    */
internal constructor(map: LinkedHashMap<E, Any>) : super(map) /* * Constructs a new empty [LinkedHashSet] filled with the elements of the specified collection. */ actual constructor() : super(LinkedHashMap<E, Any>()) /* * Constructs a new [LinkedHashSet] with the load factor (ignored). */ actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))

actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)

internal fun build(): Set<E> {
    (map as LinkedHashMap<E, Any>).build()
    return this
}

internal override fun checkIsMutable(): Unit = map.checkIsMutable()

public fun linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {
    return LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }
}

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 */

package kotlin

import kotlin.contracts.*

@kotlin.internal.InlineOnly
public actual inline fun <R> synchronized(lock: Any, block: () -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block()
}

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 */

package kotlin.io

internal abstract class BaseOutput {
    open fun println() {
        print("\n")
    }

    open fun println(message: Any?) {
        print(message)
        println()
    }

    abstract fun print(message: Any?)

    open fun flush() {}
}

/** JsName used to make the declaration available outside of module to test it */
@JsName("NodeJsOutput")
internal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {
    override fun print(message: Any?) {
        // TODO: Using local variable because of bug in block decomposition lowering in IR backend
        val messageString = String(message)
        outputStream.write(messageString)
    }
}

/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */
@JsName("BufferedOutputToConsoleLog")
internal class BufferedOutputToConsoleLog : BaseOutput() {
    override fun print(message: Any?) {
        var s = String(message)
        val i = s.nativeLastIndexOf("\n", 0)
        if (i >= 0) {
            buffer += s.substring(0, i)
            flush()
            s = s.substring(i + 1)
        }
        buffer += s
    }

    override fun flush() {
        console.log(buffer)
        buffer = ""
    }
}

/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */
@JsName("output")
internal var output = run {
    val isNode: Boolean = js("typeof process !== 'undefined' && process.versions && !!process.versions.node")
    if (isNode) NodeJsOutput(js("process.stdout")) else BufferedOutputToConsoleLog()
}

/** Prints the line separator to the standard output stream. */
public actual fun println() {
    output.println()
}

/** Prints the given [message] and the line separator to the standard output stream. */
public actual fun println(message: Any?) {
    output.println(message)
}

/** Prints the given [message] to the standard output stream. */
public actual fun print(message: Any?) {
    output.print(message)
}

*/
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*/

package kotlin.coroutines

import kotlin.coroutines.intrinsics.CoroutineSingletons.*
import kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED

@PublishedApi
@SinceKotlin("1.3")
internal actual class SafeContinuation<in T>
internal actual constructor(
    private val delegate: Continuation<T>,
    initialResult: Any?
) : Continuation<T> {
    @PublishedApi
    internal actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)

    public actual override val context: CoroutineContext
    get() = delegate.context

    private var result: Any? = initialResult

    public actual override fun resumeWith(result: Result<T>) {
        val cur = this.result
        when {
            cur === UNDECIDED -> {
                this.result = result.value
            }
            cur === COROUTINE_SUSPENDED -> {
                this.result = RESUMED
                delegate.resumeWith(result)
            }
            else -> throw IllegalStateException("Already resumed")
        }
    }

    @PublishedApi
    internal actual fun getOrThrow(): Any? {
        if (result === UNDECIDED) {
            result = COROUTINE_SUSPENDED
        }
        val result = this.result
        return when {
            result === RESUMED -> COROUTINE_SUSPENDED
            result is Result.Failure -> throw result.exception
            else -> result // either COROUTINE_SUSPENDED or data
        }
    }

package kotlin.coroutines.cancellation

@ExperimentalStdlibApi
@SinceKotlin("1.4")
public actual open class CancellationException : IllegalStateException {
    actual constructor() : super()
    actual constructor(message: String?) : super(message)
    constructor(message: String?, cause: Throwable?) : super(message, cause)
    constructor(cause: Throwable?) : super(cause)
}

package kotlin.coroutines.js.internal

import kotlin.coroutines.Continuation
import kotlin.coroutines.EmptyCoroutineContext

@PublishedApi
@SinceKotlin("1.3")
internal val EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->
    result.getOrThrow()
}

package kotlin.js

/**
 * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.
 */
@Suppress("NOT_DOCUMENTED")
public external class Date() {
    public constructor(milliseconds: Number)
    public constructor(dateString: String)
    public constructor(year: Int, month: Int)
    public constructor(year: Int, month: Int, day: Int)
    public constructor(year: Int, month: Int, day: Int, hour: Int)
    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)
    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)
    public fun getDate(): Int
    public fun getDay(): Int
    public fun getFullYear(): Int
    public fun getHours(): Int
    public fun getMilliseconds(): Int
    public fun getMinutes(): Int
    public fun getMonth(): Int
    public fun getSeconds(): Int
    public fun getTime(): Double
    public fun getTimezoneOffset(): Int
    public fun getUTCDate(): Int
    public fun getUTCDay(): Int
    public fun getUTCHours(): Int
    public fun getUTCMinutes(): Int
    public fun getUTCMilliseconds(): Int
    public fun getUTCSecond(): Int
    public fun toDateString(): String
    public fun toISOString(): String
    public fun toJSON(): Json
    public fun toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String
    public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String
    public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String
    public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String
}
/*\n@LowPriorityInOverloadResolution\n@Deprecated(message = "This API is moved to another package, use `kotlinx.dom.removeClass` instead.", \n    replaceWith = ReplaceWith("this.removeClass(cssClasses)"), \n    kotlin.dom.removeClass\n)\n@LowPriorityInOverloadResolution\n@Deprecated(message = "This API is moved to another package, use `kotlinx.dom.isElement` instead.", \n    replaceWith = ReplaceWith("this.isElement()"), \n    kotlin.dom.isElement\n)\n@LowPriorityInOverloadResolution\n@Deprecated(message = "This API is moved to another package, use `kotlinx.dom.isText` instead.", \n    replaceWith = ReplaceWith("this.isText()") \n)\n@LowPriorityInOverloadResolution\n@Deprecated(message = "This API is moved to another package, use `kotlinx.dom.appendText` instead.", \n    replaceWith = ReplaceWith("this.appendText(text)"), \n    kotlin.dom.appendText\n)\n@LowPriorityInOverloadResolution\n@Deprecated(message = "This API is moved to another package, use `kotlinx.dom.clear` instead.", \n    replaceWith = ReplaceWith("this.clear()"), \n    kotlin.dom.clear\n)\n
/*
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 */

package org.w3c.dom

public external interface ItemArrayLike<out T> {
    val length: Int
    fun item(index: Int): T?
}

/**
 * Returns the view of this `ItemArrayLike<T>` collection as `List<T>`
 */
public fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {
    override val size: Int get() = this@asList.length

    override fun get(index: Int): T = when (index) {
        in 0..lastIndex ->
            this@asList.item(index).unsafeCast<T>()
        else -> throw IndexOutOfBoundsException("index $index is not in range [0..$lastIndex]")
    }
}

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 */

package kotlin.dom

import org.w3c.dom.Element
import org.w3c.dom.Node
import kotlin.internal.LowPriorityInOverloadResolution
import kotlinx.dom.appendText as newAppendText
import kotlinx.dom.clear as newClear

/** Removes all the children from this node. */
@LowPriorityInOverloadResolution
@Deprecated(message = "This API is moved to another package, use `kotlinx.dom.clear` instead.", \n    replaceWith = ReplaceWith("this.clear()"), \n    kotlin.dom.clear\n)
@LowPriorityInOverloadResolution
@Deprecated(message = "This API is moved to another package, use `kotlinx.dom.appendText` instead.", \n    replaceWith = ReplaceWith("this.appendText(text)"), \n    kotlin.dom.appendText\n)
@LowPriorityInOverloadResolution
@Deprecated(message = "This API is moved to another package, use `kotlinx.dom.isElement` instead.", \n    replaceWith = ReplaceWith("this.isElement()"), \n    kotlin.dom.isElement\n)
@LowPriorityInOverloadResolution
@Deprecated(message = "This API is moved to another package, use `kotlinx.dom.isText` instead.", \n    replaceWith = ReplaceWith("this.isText()") \n)\n@LowPriorityInOverloadResolution\n@Deprecated(message = "This API is moved to another package, use `kotlinx.dom.removeClass` instead.", \n    replaceWith = ReplaceWith("this.removeClass(cssClasses)"), \n    kotlin.dom.removeClass\n)

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 */

package kotlin.js

/**
 * Reinterprets this value as a value of the [dynamic type](/docs/reference/dynamic-type.html).
 */
@kotlin.internal.InlineOnly
public inline fun Any?.asDynamic(): dynamic = this

/**
 * Reinterprets this value as a value of the specified type [T]
 */
@kotlin.internal.InlineOnly
public inline fun <T> Any?.unsafeCast(): @kotlin.internal.NoInfer T = this.asDynamic().unsafeCast<T>()

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 */

package org.w3c.dom.events

public fun EventListener(handler: (Event) -> Unit): EventListener = EventListenerHandler(handler)

private class EventListenerHandler(private val handler: (Event) -> Unit) : EventListener {
    public override fun handleEvent(event: Event) {
        handler(event)
    }

    public override fun toString(): String = "EventListenerHandler($handler)"
}

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specified type [T] without any actual type checking.

```kotlin
@kotlin.internal.DynamicExtension
@JsName("unsafeCastDynamic")
@kotlin.internal.InlineOnly
public
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this

/**
 * Allows to iterate this `dynamic`
object in the following cases:
 * - when it has an `iterator` function,
 * - when it is an array
 * - when it is an instance of
 *   [kotlin.collections.Iterable]
 *   [Iterator]
 *   [Iterable]<T>
 */
@kotlin.internal.DynamicExtension
public operator fun
dynamic.iterator(): Iterator<dynamic> {
    val r: Any? = this

    return when {
        this["iterator"] != null ->
            this["iterator"]["this"] is Arrayish(r) ->
                unsafeCast<Array<*>>().iterator()
        isArrayish(r) ->
            r.unsafeCast<Array<*>>().iterator()
        else ->
            (r as Iterable<*>).iterator()
    }
}
```

---

```
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 */

package kotlin.collections

/**
 * Represents a source of elements with a [keyOf] function, which can be applied to each
 * element to get its key.
 */
@SinceKotlin("1.1")
public interface
Grouping<T, out K> {
    /** Returns an [Iterator] over the elements of the source of this grouping. */
    fun
    sourceIterator(): Iterator<T>
    /** Extracts the key of an [element]. */
    fun keyOf(element: T): K
}
```

---

```
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 */

@file:kotlin.jvm.JvmName("GroupingKt")
@file:kotlin.jvm.JvmMultifileClass

package
kotlin.collections

/**
 * Represents a source of elements with a [keyOf] function, which can be applied to each
element to get its key. 
* A [Grouping] structure serves as an intermediate step in group-and-fold operations:
* they group elements by their keys and then fold each group with some aggregating operation.
* It is created by attaching `keySelector: (T) -> K` function to a source of elements.
* To get an instance of [Grouping] use one of `groupingBy` extension functions:
* - [Iterable.groupingBy]
* - [Sequence.groupingBy]
* - [Array.groupingBy]
* - [CharSequence.groupingBy]

For the list of group-and-fold operations available, see the [extension functions](#extension-functions) for `Grouping`.
*/
@SinceKotlin("1.1")
public inline fun <T, K, R
Grouping<T, K>.aggregate(
    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R
): Map<K, R> {
    return aggregateTo(mutableMapOf<K, R>(), operation)
}
```

---

```
/*
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 */
package
kotlin.collections

/**
 * Groups elements from the 
 * source of this grouping by key and applies 
 * the [operation] to the elements of each group
 * sequentially.
 */
@SinceKotlin("1.1")
public inline fun <T, K, R
Grouping<T, K>.aggregateByRadix
(operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R
): Map<K, R> {
    return aggregateTo(mutableMapOf<K, R>(), operation)
```
The key for each element is provided by the [Grouping.keyOf] function. It's invoked with parameters:

- `key`: the key of the group this element belongs to;
- `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;
- `element`: the element from the source being accumulated;

- `first`: indicates whether it's the first `element` encountered in the group if the [destination] map already has a value corresponding to some key; then the elements being aggregated for that key are never considered as the first `element` encountered in the group.

If the [destination] map already has a value corresponding to some key, then the elements being aggregated for that key are never considered as the first `element` encountered in the group.

The key for each element is provided by the [Grouping.keyOf] function. It's invoked with parameters:

- `key`: the key of the group this element belongs to;
- `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;
- `element`: the element from the source being accumulated;

- `first`: indicates whether it's the first `element` encountered in the group.

An initial value of accumulator is provided by the [initialValueSelector] function. It's invoked with parameters:

- `key`: the key of the group this element belongs to;
- `element`: the element from the source being accumulated.

An initial value of accumulator is provided by the [initialValueSelector] function. It's invoked with parameters:

- `key`: the key of the group this element belongs to;
- `element`: the element from the source being accumulated.

An initial value of accumulator is provided by the [initialValueSelector] function. It's invoked with parameters:

- `key`: the key of the group this element belongs to;
- `element`: the element from the source being accumulated.

An initial value of accumulator is provided by the [initialValueSelector] function. It's invoked with parameters:

- `key`: the key of the group this element belongs to;
- `element`: the element from the source being accumulated.

An initial value of accumulator is provided by the [initialValueSelector] function. It's invoked with parameters:

- `key`: the key of the group this element belongs to;
- `element`: the element from the source being accumulated.

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- `key`: the key of the group this element belongs to;
- `element`: the element from the source being accumulated.

An initial value of accumulator is provided by the [initialValueSelector] function. It's invoked with parameters:

- `key`: the key of the group this element belongs to;
- `element`: the element from the source being accumulated.

An initial value of accumulator is provided by the [initialValueSelector] function. It's invoked with parameters:

- `key`: the key of the group this element belongs to;
- `element`: the element from the source being accumulated.
result of accumulating the group elements.

* @sample
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue
* @sample
Grouping.foldByEvenLengthWithConstantInitialValue
* @sample
Grouping.foldByEvenLength

* @sample
Grouping.foldByEvenLengthWithConstantInitialValue

* @sample
Grouping.foldByEvenLengthWithConstantInitialValue

* @sample
Grouping.foldByEvenLengthWithConstantInitialValue

* @sample
Grouping.foldByEvenLengthWithConstantInitialValue

*/

@SinceKotlin("1.1")
fun <T, K, R> Grouping<T, K>.foldByEvenLengthWithConstantInitialValue(
    initialValue: R = initialValue;
    operation: (accumulator: R, element: T) -> R
) =
    Grouping.foldByEvenLengthWithConstantInitialValue

@SinceKotlin("1.1")
fun <T, K> Grouping<T, K>.foldByEvenLengthWithConstantInitialValue(
    initialValue: R = initialValue;
    operation: (accumulator: R, element: T) -> R
) =
    Grouping.foldByEvenLengthWithConstantInitialValue

@SinceKotlin("1.1")
fun <T, K, R> Grouping<T, K>.foldByEvenLengthWithConstantInitialValue(
    initialValue: R = initialValue;
    operation: (accumulator: R, element: T) -> R
) =
    Grouping.foldByEvenLengthWithConstantInitialValue

@SinceKotlin("1.1")
fun <T, K, R> Grouping<T, K>.foldByEvenLengthWithConstantInitialValue(
    initialValue: R = initialValue;
    operation: (accumulator: R, element: T) -> R
) =
    Grouping.foldByEvenLengthWithConstantInitialValue

@SinceKotlin("1.1")
fun <T, K, R> Grouping<T, K>.foldByEvenLengthWithConstantInitialValue(
    initialValue: R = initialValue;
    operation: (accumulator: R, element: T) -> R
) =
    Grouping.foldByEvenLengthWithConstantInitialValue
corresponding to the key of some group.\n *\nthat value is used as an initial value of the sum for that group.\n *\n\n*An@SinceKotlin("1.1.0")@\n\npublic inline fun <T, K, M : MutableMap\<K, Int>> Grouping\<T, K>\>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\n\nfoldTo(destination, 0) { acc, e -> acc + valueSelector(e)}/\n\n\n\n*TODO: sum by long and by double overload\n\n\n@return the [destination] map associating the key of each group with the sum of elements in the group.\n\n\n@SinceKotlin("1.1")\n\npublic inline fun <T, K, M : MutableMap\<K, Double>> Grouping\<T, K>\>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n\nfoldTo(destination, 0.0) { acc, e -> acc + valueSelector(e)}/\n\n\n\n/*
 // TODO: sum by long and by double overloads

public inline fun <T, K, M : MutableMap\<K, Long>> Grouping\<T, K>\>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M =\n\nfoldTo(destination, 0L) { acc, e -> acc + valueSelector(e)}/\n\n\n\n*/

@PublishedApi
    internal fun trunc(value: Number): Double
    @PublishedApi
    internal fun sign(value: Number): Double

    @PublishedApi
    internal fun sinh(value: Double): Double
    @PublishedApi
    internal fun cosh(value: Double): Double
    @PublishedApi
    internal fun tanh(value: Double): Double
    @PublishedApi
    internal fun asinh(value: Double): Double
    @PublishedApi
    internal fun acosh(value: Double):

    @PublishedApi
    internal fun atanh(value: Double): Double

    @PublishedApi
    internal fun hypot(x: Double, y: Double):

    @PublishedApi
    internal fun expm1(value: Double):

    @PublishedApi
    internal fun log10(value: Double):
    @PublishedApi
    internal fun log2(value: Double):
    @PublishedApi
    internal fun log1p(value: Double):

    @PublishedApi
    internal fun clz32(value: Int):
}

/**
 * Returns the smaller of two values.
 */
@Suppress("DEPRECATION_ERROR")
@Deprecated("Use minOf or kotlin.math.min instead", ReplaceWith("minOf(a, b)", "kotlin.math.min"), level = DeprecationLevel.ERROR)
public fun Math.min(a: Long, b: Long): Long =
    if (a <= b) a else b

/**
 * Returns the greater of two values.
 */
@Suppress("DEPRECATION_ERROR")
@Deprecated("Use maxOf or kotlin.math.max instead", ReplaceWith("maxOf(a, b)", "kotlin.math.max"), level = DeprecationLevel.ERROR)
public fun Math.max(a: Long, b: Long): Long =
    if (a >= b) a else b
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*/

@file:Suppress("DEPRECATION_ERROR")
package kotlin.math

import kotlin.internal.InlineOnly
import kotlin.js.Math as nativeMath

// region ================ Double Math
========================================

/** Computes the sine of the angle [x] given in radians.\n * \`sin(NaN)\` is `NaN`.\n */
@SinceKotlin("1.2")\n@InlineOnly
public actual inline fun sin(x: Double): Double = nativeMath.sin(x)/n\n
/** Computes the cosine of the angle [x] given in radians.\n * \`cos(NaN)\` is `NaN`.\n */
@SinceKotlin("1.2")\n@InlineOnly
public actual inline fun cos(x: Double): Double = nativeMath.cos(x)/n\n
/** Computes the tangent of the angle [x] given in radians.\n * \`tan(NaN)\` is `NaN`.\n */
@SinceKotlin("1.2")\n@InlineOnly
public actual inline fun tan(x: Double): Double = nativeMath.tan(x)/n\n
/** Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n * \`acos(NaN)\` is `NaN`, when \`abs(x) > 1\` or x is `NaN`.\n */
@SinceKotlin("1.2")\n@InlineOnly
public actual inline fun acos(x: Double): Double = nativeMath.acos(x)/n\n
/** Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n * \`atan2(0.0, 0.0)\` is `0.0`.\n */
@SinceKotlin("1.2")\n@InlineOnly
public actual inline fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)/n\n
/** Computes the hyperbolic sine of the value [x].\n * \`sinh(NaN)\` is `NaN`.\n */
@SinceKotlin("1.2")\n@InlineOnly
public actual inline fun sinh(x: Double): Double = nativeMath.sinh(x)/n\n
/** Computes the hyperbolic cosine of the value [x].\n * \`cosh(NaN)\` is `NaN`.\n */
@SinceKotlin("1.2")\n@InlineOnly
public actual inline fun cosh(x: Double): Double = nativeMath.cosh(x)/n\n
/** Computes the hyperbolic tangent of the value [x].\n * \`tanh(NaN)\` is `NaN`.\n */
@SinceKotlin("1.2")\n@InlineOnly
public actual inline fun tanh(x: Double): Double = nativeMath.tanh(x)/n\n
/** Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n * \`hypot(NaN)\` is `NaN`.\n */
@SinceKotlin("1.2")\n@InlineOnly
public actual inline fun hypot(x: Double, y: Double): Double = nativeMath.hypot(x, y)/n\n
/*

 contributors.

 */

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9780
double): Double = nativeMath.hypot(x, y) * Computes the positive square root of the value \[ |x| \] if \( x \neq 0 \) or \( y \neq 0 \). Special cases:\n * - - \`sqrt(x)` is \`NaN\` when \( x < 0 \) or \( x \) is \`NaN\`\n * @SinceKotlin("1.2\")\@InlineOnly\@nblepublic actual inline fun sqrt(x: Double): Double = nativeMath.sqrt(x)\n
/**
 * Computes Euler's number e raised to the power of the value \[ x \].
 *
 * Special cases:\n * - \`exp(0)\` is \`1.0\`
 * - \`exp(1)\` is \`e\`
 * - \`exp(2)\` is \`e^2\`
 * - \`exp(\(+Inf\))\` is \`+Inf\`
 */
@SinceKotlin("1.2\")\@InlineOnly\@nblepublic actual inline fun exp(x: Double): Double = nativeMath.exp(x)\n
/**
 * Computes \( e^x - 1 \).
 *
 * This function can be implemented to produce more precise result for \( x \) near zero.\n * Special cases:\n * - \`expm1(0)\` is \`0.0\`
 * - \`expm1(\(-Inf\))\` is \`-Inf\`
 * - \`expm1(\(+Inf\))\` is \`+Inf\`
 */
@SinceKotlin("1.2\")\@InlineOnly\@nblepublic actual inline fun expm1(x: Double): Double = nativeMath.expm1(x)\n
/**
 * Computes the logarithm of the value \[ x \] to the given base.\n * Special cases:\n * - \`log(x, b)` is \`NaN\` if either \( x \) or \( b \) are \`NaN\`
 * - \`log(x, b)` is \`NaN\` when \( x < 0 \) or \( b < 0 \) or \( b == 1.0\)
 * - \`log(1.0, b)` is \`0.0\`
 * - \`log(x, +Inf)` is \`-Inf\`
 */
@SinceKotlin("1.2\")\@InlineOnly\@nblepublic actual fun log(x: Double, base: Double): Double = nativeMath.log(x) / nativeMath.log(base)\n
/**
 * Rounds the given value \[ x \] to the nearest integer.
 *
 * Special cases:\n * - \`ceil(x)` is \`x\` where \( x \) is \`NaN\` or \`+Inf\` or \`-Inf\` or already a mathematical integer.\n * @SinceKotlin("1.2\")\@InlineOnly\@nblepublic actual inline fun floor(x: Double): Double = nativeMath.ceil(x)\n
/**
 * Rounds the given value \[ x \] towards zero.\n * Special cases:\n * - \`floor(x)` is \`x\` where \( x \) is \`NaN\` or \`+Inf\` or \`-Inf\` or already a mathematical integer.\n */
@SinceKotlin("1.2\")\@InlineOnly\@nblepublic actual inline fun truncate(x: Double): Double = nativeMath.trunc(x)\n
/**
 * Rounds the given value \[ x \] to the closest integer with ties rounded towards even integer.\n */
@SinceKotlin("1.2")\@nblepublic actual fun round(x: Double): Double = nativeMath.round(x)\n
/**
 * Returns the absolute value of the given value \[ x \].
 *
 * Special cases:\n * - \`abs(x)` is \`abs(x)` where \( x \) is \`NaN\`\n */
@SinceKotlin("1.2")\@nblepublic actual inline fun abs(x: Double): Double = nativeMath.abs(x)\n
/**
 * Returns the sign of the given value \[ x \]:
 * - \`+1.0\` if the value is positive\n */
@SinceKotlin("1.2")\@InlineOnly\@nblepublic actual inline fun sign(x: Double): Double =
nativeMath.sign(x)\n


/**
 * Returns the smaller of two values.\n * If either value is `NaN`, then the result is `NaN`.\n * @since Kotlin("1.2")\n */
@InlineOnly
public actual inline fun min(a: Double, b: Double): Double = 

/**
 * Returns the greater of two values.\n * If either value is `NaN`, then the result is `NaN`.\n * @since Kotlin("1.2")\n */
@InlineOnly
public actual inline fun max(a: Double, b: Double): Double = 

// extensions

/**
 * Raises this value to the power \[x\].\n * Special cases:\n * - `b.pow(0.0)` is `1.0`\n * - `-b.pow(1.0)` is `b.pow(NaN)`\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b)` is `1.0`\n * - `-b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */
@InlineOnly
public actual inline fun pow(x: Double): Double = 

/**
 * Returns the absolute value of this value.\n * Special cases:\n * - `NaN.absValue` is `NaN`\n * @see abs function\n */
@InlineOnly
public actual inline val abs: Double get() = nativeMath.abs(this)

/**
 * Returns the sign of this value:\n * - `-1.0` if the value is negative\n * - zero if the value is zero\n * - `1.0` if the value is positive\n * @since Kotlin("1.2")\n */
@InlineOnly
public actual inline val sign: Double get() = nativeMath.sign(this)

/**
 * Returns this value with the sign bit same as of the \[sign\] value.\n * Special Cases:\n * - `NaN.withSign` is `NaN`\n */
@InlineOnly
public actual inline fun withSign(sign: Int): Double = 

/**
 * Returns the ulp (unit in the last place) of this value.\n * Special Cases:\n * - `NaN.ulp` is `NaN`\n * - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n * - `0.0.ulp` is `Double.MIN_VALUE`\n */
public actual val ulp: Double get() = 

/**
 * Returns the \[Double\] value nearest to this value in direction of positive infinity.\n * Special cases:\n * - `x.nextUp()` is `Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.nextDown()` is `Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n */
public actual fun nextUp(): Double = 

/**
 * Returns the \[Double\] value nearest to this value in direction of negative infinity.\n * Special cases:\n * - `x.nextTowards(y)` is `Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.nextTowards(y)` is `Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n */
public actual fun nextTowards(to: Double): Double = 

/**
 * Rounds this \[Double\] value to the nearest integer and converts the result to \[Int\].\n * Special cases:\n * - `x.rint()` is `Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.rint()` is `Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n */
public actual fun rint(): Int = 

nativeMath.round(this).unsafeCast<Double>().toInt()
Float Math

/** Computes the sine of the angle [x] given in radians. */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sin(x: Float): Float =
nativeMath.sin(x.toDouble()).toFloat()\

/** Computes the cosine of the angle [x] given in radians. */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cos(x: Float): Float =
nativeMath.cos(x.toDouble()).toFloat()\

/** Computes the tangent of the angle [x] given in radians. */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tan(x: Float): Float =
nativeMath.tan(x.toDouble()).toFloat()\

/** Computes the arc sine of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians. */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asin(x: Float): Float =
nativeMath.asin(x.toDouble()).toFloat()\

/** Computes the arc cosine of the value [x]; the returned value is an angle in the range from `0.0` to `PI` radians. */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acos(x: Float): Float =
nativeMath.acos(x.toDouble()).toFloat()\

/** Computes the arc tangent of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians. */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atan(x: Float): Float =
nativeMath.atan(x.toDouble()).toFloat()\

/** Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond to the rectangular coordinates `(x, y)` by computing the arc tangent of the value `y` / `x`. */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atan2(y: Float, x: Float): Float =
nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()\

/** Computes the hyperbolic sine of the value [x]. */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sinh(x: Float): Float =
nativeMath.sinh(x.toDouble()).toFloat()\

/** Computes the hyperbolic cosine of the value [x]. */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cosh(x: Float): Float =
nativeMath.cosh(x.toDouble()).toFloat()\

/** Computes the hyperbolic tangent of the value [x]. */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tanh(x: Float): Float =
nativeMath.tanh(x.toDouble()).toFloat()\

/** Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow. */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun hypot(x: Float, y: Float): Float =
nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()
hypot(x, y): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()/* Computes the positive square root of the value [x],\n * Special cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */@SinceKotlin("1.2")@InlineOnly@public actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()/* Computes Euler's number `e` raised to the power of the value [x].\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n */@SinceKotlin("1.2")@InlineOnly@public actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()/* Computes `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `-1.0`\n */@SinceKotlin("1.2")@InlineOnly@public actual inline fun expm1(x: Float): Float = nativeMath.expm1(x.toDouble()).toFloat()/* Computes the logarithm of the value [x] to the given [base].\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * - `log(x, b)` is `NaN` when `x < 0`\n * or `b <= 0` or `b == 1.0`\n */@SinceKotlin("1.2")@InlineOnly@public actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()/* Computes the natural logarithm (base `E`) of the value [x].\n * Special cases:\n * - `ln(NaN)` is `NaN`\n */@SinceKotlin("1.2")@InlineOnly@public actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()/* Computes the common logarithm (base 10) of the value [x].\n */@SinceKotlin("1.2")@InlineOnly@public actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()/* Computes the binary logarithm (base 2) of the value [x].\n */@SinceKotlin("1.2")@InlineOnly@public actual inline fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()/* Computes the absolute value of the given value [x].\n */@SinceKotlin("1.2")@InlineOnly@public actual inline fun abs(x: Float): Float = nativeMath.abs(x.toDouble()).toFloat()/* Computes the sign of the given value [x]:\n */@SinceKotlin("1.2")@InlineOnly@public actual inline fun sign(x: Float): Float =
nativeMath.sign(x.toDouble()).toFloat() // Returns the smaller of two values.

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun min(a: Float, b: Float): Float = nativeMath.min(a, b)

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)

/**
 * Raises this value to the power [x].
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun pow(a: Float, b: Float): Float = nativeMath.pow(a, b)

/**
 * Returns the absolute value of this value.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline val absoluteValue: Float get() = nativeMath.abs(a)

/**
 * Returns the sign of this value:
 *   - `-1.0` if the value is negative,
 *   - `0.0` if the value is zero,
 *   - `1.0` if the value is positive
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline val sign: Float get() = nativeMath.sign(a)

/**
 * Returns this value with the sign bit same as of the [sign] value.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun withSign(sign: Float): Float = this.toDouble().withSign(sign.toDouble()).toFloat()

/**
 * Returns this value with the sign bit same as of the [sign] value.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun withSign(sign: Int): Float = this.toDouble().withSign(sign.toDouble()).toFloat()

/**
 * Rounds this [Float] value to the nearest integer and converts the result to [Int].
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun roundToInt(): Int = this.toInt()

/**
 * Rounds this [Float] value to the nearest integer and converts the result to [Long].
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun roundToLong(): Long = this.toLong()
*\@SinceKotlin("1.2")\@Suppress("NOTHING_TO_INLINE")\*public actual inline fun min(a: Long, b: Long): Long = if (a <= b) a else b

*\@SinceKotlin("1.2")\@Suppress("NOTHING_TO_INLINE")\*public actual inline fun max(a: Long, b: Long): Long = if (a >= b) a else b

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
@Suppress("NOTHING_TO_INLINE")
public actual inline fun Long.absoluteValue: Long get() = abs(this) //\n
/**
 * Returns the sign of this value:
 *   - `-1` if the value is negative,
 *   - `0` if the value is zero,
 *   - `1` if the value is positive
 */
@SinceKotlin("1.2")
@WasExperimental(ExperimentalStdlibApi::class)
public actual fun Int.countOneBits(): Int {
    // Hacker's Delight 5-1 algorithm
    var v = this
    v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)
    v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)
    v = (v and 0x0F0F0F0F) + (v.ushr(4) and 0x0F0F0F0F)
    v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)
    v = (v and 0x0000FFFF) + (v.ushr(16))
    return v
}

/**
 * Rotates the binary representation of this \[Int\] number left by the specified \[bitCount\] number of bits.
 * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public actual fun Int.rotateLeft(bitCount: Int): Int =

shl(bitCount) or ushr(Int.SIZE_BITS - bitCount) * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.
* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.
* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count.
`number.rotateRight(-n) == number.rotateLeft(n)` * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally:
`number.rotateRight(n) == number.rotateRight(n % 32)`

`@SinceKotlin("1.3") @ExperimentalStdlibApi
public actual fun Int.rotateRight(bitCount: Int): Int =
    shl(Int.SIZE_BITS - bitCount) or ushr(bitCount) * Counts the number of set bits in the binary representation of this [Int] number.

`@SinceKotlin("1.4") @WasExperimental(ExperimentalStdlibApi::class)
public actual fun Long.countOneBits(): Int =
    high.countOneBits() + low.countOneBits() * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.

`@SinceKotlin("1.4") @WasExperimental(ExperimentalStdlibApi::class)
public actual fun Long.countLeadingZeroBits(): Int =
    when (val high = this.high) {
        0 -> Int.SIZE_BITS +
        high.countLeadingZeroBits() * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number.
    } else -> high.countLeadingZeroBits() * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.

`@SinceKotlin("1.4") @WasExperimental(ExperimentalStdlibApi::class)
public actual fun Long.countTrailingZeroBits(): Int =
    when (val low = this.low) {
        0 -> Int.SIZE_BITS +
        low.countTrailingZeroBits() * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number.
    } else -> low.countTrailingZeroBits() * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.
* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.
* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count.
`number.rotateLeft(-n) == number.rotateRight(n)` * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally:
`number.rotateLeft(n) == number.rotateLeft(n % 64)`

`@SinceKotlin("1.3") @ExperimentalStdlibApi
public actual fun Long.rotateLeft(bitCount: Int): Long {
    if ((bitCount and 31) != 0) {
        val low = this.low
        val high = this.high
        val newLow = low.shl(bitCount) or high.ushr(-bitCount)
        val newHigh = high.shl(bitCount) or low.ushr(-bitCount)
        return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(high, low)
    } else {
        return if ((bitCount and 32) == 0) Long(this.high, this.low) else Long(high, low)
    }
}

`@SinceKotlin("1.4") @WasExperimental(ExperimentalStdlibApi::class)
public actual fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount) * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.
* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.
* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count.
`number.rotateRight(-n) == number.rotateLeft(n)` * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally:
`number.rotateRight(n) == number.rotateRight(n % 64)`

`@SinceKotlin("1.3") @ExperimentalStdlibApi

public open external class Promise<out T>(executor: (resolve: (T) -> Unit) -> Unit) {
    @LowPriorityInOverloadResolution
    public open fun <S> then(onFulfilled: ((T) -> S)?): Promise<S>

    @LowPriorityInOverloadResolution
    public open fun <S> then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>

    public open fun <S> catch(onRejected: (Throwable) -> S): Promise<S>

    companion object {
        public fun <S> all(promise: Array<out Promise<S>>): Promise<Array<out S>>

        public fun <S> race(promise: Array<out Promise<S>>): Promise<Array<out S>>

        public fun reject(e: Throwable): Promise<Nothing>

        public fun <S> resolve(e: S): Promise<S>

        public fun <S> resolve(e: Promise<S>): Promise<S>
    }
}

// It's workaround for KT-19672 since we can fix it properly until KT-11265 isn't fixed.
inline fun <T, S> Promise<Promise<T>>.then(
    noinline onFulfilled: ((T) -> S)?
): Promise<S> {
    return this.unsafeCast<Promise<T>>().then(onFulfilled)
}

inline fun <T, S> Promise<Promise<T>>.then(
    noinline onFulfilled: ((T) -> S)anine S?,
    noinline onRejected: ((Throwable) -> S)?
): Promise<S>
{
    return this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)
}

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 */

package kotlin.random

import kotlin.math.pow

internal actual fun defaultPlatformRandom(): Random =
    Random(js("(Math.random() *
    Math.pow(2, 32)) | 0").unsafeCast<Int>())

private val INV_2_26: Double = 2.0.pow(-26)
private val INV_2_53: Double = 2.0.pow(-53)
internal actual fun doubleFromParts(hi26: Int, low27: Int): Double =
    hi26 * INV_2_26 + low27 * INV_2_53

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 */

package kotlin.reflect

import findAssociatedObject

/**
 * The experimental marker for associated objects API.
 */
@Retention(value = AnnotationRetention.BINARY)
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class ExperimentalAssociatedObjects

/**
 * Makes the annotated annotation class an associated object key.
 *
 * An associated object key annotation should have single [KClass] parameter. When applied to a class with
 * reference to an object declaration as an argument, it binds the object to the class, making this binding
 * discoverable at runtime using [findAssociatedObject].
 */
@ExperimentalAssociatedObjects
@Retention(AnnotationRetention.BINARY)
public inline fun <reified T : Annotation> KClass<*>.findAssociatedObject(): Any? =
    this.findAssociatedObject(T::class)

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 */

package kotlin.js

import kotlin.reflect.kClass
import kotlin.reflect.js.internal.KClassImpl

/**
 * Represents the constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.
 */
external interface JsClass<T : Any> {
    /**
     * Returns the unqualified name of the class represented by
     * this instance.
     */
    val name: String
}

val <T : Any> KClass<T>.js: JsClass<T>
    get() = getKClass(this)

val <T : Any> JsClass<T>.kotlin: KClass<T>
    get() = getKClass(this)

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 */

package kotlin.reflect.js.internal

import kotlin.reflect.*

internal abstract class KClassImpl<T : Any>(
    internal open val jClass: JsClass<T>
) : KClass<T> {

    override val qualifiedName: String?
        get() = TODO()

    override fun equals(other: Any?): Boolean {
        return other
}"
is KTypeImpl 
classifier == other.classifier && arguments == other.arguments &&
isMarkedNullable == other.isMarkedNullable

override fun hashcode(): Int =
    classifier.hashCode() * 31 + arguments.hashCode()

override fun toString(): String {
    val kClass = classifier as? KClass<*>
    val classifierName = when {
        kClass == null -> "null"
        kClass.simpleName != null -> kClass.simpleName
        else -> "(non-denotable type)"
    } as String
    if (arguments.isEmpty()) ""
    else arguments.joinToString(", ", "<", ">") { it.asString() }
    val nullable = if (isMarkedNullable) "?" else ""
    // TODO: this should be the implementation of KTypeProjection.toString, see KT-3007
    private fun KTypeProjection.asString(): String {
        if (variance == null) return "*"
        return variance.prefixString() + type.toString() + nullable
    }

    return classifier.toString() + " kClass.simpleName != null -> kClass.simpleName else -> "(non-denotable type)"
}

internal object DynamicKType : KType {
    override val classifier: KClassifier? = null
    override val arguments: List<KTypeProjection> = emptyList()
    override val isMarkedNullable: Boolean = false
}

internal fun KVariance.prefixString(): String =
    when (this) {
        KVariance.INVARIANT -> ""
        KVariance.OUT -> "\"out\" ", "<", ">")
    }

package kotlin.reflect.js.internal

import kotlin.reflect.*

internal data class KTypeParameterImpl(
    override val name: String,
    override val upperBounds: List<KType>,
    override val variance: KVariance,
    override val isReified: Boolean
) : KTypeParameter {
    override fun toString(): String = name
}

package kotlin.reflect.js.internal

import kotlin.js.JsName

@JsName("PrimitiveClasses")
internal object PrimitiveClasses {
    @JsName("anyClass")
    val anyClass = PrimitiveKClassImpl(js("Object").unsafeCast<JsClass<Any>>(), "Any", { it is Any })

    @JsName("numberClass")
    val numberClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Number>>(), "Number", { it is Number })

    @JsName("nothingClass")
    val nothingClass = NothingKClassImpl

    @JsName("booleanClass")
    val booleanClass = PrimitiveKClassImpl(js("Boolean").unsafeCast<JsClass<Boolean>>(), "Boolean", { it is Boolean })

    @JsName("byteClass")
    val byteClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Byte>>(), "Byte", { it is Byte })

    @JsName("shortClass")
    val shortClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(), "Short", { it is Short })

    @JsName("intClass")
    val intClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Int>>(), "Int", { it is Int })

    @JsName("floatClass")
    val floatClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Float>>(), "Float", { it is Float })

    @JsName("doubleClass")
    val doubleClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Double>>(), "Double", { it is Double })

    @JsName("arrayClass")
    val arrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<*>>>(), "Array", { it is Array })

    @JsName("stringClass")
    val stringClass = PrimitiveKClassImpl(js("String").unsafeCast<JsClass<String>>(), "String", { it is String })

    @JsName("throwableClass")
    val throwableClass = PrimitiveKClassImpl(js("Error").unsafeCast<JsClass<Throwable>>(), "Throwable", { it is Throwable })

    @JsName("booleanArrayClass")
    val booleanArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<Boolean>>>(), "BooleanArray", { it is BooleanArray })

    @JsName("charArrayClass")
    val charArrayClass = PrimitiveKClassImpl(js("Char16Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray })

    @JsName("byteArrayClass")
    val byteArrayClass = PrimitiveKClassImpl(js("Int8Array").unsafeCast<JsClass<ByteArray>>(), "ByteArray", { it is ByteArray })

    @JsName("shortArrayClass")
    val shortArrayClass = PrimitiveKClassImpl(js("Int16Array").unsafeCast<JsClass<ShortArray>>(), "ShortArray", { it is ShortArray })
```
import kotlin.reflect.*
import kotlin.reflect.js.internal.*

@JsName("getKClass")
internal fun <T : Any>
    getKClass(jClass: Any /* JsClass<T> | Array<JsClass<T>> */): KClass<T> {
    return if (js("Array").isArray(jClass)) {
        getKClassM(jClass.unsafeCast<Array<JsClass<T>>>())
    } else {
        getKClass1(jClass.unsafeCast<JsClass<T>>())
    }
}

@JsName("getKClassM")
internal fun <T : Any>
    getKClassM(jClasses: Array<JsClass<T>>): KClass<T> = when (jClasses.size) {
    1 ->
        getKClass1(jClasses[0])
    0 -> NothingKClassImpl.unsafeCast<KClass<T>>()
    else ->
        ErrorKClass().unsafeCast<KClass<T>>()
}

@JsName("getKClassFromExpression")
internal fun <T : Any>
    getKClassFromExpression(e: T): KClass<T> =
    when (jsTypeOf(e)) {
        "string" ->
            PrimitiveClasses.stringClass
        "number" -> if (jsBitwiseOr(e, 0).asDynamic() === e)
            PrimitiveClasses.intClass else PrimitiveClasses.doubleClass
        "boolean" ->
            PrimitiveClasses.booleanClass
        "function" ->
            PrimitiveClasses.functionClass
        else -> {
            when {
                e is BooleanArray ->
                    PrimitiveClasses.booleanArrayClass
                e is CharArray ->
                    PrimitiveClasses.charArrayClass
                e is ByteArray ->
                    PrimitiveClasses.byteArrayClass
                e is ShortArray ->
                    PrimitiveClasses.shortArrayClass
                e is IntArray ->
                    PrimitiveClasses.intArrayClass
                e is LongArray ->
                    PrimitiveClasses.longArrayClass
                else -> {
                    val constructor = js("Object").getPrototypeOf(e).constructor
                    when ("\n                        constructor === js("Object") ->
                        PrimitiveClasses.anyClass
                    else js("Error").constructor
                        ->
                        PrimitiveClasses.throwableClass
                    }
                }
            }
        }
    }
```

definedExternally) {

    public fun test(str: String): Boolean

    public fun exec(str: String): RegExpMatch?

    public override fun toString(): String

    /**
     * The lastIndex is a read/write integer property of regular
     * expressions that specifies the index at which to start the next match.
     * *new public var lastIndex: Int
     * Returns the entire text matched by [RegExp.exec] if
     * the [index] parameter is 0, or the text matched by the capturing parenthesis
     * at the given index.
     */
    public var lastIndex: Int

    public val global: Boolean
    public val ignoreCase: Boolean
    public val multiline: Boolean
}

/**
 * Resets the
 * regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning
 * of the input string.
 */
public fun RegExp.reset() {
    lastIndex = 0
}

// TODO: Inherit from array or introduce asArray() extension
/**
 * Represents the return value of [RegExp.exec].
 */
@Suppress("NOT_DOCUMENTED")
public external interface RegExpMatch {
    public val index: Int
    public val input: String
    public val length: Int
}

/**
 * Returns the entire text matched by [RegExp.exec] if
 * the [index] parameter is 0, or each subsequent
 * element is the text matched by each capturing parenthesis.
 */
public fun RegExpMatch.asArray(): Array<out String?> = unsafeCast<Array<out String?>>()

private var sequenceRef: Sequence<T>? = sequence

actual override fun iterator(): Iterator<T> {
    val sequence = sequenceRef ?: throw IllegalStateException("This sequence can be consumed only once.
    
    sequenceRef = null
    return sequence.iterator()
}

actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)

actual override fun append(value: Char): StringBuilder {
    string += value
    return this
}

actual override fun append(value: CharSequence?): StringBuilder {
    string += value.toString()
    return this
}

actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =
    this.appendRange(value ?: "null", startIndex, endIndex)

/**
 * Reverses the contents of this string builder
 * and returns this instance.
 */
fun reverse(): StringBuilder {
    var reversed = ""
    var index = string.length - 1
    while (index >= 0) {
        reversed += string[index--]
    }
    return StringBuilder(reversed)
}

fun asArray(): Array<out String?> = unsafeCast<Array<out String?>>()
operator fun set(index: Int, value: Char) {
    AbstractList.checkElementIndex(index, length)

    string = string.substring(0, index) + value + string.substring(index + 1)
}

/**
 * Removes the character at the specified [index] from this string builder and returns this instance.
 * @throws IndexOutOfBoundsException if [index] is less than zero. Greater than or equal to the length of
 * this string builder.
 */
@SinceKotlin("1.3")
public fun clear(): StringBuilder {
    string = ""
    return this
}
deleteRange(startIndex: Int, endIndex: Int): StringBuilder {
    checkReplaceRange(startIndex, endIndex, length)

    string = string.substring(0, startIndex) + string.substring(endIndex)
    return this
} /* Copies characters from this string builder into the [destination] character array. */

* @param destination the array to copy to.
* @param destinationOffset the position in the array to copy to, 0 by default.
* @param startIndex the beginning (inclusive) of the range to copy, 0 by default.
* @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.

IndexOutOfBoundsException or IllegalArgumentException when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset].
* or when that index is out of the [destination] array indices range.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)

    var dstIndex = destinationOffset
    for (index in startIndex until endIndex) {
        destination[dstIndex++] = string[index]
    }
}

/**
 * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.
 * Characters are appended in order, starting at specified [startIndex].
 * @param value the array from which characters are appended.
 * @param startIndex the beginning (inclusive) of the subarray to append.
 * @param endIndex the end (exclusive) of the subarray to append.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {
    string += value.concatToString(startIndex, endIndex)
    return this
}

/**
 * Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.
 * Characters are appended in order, starting at specified [startIndex].
 * The inserted characters go in same order as in the [value] character sequence, starting at [index].
 * @param value the character sequence from which a subsequence is appended.
 * @param startIndex the beginning (inclusive) of the subsequence to append.
 * @param endIndex the end (exclusive) of the subsequence to append.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder {
    val stringCsq = value.toString()

    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)

    string += stringCsq.substring(startIndex, endIndex)
    return this
}

/**
 * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.
 * The inserted characters go in same order as in the [value] array, starting at [index].
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param startIndex the beginning (inclusive) of the subarray to insert.
 * @param endIndex the end (exclusive) of the subarray to insert.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun insertRange(index: Int, value: CharArray, start: Int, end: Int): StringBuilder {
    string += value.concatToString(start, end)

    AbstractList.checkPositionIndex(index, this.length)

    string = string.substring(0, index) + value.concatToString(start, end) + string.substring(index)
    return this
}

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.
 * The inserted characters go in the same order as in the [value] character sequence, starting at [index].
 * @param index the position in this string builder to insert at.
 * @param value the character sequence from which a subsequence is inserted.
 * @param startIndex the beginning (inclusive) of the subsequence to insert.
 * @param endIndex the end (exclusive) of the subsequence to insert.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun insertRange(index: Int, value: CharArray, start: Int, end: Int): StringBuilder {
    AbstractList.checkPositionIndex(index, this.length)

    string = string.substring(0, index) + value.concatToString(start, end) + string.substring(index)
    return this
}
public actual inline fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) =
    this.toCharArray(destination, destinationOffset, startIndex, endIndex)

/**
 * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance. Characters are appended in order, starting at specified [startIndex].
 * @param value the array from which characters are appended.
 * @param startIndex the beginning (inclusive) of the subarray to append.
 * @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.
 */

public actual inline fun StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =
    this.appendRange(value, startIndex, endIndex)

/**
 * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance. The inserted characters go in same order as in the [value] array, starting at [index].
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param startIndex the beginning (inclusive) of the subarray to insert.
 * @param endIndex the end (exclusive) of the subarray to insert.
 * @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.
 */

public actual inline fun StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =
    this.insertRange(index, value, startIndex, endIndex)

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the character sequence from which a subsequence is inserted.
 * @param startIndex the beginning (inclusive) of the subsequence to insert.
 * @param endIndex the end (exclusive) of the subsequence to insert.
 * @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.
 */

public actual inline fun StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =
    this.insertRange(index, value, startIndex, endIndex)
found in the license/LICENSE.txt file.

```kotlin
package kotlin.text

// actually \s is enough to match all whitespace, but \xA0 added because of different regexp behavior of Rhino used in Selenium tests
public actual fun Char.isWhitespace(): Boolean = toString().matches("[\\s\\xA0]")

@kotlin.internal.InlineOnly
public actual inline fun Char.toLowerCase(): Char = js("String.fromCharCode")((toInt()).lowerCase().charCodeAt(0)).toLowerCase().charCodeAt(0).unsafeCast<Int>().toChar()

@kotlin.internal.InlineOnly
public actual inline fun Char.toUpperCase(): Char = js("String.fromCharCode")((toInt()).toUpperCase().charCodeAt(0)).toUpperCase().charCodeAt(0).unsafeCast<Int>().toChar()

/**
 * Returns `true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).
 */
public actual fun Char.isHighSurrogate(): Boolean = this in Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE

/**
 * Returns `true` if this character is a Unicode low-surrogate code unit (also known as trailing-surrogate code unit).
 */
public actual fun Char.isLowSurrogate(): Boolean = this in Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE
```

---

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```plaintext
/*
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 */
```

---

The text below the license information is as follows:

```kotlin
/**
 * Returns `true` if the content of this string is equal to the word "true", ignoring case, and `false` otherwise.
 */
@SinceKotlin("1.4")
public actual fun String?.toBoolean(): Boolean = this != null && this.toLowerCase() == "true"

/**
 * Parses the string as a signed [Byte] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toByte(): Byte = toByteOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a signed [Byte] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
public actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as an [Short] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toShort(): Short = toShortOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a [Short] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
public actual fun String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as an [Int] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toInt(): Int = toIntOrNull() ?: numberFormatError(this)

/**
 * Parses the string as an [Int] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
public actual fun String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as a [Long] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a [Long] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
public actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as a [Double] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toDouble(): Double = (+(this.asDynamic())).unsafeCast<Double>().also {
    if (it.isNaN() && !this.isNaN()
        || it == 0.0 && this.isBlank())
        numberFormatError(this)
}
```

---

The document contains additional code that is not shown in the extract. The code appears to be related to string manipulation and character classification, with functions for checking whitespace, case conversion, and surrogate code unit detection.
number.

```kotlin
number.

@kotlin.internal.InlineOnly
public actual inline fun String.toFloat(): Float =
    toDouble().unsafeCast<Float>()

/**
 * Parses the string as a [Double] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@kotlin.internal.InlineOnly
public actual inline fun String.toDouble(): Double =
    asDynamic().toDouble().unsafeCast<Double>()

/**
 * Parses the string as a [Double] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@kotlin.internal.InlineOnly
public actual inline fun String.toDoubleOrNull(): Double? =
    asDynamic().toDouble().takeIf {
        it != 0.0 &&
        it.isNaN() || it == 0.0 &&
        this.isNotBlank() &&
        !isNa() &&
        !this.isNaN() &&
        this.isNotBlank()
    }

/**
 * Parses the string as a [Float] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@kotlin.internal.InlineOnly
public actual inline fun String.toFloatOrNull(): Float? =
    toDoubleOrNull().unsafeCast<Float?>()

/**
 * Parses the string as a [Double] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
public actual fun String.toDouble(): Double =
    asDynamic().toDouble().takeIf {
        it != 0.0 &&
        it.isNaN() || it == 0.0 &&
        this.isNotBlank() &&
        !isNa() &&
        !this.isNaN() &&
        this.isNotBlank()
    }

/**
 * Parses the string as a [Float] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
public actual fun String.toFloat(): Float =
    asDynamic().toFloat().takeIf {
        it != 0.0 &&
        it.isNaN() || it == 0.0 &&
        this.isNotBlank() &&
        !isNa() &&
        !this.isNaN() &&
        this.isNotBlank()
    }

/**
 * Parses the string as a [Double] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
public actual fun String.toDouble(): Double =
    asDynamic().toDouble().takeIf {
        it != 0.0 &&
        it.isNaN() || it == 0.0 &&
        this.isNotBlank() &&
        !isNa() &&
        !this.isNaN() &&
        this.isNotBlank()
    }
```

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

package kotlin.text

import kotlin.js.RegExp

/**
 * Provides enumeration values to use to set regular expression options.
 */
public actual enum class RegexOption(val value: String) {
    /** Enables case-insensitive matching. */
    IGNORE_CASE("i"),
    /** Enables multiline mode. */
    MULTILINE("m")
}

/**
 * Represents the results from a single capturing group within a [MatchResult] of [Regex].
 *
 * @param value The value of captured group.
 */
public actual data class MatchGroup(actual val value: String)

/**
 * Represents a compiled regular expression.
 * Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.
 *
 * For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)
 * and
 * [http://www.w3schools.com/jsref/jsref_obj_regexp.asp](http://www.w3schools.com/jsref/jsref_obj_regexp.asp).
 */
public actual constructor(pattern: String, options: Set<RegexOption>) {
    /** Creates a regular expression from the specified [pattern] string and the specified single [option]. */
    public actual constructor(pattern: String, option: RegexOption) : this(pattern, setOf(option))
    /** Creates a regular expression from the specified [pattern] string and the default options. */
    public actual constructor(pattern: String) : this(pattern, emptySet())

    /** The pattern string of this regular expression. */
    public actual fun pattern(): String =
        pattern

    /** The set of options that were used to create this regular expression. */
    public actual fun options(): Set<RegexOption> =
        options
    ```
nativePattern.reset()\n        return nativePattern.test(input.toString())\n    }\n
    /** Returns the first match of a regular expression in the [input], beginning at the specified [startIndex].\n    * @param startIndex An index to start search with, by default 0. Must be not less than zero and not greater than `input.length()`\n    * @return An instance of [MatchResult] if match was found or 'null' otherwise.\n    * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence.\n    */\n    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n    public actual fun find(input: CharSequence, startIndex: Int = 0): MatchResult? {
        if (startIndex < 0 || startIndex > input.length) {
            throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length: ${input.length}")\n        }\n
        return nativePattern.findNext(input.toString(), startIndex)\n    }\n
    /**\n     * Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified [startIndex].\n     *\n     * @param input A CharSequence.\n     * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.\n     * @param replacement A replacement expression that can include substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.\n     * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.\n     */\n    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n    public actual fun split(input: CharSequence, limit: Int = 0): List<String> {
        require(limit >= 0) { "Limit must be non-negative, but was $limit" }\n        val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) }\n
        val result = mutableListOf<String>(){\n            var lastStart = 0\n            for (match in matches) {\n                result.add(input.subSequence(lastStart, match.range.start).toString())\n                lastStart = match.range.endInclusive + 1\n            }\n        }\n    }
result.add(input.subSequence(lastStart, input.length).toString())
return result
}
/**
 * Returns the string representation of this regular expression, namely the [pattern] of this regular
 * expression. * Note that another regular expression constructed from the same pattern string may have
different [options] * and may match strings differently. * Returns a regular expression pattern string that matches
the specified [literal] string literally. * No characters of that string will have special meaning when searching
for an occurrence of the regular expression. */
public actual fun fromLiteral(literal: String): String =

actual companion object {
    /**
     * Returns a regular expression that matches the specified [literal] string literally. * No characters of that string will have special meaning when searching for
an occurrence of the regular expression. */
    public actual fun fromLiteral(literal: String): Regex =

/**
 * Creates a regular expression from the specified [pattern] string and the specified single [option].
 */
@Deprecated("Provided for binary compatibility", level = DeprecationLevel.HIDDEN)
public actual fun Regex_0(pattern: String, option: RegexOption): Regex =

/** Creates a regular expression from the specified [pattern] string and the default options. */
@Deprecated("Provided for binary compatibility", level = DeprecationLevel.HIDDEN)
public actual fun Regex_1(pattern: String): Regex =

private fun RegExp.findNext(input: String, from: Int): MatchResult? {
    this.lastIndex = from
    val match = exec(input)
    if (match == null) return null
    val range =

    return object : MatchResult {
        override val range: IntRange = range
        override val value: String
            get() = match[0]!!

        override val groups: MatchGroupCollection = object :
            MatchGroupCollection, AbstractCollection<MatchGroup?>() {
                override val size: Int get() = match.length
                override fun iterator(): Iterator<MatchGroup?> =
                    indices.asSequence().map { this[it] }.iterator()
                override fun get(index: Int): MatchGroup? =
                    match[index]!!.let {
                        MatchGroup(it)
                    }
                private var
                    groupValues_: List<String>? = null
                override val groupValues: List<String>
                    get() {
                        if (groupValues_ == null) {
                            groupValues_ = object : AbstractList<String>() {
                                override val size: Int get() = match.length
                                override fun get(index: Int): String =
                                    match[index] ?: ""
                            }
                        }
                        return groupValues_!!
                    }
                override fun get(index: Int): String = match[index] ?: ""
String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean
nativeEndsWith(suffix: String, ignoreCase: Boolean = false): Boolean

if (ignoreCase) return nativeEndsWith(suffix, ignoreCase)
else return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)

public fun String.matches(regex: String): Boolean
val result = this.match(regex)

return result != null && result.size != 0

public actual fun CharSequence.isBlank(): Boolean = length == 0

if (this is String) this else
this.toString().matches("^[\\s\\xA0]+$")

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")

public actual fun CharSequence.isBlank(): Boolean = length == 0 || (if (this is String) this else this.toString()).matches("^[\\s\\xA0]+$")


public fun String.equals(other: String?, ignoreCase: Boolean = false): Boolean
when (this == null)

return other == null
else if (!ignoreCase)

return this == other
else

return this.toLowerCase() == other.toLowerCase()


@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =
regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)


/**
 * Returns a copy of this string having its first letter titlecased using the rules of the default
locale, or the original string if it's empty or already starts with a title case letter.

 * The title case of a character is usually the same as its upper case with several exceptions.
 * The particular list of characters with the special title case form depends on the underlying platform.
 * The title case of a character is usually the same as its upper case with several exceptions.
 */

capitalize(): String {
    return if (isNotEmpty()) substring(0, 1).toUpperCase() + substring(1) else this
}

decapitalize(): String {
    return if (isNotEmpty()) substring(0, 1).toLowerCase() + substring(1) else this
}

repeat(n: Int): String {
    require(n >= 0) { "Count 'n' must be non-negative, but was $n." }

    return when (n) {
        0 -> ""
        1 -> this.toString()
        else -> {
            var result = ""
            if (!isEmpty()) {
                var s = this.toString()
                var count = n
                while (true) {
                    if ((count and 1) == 1) {
                        result += s
                    }
                    count = count ushr 1
                    if (count == 0) {
                        break
                    }
                    s += s
                }
            }
            return result
        }
    }
}

replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) "gi" else "g"),
Regex.escapeReplacement(newValue))

replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) "i" else ""),
newChar.toString())

replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) "i" else ""),
Regex.escapeReplacement(newValue))

replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) "i" else ""),
newChar.toString())

/**
 * Returns the negative [size] if [throwOnMalformed] is false, throws [CharacterCodingException] otherwise.
 */

@OptIn(ExperimentalStdlibApi::class)
private fun malformed(size: Int, index: Int, throwOnMalformed: Boolean): Int {
    if (throwOnMalformed) throw CharacterCodingException("Malformed sequence starting at $index")
    return -size
}

/**
 * Returns code point corresponding to UTF-16 surrogate pair,
 * where the first of the pair is the [high] and the second is in
 * the [string] at the [index].
 */

@Throws(IllegalArgumentException::class)
private fun
```kotlin
private fun codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (high !in 0xD800..0xDBFF || index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val low = string[index].toInt()
    if (low !in 0xDC00..0xDFFF) {
        return malformed(0, index, throwOnMalformed)
    }
    return 0x10000 + ((high and 0x3FF) shl 10) or (low and 0x3FF)
}

/**
 * Returns code point corresponding to UTF-8 sequence of two bytes,\n * where the first byte of the sequence is the\n * [byte1] and the second byte is in the [bytes] array at the [index].\n * Returns zero if the sequence is malformed and\n * [throwOnMalformed] is false.\n * @throws CharacterCodingException if the sequence of two bytes is\n * malformed and [throwOnMalformed] is true.\n */
private fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (byte1 and 0x1E == 0 || index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte2 and 0xC0 != 0x80) {
        return malformed(0, index, throwOnMalformed)
    }
    return (byte1 shl 6) xor byte2 xor -0x1E080
}

/**
 * Returns code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is malformed and [throwOnMalformed] is false.\n * @throws CharacterCodingException if the sequence of three\n * bytes is malformed and [throwOnMalformed] is true.\n */
private fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte1 and 0xF == 0) {
        if (byte2 and 0xF0 <= 0x80) {
            // Non-shortest form\n            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0xF == 0x4) {
        if (byte2 and 0xF0 != 0x80) {
            // Out of Unicode code points domain (larger than U+10FFFF)\n            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0xF > 0x4) {
        return malformed(0, index, throwOnMalformed)
    } else if (byte2 and 0xC0 != 0x80) {
        return malformed(0, index, throwOnMalformed)
    } else if (index + 1 == endIndex) {
        return malformed(1, index, throwOnMalformed)
    }
    val byte3 = bytes[index + 1].toInt()
    if (byte3 and 0xC0 != 0x80) {
        return malformed(1, index, throwOnMalformed)
    }
    if (index + 2 == endIndex) {
        return malformed(2, index, throwOnMalformed)
    }
    val byte4 = bytes[index + 2].toInt()
    if (byte4 and 0xC0 != 0x80) {
        return malformed(2, index, throwOnMalformed)
    }
    return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -0x1E080
}
```

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0xBF.toByte(), 0xBD.toByte())

/**
 * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].
 * @param string the string to encode.
 * @param startIndex the start offset (inclusive) of the substring to encode.
 * @param endIndex the end offset (exclusive) of the substring to encode.
 * @param throwOnMalformed whether to throw on malformed char sequence or replace by the
 * [REPLACEMENT_BYTE_SEQUENCE].
 *
 * @param startIndex the int
 * @param endIndex the int
 * @param throwOnMalformed the Boolean
 * @param bytes the [ByteArray]
 * @param startIndex the int
 * @param endIndex the int
 * @param throwOnMalformed the Boolean
 * @throws CharacterCodingException if the char sequence is malformed and [throwOnMalformed] is true.
 * @throws IllegalArgumentException if [startIndex] &gt; [endIndex] &amp;&amp; [startIndex] &amp;&amp; [endIndex] &lt; 0
 * &amp;&amp; [startIndex] &lt; [endIndex] &amp;&amp; [startIndex] &lt; 0x8000
 * &amp;&amp; [endIndex] &lt; 0x8000
 * &amp;&amp; [throwOnMalformed] &lt; false
 * Bytes are encoded using UTF-8. The first byte of the encoded byte sequence contains the
 * number of high-order bits that are set.
 * The encodeUtf8() method is expected to throw a
 * CharacterCodingException if the current code point is malformed. This
 * implementation does not throw an exception if the code point is
 * malformed. Instead, the first character encoded is the replacement
 * character [REPLACEMENT_CHAR].
 * The [throwOnMalformed] parameter is used to specify whether to throw an exception or
 * replace the [REPLACEMENT_CHAR].
 * @param startIndex the start offset (inclusive) of the array to be decoded.
 * @param endIndex the end offset (exclusive) of the array to be decoded.
 * @param throwOnMalformed the Boolean
 * @throws CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.
 */
internal fun encodeUtf8(string: String, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {
    require(startIndex &gt;= 0 &amp;&amp; endIndex &lt; string.length &amp;&amp; startIndex &lt;= endIndex)

    val byteIndex = 0
    var charIndex = startIndex

    while (charIndex &lt; endIndex) {
        val code = string[charIndex].toInt()
        when {
            code &lt;= 0x80 -> {
                bytes[byteIndex++] = code.toByte()
            }
            code &lt;= 0x800 -> {
                bytes[byteIndex++] = ((code shr 6) or 0x80).toByte()
                bytes[byteIndex++] = code.toByte()
            }
            code &lt;= 0xD800 -> {
                bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()
                bytes[byteIndex++] = ((code shr 6) and 0x3F) or 0x80
                bytes[byteIndex++] = code.toByte()
            }
            else -> {
                val codePoint = codePointFromSurrogate(string, code, charIndex, endIndex, throwOnMalformed)
                if (codePoint &lt;= 0) {
                    bytes[byteIndex++] = 0xEF
                    bytes[byteIndex++] = 0xBF
                    bytes[byteIndex++] = 0xBD
                } else {
                    bytes[byteIndex++] = ((codePoint shr 18) or 0xF0).toByte()
                    bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()
                    bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()
                    bytes[byteIndex++] = codePoint.toChar()
                    charIndex++
                }
            }
        }
    }

    return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)
}

/**
 * The character a malformed UTF-8 byte sequence is replaced by.
 */
private const val REPLACEMENT_CHAR = '\uFFFD'

/**
 * Decodes the UTF-8 [bytes] array and returns the resulting [String].
 * @param bytes the byte array to decode.
 * @param startIndex the start offset (inclusive) of the array to be decoded.
 * @param endIndex the end offset (exclusive) of the array to be decoded.
 * @param throwOnMalformed the Boolean
 * @throws CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.
 */
internal fun decodeUtf8(bytes: ByteArray, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {
    require(startIndex &gt;= 0 &amp;&amp; endIndex &lt; bytes.size &amp;&amp; startIndex &lt;= endIndex)

    var byteIndex = startIndex
    val stringBuilder = StringBuilder()

    while (byteIndex &lt; endIndex) {
        val byte = bytes[byteIndex++].toInt()
        when {
            byte &gt;= 0 -> {
                stringBuilder.append(byte.toChar())
            }
            byte shr 5 == -2 -> {
                val code = codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)
                if (code &lt;= 0) {
                    stringBuilder.append(REPLACEMENT_CHAR)
                } else {
                    stringBuilder.append(codePoint.toChar())
                    byteIndex += 1
                }
            }
            byte shr 4 == -2 - &gt; {
                val high = (code - 0x10000) shr 10 or 0xD800
                val low = (code and 0x3FF) or 0xDC00
                val value = (high &amp;&amp; low) toChar()
                stringBuilder.append(value)
            }
            else -> {
                malformed(0, byteIndex, throwOnMalformed)
            }
        }
    }

    return stringBuilder.toString()
}
throwable with its stack trace.

/* * The detailed description includes:
 * - the short description (see Throwable.toString()) of this throwable;
 * - the complete stack trace;
 * - detailed descriptions of the exceptions that were suppressed in order to deliver this exception;
 * - additional information such as stack trace conversion.
 */

@SinceKotlin("1.4")
public actual fun Throwable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)

/**
 * Prints the detailed description of this throwable to console error output.
 */
@SinceKotlin("1.4")
public actual fun Throwable.printStackTrace(): String = exception.dumpFullTrace("", "")

/**
 * Adds the specified exception to the list of exceptions that were suppressed in order to deliver this exception.
 */
@SinceKotlin("1.4")
public actual fun Throwable.addSuppressed(exception: Throwable) {
    if (this !== exception) {
        val suppressed = this.asDynamic()._suppressed.unsafeCast<MutableList<Throwable>?>() ?: emptyList()
        if (suppressed.contains(exception)) {
            return
        }
        suppressed.add(exception)
    }
}

/**
 * Returns a list of all exceptions that were suppressed in order to deliver this exception.
 */
@SinceKotlin("1.4")
public actual val Throwable.suppressedExceptions: List<Throwable>
    get() {
        return this.asDynamic()._suppressed?.unsafeCast<List<Throwable>>() ?: emptyList()
    }

private class ExceptionTraceBuilder {
    private val target = StringBuilder()
    private val visited = arrayOf<Throwable>()
    private var topStack: String = ""
    private var topStackStart: Int = 0

    fun buildFor(exception: Throwable): String {
        exception.dumpFullTrace("", "")
        return target.toString()
    }

    private fun hasSeen(exception: Throwable): Boolean = visited.any { it === exception }

    private fun Throwable.dumpFullTrace(indent: String, qualifier: String): Boolean {
        target.append(indent).append(qualifier)
        val shortInfo = this.toString()
        if (hasSeen(this)) {
            target.append("[CIRCULAR REFERENCE, SEE ABOVE:
"").append(shortInfo).append("]\n")
            return false
        }
        visited.push(this)

        var stack = this.asDynamic().stack as String?
        if (stack != null) {
            val stackStart = stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }
            if (stackStart == 0)
                target.append(shortInfo).append("\n")
            if (topStack.isEmpty()) {
                topStack = stack
                topStackStart = stackStart
            } else {
                stack = dropCommonFrames(stack, stackStart)
            }
            if (indent.isNotEmpty()) {
                // indent stack, but avoid indenting exception message lines
                val messageLines = if (stackStart == 0) 0 else 1 + shortInfo.count { c -> c == '\n' }
                stack.lineSequence().forEachIndexed { index: Int, line: String ->
                    if (index >= messageLines)
                        target.append(indent)
                    target.append(line).append("\n")
                }
            } else {
                target.append(stack).append("\n")
            }
        } else {
            target.append(shortInfo).append("\n")
        }
        return true
    }

    private fun dropCommonFrames(stack: String, stackStart: Int): String {
        var commonFrames: Int = 0
        var lastBreak: Int = 0
        var preLastBreak: Int = 0
        for (pos in 0 until minOf(topStack.length - topStackStart, stack.length - stackStart)) {
            val c = stack[stack.lastIndex - pos]
            if (c != topStack[topStack.lastIndex - pos]) break
            if (c == ' ') {
                preLastBreak = lastBreak
                lastBreak = pos
            }
            if (c == '\n') {
                commonFrames += 1
                preLastBreak = lastBreak
                lastBreak = pos
            }
        }
        if (commonFrames <= 1) return stack
        return stack.dropLast(preLastBreak + 1)
    }
}

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

package kotlin.time

@SinceKotlin("1.3")
@ExperimentalTime
public actual enum class DurationUnit(internal val scale: Double) {
    /**
     * Time unit representing one nanosecond, which is 1/1000 of
a microsecond.

    *\n    * Time unit representing one microsecond, which is 1/1000 of a millisecond.
    *\n    * MICROSECONDS(1e3),\n    *\n    * Time unit representing one millisecond, which is 1/1000 of a second.
    *\n    * MILLISECONDS(1e6),\n    *\n    * Time unit representing one second.
    *\n    * SECONDS(1e9),\n    *\n    * Time unit representing one minute.
    *\n    * MINUTES(60e9),\n    *\n    * Time unit representing one hour.
    *\n    * HOURS(3600e9),\n    *\n    * Time unit representing one day, which is always equal to 24 hours.

    DAYS(86400e9)
}

@SinceKotlin("1.3")
@ExperimentalTime
internal actual fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {
    val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)
    return when {
        sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)
        sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale)
        else -> value\n    }
}

@SinceKotlin("1.3")
@ExperimentalTime
internal actual object MonotonicTimeSource : TimeSource {
    private val actualSource: TimeSource = run {
        val isNode: Boolean = js("typeof process !== 'undefined' && process.versions && !!process.versions.node")\n        if (isNode)
            HrTimeSource(js("process").unsafeCast<Process>())\n        else
            js("self").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceTimeSource) ?:\n    }

    override fun markNow(): TimeMark = actualSource.markNow()
}

@SinceKotlin("1.3")
@ExperimentalTime
internal class HrTimeSource(val process: Process) : TimeSource {
    override fun markNow(): TimeMark = object : TimeMark() {
        val startedAt = process.hrtime()
        override fun elapsedNow(): Duration =
            process.hrtime(startedAt).let { (seconds, nanos) -> seconds.seconds + nanos.nanoseconds }
    }

    override fun toString(): String = "TimeSource(process.hrtime())"
}

@SinceKotlin("1.3")
@ExperimentalTime
internal class PerformanceTimeSource(val performance: Performance) : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {
    override fun read(): Double = performance.now()
    override fun toString(): String = "TimeSource(self.performance.now())"
}

@SinceKotlin("1.3")
@ExperimentalTime
internal object DateNowTimeSource : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {
    override fun read(): Double = kotlin.js.Date.now()
    override fun toString(): String = "TimeSource(Date.now())"
}
The element is initialized with the specified [init] function.

```kotlin
Element.appendElement(name: String, init: Element.() -> Unit): Element {
    contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }
    return ownerDocument!!.createElement(name, init).also {
        appendChild(it) }
}
```

```kotlin
fun Element.hasClass(cssClass: String): Boolean = className.matches("""(^|.*\s+)$cssClass($|\s+.*)""".toRegex())
```

```kotlin
fun Element.addClass(vararg cssClasses: String): Boolean {
    val missingClasses = cssClasses.filterNot { hasClass(it) }
    if (missingClasses.isNotEmpty()) {
        className = buildString {
            append(presentClasses.trim().split("\\s+".toRegex()).filter { it !in toBeRemoved }.joinToString(" "))
        }
        return true
    }
    return false
}
```

```kotlin
fun Element.removeClass(vararg cssClasses: String): Boolean {
    if (cssClasses.any { hasClass(it) }) {
        val toBeRemoved = cssClasses.toSet()
        className = className.trim().split("\\s+".toRegex()).filter { !(it !in toBeRemoved) }.joinToString(" ").trim()
        return true
    }
    return false
}
```

```kotlin
class StringBuilder : Appendable, CharSequence {
    /** Constructs an empty string builder with the specified initial [capacity]. */
    constructor(capacity: Int)

    /** Constructs a string builder that contains the same characters as the specified [content]. */
    constructor(content: String)

    /** Constructs an empty string builder with the specified initial [capacity]. */
    constructor(capacity: Int)

    override fun append(value: Char): StringBuilder
    override fun append(value: CharSequence?): StringBuilder
    override fun append(value: String): StringBuilder

    /** Reverses the contents of this string builder and returns this instance. */
    override fun reverse(): StringBuilder

    /** Appends the string representation of the specified object [value] to this string builder and returns this instance. */
    override fun append(value: CharSequence?): StringBuilder
```

```kotlin
fun appendElement(name: String, init: Element.() -> Unit): Element {
    contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }
    return ownerDocument!!.createElement(name, init).also {
        appendChild(it) }
}
```

```kotlin
fun Element.hasClass(cssClass: String): Boolean = className.matches("""(^|.*\s+)$cssClass($|\s+.*)""".toRegex())
```

```kotlin
fun Element.addClass(vararg cssClasses: String): Boolean {
    val missingClasses = cssClasses.filterNot { hasClass(it) }
    if (missingClasses.isNotEmpty()) {
        className = buildString {
            append(presentClasses.trim().split("\\s+".toRegex()).filter { it !in toBeRemoved }.joinToString(" "))
        }
        return true
    }
    return false
}
```

```kotlin
fun Element.removeClass(vararg cssClasses: String): Boolean {
    if (cssClasses.any { hasClass(it) }) {
        val toBeRemoved = cssClasses.toSet()
        className = className.trim().split("\\s+".toRegex()).filter { !(it !in toBeRemoved) }.joinToString(" ").trim()
        return true
    }
    return false
}
```

```kotlin
class StringBuilder : Appendable, CharSequence {
    /** Constructs an empty string builder with the specified initial [capacity]. */
    constructor(capacity: Int)

    /** Constructs a string builder that contains the same characters as the specified [content]. */
    constructor(content: String)

    /** Constructs an empty string builder with the specified initial [capacity]. */
    constructor(capacity: Int)

    override fun append(value: Char): StringBuilder
    override fun append(value: CharSequence?): StringBuilder
    override fun append(value: String): StringBuilder

    /** Reverses the contents of this string builder and returns this instance. */
    override fun reverse(): StringBuilder
```

```kotlin
fun appendElement(name: String, init: Element.() -> Unit): Element {
    contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }
    return ownerDocument!!.createElement(name, init).also {
        appendChild(it) }
}
```

```kotlin
fun Element.hasClass(cssClass: String): Boolean = className.matches("""(^|.*\s+)$cssClass($|\s+.*)""".toRegex())
```

```kotlin
fun Element.addClass(vararg cssClasses: String): Boolean {
    val missingClasses = cssClasses.filterNot { hasClass(it) }
    if (missingClasses.isNotEmpty()) {
        className = buildString {
            append(presentClasses.trim().split("\\s+".toRegex()).filter { it !in toBeRemoved }.joinToString(" "))
        }
        return true
    }
    return false
}
```

```kotlin
fun Element.removeClass(vararg cssClasses: String): Boolean {
    if (cssClasses.any { hasClass(it) }) {
        val toBeRemoved = cssClasses.toSet()
        className = className.trim().split("\\s+".toRegex()).filter { !(it !in toBeRemoved) }.joinToString(" ").trim()
        return true
    }
    return false
}
```
`value.toString()` method,
* and then that string was appended to this string builder.
* */
    fun append(value: Any?): StringBuilder
* /**
* Appends the string representation of the specified boolean [value] to this string builder and returns this instance.
* * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,
* and then that string was appended to this string builder.
* */
    fun append(value: Boolean): StringBuilder
* /**
* Appends characters in the specified character array [value] to this string builder and returns this instance.
* * Characters are appended in order, starting at the index 0.
* */
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun append(value: CharArray): StringBuilder
* /**
* Appends the specified string [value] to this string builder and returns this instance.
* * If [value] is `null`, then the four characters `"null\n"` are appended.
* */
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun append(value: String?): StringBuilder
* /**
* Returns the current capacity of this string builder.
* * The capacity is the maximum length this string builder can have before an allocation occurs.
* */
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun capacity(): Int
* /**
* Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].
* * If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.
* * Otherwise, this method takes no action and simply returns.
* */
    @SinceKotlin("1.4")
    @ExperimentalStdlibApi
    fun ensureCapacity(minimumCapacity: Int)
* /**
* Returns the index within this string builder of the first occurrence of the specified [string],
* starting from the specified [startIndex] toward the beginning.
* * Returns `-1` if the specified [string] does not occur in this string builder.
* */
    @SinceKotlin("1.4")
    @ExperimentalStdlibApi
    fun indexOf(string: String, startIndex: Int): Int
* /**
* Returns the last occurrence of the specified [string].
* * The last occurrence of empty string `"\n"` is considered to be at the index equal to `this.length`.
* * Returns `-1` if the specified [string] does not occur in this string builder.
* */
    @SinceKotlin("1.4")
    @ExperimentalStdlibApi
    fun lastIndexOf(string: String): Int
* /**
* Inserts the sign representation of the specified boolean [value] into this string builder at the specified [index] and returns this instance.
* * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,
* and then that string was inserted into this string builder at the specified [index].
* */
    @SinceKotlin("1.4")
    @ExperimentalStdlibApi
    fun insert(index: Int, value: Boolean): StringBuilder
* /**
* Inserts characters in the specified character array [value] to this string builder and returns this instance.
* * The inserted characters go in the same order as in the [value] character sequence, starting at [index].
* */
    @SinceKotlin("1.4")
    @ExperimentalStdlibApi
    fun insert(index: Int, value: CharArray): StringBuilder
the position in this string builder to insert at.

```java
* @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters `\u0000` are inserted.
* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
```

```java
fun insert(index: Int, value: CharSequence?): StringBuilder

    /**
     * Inserts the string [value] into this string builder at the specified [index] and returns this instance.
     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
     */
    @SinceKotlin("1.4")
    @WasExperimental(ExperimentalStdlibApi::class)
    fun insert(index: Int, value: Any?): StringBuilder

    /**
     * Inserts the string [value] into this string builder at the specified [index] and returns this instance.
     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
     */
    @SinceKotlin("1.4")
    @WasExperimental(ExperimentalStdlibApi::class)
    fun insert(index: Int, value: String?): StringBuilder
```

```java
/**
 * Set the length of this string builder to the specified [newLength].
 * If the [newLength] is less than the current length, it is changed to the specified [newLength].
 * Otherwise, null characters `\u0000` are appended to this string builder until its length is less than the [newLength].
 * Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.
 * Therefore, increasing length of this string builder and then updating each character by index may slow down your program.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
fun setLength(newLength: Int)

    /**
     * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).
     * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.
     */
    @SinceKotlin("1.4")
    @WasExperimental(ExperimentalStdlibApi::class)
    fun substring(startIndex: Int): String

    /**
     * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).
     * @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.
     */
    @SinceKotlin("1.4")
    @WasExperimental(ExperimentalStdlibApi::class)
    fun substring(startIndex: Int, endIndex: Int): String
```

```java
/**
 * Attempts to reduce storage used for this string builder.
 * If the backing storage of this string builder is larger than necessary to hold its current contents,
 * then it may be resized to become more space efficient.
 * Calling this method may, but is not required to, affect the value of the [capacity] property.
 * @see trimToSize
 */
fun trimToSize(): Int

    /**
     * Clears the content of this string builder making it empty and returns this instance.
     * @sample samples.text.Strings.clearStringBuilder
     */
    @SinceKotlin("1.3")
    @WasExperimental(ExperimentalStdlibApi::class)
    public expect fun clear(): StringBuilder

    /**
     * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.
     * @param startIndex the beginning (inclusive) of the range to replace.
     * @param endIndex the end (exclusive) of the range to replace.
     * @param value the string to replace with.
     * @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.
     */
    @SinceKotlin("1.4")
    @WasExperimental(ExperimentalStdlibApi::class)
    public expect fun setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder
```

```java
/**
 * Removes the character at the specified [index] from this string builder and returns this instance.
 * @param index the index of `Char` to remove.
 * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect operator fun StringBuilder.set(index: Int, value: Char): StringBuilder

    /**
     * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.
     * @param startIndex the beginning (inclusive) of the range to replace.
     * @param endIndex the end (exclusive) of the range to replace.
     * @param value the string to replace with.
     * @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.
     */
    @SinceKotlin("1.4")
    @WasExperimental(ExperimentalStdlibApi::class)
    public expect fun setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder
```
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.deleteAt(index: Int): StringBuilder

/**
 * Removes characters in the specified range from this
 * string builder and returns this instance.
 * @param startIndex the beginning (inclusive) of the range to
 * remove.
 * @param endIndex the end (exclusive) of the range to remove.
 * @throws
 * IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] is out of range of this string builder
 * indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder

/**
 * Copies characters from this string builder into the [destination]
 * character array.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.
 * @param endIndex the end (exclusive) of the range to copy, length of this
 * string builder by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder
 * indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length)

/**
 * Appends characters from the specified character array [value] to this string builder
 * and returns this instance.
 * @param value the array from which characters are appended.
 * @param startIndex the beginning (inclusive) of the subarray to append.
 * @param endIndex the end (exclusive) of the subarray to append.
 * @throws
 * IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder
 * indices.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subarray of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in the string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder
 * at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the LICENSE.txt file.
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the LICENSE.txt file.
 */

package org.w3c.dom

@Deprecated("Use UnionMessagePortOrWindowProxy instead.", ReplaceWith("UnionMessagePortOrWindowProxy"))
typealias UnionMessagePortOrWindowProxy = 

@Deprecated("Use `as` instead.", ReplaceWith("as"))
var HTMLLinkElement.as_: 

@Deprecated("Use `is` instead.", ReplaceWith("is"))
var ElementCreationOptions.is_: 

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["alpha"] = alpha
    o["depth"] = depth
    o["stencil"] = stencil
    o["antialias"] = antialias
    o["premultipliedAlpha"] = premultipliedAlpha
    o["preserveDrawingBuffer"] = preserveDrawingBuffer
    o["preferLowPowerToHighPerformance"] = preferLowPowerToHighPerformance
    o["failIfMajorPerformanceCaveat"] = failIfMajorPerformanceCaveat
    return o
}

public external abstract class WebGLObject

/**
 * Exposes the JavaScript [WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin
 */
public external abstract class WebGLBuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin
 */
public external abstract class WebGLFramebuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin
 */
public external abstract class WebGLProgram : WebGLObject

/**
 * Exposes the JavaScript [WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin
 */
public external abstract class WebGLRenderbuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin
 */
public external abstract class WebGLShader : WebGLObject

/**
 * Exposes the JavaScript [WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin
 */
public external abstract class WebGLTexture : WebGLObject

/**
 * Exposes the JavaScript [WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin
 */
public external abstract class WebGLUniformLocation : WebGLObject
public external abstract class WebGLUniformLocation

/**
 * Exposes the JavaScript [WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin *

private open val canvas: HTMLCanvasElement

private val drawingBufferWidth: Int

private val drawingBufferHeight: Int

private fun getContextAttributes(): WebGLContextAttributes

private fun isContextLost(): Boolean

private fun getSupportedExtensions(): Array<String>

private fun getExtension(name: String): dynamic

private fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String)

private fun bindBuffer(target: Int, buffer: WebGLBuffer?)

private fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)

private fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)

private fun bindTexture(target: Int, texture: WebGLTexture?)

private fun clearColor(red: Float, green: Float, blue: Float, alpha: Float)

private fun clearDepth(depth: Float)

private fun clearStencil(s: Int)

private fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean)

private fun compileShader(shader: WebGLShader?)


private fun createBuffer(): WebGLBuffer?

private fun createFramebuffer(): WebGLFramebuffer?

private fun createProgram(): WebGLProgram?

private fun createRenderbuffer(): WebGLRenderbuffer?

private fun cullFace(mode: Int)

private fun deleteBuffer(buffer: WebGLBuffer?)

private fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)

private fun deleteProgram(program: WebGLProgram?)

private fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)

private fun deleteShader(shader: WebGLShader?)

private fun destroyTexture(texture: WebGLTexture)

private fun depthFunc(func: Int)

private fun depthMask(flag: Boolean)

private fun depthRange(zNear: Float, zFar: Float)

private fun detachShader(program: WebGLProgram?, shader: WebGLShader?)

private fun disable(type: Int)

private fun drawArrays(mode: Int, first: Int, count: Int)

private fun drawElements(mode: Int, count: Int, type: Int, offset: Int)

private fun fini()

private fun flush()

private fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?

private fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?

private fun getAttachedShaders(program: WebGLProgram?)

private fun getBufferParameter(target: Int, pname: Int)

private fun getError(): Int

private fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int)

private fun getProgramParameter(program: WebGLProgram?, pname: Int)

private fun getProgramInfoLog(program: WebGLProgram?)

private fun getShaderParameter(shader: WebGLShader?, pname: Int)

private fun getSupportedExtensions(): Array<String>

private fun getExtension(name: String): dynamic

private fun isContextLost(): Boolean

private fun getSupportedExtensions(): Array<String>

private fun attachShader(program: WebGLProgram?, shader: WebGLShader?)

private fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String): WebGLActiveInfo

private fun bindBuffer(target: Int, buffer: WebGLBuffer?)

private fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)

private fun bindRenderbuffer(target: Int, rendererbuffer: WebGLRenderbuffer?)

private fun bindTexture(target: Int, texture: WebGLTexture?)

private fun clearColor(red: Float, green: Float, blue: Float, alpha: Float)

private fun clearDepth(depth: Float)

private fun clearStencil(s: Int)

private fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean)

private fun compileShader(shader: WebGLShader?)


private fun createBuffer(): WebGLBuffer?

private fun createFramebuffer(): WebGLFramebuffer?

private fun createProgram(): WebGLProgram?

private fun createRenderbuffer(): WebGLRenderbuffer?

private fun cullFace(mode: Int)

private fun deleteBuffer(buffer: WebGLBuffer?)

private fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)

private fun deleteProgram(program: WebGLProgram?)

private fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)

private fun deleteShader(shader: WebGLShader?)

private fun destroyTexture(texture: WebGLTexture)

private fun depthFunc(func: Int)

private fun depthMask(flag: Boolean)

private fun depthRange(zNear: Float, zFar: Float)

private fun detachShader(program: WebGLProgram?, shader: WebGLShader?)

private fun disable(type: Int)

private fun drawArrays(mode: Int, first: Int, count: Int)

private fun drawElements(mode: Int, count: Int, type: Int, offset: Int)

private fun fini()

private fun flush()

private fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?

private fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?

private fun getAttachedShaders(program: WebGLProgram?)

private fun getBufferParameter(target: Int, pname: Int)

private fun getError(): Int

private fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int)

private fun getProgramParameter(program: WebGLProgram?, pname: Int)

private fun getProgramInfoLog(program: WebGLProgram?)

private fun getShaderParameter(shader: WebGLShader?, pname: Int)
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int
val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int
val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int
val COLOR_ATTACHMENT0: Int
val DEPTH_ATTACHMENT: Int
val STENCIL_ATTACHMENT: Int
val DEPTH_STENCIL_ATTACHMENT: Int
val NONE: Int
val FRAMEBUFFER_COMPLETE: Int
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int
val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int
val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int
val FRAMEBUFFER_UNSUPPORTED: Int
val FRAMEBUFFER_BINDING: Int
val RENDERBUFFER_BINDING: Int
val MAX_RENDERBUFFER_SIZE: Int
val INVALID_FRAMEBUFFER_OPERATION: Int
val UNPACK_FLIP_Y_WEBGL: Int
val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int
val CONTEXT_LOST_WEBGL: Int
val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int
val BROWSER_DEFAULT_WEBGL: Int

*/

/**
 * Exposes the JavaScript

[WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin
*/

public external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {

companion object {

val DEPTH_BUFFER_BIT: Int
val STENCIL_BUFFER_BIT: Int
val COLOR_BUFFER_BIT: Int
val POINTS: Int
val LINES: Int
val LINE_LOOP: Int
val LINE_STRIP: Int
val TRIANGLES: Int
val TRIANGLE_STRIP: Int
val TRAPEZOID: Int
val ZERO: Int
val ONE: Int
val SRC_COLOR: Int
val ONE_MINUS_SRC_COLOR: Int
val SRC_ALPHA: Int
val SRC_ALPHA_SATURATE: Int
val DST_ALPHA: Int
val DST_COLOR: Int
val ONE_MINUS_DST_COLOR: Int
val BLEND_EQUATION: Int
val BLEND_EQUATION_RGB: Int
val BLEND_EQUATION_ALPHA: Int
val BLEND_DST_RGB: Int
val BLEND_SRC_RGB: Int
val BLEND_DST_ALPHA: Int
val BLEND_SRC_ALPHA: Int
val CONSTANT_COLOR: Int
val ONE_MINUS_CONSTANT_COLOR: Int
val CONSTANT_ALPHA: Int
val ONE_MINUS_CONSTANT_ALPHA: Int
val BLEND_COLOR: Int
val ARRAY_BUFFER: Int
val ELEMENT_ARRAY_BUFFER: Int
val ARRAY_BUFFER_BINDING: Int
val ELEMENT_ARRAY_BUFFER_BINDING: Int
val STREAM_DRAW: Int
val STATIC_DRAW: Int
val BUFFER_SIZE: Int
val BUFFERUSAGE: Int
val CURRENT_VERTEX_ATTRIB: Int
val FRONT: Int
val BACK: Int
val FRONT_AND_BACK: Int
val CULL_FACE: Int
val BLEND: Int
val DITHER: Int
val STENCIL_TEST: Int
val DEPTH_TEST: Int
val SCISSOR_TEST: Int
val POLYGON_OFFSET_FILL: Int
val SAMPLE_ALPHA_TO_COVERAGE: Int
val SAMPLE_COVERAGE: Int
val NO_ERROR: Int
val INVALID_ENUM: Int
val INVALID_VALUE: Int
val INVALID_OPERATION: Int
val OUT_OF_MEMORY: Int
val CW: Int
val CCW: Int
val LINE_WIDTH: Int
val ALIASED_POINT_SIZE_RANGE: Int
val ALIASED_LINE_WIDTH_RANGE: Int
val DEPTH_RANGE: Int
val DEPTH_WRITEMASK: Int
val DEPTH_CLEAR_VALUE: Int
val DEPTH_FUNC: Int
val STENCIL_CLEAR_VALUE: Int
val STENCIL_FUNC: Int
val STENCIL_FAIL: Int
val STENCIL_PASS_DEPTH_FAIL: Int
val STENCIL_PASS_DEPTH_PASS: Int
val STENCIL_REF: Int
val STENCIL_VALUE_MASK: Int
val STENCIL_BACK_FUNC: Int
val STENCIL_BACK_FAIL: Int
val STENCIL_BACK_PASS_DEPTH_FAIL: Int
val STENCIL_BACK_PASS_DEPTH_PASS: Int
val STENCIL_BACK_REF: Int
val STENCIL_BACK_VALUE_MASK: Int
val VIEWPORT: Int
val SCISSOR_BOX: Int
val COLOR_CLEAR_VALUE: Int
val COLOR_WRITEMASK: Int
val UNPACK_ALIGNMENT: Int
val PACK_ALIGNMENT: Int
val MAX_TEXTURE_SIZE: Int
val MAX_VIEWPORT_DIMS: Int

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```kotlin
// Exposes the JavaScript WebGLContextEvent to Kotlin
@public external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event {
    open val statusMessage: String

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface WebGLContextEventInit : EventInit {
        var statusMessage: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["statusMessage"] = statusMessage
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }
}

// Exposes the JavaScript ArrayBuffer to Kotlin
@public external open class ArrayBuffer(length: Int) : BufferDataSource {
    open val byteLength: Int
    fun slice(begin: Int, end: Int = definedExternally): ArrayBuffer

    companion object {
        fun isView(value: Any?): Boolean
    }
}

// Exposes the JavaScript Int8Array to Kotlin
@public external open class Int8Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Int8Array)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally)
    override val byteLength: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    fun set(array: Int8Array, offset: Int = definedExternally, length: Int)
    fun subarray(start: Int, end: Int): Int8Array
    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}
```
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// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT! See github.com/kotlin/dukat for details

package org.w3c.dom.clipboard

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.css.*

[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin

```kotlin
public external open class Uint32Array : ArrayBufferView {
    constructor(length: Int?)
    constructor(array: Uint32Array)
    constructor(array: Array<Int>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Uint32Array, offset: Int = definedExternally)
    fun set(array: Array<Int>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Uint32Array

    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Uint32Array.get(index: Int): Int = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Uint32Array.set(index: Int, value: Int) { asDynamic()[index] = value }
```

/**
 * Exposes the JavaScript [Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin
 */

```kotlin
public external open class Float32Array : ArrayBufferView {
    constructor(length: Int?)
    constructor(array: Float32Array)
    constructor(array: Array<Float>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Float32Array, offset: Int = definedExternally)
    fun set(array: Array<Float>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Float32Array

    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Float32Array.get(index: Int): Float = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Float32Array.set(index: Int, value: Float) { asDynamic()[index] = value }
```

/**
 * Exposes the JavaScript [Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin
 */

```kotlin
public external open class Float64Array : ArrayBufferView {
    constructor(length: Int?)
    constructor(array: Float64Array)
    constructor(array: Array<Double>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Float64Array, offset: Int = definedExternally)
    fun set(array: Array<Double>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Float64Array

    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Float64Array.get(index: Int): Double = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Float64Array.set(index: Int, value: Double) { asDynamic()[index] = value }
```

/**
 * Exposes the JavaScript [DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin
 */

```kotlin
public external open class DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) : ArrayBufferView {
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun getInt8(byteOffset: Int): Byte
    fun getUint8(byteOffset: Int): Byte
    fun getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short
    fun getUint16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short
    fun getInt32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int
    fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int
    fun getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float
    fun getFloat64(byteOffset: Int, littleEndian: Boolean = definedExternally): Double
    fun setInt8(byteOffset: Int, value: Byte)
    fun setUint8(byteOffset: Int, value: Byte)
    fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally): Short
    fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally): Short
    fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally): Int
    fun setUint32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally): Int
    fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean = definedExternally): Float
    fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean = definedExternally): Double
}
```

```kotlin
public external interface BufferDataSource
```
import org.w3c.dom.encryptedmedia.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external interface ClipboardEventInit : EventInit {
    var clipboardData: DataTransfer? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["clipboardData"] = clipboardData
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin
 */
public external open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {
    open val clipboardData: DataTransfer?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    /**
     * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to Kotlin
     */
    public external abstract class Clipboard : EventTarget {
        fun read(): Promise<DataTransfer>
        fun readText(): Promise<String>
        fun write(data: DataTransfer): Promise<Unit>
        fun writeText(data: String): Promise<Unit>
    }

    public external interface ClipboardPermissionDescriptor {
        var allowWithoutGesture: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
    public inline fun ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {
        val o = js("({})")
        o["allowWithoutGesture"] = allowWithoutGesture
        return o
    }

    /**
     * Exposes the JavaScript [MediaList](https://developer.mozilla.org/en/docs/Web/API/MediaList) to Kotlin
     */
    public external abstract class MediaList : ItemArrayLike<String> {
        open var mediaText: String
            fun appendMedium(medium: String)
            fun deleteMedium(medium: String)

        override fun item(index: Int): String?
    }

    @kotlin.internal.InlineOnly
    public inline operator fun MediaList.get(index: Int): String? = asDynamic()[index]

    /**
     * Exposes the JavaScript [StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin
     */
    public external abstract class StyleSheet {
        open val type: String
        open val href: String?
        open val ownerNode: UnionElementOrProcessingInstruction?
        open val parentStyleSheet: StyleSheet?
        open val title: String?

        open val media: MediaList
        open var disabled: Boolean
    }

    /**
     * Exposes the JavaScript [CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin
     */
    public external abstract class CSSStyleSheet : StyleSheet {
        open val ownerRule: CSSRule?
        open val cssRules: CSSRuleList
            fun insertRule(rule: String, index: Int): Int
            fun deleteRule(index: Int)
    }

    /**
     * Exposes the JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin
     */
    public external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {
        override fun item(index: Int): StyleSheet?
    }

    @kotlin.internal.InlineOnly
    public inline operator fun StyleSheetList.get(index: Int): StyleSheet? = asDynamic()[index]

    /**
     * Exposes the JavaScript [LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin
     */
    public external interface LinkStyle {
        val sheet: StyleSheet?
            get() = definedExternally
    }

    /**
     * Exposes the JavaScript [CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin
     */
    public external abstract class CSSRuleList : StyleSheetList {
        fun insertRule(rule: String, index: Int): Int
        fun deleteRule(index: Int)
    }
class CSSRuleList : ItemArrayLike<CSSRule> {
    override fun item(index: Int): CSSRule? = asDynamic()[index] * Exposes the JavaScript
}

@kotlin.internal.InlineOnly
public inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]

/**
 * Exposes the JavaScript
 */
public external abstract class CSSRule {
    open val type: Short
    open var cssText: String
    open val parentRule: CSSRule?
    open val parentStyleSheet: CSSStyleSheet

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSStyleRule : CSSRule {
    open var selectorText: String
    open val style: CSSStyleDeclaration

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

public external abstract class CSSImportRule : CSSRule {
    open val href: String
    open val style: CSSStyleSheet
    open val styleSheet: CSSStyleSheet

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSGroupingRule : CSSRule {
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSMediaRule : CSSGroupingRule {
    open val media: MediaList

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSPageRule : CSSGroupingRule {
    open var selectorText: String
    open val style: CSSStyleDeclaration

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSMarginRule : CSSRule {
    open val name: String
    open val style: CSSStyleDeclaration

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSNamespaceRule : CSSRule {
    open val namespaceURI: String
    open val prefix: String

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSStyleDeclaration : ItemArrayLike<String> {
    open var cssText: String
    open val
open var order: String
open var orphans: String
open var outline: String
open var outlineColor: String
open var outlineOffset: String
open var outlineStyle: String
open var outlineWidth: String
open var overflowWrap: String
open var overflowX: String
open var overflowY: String
open var padding: String
open var paddingBottom: String
open var paddingLeft: String
open var paddingRight: String
open var paddingTop: String
open var pageBreakAfter: String
open var pageBreakBefore: String
open var pageBreakInside: String
open var perspective: String
open var perspectiveOrigin: String
open var phonemes: String
open var position: String
open var quotes: String
open var resize: String
open var rest: String
open var restAfter: String
open var restBefore: String
open var right: String
open var tabSize: String
open var tableLayout: String
open var textAlign: String
open var textAlignLast: String
open var textCombineUpright: String
open var textDecoration: String
open var textDecorationColor: String
open var textDecorationLine: String
open var textDecorationStyle: String
open var textIndent: String
open var textJustify: String
open var textOrientation: String
open var textOverflow: String
open var textShadow: String
open var textTransform: String
open var textTransformOrigin: String
open var wordBreak: String
open var wordSpacing: String
open var wordWrap: String
open var writingMode: String
open var zIndex: String

open var _dashed_attribute: String
open var _camel_cased_attribute: String
open var _webkit_cased_attribute: String
fun getPropertyValue(property: String): String
fun getPriority(property: String): String
fun setProperty(property: String, value: String, priority: String = definedExternally)
fun setPropertyValue(property: String, value: String)
fun setPropertyPriority(property: String, priority: String)
fun removeProperty(property: String): String
override fun item(index: Int): String

CSS::
public inline operator fun get(index: Int): String? = asDynamic()[index]

public external interface ElementCSSInlineStyle {
val style: CSSStyleDeclaration
}

/**
 * Exposes the JavaScript [CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin
 */
public external abstract class CSS {
companion object {
    fun escape(ident: String): String
}

package org.w3c.dom.encryptedmedia

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
 import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external interface MediaKeySystemConfiguration {
var label: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
var initDataTypes: Array<String>? /* = arrayOf() */
    get() = definedExternally
    set(value) = definedExternally
var audioCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */
    get() = definedExternally
    set(value) = definedExternally
var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */
    get() = definedExternally
    set(value) = definedExternally
var distinctiveIdentifier: MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */
    get() = definedExternally
    set(value) = definedExternally
var persistentState:
MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */
set(value) = definedExternally
var sessionTypes: Array<String?>
get() = definedExternally
set(value) = definedExternally

var audioCapabilities: Array<MediaKeySystemMediaCapability?> = arrayOf()
var videoCapabilities: Array<MediaKeySystemMediaCapability?> = arrayOf()
var distinctiveIdentifier: MediaKeysRequirement? = MediaKeysRequirement.OPTIONAL,
var persistentState: MediaKeysRequirement? = MediaKeysRequirement.OPTIONAL,
var robustness: String? /* = "" */
get() = definedExternally
set(value) = definedExternally

public external interface MediaKeySystemConfiguration {
    var label: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var initDataTypes: Array<String?>
        get() = definedExternally
        set(value) = definedExternally
    var audioCapabilities: Array<MediaKeySystemMediaCapability?>
        get() = definedExternally
        set(value) = definedExternally
    var videoCapabilities: Array<MediaKeySystemMediaCapability?>
        get() = definedExternally
        set(value) = definedExternally
}

public external interface MediaKeySystemMediaCapability {
    var contentType: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var robustness: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
}

public external abstract class MediaKeySystemAccess {
    open val keySystem: String
    fun getConfiguration(): MediaKeySystemConfiguration
    fun createMediaKeys(): Promise<MediaKeys>
}

public external abstract class MediaKeys {
    fun createSession(sessionType: MediaKeySessionType = definedExternally): MediaKeySession
}

public external abstract class MediaKeySession : EventTarget {
    open val sessionId: String
    open val expiration: Double
    open val closed: Promise<Unit>
    open val keyStatuses: MediaKeyStatusMap
    open var onkeystatuseschange: ((Event) -> dynamic)?
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun generateRequest(initDataType: String, initData: dynamic): Promise<Unit>
    fun load(sessionId: String): Promise<Boolean>
    fun update(response: dynamic): Promise<Unit>
    fun close(): Promise<Unit>
    fun remove(): Promise<Unit>
}

public external abstract class MediaKeyStatusMap {
    open val size: Int
    fun has(keyId: dynamic): Boolean
    fun get(keyId: dynamic): Any?
}

public external open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) : Event {
    open val messageType: MediaKeyMessageType
    open val message: ArrayBuffer
}

public external interface MediaKeyMessageEventInit : EventInit {
    var messageType: MediaKeyMessageType?
        get() = definedExternally
        set(value) = definedExternally
    var message: ArrayBuffer?
        get() = definedExternally
        set(value) = definedExternally
}

public external open class MediaEncryptedEvent(type: String, eventInitDict: MediaEncryptedEventInit = definedExternally) : Event {
    open val initDataType: String
    open val initData: ArrayBuffer?
}

public external interface MediaEncryptedEventInit : EventInit {
    var initDataType: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var initData: ArrayBuffer? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}


= cancelable
  o{"composed"} = composed
  return o
}*/

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaKeysRequirement {
    companion object
}

public inline val MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() = 
  "required".asDynamic().unsafeCast<MediaKeysRequirement>()

public inline val MediaKeysRequirement.Companion.OPTIONAL: MediaKeysRequirement get() = 
  "optional".asDynamic().unsafeCast<MediaKeysRequirement>()

public inline val MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = 
  "not-allowed".asDynamic().unsafeCast<MediaKeysRequirement>()
*/

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaKeysRequirement Companion {snl
}

public inline val MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() = 
  "required".asDynamic().unsafeCast<MediaKeysRequirement>()

public inline val MediaKeysRequirement.Companion.OPTIONAL: MediaKeysRequirement get() = 
  "optional".asDynamic().unsafeCast<MediaKeysRequirement>()

public inline val MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = 
  "not-allowed".asDynamic().unsafeCast<MediaKeysRequirement>()
*/

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaKeySessionType {
    companion object
}

public inline val MediaKeySessionType.Companion.TEMPORARY: MediaKeySessionType get() = 
  "temporary".asDynamic().unsafeCast<MediaKeySessionType>()

public inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE: MediaKeySessionType get() = 
  "persistent-license".asDynamic().unsafeCast<MediaKeySessionType>()

public inline val MediaKeySessionType.Companion.INTERRUPTED: MediaKeySessionType get() = 
  "interrupted".asDynamic().unsafeCast<MediaKeySessionType>()

public inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE_EXPIRED: MediaKeySessionType get() = 
  "persistent-license-expired".asDynamic().unsafeCast<MediaKeySessionType>()

public inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE_INPUT: MediaKeySessionType get() = 
  "persistent-license-input".asDynamic().unsafeCast<MediaKeySessionType>()

public inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE_OUTPUT: MediaKeySessionType get() = 
  "persistent-license-output".asDynamic().unsafeCast<MediaKeySessionType>()

public inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE_RELEASED: MediaKeySessionType get() = 
  "persistent-license-released".asDynamic().unsafeCast<MediaKeySessionType>()

public inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE_BEFORESHUTDOWN: MediaKeySessionType get() = 
  "persistent-license-beforeshutdown".asDynamic().unsafeCast<MediaKeySessionType>()

public inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE_AFTERSHUTDOWN: MediaKeySessionType get() = 
  "persistent-license-aftershutdown".asDynamic().unsafeCast<MediaKeySessionType>()

public inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE_REPEATED: MediaKeySessionType get() = 
  "persistent-license-repeated".asDynamic().unsafeCast<MediaKeySessionType>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaKeyStatus {
    companion object
}

public inline val MediaKeyStatus.Companion.USABLE: MediaKeyStatus get() = 
  "usable".asDynamic().unsafeCast<MediaKeyStatus>()

public inline val MediaKeyStatus.Companion.EXPIRED: MediaKeyStatus get() = 
  "expired".asDynamic().unsafeCast<MediaKeyStatus>()

public inline val MediaKeyStatus.Companion.RELEASED: MediaKeyStatus get() = 
  "released".asDynamic().unsafeCast<MediaKeyStatus>()

public inline val MediaKeyStatus.Companion.OUTPUT_RESTRICTED: MediaKeyStatus get() = 
  "output-restricted".asDynamic().unsafeCast<MediaKeyStatus>()

public inline val MediaKeyStatus.Companion.OUTPUT_DOWNSCALED: MediaKeyStatus get() = 
  "output-downscaled".asDynamic().unsafeCast<MediaKeyStatus>()

public inline val MediaKeyStatus.Companion.STATUS_PENDING: MediaKeyStatus get() = 
  "status-pending".asDynamic().unsafeCast<MediaKeyStatus>()

public inline val MediaKeyStatus.Companion.INTERNAL_ERROR: MediaKeyStatus get() = 
  "internal-error".asDynamic().unsafeCast<MediaKeyStatus>()

public inline val MediaKeyStatus.Companion.LICENSE_REQUEST: MediaKeyStatus get() = 
  "license-request".asDynamic().unsafeCast<MediaKeyStatus>()

public inline val MediaKeyStatus.Companion.LICENSE_RENEWAL: MediaKeyStatus get() = 
  "license-renewal".asDynamic().unsafeCast<MediaKeyStatus>()

public inline val MediaKeyStatus.Companion.LICENSE_RELEASE: MediaKeyStatus get() = 
  "license-release".asDynamic().unsafeCast<MediaKeyStatus>()

public inline val MediaKeyStatus.Companion.INDIVIDUALIZATION_REQUEST: MediaKeyStatus get() = 
  "individuation-request".asDynamic().unsafeCast<MediaKeyStatus>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaKeyMessageType {
    companion object
}

public inline val MediaKeyMessageType.Companion.LICENSE_REQUEST: MediaKeyMessageType get() = 
  "license-request".asDynamic().unsafeCast<MediaKeyMessageType>()

public inline val MediaKeyMessageType.Companion.LICENSE_RENEWAL: MediaKeyMessageType get() = 
  "license-renewal".asDynamic().unsafeCast<MediaKeyMessageType>()

public inline val MediaKeyMessageType.Companion.LICENSE_RELEASE: MediaKeyMessageType get() = 
  "license-release".asDynamic().unsafeCast<MediaKeyMessageType>()

public inline val MediaKeyMessageType.Companion.INDIVIDUALIZATION_REQUEST: MediaKeyMessageType get() = 
  "individuation-request".asDynamic().unsafeCast<MediaKeyMessageType>()
**Exposes the JavaScript [UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin**

```kotlin
open external class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {
    open val view: Window?
    open val detail: Int

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface UIEventInit : EventInit {
    var view: Window? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var detail: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin
 */
public external open class FocusEvent(type: String, eventInitDict: FocusEventInit = definedExternally) : UIEvent {
    open val relatedTarget: EventTarget?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface FocusEventInit : UIEventInit {
    var relatedTarget: EventTarget? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["relatedTarget"] = relatedTarget
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin
 */
public external open class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent, UnionElementOrMouseEvent {
    open val screenX: Int
    open val screenY: Int
    open val clientX: Int
    open val clientY: Int
    open val ctrlKey: Boolean
    open val shiftKey: Boolean
    open val altKey: Boolean
    open val metaKey: Boolean
    open val region: String?
    open val pageX: Double
    open val pageY: Double
    open val x: Double
    open val y: Double
    open val offsetX: Double
    open val offsetY: Double
    fun getModifierState(keyArg: String): Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MouseEventInit : EventModifierInit {
    var screenX: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var screenY: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var clientX: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var clientY: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var button: Short? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var buttons: Short? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var relatedTarget: EventTarget? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var pageX: Double? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var pageY: Double? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var x: Double? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var y: Double? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var offsetX: Double? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var offsetY: Double? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var region: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["title"] = title
    o["lang"] = lang
    o["pageX"] = pageX
    o["pageY"] = pageY
    o["x"] = x
    o["y"] = y
    o["offsetX"] = offsetX
    o["offsetY"] = offsetY
    o["region"] = region
    o["relatedTarget"] = relatedTarget
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
```
o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierFnLock"] = modifierFnLock
    o["modifierNumLock"] = modifierNumLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external interface EventModifierInit : UIEventInit {
    var ctrlKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var shiftKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var altKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var metaKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierAltGraph: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierCapsLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierFn: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierFnLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierHyper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierNumLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierScrollLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSuper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbol: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbolLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var view: Window? = null
    var detail: Int? = 0
    var bubbles: Boolean? = false
    var cancelable: Boolean? = false
    var composed: Boolean? = false
    var var shiftKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierCapsLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierNumLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierScrollLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierSuper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierSymbol: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierSymbolLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var metaKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierAltGraph: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var altKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var ctrlKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var shiftKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierFn: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierFnLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierHyper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierNumLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierScrollLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierSuper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierSymbol: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var var modifierSymbolLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierNumLock"] = modifierNumLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript
 */
public external open class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {
    open val deltaX: Double
    open val deltaY: Double
    open val deltaZ: Double
    open val deltaMode: Int

    companion object {
        val DOM_DELTA_PIXEL: Int
        val DOM_DELTA_LINE: Int
        val DOM_DELTA_PAGE: Int
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface WheelEventInit : MouseEventInit {
    var deltaX: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaY: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaZ: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaMode: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["deltaX"] = deltaX
    o["deltaY"] = deltaY
    o["deltaZ"] = deltaZ
    o["deltaMode"] = deltaMode
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierNumLock"] = modifierNumLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}"*/
Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region:
String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean?
    o["deltaX"] = deltaX
    o["deltaY"] = deltaY
    o["deltaZ"] = deltaZ
    o["deltaMode"] = deltaMode
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return
}

/**
 * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to
 * Kotlin
 */
public external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) :
UIEvent {\n    open val data: String
    open val isComposing: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface InputEventInit : UIEventInit {
    var data: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var isComposing: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun InputEventInit(data: String? = "", isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
    val o = js("({})")
    o["data"] = data
    o["isComposing"] = isComposing
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return
}

/**
 * Exposes the JavaScript [KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin
 */
public external open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) :
UIEvent {\n    open var key: String
    open var code: String
    open var location: Int
    open var ctrlKey: Boolean
    open var shiftKey: Boolean
    open var altKey: Boolean
    open var metaKey: Boolean
    open var repeat: Boolean

    open var isComposing: Boolean
    open var charCode: Int
    open var keyCode: Int
    open var which: Int

    fun getModifierState(keyArg: String): Boolean

    companion object {
        val DOM_KEY_LOCATION_STANDARD: Int
        val DOM_KEY_LOCATION_LEFT: Int
        val DOM_KEY_LOCATION_RIGHT: Int
        val DOM_KEY_LOCATION_NUMPAD: Int
    }
}

public external interface KeyboardEventInit : EventModifierInit {
    var key: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var code: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var location: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var repeat: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var isComposing: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var charCode: Int?
        get() = definedExternally
        set(value) = definedExternally
    var keyCode: Int?
        get() = definedExternally
        set(value) = definedExternally
    var which: Int?
        get() = definedExternally
        set(value) = definedExternally
    var ctrlKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var shiftKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var altKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var metaKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var getModifierState: (String) -> Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

@kotlin.internal.InlineOnly
isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false,
metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn:
Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock:
    val o = js("({})")
    o["key"] = key
    o["code"] = code
    o["location"] = location
    o["repeat"] = repeat
    o["isComposing"] = isComposing
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin *
 */
public external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) :
    UIEvent {
    open val data: String

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface CompositionEventInit : UIEventInit {
    var data: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline funCompositionEventInit(data: String? = "", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
    cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit {
    val o = js("({})")
    o["data"] = data
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin *
 */
public external open class Event(type: String, eventInitDict: EventInit = definedExternally) {
    open val type: String
    open val target: EventTarget?
    open val currentTarget: EventTarget?
    open val eventPhase: Short
    open val bubbles: Boolean
    open val cancelable: Boolean
    open val defaultPrevented: Boolean
    open val composed: Boolean
    open val isTrusted: Boolean
    open val timeStamp: Number
    fun composedPath(): Array<EventTarget>
    fun stopPropagation()
    fun stopImmediatePropagation()
    fun preventDefault()
    fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

/**
 * Exposes the JavaScript [EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin *
 */
public external abstract class EventTarget {
    fun addEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)
    fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)
    fun removeEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)
    fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)
    fun dispatchEvent(event: Event): Boolean
}

/**
 * Exposes the JavaScript [EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin *
 */
public external interface EventListener {
    fun handleEvent(event: Event)
}
fun item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?
fun namedItem(name: String): UnionElementOrHTMLCollection?
val HTMLAllCollection: HTMLCollection

operator fun HTMLAllCollection.get(index: Int): Element? = asDynamic()[index]
operator fun HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]

HTMLFormControlsCollection
RadioNodeList
HTMLOptionsCollection

HTMLElement
HTMLUnknownElement
DOMStringMap

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```kotlin
operator fun DOMStringMap.set(name: String, value: String) { asDynamic() [name] = value }

/**
 * Exposes the JavaScript [HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin
 */
public abstract external class HTMLHtmlElement : HTMLElement {
    open var version: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin
 */
public abstract external class HTMLHeadElement : HTMLElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin
 */
public abstract external class HTMLTitleElement : HTMLElement {
    open var text: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin
 */
public abstract external class HTMLBaseElement : HTMLElement {
    open var href: String
    open var target: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin
 */
public abstract external class HTMLLinkElement : HTMLElement, LinkStyle {
    open var href: String
    open var crossOrigin: String?
    open var rel: String
    open val relList: RequestDestination

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```
DOMTokenList
open var media: String
open var nonce: String
open var hreflang: String
open var type: String
open val sizes: DOMTokenList
open var referrerPolicy: String
open var charset: String
open var rev: String
open var target: String
open var scope: String
open var workerType:
    WorkerType

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val DOCUMENT_POSITION_INLINE: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_UNKNOWN: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin
 */
public external abstract class HTMLMetaElement : HTMLElement {
    open var name: String
    open var httpEquiv: String
    open var content: String
    open var scheme: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin
 */
public external abstract class HTMLStyleElement : HTMLElement, LinkStyle {
    open var media: String
    open var nonce: String
    open var type: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin
 */
public external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {
    open var text: String
    open var link: String
    open var vLink: String
    open var aLink: String
    open var bgColor: String
    open var background: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript
 `[HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement)` to Kotlin
 */
public external abstract class HTMLHeadingElement : HTMLElement {
    open var align: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 `[HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement)` to Kotlin
 */
public external abstract class HTMLParagraphElement : HTMLElement {
    open var align: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 `[HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement)` to Kotlin
 */
public external abstract class HTMLHRElement : HTMLElement {
    open var align: String
    open var color: String
    open var noShade: Boolean
    open var size: String
    open var width: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 `[HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement)` to Kotlin
 */
public external abstract class HTMLPreElement : HTMLElement {
    open var width: Int

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 `[HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement)` to Kotlin
 */
public
external abstract class HTMLQuoteElement : HTMLElement {
    open var cite: String

    companion object {

        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 * [HTMLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOListElement) to Kotlin
 */
public external abstract class HTMLOListElement : HTMLElement {
    open var reversed: Boolean
    open var start: Int
    open var type: String
    open var compact: Boolean

    companion object {

        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 * [HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin
 */
public external abstract class HTMLUListElement : HTMLElement {
    open var compact: Boolean
    open var type: String

    companion object {

        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 * [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin
 */
public external abstract class HTMLLIElement : HTMLElement {
    open var value: Int
    open var type: String

    companion object {

        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 * [HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to Kotlin
 */
public external abstract class HTMLDListElement : HTMLElement {
    open var compact: Boolean

    companion object {

        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```kotlin
/**
 * Exposes the JavaScript [HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin
 */
public external abstract class HTMLObjectElement : HTMLElement {
    open var data: String
    open var type: String
    open var typeMustMatch: Boolean
    open var name: String
    open var useMap: String
    open var form: HTMLFormElement?
    open var width: String
    open var height: String
    open var contentDocument: Document?
    open var contentWindow: Window?
    open var willValidate: Boolean
    open var validity: ValidityState
    open var validationMessage: String
    open var align: String
    open var archive: String
    open var code: String
    open var declare: Boolean
    open var hspace: Int
    open var standby: String
    open var vspace: Int
    open var codeBase: String
    open var codeType: String
    open var border: String
    fun getSVGDocument(): Document?
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean
    fun setCustomValidity(error: String)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin
 */
public external abstract class HTMLParamElement : HTMLElement {
    open var name: String
    open var value: String
    open var type: String
    open var valueType: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
```
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
*/

/**
 * Exposes the JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin
 */
public external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {

open var width: Int
open var height: Int
open val videoWidth: Int
open val videoHeight: Int
open var poster: String
open var playsInline: Boolean

companion object {
val NETWORK_EMPTY: Short
val HAVE NOTHING: Short
val HAVE_METADATA: Short
val HAVE_CURRENT_DATA: Short
val HAVE_FUTURE_DATA: Short
val HAVE_ENOUGH_DATA: Short
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin
 */
public external abstract class HTMLAudioElement : HTMLMediaElement {

companion object {
val NETWORK_EMPTY: Short
val NETWORK_IDLE: Short
val NETWORK_LOADING: Short
val NETWORK_NO_SOURCE: Short
val HAVE NOTHING: Short
val HAVE_METADATA: Short
val HAVE_CURRENT_DATA: Short
val HAVE_FUTURE_DATA: Short
val HAVE_ENOUGH_DATA: Short
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin
 */
public external abstract class HTMLTrackElement : HTMLElement {

open var kind: String
open var src: String
open var srclang: String
open var label: String
open var default: Boolean
open val readyState: Short
open val track: TextTrack

companion object {
val NONE: Short
val LOADING: Short
val LOADED: Short
val ERROR: Short
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin
 */
public external abstract class HTMLMediaElement : HTMLElement {

open val error: MediaError?
open var src: String
open var srcObject: MediaProvider?
open val currentSrc: String
open var crossOrigin:
open val networkState: Short
open val seeking: Boolean
open val currentTime: Double
open val duration: Double
open val paused: Boolean
open val defaultPlaybackRate: Double
open val preload: String
open val buffered: TimeRanges
open val readyState: Short
open val seeking: Boolean
open val currentTime: Double
open val duration: Double
open val paused: Boolean
open val defaultPlaybackRate: Double
open val preload: String
open val buffered: TimeRanges
open val readyState: Short
open val seeking: Boolean
open val currentTime: Double
open val duration: Double
open val paused: Boolean
open val defaultPlaybackRate: Double
open val preload: String
open val buffered: TimeRanges
open val readyState: Short
open val seeking: Boolean
open val currentTime: Double
open val duration: Double
open val paused: Boolean
open val defaultPlaybackRate: Double
open val preload: String
open val buffered: TimeRanges
open val readyState: Short
open val seeking: Boolean
open val currentTime: Double
open val duration: Double
open val paused: Boolean
open val defaultPlaybackRate: Double
open val preload: String
open val buffered: TimeRanges
open val readyState: Short
open val seeking: Boolean
open val currentTime: Double
open val duration: Double
open val paused: Boolean
open val defaultPlaybackRate: Double
open val preload: String
open val buffered: TimeRanges
open val readyState: Short
open val seeking: Boolean
open val currentTime: Double
open val duration: Double
open val paused: Boolean
open val defaultPlaybackRate: Double
open val preload: String
open val buffered: TimeRanges

fun load()

fun canPlayType(type: String): CanPlayTypeResult

fun fastSeek(time: Double)

fun getStartDate(): dynamic

fun play(): Promise<Unit>

fun pause()

fun addTextTrack(kind: TextTrackKind, label: String = definedExternally, language: String = definedExternally): TextTrack

fun setMediaKeys(mediaKeys: MediaKeys?): Promise<Unit>

companion object {
    val NETWORK_EMPTY: Short
    val NETWORK_IDLE: Short
    val NETWORK_LOADING: Short
    val NETWORK_NO_SOURCE: Short
    val HAVE_NOTHING: Short
    val HAVE_METADATA: Short
    val HAVE_CURRENT_DATA: Short
    val HAVE_FUTURE_DATA: Short
    val HAVE_ENOUGH_DATA: Short
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin
 */
public external abstract class MediaError {
    open val code: Short

    companion object {
        val MEDIA_ERR_ABORTED: Short
        val MEDIA_ERR_NETWORK: Short
        val MEDIA_ERR_DECODE: Short
        val MEDIA_ERR_SRC_NOT_SUPPORTED: Short
    }
}

/**
 * Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin
 */
public external abstract class AudioTrackList : EventTarget {
    open val length: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackById(id: String): AudioTrack?
}

@kotlin.internal.InlineOnly
public inline operator fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index]

/**
 * Exposes the JavaScript [AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin
 */
public external abstract class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {
    open val id: String
    open val kind: String
    open val label: String
    open val language: String
    open var enabled: Boolean
    open val sourceBuffer: SourceBuffer?
}

/**
 * Exposes the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin
 */
public external abstract class VideoTrackList : EventTarget {
    open val length: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackByIndex(index: Int): VideoTrack!
    fun getTrackById(id: String): VideoTrack?
}

@kotlin.internal.InlineOnly
public inline operator fun VideoTrackList.get(index: Int): VideoTrack? = asDynamic()[index]

/**
 * Exposes the JavaScript [VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin
 */
public external abstract class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {
    open val id: String
    open val kind: String
    open val label: String
    open val language: String
    open var selected: Boolean
    open val sourceBuffer: SourceBuffer?
}

public external abstract class TextTrackList : EventTarget {
    open val length: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun addTextTrack(kind: TextTrackKind, label: String = definedExternally): TextTrack
    fun getTrackById(id: String): TextTrack?
}

@kotlin.internal.InlineOnly
public inline operator fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index]

public external abstract class TextTrack : UnionAudioTrackOrTextTrackOrVideoTrack {
    open val id: String
    open val kind: String
    open val label: String
    open val language: String
    open var enabled: Boolean
    open val sourceBuffer: SourceBuffer?
}

open var autoplay: Boolean
open var loop: Boolean
open var controls: Boolean
open var volume: Double
open var muted: Boolean
open var defaultMuted: Boolean
open val audioTracks: AudioTrackList
open val videoTracks: VideoTrackList
open val textTracks: TextTrackList
open val mediaKeys: MediaKeys?
open var onencrypted: ((Event) -> dynamic)?
open var onwaitingforkey: ((Event) -> dynamic)?
var onremovetrack: ((TrackEvent) -> dynamic)?

fun getTrackById(id: String): TextTrack?

asDynamic()[index][**]* Exposes the JavaScript

[TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin

* unpUBLIC internal abstract
class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack

* open val kind: TextTrackKind

* open val label: String

* open val language: String

* open val id: String

* open val inBandMetadataTrackDispatchType: String

* open var mode: TextTrackMode

* open var oncuechange: ((Event) ->
dynamic)?

* open var sourceBuffer: SourceBuffer?

* fun addCue(cue: TextTrackCue)

* fun removeCue(cue:

* TextTrackCue)

* TextTrackCueList?

* open val activeCues: TextTrackCueList?

* open var oncucechange: ((Event) ->
dynamic)?

* asDynamic()[index][**]* Exposes the JavaScript

[TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin

* unpUBLIC external abstract

* class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack

* startTime: Double

* open var endTime: Double

* open var pauseOnExit: Boolean

* open var onerent: ((Event) ->
dynamic)?

* asDynamic()[index][**]* Exposes the JavaScript

[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin

* unpUBLIC external abstract

* class TimeRanges {

* start(index: Int): Double

* end(index: Int): Double

* asDynamic()[index][**]* Exposes the JavaScript

[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin

*的美好 phase: Short

* val CREATION_PHASE: Short

* val AT_TARGET: Short

* val BUBBLING_PHASE: Short

* asDynamic()[index][**]* Exposes the JavaScript

[HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin

*的美好 phase: Short

* val AREA_NODE: Short

* val ATTRIBUTE_NODE: Short

* val TEXT_NODE: Short

* val CDATA_SECTION_NODE: Short

* val ENTITY_REFERENCE_NODE: Short

* val ENTITY_NODE: Short

* val PROCESSING_INSTRUCTION_NODE: Short

* val COMMENT_NODE: Short

* val DOCUMENT_NODE: Short

* val DOCUMENT_TYPE_NODE: Short

* val DOCUMENT_FRAGMENT_NODE: Short

* val DOCUMENT_POSITION_DISCONNECTED: Short

* val DOCUMENT_POSITION_PRECEDING: Short

* val DOCUMENT_POSITION_FOLLOWING: Short

* val DOCUMENT_POSITION_CONTAINS: Short

* val DOCUMENT_POSITION_CONTAINED_BY: Short

* val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

* asDynamic()[index][**]* Exposes the JavaScript

[HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin

*的美好 phase: Short

* val ATTRIBUTE_NODE: Short

* val TEXT_NODE: Short

* val CDATA_SECTION_NODE: Short

* val ENTITY_REFERENCE_NODE: Short

* val PROCESSING_INSTRUCTION_NODE: Short

* val COMMENT_NODE: Short

* val DOCUMENT_NODE: Short

* val DOCUMENT_TYPE_NODE: Short

* val DOCUMENT_FRAGMENT_NODE: Short

* val DOCUMENT_POSITION_DISCONNECTED: Short

* val DOCUMENT_POSITION_PRECEDING: Short

* val DOCUMENT_POSITION_FOLLOWING: Short

* val DOCUMENT_POSITION_CONTAINS: Short

* val DOCUMENT_POSITION_CONTAINED_BY: Short

* val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

* asDynamic()[index][**]* Exposes the JavaScript

[String](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin

* open var coords: String

* open var shape: String

* open var target: String

* open var download: String

* open var ping: String

* open var rel: String

* open var referrerPolicy: String

* open var noHref: Boolean
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin
 */
public external abstract class HTMLTableSectionElement : HTMLElement {
    open val rows: HTMLCollection
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    fun insertRow(index: Int = definedExternally): HTMLElement
    fun deleteRow(index: Int)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin
 */
public external abstract class HTMLTableRowElement : HTMLElement {
    open val rowIndex: Int
    open val sectionRowIndex: Int
    open val cells: HTMLCollection
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertCell(index: Int = definedExternally): HTMLElement
    fun deleteCell(index: Int)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin
 */
public external abstract class HTMLTableCellElement : HTMLElement {
    open var colSpan: Int
    open var rowSpan: Int
    open var headers: String
    open val cellIndex: Int
    open var scope: String
    open var abbr: String
    open var align: String
    open var axis: String
    open var height: String
    open var width: String
    open var ch: String
    open var chOff: String
    open var noWrap: Boolean
    open var vAlign: String
    open var bgColor: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin
 */
public external abstract class HTMLFormElement : HTMLElement {
    open var acceptCharset: String
    open var action: String
    open var autocomplete: String
    open var enctype: String
    open var encoding: String
    open var method: String
    open var name: String
    open var noValidate: Boolean
    open var target: String
    open val elements: HTMLFormControlsCollection
    open val length: Int
    fun submit()
    fun reset()
    fun
HTMLCollection

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin
 */
public external abstract class HTMLOptGroupElement : HTMLElement, UnionHTMLOptGroupElementOrHTMLOptionElement {
    open var disabled: Boolean
    open var label: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin
 */
public external abstract class HTMLOptionElement : HTMLElement, UnionHTMLOptGroupElementOrHTMLOptionElement {
    open var disabled: Boolean
    open val form: HTMLFormElement?
    open var label: String
    open var defaultSelected: Boolean
    open var selected: Boolean
    open var value: String
    open var text: String
    open val index: Int

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin
 */
public external abstract class HTMLTextAreaElement : HTMLElement {
    open var autocomplete: String
    open var autofocus: Boolean
    open var cols: Int
    open var dirName: String
    open var disabled: Boolean
    open val form: HTMLFormElement?
    open var inputMode: String
    open var maxLength: Int
    open var minLength: Int
    open var name: String
    open var placeholder: String
    open var readOnly: Boolean
    open var required: Boolean
    open var rows: Int
    open var wrap: String
    open val type: String
    open var defaultValue: String
    open var value: String
    open val textLength: Int
    open val willValidate: Boolean
    open val validity: ValidityState
    open val validationMessage: String
    open val labels: NodeList
    open var selectionStart: Int?
    open var selectionEnd: Int?
    open var selectionDirection: String?
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean
    fun setCustomValidity(error: String)
    fun select()
    fun setRangeText(replacement: String)
    fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally)
    fun setSelectionRange(start: Int, end: Int, direction: String =
definedExternally)

companioneobject {\nval ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin
 */
public external abstract class HTMLKeygenElement : HTMLElement {
    open var autofocus: Boolean
    open var challenge: String
    open var disabled: Boolean
    open val form: HTMLFormElement?
    open var keytype: String
    open var name: String
    open val type: String
    open val willValidate: Boolean
    open val validity: ValidityState
    open val labels: NodeList
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean
    fun setCustomValidity(error: String)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin
 */
public external abstract class HTMLOutputElement : HTMLElement {
    open val htmlFor: DOMTokenList
    open val form: HTMLFormElement?
    open var name: String
    open val type: String
    open var defaultValue: String
    open var value: String
    open val willValidate: Boolean
    open val validity: ValidityState
    open val labels: NodeList
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean
    fun setCustomValidity(error: String)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin
 */
public external abstract class HTMLProgressElement : HTMLElement {
    open var value: Double
    open var max: Double
    open val position: Double
    open val labels: NodeList

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
/**
 * Exposes the JavaScript [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin
 */
public external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {
    open var src: String
    open var type: String
    open var charset: String
    open var async: Boolean
    open var defer: Boolean
    open var crossOrigin: String?
    open var text: String
    open var nonce: String
    open var event: String
    open var htmlFor: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin
 */
public external abstract class HTMLTemplateElement : HTMLElement {
    open val content: DocumentFragment

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin
 */
public external abstract class HTMLSlotElement : HTMLElement {
    open var name: String
    fun assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external interface AssignedNodesOptions {
    var flatten: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun AssignedNodesOptions(flatten: Boolean? =

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9853
false): AssignedNodesOptions {\u201c\n  val o = jso("{}")\n  o[\"flatten\"] = flatten\n  return o\n}\n\n* Exposes the JavaScript [HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\n*\n\nfalse): AssignedNodesOptions {\n  val o = jso("{}")\n  o[\"flatten\"] = flatten\n  return o\n}\n\n* Exposes the JavaScript [HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\n*
    val o = js("({})")
    o["path"] = path
    o["fillRule"] = fillRule
    o["id"] = id
    o["parentID"] = parentID
    o["cursor"] = cursor
    o["control"] = control
    o["label"] = label
    o["role"] = role
    return o
}

/**
 * Exposes the JavaScript
[ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin
 */
public external open class ImageData : ImageBitmapSource, TexImageSource {
    constructor(sw: Int, sh: Int)
    constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)
    open val width: Int
    open val height: Int
    open val data: Uint8ClampedArray
}

/**
 * Exposes the JavaScript
[Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin
 */
public external open class Path2D() : CanvasPath {
    constructor(path: Path2D)
    constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)
    constructor(d: String)
    fun addPath(path: Path2D, transform: dynamic = definedExternally)
    override fun closePath()
    override fun moveTo(x: Double, y: Double)
    override fun lineTo(x: Double, y: Double)
    override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)
    override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)
    override fun rect(x: Double, y: Double, width: Double, height: Double)
    override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */)
**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma**

```kotlin
fun getAsString(_callback: ((String) -> Unit?)?)
fun getAsFile(): File?
fun get(client: Any?)

/**
 * Exposes the JavaScript [DragEvent](https://developer.mozilla.org/en/docs/Web/API/DragEvent) to Kotlin
 */
public external open class DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {
    open val dataTransfer: DataTransfer?
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface DragEventInit : MouseEventInit {
    var dataTransfer: DataTransfer? /* = null */
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["dataTransfer"] = dataTransfer
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["Cancelable"] = cancelable
    o["composed"] = composed
    return o
}
```

**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma**
open var onnoupdate: ((Event) -> dynamic)?
open var ondownloading: ((Event) -> dynamic)?
open var onprogress: ((ProgressEvent) -> dynamic)?
open var onupdatereday: ((Event) -> dynamic)?
open var oncached: ((Event) -> dynamic)?
open var onobsolete: ((Event) -> dynamic)?
fun update()
fun abort()
fun swapCache()

companion object {
val UNCACHED: Short
val IDLE: Short
val CHECKING: Short
val DOWNLOADING: Short
val UPDATEREADY: Short
val OBSOLETE: Short
}

/**
 * Exposes the JavaScript
 */
public external interface NavigatorOnLine {
val onLine: Boolean
}

/**
 * Exposes the JavaScript
 */
public external open class ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {
val message: String
val filename: String
val lineno: Int
val colno: Int
val error: Any?

companion object {
val NONE: Short
val CAPTURING_PHASE: Short
val AT_TARGET: Short
val BUBBLING_PHASE: Short
}

public external interface ErrorEventInit : EventInit {
var message: String?
var filename: String?
var lineno: Int?
var colno: Int?
var error: Any?
}

@kotlin.internal.InlineOnly
val o = js("({})")
    o["message"] = message
    o["filename"] = filename
    o["lineno"] = lineno
    o["colno"] = colno
    o["error"] = error
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript
 */
public external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) : Event {
val promise: Promise<Any>
val reason: Any?

companion object {
val NONE: Short
val CAPTURING_PHASE: Short
val AT_TARGET: Short
val BUBBLING_PHASE: Short
}

public external interface PromiseRejectionEventInit : EventInit {
var promise: Promise<Any>?
var reason: Any?
}

@kotlin.internal.InlineOnly
val o = js("({})")
    o["promise"] = promise
    o["reason"] = reason
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript
 */
public external interface GlobalEventHandlers {
var onabort: ((Event) -> dynamic)?
val var onblur: ((FocusEvent) -> dynamic)?
var oncancel: ((Event) -> dynamic)?
var oncanplay: ((Event) -> dynamic)?
var oncanplaythrough: ((Event) -> dynamic)?
var onchange: ((Event) -> dynamic)?
var onclick: ((MouseEvent) -> dynamic)?
var onclose: ((Event) -> dynamic)?
var oncontextmenu: ((MouseEvent) -> dynamic)?
val get() = definedExternally
set(value) = definedExternally
var ondrag: ((DragEvent) -> dynamic)?

set(value) = definedExternally
    var ontoggle: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onvolumechange: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onwaiting: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var ongotpointercapture: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onlostpointercapture: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointerdown: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointermove: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointerup: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointercancel: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointerover: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointerout: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointerenter: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointerleave: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onafterprint: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onbeforeprint: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onbeforeunload: ((BeforeUnloadEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onhashchange: ((HashChangeEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onlanguagechange: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onmessage: ((MessageEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onoffline: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var online: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpagehide: ((PageTransitionEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpageshow: ((PageTransitionEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpopstate: ((PopStateEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onunload: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var oncopy: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var cut: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var paste: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var ononcopy: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var ononcut: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var ononpaste: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
[
WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin

```
/**
 * Exposes the JavaScript
 [WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin
*/
public external interface WindowEventHandlers {
    var onafterprint: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onbeforeprint: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onbeforeunload: ((BeforeUnloadEvent) -> String)?
        get() = definedExternally
        set(value) = definedExternally
    var onhashchange: ((HashChangeEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onlanguagechange: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onmessage: ((MessageEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onoffline: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var online: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpagehide: ((PageTransitionEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpageshow: ((PageTransitionEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpopstate: ((PopStateEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onunload: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var oncopy: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var cut: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var paste: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
[
WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope) to Kotlin

```

```
[Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin

```kotlin
public external abstract class Navigator :
    NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies,
    NavigatorPlugins, NavigatorConcurrentHardware {
    open val clipboard: Clipboard
    open val mediaDevices: MediaDevices
    open val maxTouchPoints: Int
    fun requestMediaKeySystemAccess(keySystem: String,
        successCallback: (MediaKeySystemAccess) -> Unit,
        errorCallback: (dynamic) -> Unit)
}
```

```kotlin
/**
 * Exposes the JavaScript
 */
public external interface NavigatorID {
    val appCodeName: String
    val appName: String
    val appVersion: String
    val platform: String
    val product: String
    val productSub: String
    val userAgent: String
    val vendor: String
    val vendorSub: String
    fun taintEnabled(): Boolean
}
```

```kotlin
/**
 * Exposes the JavaScript
 */
public external interface NavigatorLanguage {
    val language: String
    val languages: Array<out String>
}
```

```kotlin
public external interface NavigatorContentUtils {
    fun registerProtocolHandler(scheme: String, url: String, title: String)
    fun isProtocolHandlerRegistered(scheme: String, url: String): String
    fun unregisterProtocolHandler(scheme: String, url: String)
}
```

```kotlin
public external interface NavigatorCookies {
    val cookieEnabled: Boolean
}
```

```kotlin
/**
 * Exposes the JavaScript
 */
public external interface NavigatorPlugins {
    val plugins: PluginArray
    fun javaEnabled(): Boolean
}
```

```kotlin
/**
 * Exposes the JavaScript
 */
public external abstract class PluginArray : ItemArrayLike<Plugin> {
    fun refresh(reload: Boolean = definedExternally)
    override fun item(index: Int): Plugin?
    fun namedItem(name: String): Plugin?
}
```

```kotlin
@kotlin.internal.InlineOnly
public inline operator fun PluginArray.get(index: Int): Plugin? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]
```

```kotlin
/**
 * Exposes the JavaScript
 */
public external abstract class Plugin : ItemArrayLike<MimeType> {
    open val name: String
    open val description: String
    override fun item(index: Int): MimeType?
    fun namedItem(name: String): MimeType?
}
```

```kotlin
@kotlin.internal.InlineOnly
public inline operator fun Plugin.get(index: Int): MimeType? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Plugin.get(name: String): MimeType? = asDynamic()[name]
```

```kotlin
/**
 * Exposes the JavaScript
 */
public external abstract class MimeType {
    open val type: String
    open val description: String
    open val suffixes: String
    open val enabledPlugin: Plugin
}
```

```kotlin
public external interface ImageBitmapOptions {
    var imageOrientation: ImageOrientation? /* = ImageOrientation.NONE */
        get() = definedExternally
    var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */
        get() =
```
definedExternally
    set(value) = definedExternally

    var colorSpaceConversion: ColorSpaceConversion? /* = ColorSpaceConversion.DEFAULT */
        get() = definedExternally
    set(value) = definedExternally

    var resizeWidth: Int?
        get() = definedExternally
    set(value) = definedExternally

    var resizeHeight: Int?
        get() = definedExternally
    set(value) = definedExternally

    var resizeQuality: ResizeQuality? /* = ResizeQuality.LOW */
        get() = definedExternally
    set(value) = definedExternally

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["imageOrientation"] = imageOrientation
    o["premultiplyAlpha"] = premultiplyAlpha
    o["colorSpaceConversion"] = colorSpaceConversion
    o["resizeWidth"] = resizeWidth
    o["resizeHeight"] = resizeHeight
    o["resizeQuality"] = resizeQuality
    return o
}

/**
 * Exposes the JavaScript [MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin
 */
public external open class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {
    open val data: Any?
        get() = definedExternally
    open val origin: String
        get() = definedExternally
    open val lastEventId: String
        get() = definedExternally
    open val source: UnionMessagePortOrWindowProxy?
        get() = definedExternally
    fun initMessageEvent(type: String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MessageEventInit : EventInit {
    var data: Any? /* = null */
        get() = definedExternally
    set(value) = definedExternally
    var origin: String? /* = "" */
        get() = definedExternally
    set(value) = definedExternally
    var lastEventId: String? /* = "" */
        get() = definedExternally
    set(value) = definedExternally
    var source: UnionMessagePortOrWindowProxy? /* = null */
        get() = definedExternally
    set(value) = definedExternally
    var ports: Array<MessagePort>? /* = arrayOf() */
        get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["data"] = data
    o["origin"] = origin
    o["lastEventId"] = lastEventId
    o["source"] = source
    o["ports"] = ports
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin
 */
public external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {
    open val url: String
        get() = definedExternally
    open val withCredentials: Boolean
        get() = definedExternally
    set(value) = definedExternally
    open val readyState: Short
        get() = definedExternally
    var onopen: ((Event) -> dynamic)?
        get() = definedExternally
    var onmessage: ((MessageEvent) -> dynamic)?
        get() = definedExternally
    var onerror: ((Event) -> dynamic)?
        get() = definedExternally
    var onclose: ((Event) -> dynamic)?
        get() = definedExternally
    fun close()

    companion object {
        val CONNECTING: Short
        val OPEN: Short
        val CLOSED: Short
    }

    public external interface EventSourceInit {
        var withCredentials: Boolean? /* = false */
            get() = definedExternally
        set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
    public inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {
        val o = js("({})")
        o["withCredentials"] = withCredentials
        return o
    }

    /**
     * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin
     */
    public external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {
        open val url: String
        open val readyState: Short
        open val bufferedAmount: Number
        var onopen: ((Event) -> dynamic)?
            get() = definedExternally
        set(value) = definedExternally
        var onmessage: ((MessageEvent) -> dynamic)?
            get() = definedExternally
        set(value) = definedExternally
        var onerror: ((Event) -> dynamic)?
            get() = definedExternally
        var onclose: ((Event) -> dynamic)?
            get() = definedExternally
        fun close(code: Short)

        public fun send(data: String)
            get() = definedExternally
        fun send(data: Blob)
            get() = definedExternally
        fun send(data: ArrayBuffer)
            get() = definedExternally
        fun send(data: ArrayBufferView)
            get() = definedExternally
    }

    Companion object {
        val CONNECTING: Short
        val OPEN: Short
        val CLOSED: Short
    }

    public fun send(data: String)
        get() = definedExternally
    fun send(data: Blob)
        get() = definedExternally
    fun send(data: ArrayBuffer)
        get() = definedExternally
    fun send(data: ArrayBufferView)
        get() = definedExternally

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Short

val OPEN: Short
val CLOSING: Short
val CLOSED: Short

/**
 * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin
 */
public external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {
    open val wasClean: Boolean
    open val code: Short
    open val reason: String

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface CloseEventInit : EventInit {
    var wasClean: Boolean? /* = false */
    var code: Short? /* = 0 */
    var reason: String? /* = "" */
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["wasClean"] = wasClean
    o["code"] = code
    o["reason"] = reason
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    return o
}

/**
 * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin
 */
public external open class MessageChannel {
    open val port1: MessagePort
    open val port2: MessagePort
}

/**
 * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin
 */
public external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun start()
    fun close()
}

/**
 * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin
 */
public external open class BroadcastChannel(name: String) : EventTarget {
    open val name: String
    var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?)
    fun close()
}

/**
 * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin
 */
public external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {
    open val self: WorkerGlobalScope
    open val location: WorkerLocation
    open val navigator: WorkerNavigator
    open var onerror: ((Event) -> dynamic)?
    open var onlanguagechange: ((Event) -> dynamic)?
    open var onoffline: ((Event) -> dynamic)?
    open var ononline: ((Event) -> dynamic)?
    open var onrejectionhandled: ((Event) -> dynamic)?
    open var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?
    fun importScripts(vararg urls: String)
}

/**
 * Exposes the JavaScript [DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin
 */
public external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun close()
}

/**
 * Exposes the JavaScript [SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin
 */
public external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {
    open val name: String
    open val applicationCache: ApplicationCache
    open var onconnect: ((Event) -> dynamic)?
    fun close()
}

/**
 * Exposes the JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin
 */
public external interface AbstractWorker {
    var onerror: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
}

[Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin

[AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin

[MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin

[MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin

[BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin
WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {
    val o = js("{}")
    o["type"] = type
    o["credentials"] = credentials
    return o
}

@kotlin.internal.InlineOnly
public inline fun WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {
    val o = js("{}")
    o["type"] = type
    o["credentials"] = credentials
    return o
}

WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {
    val o = js("{}")
    o["type"] = type
    o["credentials"] = credentials
    return o
}

@kotlin.internal.InlineOnly
public inline operator fun Storage.get(key: String): String? = asDynamic()[key]

@kotlin.internal.InlineOnly
public inline operator fun Storage.set(key: String, value: String) {
    asDynamic()[key] = value
}

get() = definedExternally
set(value) = definedExternally

open val o = js("{}")

open var old = js("{}")

open var url = js("{}")

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open var url = js(....)
CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}]

/**
 * Exposes the JavaScript
 [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin
 */
public external abstract class HTMLMarqueeElement : HTMLElement {
    open var behavior: String
    open var bgColor: String
    open var direction: String
    open var height: String
    open var hspace: Int
    open var loop: Int
    open var scrollAmount: Int
    open var scrollDelay: Int
    open var trueSpeed: Boolean
    open var vspace: Int
    open var width: String
    open var onbounce: ((Event) -> dynamic)?
    open var onfinish: ((Event) -> dynamic)?
    open var onstart: ((Event) -> dynamic)?
    fun start()
    fun stop()

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin
 */
public external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {
    open var cols: String
    open var rows: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external abstract class HTMLFrameElement : HTMLElement {
    open var name: String
    open var scrolling: String
    open var src: String
    open var frameborder: String
    open var longDesc: String
    open var noResize: Boolean
    open var marginHeight: String
    open var marginWidth: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
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**HTMLDirectoryElement**: `HTMLDirectoryElement`

- **open var compact**: `Boolean`
- **companion object**:
  - `ELEMENT_NODE`: `Short`
  - `ATTRIBUTE_NODE`: `Short`
  - `TEXT_NODE`: `Short`
  - `CDATA_SECTION_NODE`: `Short`
  - `ENTITY_REFERENCE_NODE`: `Short`
  - `ENTITY_NODE`: `Short`
  - `PROCESSING_INSTRUCTION_NODE`: `Short`
  - `COMMENT_NODE`: `Short`
  - `DOCUMENT_NODE`: `Short`
  - `DOCUMENT_TYPE_NODE`: `Short`
  - `DOCUMENT_FRAGMENT_NODE`: `Short`
  - `NOTATION_NODE`: `Short`
  - `DOCUMENT_POSITION_DISCONNECTED`: `Short`
  - `DOCUMENT_POSITION_PRECEDING`: `Short`
  - `DOCUMENT_POSITION_FOLLOWING`: `Short`
  - `DOCUMENT_POSITION_CONTAINS`: `Short`
  - `DOCUMENT_POSITION_CONTAINED_BY`: `Short`
  - `DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC`: `Short`

**HTMLFontElement**: `HTMLFontElement`

- **open var color**: `String`
- **open var face**: `String`
- **open var size**: `String`

**External**:

- **fun AddSearchProvider()**
- **fun IsSearchProviderInstalled()**

**EventInit**:

- **var bubbles**: `Boolean? /* = false */` `get()` = `definedExternally
  set(value) = definedExternally
  var cancelable**: `Boolean? /* = false */` `get()` = `definedExternally
  var composed**: `Boolean? /* = false */` `get()` = `definedExternally

- **CustomEventInit**: `CustomEventInit`
- **var detail**: `Any? /* = null */` `get()` = `definedExternally
  **addEventListenerOptions**: `addEventListenerOptions`
- **var capture**: `Boolean? /* = false */` `get()` = `definedExternally
  **once**: `Boolean? /* = false */` `get()` = `definedExternally

**CustomEvent**:

- **fun initCustomEvent()**

**EventListenerOptions**:

- **var capture**: `Boolean? /* = false */` `get()` = `definedExternally
  **once**: `Boolean? /* = false */` `get()` = `definedExternally
getElementById(elementId: String): Element?
}

/**
 * Exposes the JavaScript
 [DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin
 */
public external interface DocumentOrShadowRoot {
    val fullScreenElement: Element?
        get() = definedExternally
}

/**
 * Exposes the JavaScript
 [ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin
 */
public external interface ParentNode {
    val children: HTMLCollection
    val firstElementChild: Element?
        get() = definedExternally
    val lastElementChild: Element?
        get() = definedExternally
    val childElementCount: Int
    fun prepend(vararg nodes: dynamic)
    fun append(vararg nodes: dynamic)
    fun querySelector(selectors: String): Element?
    fun querySelectorAll(selectors: String): NodeList
}

/**
 * Exposes the JavaScript
 [NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to Kotlin
 */
public external interface NonDocumentTypeChildNode {
    val previousElementSibling: Element?
        get() = definedExternally
    val nextElementSibling: Element?
        get() = definedExternally
}

/**
 * Exposes the JavaScript
 [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin
 */
public external interface ChildNode {
    fun before(vararg nodes: dynamic)
    fun after(vararg nodes: dynamic)
    fun replaceWith(vararg nodes: dynamic)
    fun remove()
}

/**
 * Exposes the JavaScript
 [Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin
 */
public external interface Slotable {
    val assignedSlot: HTMLSlotElement?
        get() = definedExternally
}

/**
 * Exposes the JavaScript
 [NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin
 */
public external abstract class NodeList : ItemArrayLike<Node> {
    override fun item(index: Int): Node?
}

@kotlin.internal.InlineOnly

/**
 * Exposes the JavaScript
 [HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin
 */
public external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {
    override fun item(index: Int): Element?
    fun namedItem(name: String): Element?
}

@kotlin.internal.InlineOnly
public inline operator fun HTMLCollection.get(index: Int): Element? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun HTMLCollection.get(name: String): Element? = asDynamic()[name]

/**
 * Exposes the JavaScript
 [MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin
 */
public external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {
    fun observe(target: Node, options: MutationObserverInit = definedExternally)
    fun disconnect()
    fun takeRecords(): Array<MutationRecord>
}

/**
 * Exposes the JavaScript
 [MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin
 */
public external interface MutationObserverInit {
    var childList: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var attributes: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var characterData: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var subtree: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var attributeOldValue: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var characterDataOldValue: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var attributeFilter: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["childList"] = childList
    o["attributes"] = attributes
    o["characterData"] = characterData
    o["subtree"] = subtree
    o["attributeOldValue"] = attributeOldValue
    o["characterDataOldValue"] = characterDataOldValue
    o["attributeFilter"] = attributeFilter
    return o
}

/**
 * Exposes the JavaScript
 [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin
 */
public external abstract class MutationRecord {
    open val type: String
    open val target: Node
    open val addedNodes:
exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin

```kotlin
open val removedNodes: NodeList
open val previousSibling: Node?
open val nextSibling:
open val attributeName: String?
open val attributeNamespace: String?
open val oldValue:

/**
 * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to
Kotlin
 */
public external abstract class Node : EventTarget {
    open val nodeType: Short
    open val
nodeName: String
    open val baseURI: String
    open val isConnected: Boolean
    open val ownerDocument:
    open val parentNode: Node?
    open val parentElement: Element?
    open val childNodes:
open val firstChild: Node?
open val lastChild: Node?
open val previousSibling: Node?
open val nextSibling: Node?
open var nodeValue: String?
open var textContent: String?
fun
getRootNode(options: GetRootNodeOptions = definedExternally): Node
fun hasChildNodes(): Boolean
fun
normalize()
fun cloneNode(deep: Boolean = definedExternally): Node
fun isEqualNode(otherNode: Node?): Boolean
fun isSameNode(otherNode: Node?): Boolean
fun compareDocumentPosition(other: Node): Short
fun
contains(other: Node?): Boolean
fun lookupPrefix(namespace: String?): String?
fun
lookupNamespaceURI(prefix: String?): String?
fun
isDefaultNamespace(namespace: String?): Boolean
fun insertBefore(node: Node, child: Node?): Node
fun appendChild(node: Node): Node
fun replaceChild(node: Node, child: Node): Node

companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE:
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

public external interface
GetRootNodeOptions {
    var composed: Boolean? /* = false */
        get() = definedExternally
        set(value) =
definedExternally
    }

@kotlin.internal.InlineOnly
public inline fun GetRootNodeOptions(composed: Boolean? = false): GetRootNodeOptions {
    val o = js("({})")
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin
 */
public external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers,
NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {
    open val implementation:
    open val URL: String
    open val documentURI: String
    open val origin: String
open val compatMode: String
open val characterSet: String
open val inputEncoding: String
open val contentType: String
open val doctype: DocumentType?
open val
documentElement: Element?
open val location: Location?
var domain: String
var referrer: String
var cookie: String
open val lastModified: String
var title:
var dir: String
var body: HTMLElement?
open val
head: HTMLHeadElement?
open val images: HTMLCollection
open val embeds: HTMLCollection
open val plugins: HTMLCollection
open val links: HTMLCollection
open val forms: HTMLCollection
open val scripts: HTMLCollection
open val
currentScript: HTMLOrSVGScriptElement?
open val
defaultView: Window?
open val activeElement:
open val location: Location?
var domain: String
var referrer: String

```
Exposes the JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin:

```kotlin
public external abstract class DOMImplementation {
    fun createDocumentType(qualifiedName: String, publicId: String, systemId: String): DocumentType
    fun createDocument(namespace: String?, qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument
    fun createHTMLDocument(title: String = definedExternally): Document
    fun hasFeature(): Boolean
}
```

Exposes the JavaScript [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin:

```kotlin
public external abstract class DocumentType : Node, ChildNode {
    open val name: String
    open val publicId: String
    open val systemId: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

Exposes the JavaScript [DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin:

```kotlin
public external open class DocumentFragment : Node, NonElementParentNode, ParentNode {
    override val children: HTMLCollection
    override val firstElementChild: Element?
    override val lastElementChild: Element?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

Exposes the JavaScript [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin:

```kotlin
public external open class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {
    open val mode: ShadowRootMode

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

Exposes the JavaScript [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin:

```kotlin
public external abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils, UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent,
```
Attr: Node {
  open val namespaceURI: String?
  open val prefix: String?
  open val localName: String
  open val name: String
  open val value: String
  open val ownerElement: Element?
  open val specified: Boolean
}

companion object {
  val ELEMENT_NODE: Short
  val ATTRIBUTE_NODE: Short
  val TEXT_NODE: Short
  val CDATA_SECTION_NODE: Short
  val ENTITY_REFERENCE_NODE: Short
  val ENTITY_NODE: Short
  val PROCESSING_INSTRUCTION_NODE: Short
  val COMMENT_NODE: Short
  val DOCUMENT_NODE: Short
  val DOCUMENT_TYPE_NODE: Short
  val DOCUMENT_FRAGMENTS: Short
  val DOCUMENT_POSITION_DISCONNECTED: Short
  val DOCUMENT_POSITION_PRECEDING: Short
  val DOCUMENT_POSITION_FOLLOWING: Short
  val DOCUMENT_POSITION_CONTAINS: Short
  val DOCUMENT_POSITION_CONTAINED_BY: Short
  val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin
 */
public external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {
  open var data: String
  open val length: Int
  fun substringData(offset: Int, count: Int): String
  fun appendData(data: String)
  fun insertData(offset: Int, data: String)
  fun deleteData(offset: Int, count: Int)
  fun replaceData(offset: Int, count: Int, data: String)
}

/**
 * Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin
 */
public external open class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {
  open val wholeText: String
  override val assignedSlot: HTMLSlotElement?
  override val previousElementSibling: Element?
  override val nextElementSibling: Element?
  fun splitText(offset: Int): Text
  override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */) : Array<DOMQuad>
  override fun convertQuadFromNode(quad: DOMQuad, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
  override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
  override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint
  override fun before(vararg nodes: dynamic)
  override fun after(vararg nodes: dynamic)
  override fun replaceWith(vararg nodes: dynamic)
  override fun remove()
}

/**
 * Exposes the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin
 */
public external open class CDATASection : Text

**Exposes the JavaScript [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin**

```kotlin
public external abstract class ProcessingInstruction : CharacterData, LinkStyle,
        UnionElementOrProcessingInstruction {
    open val target: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

**Exposes the JavaScript [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin**

```kotlin
public external open class Comment(data: String = definedExternally) : CharacterData {
    override val previousElementSibling: Element?
    override val nextElementSibling: Element?
    override fun before(vararg nodes: dynamic)
    override fun after(vararg nodes: dynamic)
    override fun replaceWith(vararg nodes: dynamic)
    override fun remove()

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

**Exposes the JavaScript [Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin**

```kotlin
public external open class Range {
    open val startContainer: Node
    open val startOffset: Int
    open val endContainer: Node
    open val endOffset: Int
    open val collapsed: Boolean
    open val commonAncestorContainer: Node
    fun setStart(node: Node, offset: Int)
    fun setEnd(node: Node, offset: Int)
    fun setStartBefore(node: Node)
    fun setStartAfter(node: Node)
    fun setEndBefore(node: Node)
    fun setEndAfter(node: Node)
    fun collapse(toStart: Boolean = definedExternally)
    fun selectNode(node: Node)
    fun selectNodeContents(node: Node)
    fun compareBoundaryPoints(how: Short, sourceRange: Range): Short
    fun deleteContents()
    fun extractContents(): DocumentFragment
    fun cloneContents(): DocumentFragment
    fun insertNode(node: Node)
    fun surroundContents(newParent: Node)
    fun cloneRange(): Range
    fun detach()
    fun isPointInRange(node: Node, offset: Int): Boolean
    fun comparePoint(node: Node, offset: Int): Short
    fun intersectsNode(node: Node): Boolean
    fun getClientRects(): Array<DOMRect>
    fun getBoundingClientRect(): DOMRect
    fun createContextualFragment(fragment: String): DocumentFragment
    fun companion object {
        val START_TO_START: Short
        val START_TO_END: Short
        val END_TO_END: Short
    }
}
```

**Exposes the JavaScript [NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin**

```kotlin
public external abstract class NodeIterator {
    fun nextNode(): Node
    fun previousNode(): Node
    fun currentNode(): Node
}
```
class NodeIterator {
    open val root: Node
    open val referenceNode: Node
    open val pointerBeforeReferenceNode: Boolean
    open val whatToShow: Int
    open val filter: NodeFilter?
    fun
    nextNode(): Node?
    fun previousNode(): Node?
    fun detach()
}

/**
 * Exposes the JavaScript [TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin
 */
public external abstract class TreeWalker {
    open val root: Node
    open val whatToShow: Int
    open val filter: NodeFilter?
    open
    var currentNode: Node
    fun parentNode(): Node?
    fun firstChild(): Node?
    fun lastChild(): Node?
    fun
    previousSibling(): Node?
    fun nextSibling(): Node?
    fun
    nextNode(): Node?
}

/**
 * Exposes the JavaScript [NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin
 */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface NodeFilter {
    fun acceptNode(node: Node): Short

    companion object {
        val FILTER_ACCEPT: Short
        val FILTER_REJECT: Short
        val FILTER_SKIP: Short
        val SHOW_ALL: Int
        val SHOW_ELEMENT: Int
        val SHOW_ATTRIBUTE: Int
        val SHOW_TEXT: Int
        val SHOW_CDATA_SECTION: Int
        val SHOW_ENTITY_REFERENCE: Int
        val SHOW_ENTITY: Int
        val SHOW_PROCESSING_INSTRUCTION: Int
        val SHOW_COMMENT: Int
        val SHOW_DOCUMENT: Int
        val SHOW_DOCUMENT_TYPE: Int
        val SHOW_DOCUMENT_FRAGMENT: Int
        val SHOW_NOTATION: Int
    }
}

/**
 * Exposes the JavaScript [DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin
 */
public external abstract class DOMTokenList : ItemArrayLike<String> {
    open var value: String
    fun contains(token: String): Boolean
    fun add(vararg tokens: String)
    fun remove(vararg tokens: String)
    fun toggle(token: String, force: Boolean = definedExternally): Boolean
    fun replace(token: String, newToken: String)
    fun
    supports(token: String): Boolean
    override fun item(index: Int): String?
}

@kotlin.internal.InlineOnly
public inline operator fun DOMTokenList.get(index: Int): String? = asDynamic()[index]

/**
 * Exposes the JavaScript [DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin
 */
public external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {
    open val x: Double
    open val y: Double
    open val z: Double
    open val w: Double
    fun matrixTransform(matrix: DOMMatrixReadOnly): DOMPoint
}

/**
 * Exposes the JavaScript [DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin
 */
public external open class DOMPoint : DOMPointReadOnly {
    constructor(point: DOMPointInit)
    constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)
    override var x: Double
    override var y: Double
    override var z: Double
    override var w: Double
}

/**
 * Exposes the JavaScript [DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin
 */
public external interface DOMPointInit {
    var x: Double? /* = 0.0 */
        get() = definedExternally
        set(value) =
    var y: Double? /* = 0.0 */
        get() = definedExternally
        set(value) =
    var z: Double? /* = 0.0 */
        get() = definedExternally
        set(value) =
    var w: Double? /* = 1.0 */
        get() = definedExternally
        set(value) =
}

@kotlin.internal.InlineOnly
public inline fun DOMPointInit(x: Double? = 0.0, y: Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {
    val o = js("({})")
    o["x"] = x
    o["y"] = y
    o["z"] = z
    o["w"] = w
    return o
}

/**
 * Exposes the JavaScript [DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin
 */
public external open class DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally, height: Double = definedExternally) : DOMRectReadOnly {
    override var x: Double
    override var y: Double
    override var width: Double
    override var height: Double
}

/**
 * Exposes the JavaScript [DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin
 */
public external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {
    open val x: Double
    open val y: Double
    open val width: Double
    open val height: Double
    fun
    override var x: Double
    override var y: Double
    override var width: Double
    override var height: Double
}
open val right: Double
open val bottom: Double
open val left: Double

DOMRectInit {
    var x: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var y: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var width: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var height: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
}

public external interface DOMRectInit {
    var x: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var y: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var width: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var height: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
}

public external interface DOMRectList : ItemArrayLike<DOMRect> {
    override fun item(index: Int): DOMRect?
}

@kotlin.internal.InlineOnly
public inline fun DOMRectInit(x: Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {
    val o = js("({})")
    o["x"] = x
    o["y"] = y
    o["width"] = width
    o["height"] = height
    return o
}

public external interface DOMQuad {
    constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)
    constructor(rect: DOMRectInit)

    open val p1: DOMPoint
    open val p2: DOMPoint
    open val p3: DOMPoint
    open val p4: DOMPoint

    open val bounds: DOMRectReadOnly
}

/**
 * Exposes the JavaScript [DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin
 */
public external open class DOMQuad {
    constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)
    constructor(rect: DOMRectInit)

    open val p1: DOMPoint
    open val p2: DOMPoint
    open val p3: DOMPoint
    open val p4: DOMPoint

    open val bounds: DOMRectReadOnly
}

/**
 * Exposes the JavaScript [DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin
 */
public external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {
    open val a: Double
    open val b: Double
    open val c: Double
    open val d: Double
    open val e: Double
    open val f: Double
    open val m11: Double
    open val m12: Double
    open val m13: Double
    open val m14: Double
    open val m21: Double
    open val m22: Double
    open val m23: Double
    open val m24: Double
    open val m31: Double
    open val m32: Double
    open val m33: Double
    open val m34: Double
    open val m41: Double
    open val m42: Double
    open val m43: Double
    open val m44: Double
    open val is2D: Boolean
    open val isIdentity: Boolean
    fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix
    fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix
    fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
    fun scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
    fun rotate(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix
    fun rotateFromVector(x: Double, y: Double): DOMMatrix
    fun rotateAxisAngle(x: Double, y: Double, z: Double): DOMMatrix
    fun skewX(sx: Double): DOMMatrix
    fun skewY(sy: Double): DOMMatrix
    fun multiply(other: DOMMatrix): DOMMatrix
    fun flipX(): DOMMatrix
    fun flipY(): DOMMatrix
    fun inverse(): DOMMatrix
    fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint
    fun transformRect(rect: DOMRectInit = definedExternally): DOMRect
    fun transformRectList(rectList: DOMRectList = definedExternally): DOMRectList
    fun transformQuad(quad: DOMQuad = definedExternally): DOMQuad
    fun transformMatrixList(matrixList: DOMMatrixList = definedExternally): DOMMatrixList
    fun transformMatrixListSelf(matrixList: DOMMatrixListSelf = definedExternally): DOMMatrixListSelf
    fun transformMatrixList(other: DOMMatrixList = definedExternally): DOMMatrixList
    fun identity(): DOMMatrix
    fun identitySelf(): DOMMatrix
    fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix
    fun scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
    fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
    fun multiplySelf(other: DOMMatrix): DOMMatrix
    fun preMultiplySelf(other: DOMMatrix): DOMMatrix
    fun rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix
    fun rotateFromVectorSelf(x: Double, y: Double): DOMMatrix
    fun rotateAxisAngleSelf(x: Double, y: Double, z: Double): DOMMatrix
    fun skewXSelf(sx: Double): DOMMatrix
    fun skewYSelf(sy: Double): DOMMatrix
    fun multiplySelf(other: DOMMatrix): DOMMatrix
    fun transformPointSelf(point: DOMPointInit = definedExternally): DOMPoint
    fun transformRectSelf(rect: DOMRectInit = definedExternally): DOMRect
    fun transformRectListSelf(rectList: DOMRectList = definedExternally): DOMRectList
    fun transformQuadSelf(quad: DOMQuad = definedExternally): DOMQuad
    fun transformMatrixListSelf(matrixList: DOMMatrixList = definedExternally): DOMMatrixList
    fun transformMatrixListSelf(other: DOMMatrixList = definedExternally): DOMMatrixList
    fun identitySelf(): DOMMatrix
    fun translateSelfSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix
    fun scaleSelfSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
    fun scale3dSelfSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
    fun multiplySelfSelf(other: DOMMatrix): DOMMatrix
    fun preMultiplySelfSelf(other: DOMMatrix): DOMMatrix
    fun rotateSelfSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix
    fun rotateFromVectorSelfSelf(x: Double, y: Double): DOMMatrix
    fun rotateAxisAngleSelfSelf(x: Double, y: Double, z: Double): DOMMatrix
    fun skewXSelfSelf(sx: Double): DOMMatrix
    fun skewYSelfSelf(sy: Double): DOMMatrix
    fun multiplySelfSelf(other: DOMMatrix): DOMMatrix
}
override var onmousemove: ((MouseEvent) -> dynamic)?
override var onmouseup: ((MouseEvent) -> dynamic)?
override var onwheel: ((WheelEvent) -> dynamic)?
override var onpause: ((Event) -> dynamic)?
override var onplay: ((Event) -> dynamic)?
override var onplaying: ((Event) -> dynamic)?
override var onratechange: ((Event) -> dynamic)?
override var onprogress: ((ProgressEvent) -> dynamic)?
override var onreset: ((Event) -> dynamic)?
override var onresize: ((Event) -> dynamic)?
override var onscroll: ((Event) -> dynamic)?
override var onseeked: ((Event) -> dynamic)?
override var onseeking: ((Event) -> dynamic)?
override var onselect: ((Event) -> dynamic)?
override var onshow: ((Event) -> dynamic)?
override var onstalled: ((Event) -> dynamic)?
override var onsubmit: ((Event) -> dynamic)?
override var onwaiting: ((Event) -> dynamic)?
override var ongotpointercapture: ((PointerEvent) -> dynamic)?
override var onlostpointercapture: ((PointerEvent) -> dynamic)?
override var onpointerdown: ((PointerEvent) -> dynamic)?
override var onpointermove: ((PointerEvent) -> dynamic)?
override var onpointerup: ((PointerEvent) -> dynamic)?
override var onpointercancel: ((PointerEvent) -> dynamic)?
override var onpointerover: ((PointerEvent) -> dynamic)?
override var onpointerout: ((PointerEvent) -> dynamic)?
override var oncopy: ((ClipboardEvent) -> dynamic)?
override var oncut: ((ClipboardEvent) -> dynamic)?
override var onpaste: ((ClipboardEvent) -> dynamic)?
override var oncontentEditable: String
override val isContentEditable: Boolean
override var val style: CSSStyleDeclaration
override val children: HTMLCollection
override val firstElementChild: Element?
override val lastElementChild: Element?
override val previousElementSibling: Element?
override val nextElementSibling: Element?
override val assignedSlot: HTMLSlotElement?
override fun prepend(vararg nodes: dynamic)
override fun append(vararg nodes: dynamic)
override fun.querySelector(selectors: String): Element?
override fun.querySelectorAll(selectors: String): NodeList
override fun.before(vararg nodes: dynamic)
override fun.after(vararg nodes: dynamic)
override fun.replaceWith(vararg nodes: dynamic)
override fun remove()
override fun.getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>
override fun.convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
override fun.convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
override fun.convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

public external open class Audio(src: String = definedExternally) : HTMLAudioElement {
Boolean
 override val style: CSSStyleDeclaration
 override val children: HTMLCollection
 override val firstElementChild: Element
 override val lastElementChild: Element
 override val childElementCount: Int
 override val previousElementSibling: Element
 override val nextElementSibling: Element
 override val assignedSlot: HTMLSlotElement
 override fun prepend(vararg nodes: dynamic)
 override fun append(vararg nodes: dynamic)
 override fun querySelector(selectors: String): Element
 override fun querySelectorAll(selectors: String): NodeList
 override fun before(vararg nodes: dynamic)
 override fun after(vararg nodes: dynamic)
 override fun replaceWith(vararg nodes: dynamic)
 override fun remove()

 override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */) : Array<DOMQuad>
 override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */) : DOMQuad
 override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */) : DOMQuad
 override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */) : DOMPoint

 companion object {
     val ELEMENT_NODE: Short
     val ATTRIBUTE_NODE: Short
     val TEXT_NODE: Short
     val CDATA_SECTION_NODE: Short
     val ENTITY_REFERENCE_NODE: Short
     val ENTITY_NODE: Short
     val PROCESSING_INSTRUCTION_NODE: Short
     val COMMENT_NODE: Short
     val DOCUMENT_NODE: Short
     val DOCUMENT_TYPE_NODE: Short
     val DOCUMENT_FRAGMENT_NODE: Short
     val NOTATION_NODE: Short
     val DOCUMENT_POSITION_DISCONNECTED: Short
     val DOCUMENT_POSITION_PRECEDING: Short
     val DOCUMENT_POSITION_FOLLOWING: Short
     val DOCUMENT_POSITION_CONTAINS: Short
     val DOCUMENT_POSITION_CONTAINED_BY: Short
     val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }

 public external interface UnionElementOrHTMLCollection

 public external interface UnionElementOrRadioNodeList

 public external interface UnionHTMLOptGroupElementOrHTMLOptionElement

 public external interface MediaProvider

 public external interface UnionAudioTrackOrTextTrackOrVideoTrack

 public external interface UnionElementOrMouseEvent

 public external interface RenderingContext

 public external interface HTMLOrSVGImageElement : CanvasImageSource

 public external interface CanvasImageSource : ImageBitmapSource

 public external interface ImageBitmapSource

 public external interface UnionMessagePortOrWindowProxy

 public external interface HTMLOrSVGScriptElement

 /* please, don't implement this interface! */
 @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
 public external interface DocumentReadyState {
     companion object
 }


 /* please, don't implement this interface! */
 @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
 public external interface CanPlayTypeResult {
     companion object
 }

 public inline val CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() = "".asDynamic().unsafeCast<CanPlayTypeResult>()

 public inline val CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() = "maybe".asDynamic().unsafeCast<CanPlayTypeResult>()

 public inline val CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() = "probably".asDynamic().unsafeCast<CanPlayTypeResult>()

 /* please, don't implement this interface! */
 @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
 public external interface TextTrackMode {
     companion object
 }

 public inline val TextTrackMode.Companion.DISABLED: TextTrackMode get() = "disabled".asDynamic().unsafeCast<TextTrackMode>()

 public inline val TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
public inline val TextTrackMode.Companion.SHOWING: TextTrackMode get() = "showing".asDynamic().unsafeCast<TextTrackMode>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface TextTrackKind
{
    companion object
}

public inline val TextTrackKind.Companion.SUBTITLES: TextTrackKind get() = "subtitles".asDynamic().unsafeCast<TextTrackKind>()

public inline val TextTrackKind.Companion.CAPTIONS: TextTrackKind get() = "captions".asDynamic().unsafeCast<TextTrackKind>()

public inline val TextTrackKind.Companion.DESCRIPTIONS: TextTrackKind get() = "descriptions".asDynamic().unsafeCast<TextTrackKind>()

public inline val TextTrackKind.Companion.CHAPTERS: TextTrackKind get() = "chapters".asDynamic().unsafeCast<TextTrackKind>()

public inline val TextTrackKind.Companion.METADATA: TextTrackKind get() = "metadata".asDynamic().unsafeCast<TextTrackKind>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface SelectionMode
{
    companion object
}

public inline val SelectionMode.Companion.SELECT: SelectionMode get() = "select".asDynamic().unsafeCast<SelectionMode>()

public inline val SelectionMode.Companion.START: SelectionMode get() = "start".asDynamic().unsafeCast<SelectionMode>()

public inline val SelectionMode.Companion.END: SelectionMode get() = "end".asDynamic().unsafeCast<SelectionMode>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasFillRule
{
    companion object
}

public inline val CanvasFillRule.Companion.NONZERO: CanvasFillRule get() = "nonzero".asDynamic().unsafeCast<CanvasFillRule>()

public inline val CanvasFillRule.Companion.EVENODD: CanvasFillRule get() = "evenodd".asDynamic().unsafeCast<CanvasFillRule>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineCap
{
    companion object
}

public inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() = "butt".asDynamic().unsafeCast<CanvasLineCap>()

public inline val CanvasLineCap.Companion.ROUND: CanvasLineCap get() = "round".asDynamic().unsafeCast<CanvasLineCap>()

public inline val CanvasLineCap.Companion.SQUARE: CanvasLineCap get() = "square".asDynamic().unsafeCast<CanvasLineCap>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineJoin
{
    companion object
}

public inline val CanvasLineJoin.Companion.BEVEL: CanvasLineJoin get() = "bevel".asDynamic().unsafeCast<CanvasLineJoin>()

public inline val CanvasLineJoin.Companion.MITER: CanvasLineJoin get() = "miter".asDynamic().unsafeCast<CanvasLineJoin>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasTextAlign
{
    companion object
}

public inline val CanvasTextAlign.Companion.START: CanvasTextAlign get() = "start".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.END: CanvasTextAlign get() = "end".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.END: CanvasTextAlign get() = "end".asDynamic().unsafeCast<CanvasTextAlign>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ImageSmoothingQuality
{
    companion object
}


/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineCap
{
    companion object
}

public inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() = "butt".asDynamic().unsafeCast<CanvasLineCap>()

public inline val CanvasLineCap.Companion.ROUND: CanvasLineCap get() = "round".asDynamic().unsafeCast<CanvasLineCap>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineJoin
{
    companion object
}

private fun TextTrackKind.Companion.get() = "get".asDynamic().unsafeCast<TextTrackMode>()

private fun SelectionMode.Companion.get() = "get".asDynamic().unsafeCast<SelectionMode>()

private fun CanvasFillRule.Companion.get() = "get".asDynamic().unsafeCast<CanvasFillRule>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign.Companion.get() = "get".asDynamic().unsafeCast<CanvasTextAlign>()

private fun ImageSmoothingQuality.Companion.get() = "get".asDynamic().unsafeCast<ImageSmoothingQuality>()

private fun CanvasLineCap.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineCap>()

private fun CanvasLineJoin.Companion.get() = "get".asDynamic().unsafeCast<CanvasLineJoin>()

private fun CanvasTextAlign Companion.END:
public inline val ResizeQuality.Companion.LOW: ResizeQuality get() = "low".asDynamic().unsafeCast<ResizeQuality>()

public inline val ResizeQuality.Companion.MEDIUM: ResizeQuality get() = "medium".asDynamic().unsafeCast<ResizeQuality>()

public inline val ResizeQuality.Companion.HIGH: ResizeQuality get() = "high".asDynamic().unsafeCast<ResizeQuality>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface BinaryType {
    companion object
}

public inline val BinaryType.Companion.BLOB: BinaryType get() = "blob".asDynamic().unsafeCast<BinaryType>()

public inline val BinaryType.Companion.ARRAYBUFFER: BinaryType get() = "arraybuffer".asDynamic().unsafeCast<BinaryType>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface WorkerType {
    companion object
}

public inline val WorkerType.Companion.CLASSIC: WorkerType get() = "classic".asDynamic().unsafeCast<WorkerType>()

public inline val WorkerType.Companion.MODULE: WorkerType get() = "module".asDynamic().unsafeCast<WorkerType>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ShadowRootMode {
    companion object
}

public inline val ShadowRootMode.Companion.OPEN: ShadowRootMode get() = "open".asDynamic().unsafeCast<ShadowRootMode>()

public inline val ShadowRootMode.Companion.CLOSED: ShadowRootMode get() = "closed".asDynamic().unsafeCast<ShadowRootMode>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ScrollBehavior {
    companion object
}

public inline val ScrollBehavior.Companion.AUTO: ScrollBehavior get() = "auto".asDynamic().unsafeCast<ScrollBehavior>()

public inline val ScrollBehavior.Companion.INSTANT: ScrollBehavior get() = "instant".asDynamic().unsafeCast<ScrollBehavior>()

public inline val ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() = "smooth".asDynamic().unsafeCast<ScrollBehavior>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ScrollLogicalPosition {
    companion object
}


public inline val ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() = "center".asDynamic().unsafeCast<ScrollLogicalPosition>()

public inline val ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() = "end".asDynamic().unsafeCast<ScrollLogicalPosition>()

public inline val ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() = "nearest".asDynamic().unsafeCast<ScrollLogicalPosition>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CSSBoxType {
    companion object
}

public inline val CSSBoxType.Companion.MARGIN: CSSBoxType get() = "margin".asDynamic().unsafeCast<CSSBoxType>()

public inline val CSSBoxType.Companion.BORDER: CSSBoxType get() = "border".asDynamic().unsafeCast<CSSBoxType>()

public inline val CSSBoxType.Companion.PADDING: CSSBoxType get() = "padding".asDynamic().unsafeCast<CSSBoxType>()

public inline val CSSBoxType.Companion.CONTENT: CSSBoxType get() = "content".asDynamic().unsafeCast<CSSBoxType>()
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript [Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin
 */
public external open class Headers(init: dynamic = definedExternally) {
    fun append(name: String, value: String)
    fun delete(name: String)
    fun get(name: String): String?
    fun has(name: String): Boolean
    fun set(name: String, value: String)
}

/**
 * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to Kotlin
 */
public external interface Body {
    val bodyUsed: Boolean
    fun arrayBuffer(): Promise<ArrayBuffer>
    fun blob(): Promise<Blob>
    fun formData(): Promise<FormData>
    fun json(): Promise<Any?>
    fun text(): Promise<String>
}

/**
 * Exposes the JavaScript [Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin
 */
public external open class Request(input: dynamic, init: RequestInit = definedExternally) : Body {
    open val method: String
    open val url: String
    open val headers: Headers
    open val type: RequestType
    open val destination: RequestDestination
    open val referrer: String
    open val referrerPolicy: dynamic
    open val mode: RequestMode
    open val credentials: RequestCredentials
    open val cache: RequestCache
    open val redirect: RequestRedirect
    open val integrity: String
    open val keepalive: Boolean
    override val bodyUsed: Boolean
    fun clone(): Request
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): Promise<FormData>
    override fun json(): Promise<Any?>
    override fun text(): Promise<String>
}

public external interface RequestInit {
    var method: String?
    get() = definedExternally
    set(value) = definedExternally
    var headers: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var body: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var referrer: String?
    get() = definedExternally
    set(value) = definedExternally
    var referrerPolicy: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var mode: RequestMode?
    get() = definedExternally
    set(value) = definedExternally
    var credentials: RequestCredentials
    get() = definedExternally
    set(value) = definedExternally
    var cache: RequestCache
    get() = definedExternally
    set(value) = definedExternally
    var redirect: RequestRedirect?
    get() = definedExternally
    set(value) = definedExternally
    var integrity: String
    get() = definedExternally
    set(value) = definedExternally
    var keepalive: Boolean
    get() = definedExternally
    set(value) = definedExternally
    var window: Any?
    get() = definedExternally
    set(value) = definedExternally
    var @kotlin.internal.InlineOnly
    public inline fun RequestInit(method: String? = undefined,
                                  headers: dynamic = undefined,
                                  body: dynamic = undefined,
                                  referrer: String? = undefined,
                                  referrerPolicy: dynamic = undefined,
                                  mode: RequestMode? = undefined,
                                  credentials: RequestCredentials? = undefined,
                                  cache: RequestCache? = undefined,
                                  redirect: RequestRedirect? = undefined,
                                  integrity: String? = undefined,
                                  keepalive: Boolean? = undefined,
                                  window: Any? = undefined): RequestInit {
        val o = js("({})")
        o["method"] = method
        o["headers"] = headers
        o["body"] = body
        o["referrer"] = referrer
        o["referrerPolicy"] = referrerPolicy
        o["mode"] = mode
        o["credentials"] = credentials
        o["cache"] = cache
        o["redirect"] = redirect
        o["integrity"] = integrity
        o["keepalive"] = keepalive
        o["window"] = window
        return o
    }
}

/**
 * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin
 */
public external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {
    open val type: ResponseType
    open val url: String
    open val redirected: Boolean
    open val status: Short
    open val ok: Boolean
    open val statusText: String
    open val headers: Headers
    open val body: dynamic
    open val trailer: Promise<Headers>
    override val bodyUsed: Boolean
    fun clone(): Response
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): Promise<FormData>
    override fun json(): Promise<Any?>
    override fun text(): Promise<String>

    companion object {
        fun error(): Response
        fun redirect(url: String, status: Short = definedExternally): Response
    }
}

public external interface ResponseInit {
    var status: Short? /* = 200 */
    get() = definedExternally
    set(value) = definedExternally
    var statusText: String?
    get() = definedExternally
    set(value) = definedExternally
    var headers: dynamic
    get() = definedExternally
    set(value) = definedExternally
}
companion object
}

public inline val RequestMode.Companion.NAVIGATE: RequestMode get() = "navigate".asDynamic().unsafeCast<RequestMode>()

RequestMode.Companion.SAME_ORIGIN: RequestMode get() = "same-origin".asDynamic().unsafeCast<RequestMode>()

RequestMode.Companion.NO_CORS: RequestMode get() = "no-cors".asDynamic().unsafeCast<RequestMode>()

RequestMode.Companion.CORS: RequestMode get() = "cors".asDynamic().unsafeCast<RequestMode>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestCredentials {
    companion object
}

public inline val RequestCredentials.Companion.OMIT: RequestCredentials get() = "omit".asDynamic().unsafeCast<RequestCredentials>()

RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = "same-origin".asDynamic().unsafeCast<RequestCredentials>()

RequestCredentials.Companion.INCLUDE: RequestCredentials get() = "include".asDynamic().unsafeCast<RequestCredentials>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestCache {
    companion object
}

public inline val RequestCache.Companion.DEFAULT: RequestCache get() = "default".asDynamic().unsafeCast<RequestCache>()

RequestCache.Companion.NO_STORE: RequestCache get() = "no-store".asDynamic().unsafeCast<RequestCache>()

RequestCache.Companion.RELOAD: RequestCache get() = "reload".asDynamic().unsafeCast<RequestCache>()

RequestCache.Companion.NO_CACHE: RequestCache get() = "no-cache".asDynamic().unsafeCast<RequestCache>()

RequestCache.Companion.FORCE_CACHE: RequestCache get() = "force-cache".asDynamic().unsafeCast<RequestCache>()

RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = "only-if-cached".asDynamic().unsafeCast<RequestCache>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestRedirect {
    companion object
}

public inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() = "follow".asDynamic().unsafeCast<RequestRedirect>()

RequestRedirect.Companion.ERROR: RequestRedirect get() = "error".asDynamic().unsafeCast<RequestRedirect>()

RequestRedirect.Companion.MANUAL: RequestRedirect get() = "manual".asDynamic().unsafeCast<RequestRedirect>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ResponseType {
    companion object
}

public inline val ResponseType.Companion.BASIC: ResponseType get() = "basic".asDynamic().unsafeCast<ResponseType>()

ResponseType.Companion.CORS: ResponseType get() = "cors".asDynamic().unsafeCast<ResponseType>()

ResponseType.Companion.DEFAULT: ResponseType get() = "default".asDynamic().unsafeCast<ResponseType>()

ResponseType.Companion.ERROR: ResponseType get() = "error".asDynamic().unsafeCast<ResponseType>()

ResponseType.Companion.OPAQUE: ResponseType get() = "opaque".asDynamic().unsafeCast<ResponseType>()

ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() = "opaqueredirect".asDynamic().unsafeCast<ResponseType>()

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 Please DO NOT EDIT this file.

 See http://kotlin.com/dukat for details.

 See http://src/packages.org/w3c.dom.mediacapture

 See http://src/packages.org/kotlin.js

 See http://src/packages.org/w3c.css

 See http://src/packages.org/w3c.dom

 See http://src/packages.org/w3c.dom.clipboard

 See http://src/packages.org/w3c.dom.events

 See http://src/packages.org/w3c.dom.mediasource

 See http://src/packages.org/w3c.dom.parsing

 See https://github.com/kotlin/dukat

 See http://apache.org/licenses/LICENSE-2.0.html

 See http://src/packages.org/w3c.dom

 See http://src/packages.org/w3c.css

 See http://src/packages.org/w3c.dom
org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript [MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin
 */
public external open class MediaStream() : EventTarget, MediaProvider {
    constructor(stream: MediaStream)
    constructor(tracks: Array<MediaStreamTrack>)
    open val id: String
    open val active: Boolean
    var onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?
    var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?
    fun getAudioTracks(): Array<MediaStreamTrack>
    fun getVideoTracks(): Array<MediaStreamTrack>
    fun getTracks(): Array<MediaStreamTrack>
    fun getTrackById(trackId: String): MediaStreamTrack?
    fun addTrack(track: MediaStreamTrack)
    fun removeTrack(track: MediaStreamTrack)
    fun clone(): MediaStream
}

/**
 * Exposes the JavaScript [MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin
 */
public external abstract class MediaStreamTrack : EventTarget {
    open val kind: String
    open val id: String
    open val label: String
    open var enabled: Boolean
    open var muted: Boolean
    open var onmute: ((Event) -> dynamic)?
    open var onunmute: ((Event) -> dynamic)?
    open val readyState: MediaStreamTrackState
    open var onended: ((Event) -> dynamic)?
    open var onoverconstrained: ((Event) -> dynamic)?
    fun clone(): MediaStreamTrack
    fun stop(): MediaStreamTrack
    fun getCapabilities(): MediaTrackCapabilities
    fun getConstraints(): MediaTrackConstraints
    fun getSettings(): MediaTrackSettings
    fun applyConstraints(constraints: MediaTrackSupportedConstraints = definedExternally): Promise<Unit>
}

/**
 * Exposes the JavaScript [MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints) to Kotlin
 */
public external interface MediaTrackSupportedConstraints {
    var width: ULongRange?
    var height: ULongRange?
    var aspectRatio: Boolean?
    var frameRate: Boolean?
    var facingMode: Boolean?
    var resizeMode: Boolean?
    var volume: Boolean?
    var sampleRate: Boolean?
    var sampleSize: Boolean?
    var echoCancellation: Boolean?
    var autoGainControl: Boolean?
    var noiseSuppression: Boolean?
    var latency: Boolean?
    var channelCount: Boolean?
    var deviceId: Boolean?
    var groupId: Boolean?
}

@kotlin.internal.InlineOnly
}
get() = definedExternally
    set(value) = definedExternally
    var height: ULongRange?
    get() =
definedExternally
    set(value) = definedExternally
    var aspectRatio: DoubleRange?
    get() =
definedExternally
    set(value) = definedExternally
    var frameRate: DoubleRange?
    get() =
definedExternally
    set(value) = definedExternally
    var facingMode: Array<String>?
    get() =
definedExternally
    set(value) = definedExternally
    var resizeMode: Array<String>?
    get() =
definedExternally
    set(value) = definedExternally
    var volume: DoubleRange?
    get() =
definedExternally
    set(value) = definedExternally
    var sampleRate: ULongRange?
    get() =
definedExternally
    set(value) = definedExternally
    var sampleSize: ULongRange?
    get() =
definedExternally
    set(value) = definedExternally
    var echoCancellation: Array<Bool>?
    get() =
definedExternally
    set(value) = definedExternally
    var autoGainControl: Array<Bool>?
    get() =
definedExternally
    set(value) = definedExternally
    var noiseSuppression: Array<Bool>?
    get() =
definedExternally
    set(value) = definedExternally
    var latency: DoubleRange?
    get() =
definedExternally
    set(value) = definedExternally
    var channelCount: ULongRange?
    get() =
definedExternally
    set(value) = definedExternally
    var deviceId: String?
    get() = definedExternally
    set(value) = definedExternally

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

/**
 * Exposes the JavaScript [MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin
 */
public external interface MediaTrackConstraints : MediaTrackConstraintSet {
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

public external interface MediaTrackConstraintSet {
    var width: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var height: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var aspectRatio: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var frameRate: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var resizeMode: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var echoCancellation: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var autoGainControl: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var noiseSuppression: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var latency: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var channelCount: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var deviceId: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var groupId: dynamic
    get() = definedExternally
    set(value) = definedExternally
}
public interface MediaTrackSettings {
    var width: Int?
        get() = definedExternally
        set(value) = definedExternally
    var height: Int?
        get() = definedExternally
        set(value) = definedExternally
    var aspectRatio: Double?
        get() = definedExternally
        set(value) = definedExternally
    var frameRate: Double?
        get() = definedExternally
        set(value) = definedExternally
    var facingMode: String?
        get() = definedExternally
        set(value) = definedExternally
    var resizeMode: String?
        get() = definedExternally
        set(value) = definedExternally
    var volume: Double?
        get() = definedExternally
        set(value) = definedExternally
    var sampleRate: Int?
        get() = definedExternally
        set(value) = definedExternally
    var sampleSize: Int?
        get() = definedExternally
        set(value) = definedExternally
    var echoCancellation: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var autoGainControl: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var noiseSuppression: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var latency: Double?
        get() = definedExternally
        set(value) = definedExternally
    var channelCount: Int?
        get() = definedExternally
    var deviceId: String?
        get() = definedExternally
        set(value) = definedExternally
    var groupId: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

/**
 * Exposes the JavaScript [MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin */
public external interface MediaTrackSettings {
    var width: Int?
        get() = definedExternally
        set(value) = definedExternally
    var height: Int?
        get() = definedExternally
        set(value) = definedExternally
    var aspectRatio: Double?
        get() = definedExternally
        set(value) = definedExternally
    var frameRate: Double?
        get() = definedExternally
        set(value) = definedExternally
    var facingMode: String?
        get() = definedExternally
        set(value) = definedExternally
    var resizeMode: String?
        get() = definedExternally
        set(value) = definedExternally
    var volume: Double?
        get() = definedExternally
        set(value) = definedExternally
    var sampleRate: Int?
        get() = definedExternally
        set(value) = definedExternally
    var sampleSize: Int?
        get() = definedExternally
        set(value) = definedExternally
    var echoCancellation: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var autoGainControl: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var noiseSuppression: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var latency: Double?
        get() = definedExternally
        set(value) = definedExternally
    var channelCount: Int?
        get() = definedExternally
        set(value) = definedExternally
    var deviceId: String?
        get() = definedExternally
        set(value) = definedExternally
    var groupId: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}
null */

get() = definedExternally

set(value) = definedExternally

 ArgumentNullException

In kotlin

    val o = js("({})")
    o["error"] = error
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

}).then((result) => { return result }).catch((error) => { return error })

Promise<Array<MediaDeviceInfo>>

Promise<MediaStream>
ConstrainDoubleRange {
    val o = js("({})")
    o["exact"] = exact
    o["ideal"] = ideal
    o["max"] = max
    o["min"] = min
    return o
}

public external interface ULongRange {
    var max: Int?
        get() = definedExternally
        set(value) = definedExternally
    var min: Int?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ULongRange(max: Int? = undefined, min: Int? = undefined): ULongRange {
    val o = js("({})")
    o["max"] = max
    o["min"] = min
    return o
}

public external interface ConstrainULongRange : ULongRange {
    var exact: Int?
        get() = definedExternally
        set(value) = definedExternally
    var ideal: Int?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["exact"] = exact
    o["ideal"] = ideal
    o["max"] = max
    o["min"] = min
    return o
}

/**
 * Exposes the JavaScript [ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to Kotlin
 */
public external interface ConstrainBooleanParameters {
    var exact: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var ideal: Boolean?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["exact"] = exact
    o["ideal"] = ideal
    return o
}

/**
 * Exposes the JavaScript [ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters) to Kotlin
 */
public external interface ConstrainDOMStringParameters {
    var exact: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var ideal: dynamic
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {
    val o = js("({})")
    o["exact"] = exact
    o["ideal"] = ideal
    return o
}

public external interface Capabilities

@kotlin.internal.InlineOnly
public inline fun Capabilities(): Capabilities {
    val o = js("({})")
    return o
}

public external interface Settings

@kotlin.internal.InlineOnly
public inline fun Settings(): Settings {
    val o = js("({})")
    return o
}

public external interface ConstraintSet

@kotlin.internal.InlineOnly
public inline fun ConstraintSet(): ConstraintSet {
    val o = js("({})")
    return o
}

public external interface Constraints : ConstraintSet {
    var advanced: Array<ConstraintSet>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun Constraints(advanced: Array<ConstraintSet>? = undefined): Constraints {
    val o = js("({})")
    o["advanced"] = advanced
    return o
}

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaStreamTrackState {
    companion object
}

public inline val MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() = "live".asDynamic().unsafeCast<MediaStreamTrackState>()

public inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = "ended".asDynamic().unsafeCast<MediaStreamTrackState>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface VideoFacingModeEnum {
    companion object
}

public inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = "user".asDynamic().unsafeCast<VideoFacingModeEnum>()


public inline val VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() = "left".asDynamic().unsafeCast<VideoFacingModeEnum>()

public inline val VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() = "right".asDynamic().unsafeCast<VideoFacingModeEnum>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface VideoResizeModeEnum {
    companion object
}

public inline val VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() = "none".asDynamic().unsafeCast<VideoResizeModeEnum>()


/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaDeviceKind {
    companion object
}

public inline val MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() = "audioinput".asDynamic().unsafeCast<MediaDeviceKind>()

public inline val MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() = "audiooutput".asDynamic().unsafeCast<MediaDeviceKind>()

public inline val MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() = "videonput").asDynamic().unsafeCast<MediaDeviceKind>()

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// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT! // See github.com/kotlin/dukat for details //about org.w3c.dom.mediasource //See github.com/kotlin/dukat for details //about org.w3c.dom.mediasource

package org.w3c.dom.mediasource

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.encryptedmedia.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external open class MediaSource : EventTarget, MediaProvider {
    open val sourceBuffers: SourceBufferList
    open val activeSourceBuffers: SourceBufferList
    open val readyState: ReadyState
    var duration: Double
    var onsourceopen: ((Event) -> dynamic)?
    var onsourceended: ((Event) -> dynamic)?
    var onsourceclose: ((Event) -> dynamic)?
    fun addSourceBuffer(type: String): SourceBuffer
    fun removeSourceBuffer(sourceBuffer: SourceBuffer)
    fun endOfStream(error: EndOfStreamError = definedExternally)
    fun setLiveSeekableRange(start: Double, end: Double)
    fun clearLiveSeekableRange()

    companion object {
        fun isTypeSupported(type: String): Boolean
    }
}

public external abstract class SourceBuffer : EventTarget {
    open var mode: AppendMode
    open val updating: Boolean
    open val buffered: TimeRanges
    open var timestampOffset: Double
    open val audioTracks: AudioTrackList
    open val videoTracks: VideoTrackList
    open val textTracks: TextTrackList

    open var appendWindowStart: Double
    open var appendWindowEnd: Double
    open var onDeleteRange: (start: Double, end: Double) -> dynamic?
    open var onupdatestart: ((Event) -> dynamic)?
    open var onupdate: ((Event) -> dynamic)?
    open var onupdateend: ((Event) -> dynamic)?
    open var onerror: ((Event) -> dynamic)?
    open var onabort: ((Event) -> dynamic)?
    fun appendBuffer(data: dynamic)
    fun abort()
    fun remove(start: Double, end: Double)
}

public external abstract class SourceBufferList : EventTarget {
    open val length: Int
    open var onaddsourcebuffer: ((Event) -> dynamic)?
    open var onremovesourcebuffer: ((Event) -> dynamic)?
}

@kotlin.internal.InlineOnly
public inline operator fun SourceBufferList.get(index: Int): SourceBuffer? = asDynamic()[index]

public inline val SourceBufferList.Companion.FIRST: SourceBuffer get() = undefined

public inline val SourceBufferList.Companion.LAST: SourceBuffer get() = undefined

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ReadyState {
    companion object
}

public inline val ReadyState.Companion.CLOSED: ReadyState get() = "closed".asDynamic().unsafeCast<ReadyState>()

public inline val ReadyState.Companion.OPEN: ReadyState get() = "open".asDynamic().unsafeCast<ReadyState>()

public inline val ReadyState.Companion.ENDED: ReadyState get() = "ended".asDynamic().unsafeCast<ReadyState>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface EndOfStreamError {
    companion object
}


public inline val EndOfStreamError.Companion.DECODE: EndOfStreamError get() =
"decode".asDynamic().unsafeCast<EndOfStreamError>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface AppendMode {
    companion object
}

public inline val AppendMode.Companion.SEGMENTS: AppendMode get() = "segments".asDynamic().unsafeCast<AppendMode>()

public inline val AppendMode.Companion.SEQUENCE: AppendMode get() = "sequence".asDynamic().unsafeCast<AppendMode>()

/*
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 */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
// See github.com/kotlin/dukat for details

package org.w3c.dom.pointerevents

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.encryptedmedia.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external interface PointerEventInit : MouseEventInit {
    var pointerId: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var width: Double? /* = 1.0 */
        get() = definedExternally
        set(value) = definedExternally
    var height: Double? /* = 1.0 */
        get() = definedExternally
        set(value) = definedExternally
    var pressure: Float? /* = 0f */
        get() = definedExternally
        set(value) = definedExternally
    var tangentialPressure: Float? /* = 0f */
        get() = definedExternally
        set(value) = definedExternally
    var tiltX: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var tiltY: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var twist: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var pointerType: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var isPrimary: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
        .o["pointerId"] = pointerId
        .o["width"] = width
        .o["height"] = height
        .o["pressure"] = pressure
        .o["tangentialPressure"] = tangentialPressure
        .o["tiltX"] = tiltX
        .o["tiltY"] = tiltY
        .o["twist"] = twist
        .o["pointerType"] = pointerType
        .o["isPrimary"] = isPrimary
        .o["isTarget"] = isTarget
        .o["screenX"] = screenX
        .o["screenY"] = screenY
        .o["clientX"] = clientX
        .o["clientY"] = clientY
        .o["button"] = button
        .o["buttons"] = buttons
        .o["relatedTarget"] = relatedTarget
        .o["region"] = region
        .o["ctrlKey"] = ctrlKey
        .o["shiftKey"] = shiftKey
        .o["altKey"] = altKey
        .o["metaKey"] = metaKey
        .o["modifierAltGraph"] = modifierAltGraph
        .o["modifierCapsLock"] = modifierCapsLock
        .o["modifierFn"] = modifierFn
        .o["modifierFnLock"] = modifierFnLock
        .o["modifierHyper"] = modifierHyper
        .o["modifierNumLock"] = modifierNumLock
        .o["modifierScrollLock"] = modifierScrollLock
        .o["modifierSuper"] = modifierSuper
        .o["modifierSymbol"] = modifierSymbol
        .o["modifierSymbolLock"] = modifierSymbolLock
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["return"] = return
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed"] = composed
        .o["view"] = view
        .o["detail"] = detail
        .o["bubbles"] = bubbles
        .o["cancelable"] = cancelable
        .o["composed
class PointerEvent(https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin
*/
/* public external abstract class SVGGeometryElement : SVGGraphicsElement {
 open val pathLength: 
 SVGAnimatedNumber
 fun isPointInFill(point: DOMPoint): Boolean
 fun isPointInStroke(point: DOMPoint): Boolean
 fun getTotalLength(): Float
 fun getPointAtLength(distance: Float): DOMPoint
 companion object {
  val ELEMENT_NODE: Short
  val ATTRIBUTE_NODE: Short
  val TEXT_NODE: Short
  val CDATA_SECTION_NODE: Short
  val ENTITY_REFERENCE_NODE: Short
  val ENTITY_NODE: Short
  val PROCESSING_INSTRUCTION_NODE: Short
  val COMMENT_NODE: Short
  val DOCUMENT_NODE: Short
  val DOCUMENT_TYPE_NODE: Short
  val DOCUMENT_FRAGMENT_NODE: Short
  val NOTATION_NODE: Short
  val DOCUMENT_POSITION_DISCONNECTED: Short
  val DOCUMENT_POSITION_PRECEDING: Short
  val DOCUMENT_POSITION_FOLLOWING: Short
  val DOCUMENT_POSITION_CONTAINS: Short
  val DOCUMENT_POSITION_CONTAINED_BY: Short
  val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }
}

/**
 * Exposes the JavaScript [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin
 */
public external abstract class SVGNumber {
 open var value: Float
}

/**
 * Exposes the JavaScript [SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin
 */
public external abstract class SVGLength {
 open val unitType: Short
 open var value: Float
 open var valueInSpecifiedUnits: Float
 open var valueAsString: String
 fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)
 fun convertToSpecifiedUnits(unitType: Short)

 companion object {
  val SVG_LENGTHTYPE_UNKNOWN: Short
  val SVG_LENGTHTYPE_NUMBER: Short
  val SVG_LENGTHTYPE_PERCENTAGE: Short
  val SVG_LENGTHTYPE_EMS: Short
  val SVG_LENGTHTYPE_EXS: Short
  val SVG_LENGTHTYPE_PX: Short
  val SVG_LENGTHTYPE_CM: Short
  val SVG_LENGTHTYPE_MM: Short
  val SVG_LENGTHTYPE_IN: Short
  val SVG_LENGTHTYPE_PT: Short
  val SVG_LENGTHTYPE_PC: Short
 }
}

/**
 * Exposes the JavaScript [SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin
 */
public external abstract class SVGAngle {
 open val unitType: Short
 open var value: Float
 open var valueInSpecifiedUnits: Float
 open var valueAsString: String
 fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)
 fun convertToSpecifiedUnits(unitType: Short)

 companion object {
  val SVG_ANGLETYPE_UNKNOWN: Short
  val SVG_ANGLETYPE_UNSPECIFIED: Short
  val SVG_ANGLETYPE_DEG: Short
  val SVG_ANGLETYPE_RAD: Short
  val SVG_ANGLETYPE_GRAD: Short
 }
}

public external abstract class SVGNameList {
 open val length: Int
 open val numberOfItems: Int
 fun clear()
 fun initialize(newItem: dynamic): dynamic
 fun insertItemBefore(newItem: dynamic, index: Int): dynamic
 fun replaceItem(newItem: dynamic, index: Int): dynamic
 fun removeItem(index: Int): dynamic
 fun appendItem(newItem: dynamic): dynamic
 fun getItem(index: Int): dynamic
}

@kotlin.internal.InlineOnly
public inline operator fun SVGNameList.get(index: Int): dynamic = asDynamic()[index]
@kotlin.internal.InlineOnly
public inline operator fun SVGNameList.set(index: Int, newItem: dynamic) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin
 */
public external abstract class SVGNumberList {
 open val length: Int
 open val numberOfItems: Int
 fun clear()
 fun initialize(newItem: SVGNumber): SVGNumber
 fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber
 fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber
 fun removeItem(index: Int): SVGNumber
 fun appendItem(newItem: SVGNumber): SVGNumber
 fun getItem(index: Int): SVGNumber
}

@kotlin.internal.InlineOnly
public inline operator fun SVGNumberList.get(index: Int): SVGNumber? = asDynamic()[index]
@kotlin.internal.InlineOnly
public inline operator fun SVGNumberList.set(index: Int, newItem: SVGNumber) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin
 */
public external abstract class SVGLengthList {
 open val length: Int
 open val numberOfItems: Int
 fun clear()
 fun initialize(newItem: SVGLength): SVGLength
 fun insertItemBefore(newItem: SVGLengthList, index: Int): SVGLengthList
 fun replaceItem(newItem: SVGLengthList, index: Int): SVGLengthList
 fun removeItem(index: Int): SVGLengthList
 fun appendItem(newItem: SVGLengthList): SVGLengthList
 fun getItem(index: Int): SVGLengthList
}
SVGLength, index: Int): SVGLength
    fun replaceItem(newItem: SVGLength, index: Int): SVGLength
    fun removeItem(index: Int): SVGLength
    fun appendItem(newItem: SVGLength): SVGLength
    fun getItem(index: Int): SVGLength
}

@kotlin.internal.InlineOnly
public inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }

* Exposes the JavaScript

[SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin

* Exposes the JavaScript

[SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin

* Exposes the JavaScript

[SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin

* Exposes the JavaScript

[SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin

* Exposes the JavaScript

[SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin

* Exposes the JavaScript

[SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin

* Exposes the JavaScript

[SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin

* Exposes the JavaScript

[SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin

* Exposes the JavaScript

[SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin

* Exposes the JavaScript

[SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin

* Exposes the JavaScript

[SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin

* Exposes the JavaScript

[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin

* Exposes the JavaScript

```kotlin
fun initialize(newItem: String): String
fun insertItemBefore(newItem: String, index: Int): String
fun replaceItem(newItem: String, index: Int): String
fun removeItem(index: Int): String
fun appendItem(newItem: String): String
fun getItem(index: Int): String

@kotlin.internal.InlineOnly
public inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGStringList.set(index: Int, newItem: String) { asDynamic()[index] = newItem }

* Exposes the JavaScript

[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin

* Exposes the JavaScript
```

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**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9899**
**Exposes the JavaScript [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin */
public external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin
 */
public external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open val instanceRoot: SVGElement?
    open val animatedInstanceRoot: SVGElement?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external open class SVGUseElementShadowRoot : ShadowRoot {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external interface SVGElementInstance {
    val correspondingElement: SVGElement?
        get() = definedExternally
    val correspondingUseElement: SVGUseElement?
        get() = definedExternally
}

public external open class ShadowAnimation(source: dynamic, newTarget: dynamic) {
    open val sourceAnimation: dynamic
}

/**
 * Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement) to Kotlin */
public external abstract class SVGSwitchElement : SVGGraphicsElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
short
val DOCUMENT_NODE: short
val DOCUMENT_TYPE_NODE: short
val DOCUMENT_FRAGMENT_NODE: short
val NOTATION_NODE: short
val DOCUMENT_POSITION_DISCONNECTED: short
val DOCUMENT_POSITION_PRECEDING: short
val DOCUMENT_POSITION_FOLLOWING: short
val DOCUMENT_POSITION_CONTAINS: short
val DOCUMENT_POSITION_CONTAINED_BY: short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: short

public external interface GetSVGDocument {
    fun getSVGDocument(): Document
}

/**
 * Exposes the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin
 */
public external abstract class SVGStyleElement : SVGElement, LinkStyle {
    open var type: String
    open var media: String
    open var title: String

    companion object {
        val ELEMENT_NODE: short
        val ATTRIBUTE_NODE: short
        val TEXT_NODE: short
        val CDATA_SECTION_NODE: short
        val ENTITY_REFERENCE_NODE: short
        val ENTITY_NODE: short
        val PROCESSING_INSTRUCTION_NODE: short
        val COMMENT_NODE: short
        val DOCUMENT_NODE: short
        val DOCUMENT_TYPE_NODE: short
        val DOCUMENT_FRAGMENT_NODE: short
        val NOTATION_NODE: short
        val DOCUMENT_POSITION_DISCONNECTED: short
        val DOCUMENT_POSITION_PRECEDING: short
        val DOCUMENT_POSITION_FOLLOWING: short
        val DOCUMENT_POSITION_CONTAINS: short
        val DOCUMENT_POSITION_CONTAINED_BY: short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: short
    }
}

/**
 * Exposes the JavaScript [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin
 */
public external abstract class SVGTransform {
    open val type: Short
    open val matrix: DOMMatrix
    open val angle: Float
    fun setMatrix(matrix: DOMMatrixReadOnly)
    fun setTranslate(tx: Float, ty: Float)
    fun setScale(sx: Float, sy: Float)
    fun setRotate(angle: Float, cx: Float, cy: Float)
    fun setSkewX(angle: Float)
    fun setSkewY(angle: Float)

    companion object {
        val SVG_TRANSFORM_UNKNOWN: short
        val SVG_TRANSFORM_MATRIX: short
        val SVG_TRANSFORM_TRANSLATE: short
        val SVG_TRANSFORM_SCALE: short
        val SVG_TRANSFORM_ROTATE: short
        val SVG_TRANSFORM_SKEWX: short
        val SVG_TRANSFORM_SKEWY: short
    }
}

/**
 * Exposes the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin
 */
public external abstract class SVGTransformList {
    open val length: Int
    open val numberOfItems: Int

    fun clear()
    fun initialize(newItem: SVGTransform): SVGTransform
    fun insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform
    fun replaceItem(newItem: SVGTransform, index: Int): SVGTransform
    fun removeItem(index: Int): SVGTransform
    fun appendItem(newItem: SVGTransform): SVGTransform
    fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform
    fun consolidate(): SVGTransform?
    fun getItem(index: Int): SVGTransform
}

@kotlin.internal.InlineOnly
public inline operator fun SVGTransformList.get(index: Int): SVGTransform? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to Kotlin
 */
public external abstract class SVGAnimatedTransformList {
    open val baseVal: SVGTransformList
    open val animVal: SVGTransformList
}

/**
 * Exposes the JavaScript [SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin
 */
public external abstract class SVGPreserveAspectRatio {
    open var align: Short
    open var meetOrSlice: Short

    companion object {
        val SVG_PRESERVEASPECTRATIO_UNKNOWN: short
        val SVG_PRESERVEASPECTRATIO_NONE: short
        val SVG_PRESERVEASPECTRATIO_XMINYMIN: short
        val SVG_PRESERVEASPECTRATIO_XMIDYMIN: short
        val SVG_PRESERVEASPECTRATIO_XMAXYMIN: short
        val SVG_PRESERVEASPECTRATIO_XMINYMID: short
        val SVG_PRESERVEASPECTRATIO_XMAXYMID: short
    }
}
**Exposes the JavaScript [SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspectRatio) to Kotlin */

```kotlin
public external abstract class SVGAnimatedPreserveAspectRatio {
    open val baseVal: SVGPreserveAspectRatio
    open val animVal: SVGPreserveAspectRatio
}
```

**Exposes the JavaScript [SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin */

```kotlin
public external abstract class SVGPathElement : SVGGeometryElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

**Exposes the JavaScript [SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin */

```kotlin
public external abstract class SVGCircleElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val r: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

**Exposes the JavaScript [SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin */

```kotlin
public external abstract class SVGEllipseElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
```
open val cy: SVGAnimatedLength
open val rx: SVGAnimatedLength
open val ry: SVGAnimatedLength

companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin
 */
public external abstract class SVGLineElement : SVGGeometryElement {
    open val x1: SVGAnimatedLength
    open val y1: SVGAnimatedLength
    open val x2: SVGAnimatedLength
    open val y2: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin
 */
public external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin
 */
public external interface SVGAnimatedPoints {
    val points: SVGPointList
    val animatedPoints: SVGPointList
}

public external abstract class SVGPointList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: DOMPoint): DOMPoint
    fun insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint
    fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint
    fun removeItem(index: Int): DOMPoint
    fun appendItem(newItem: DOMPoint): DOMPoint
    fun getItem(index: Int): DOMPoint
}

@kotlin.internal.InlineOnly
public inline operator fun SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin
 */
public external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
/**
 * Exposes the JavaScript [SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin
 */

```kotlin
public external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin
 */

```kotlin
public external abstract class SVGTextContentElement : SVGGraphicsElement {

    open val textLength: SVGAnimatedLength
    open val lengthAdjust: SVGAnimatedEnumeration
    fun getNumberOfChars(): Int
    fun getComputedTextLength(): Float
    fun getSubStringLength(charnum: Int, nchars: Int): Float
    fun getStartPositionOfChar(charnum: Int): DOMPoint
    fun getEndPositionOfChar(charnum: Int): DOMPoint
    fun getExtentOfChar(charnum: Int): DOMRect
    fun getRotationOfChar(charnum: Int): Float
    fun getCharNumAtPosition(point: DOMPoint): Int
    fun selectSubString(charnum: Int, nchars: Int)

    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGTextPositioningElement) to Kotlin
 */

```kotlin
public external abstract class SVGTextPositioningElement : SVGTextContentElement {

    open val x: SVGAnimatedLengthList
    open val y: SVGAnimatedLengthList
    open val dx: SVGAnimatedLengthList
    open val dy: SVGAnimatedLengthList
    open val rotate: SVGAnimatedNumberList

    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
```
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin
 */
public external abstract class SVGTextElement : SVGTextPositioningElement {
    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin
 */
public external abstract class SVGTSpanElement : SVGTextPositioningElement {
    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin
 */
public external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {
    open val startOffset: SVGAnimatedLength
    open val method: SVGAnimatedEnumeration
    open val spacing: SVGAnimatedEnumeration

    companion object {
        val TEXTPATH_METHODTYPE_UNKNOWN: Short
        val TEXTPATH_METHODTYPE_ALIGN: Short
        val TEXTPATH_METHODTYPE_STRETCH: Short
        val TEXTPATH_SPACINGTYPE_UNKNOWN: Short
        val TEXTPATH_SPACINGTYPE_AUTO: Short
        val TEXTPATH_SPACINGTYPE_EXACT: Short
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin
 */
public external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference,
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

 val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin
 */
public
external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {
    open var type: String
    open var crossOrigin: String?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin
 */
public external abstract class SVGAElement : SVGGraphicsElement, SVGURIReference {
    open val target: SVGAnimatedString
    open val download: SVGAnimatedString
    open val rel: SVGAnimatedString
    open val relList: SVGAnimatedString
    open val hreflang: SVGAnimatedString
    open val type: SVGAnimatedString

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin
 */
public external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {
    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/*
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 * JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 * NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT! See github.com/kotlin/dukat for details
 * npackage org.w3c.files
 * nimport kotlin.js.*nimport org.khronos.webgl.*nimport org.w3c.css.masking.*nimport org.w3c.dom.*nimport org.w3c.dom.clipboard.*nimport org.w3c.dom.css.*nimport org.w3c.dom.encryptedmedia.*nimport
/**
 * Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin
 */
public external open class Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) :
    MediaProvider, ImageBitmapSource {
    open val size: Number
    open val type: String
    open val isClosed: Boolean
    fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String = definedExternally): Blob
    fun close()
}

public external interface BlobPropertyBag {
    var type: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun BlobPropertyBag(type: String? = ": BlobPropertyBag {
    val o = js("({})")
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin
 */
public external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {
    open val name: String
    open val lastModified: Int
}

public external interface FilePropertyBag : BlobPropertyBag {
    var lastModified: Int?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun FilePropertyBag(lastModified: Int? = undefined, type: String? = ": FilePropertyBag {
    val o = js("({})")
    o["lastModified"] = lastModified
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript [FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin
 */
public external open class FileReader : EventTarget {
    open val readyState: Short
    open val result: dynamic
    open val error: dynamic
    var onloadstart: ((ProgressEvent) -> dynamic)?
    var onprogress: ((ProgressEvent) -> dynamic)?
    var onload: ((Event) -> dynamic)?
    var onabort: ((Event) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    var onloadend: ((Event) -> dynamic)?
    fun readAsArrayBuffer(blob: Blob)
    fun readAsBinaryString(blob: Blob)
    fun readAsText(blob: Blob, label: String = definedExternally)
    fun readAsDataURL(blob: Blob)
    fun abort()

    companion object {
        val EMPTY: Short
        val LOADING: Short
        val DONE:
    }
}

/**
 * Exposes the JavaScript [FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin
 */
public external open class FileReaderSync {
    fun readAsArrayBuffer(blob: Blob): ArrayBuffer
    fun readAsBinaryString(blob: Blob): String
    fun readAsText(blob: Blob, label: String = definedExternally): String
    fun readAsDataURL(blob: Blob): String
}

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
// See https://github.com/kotlin/dukat for details

package org.w3c.notifications

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.core.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript [Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin
 */
public external open class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {
    var onclick: ((MouseEvent) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    open val title: String
    open val dir: NotificationDirection
    open val lang: String
    open val open: Boolean
    open val tag: String
    open val image: String
    open val badge: String
    open val sound: String
    open val vibrate:


  val o = js("({})")
  o["notification"] = notification
  o["action"] = action
  o["bubbles"] = bubbles
  o["cancelable"] = cancelable
  o["composed"] = composed
  return o
}

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface NotificationPermission {
    companion object
}

public inline val NotificationPermission.Companion.DEFAULT: NotificationPermission get() = "default".asDynamic().unsafeCast<NotificationPermission>()

public inline val NotificationPermission.Companion.DENIED: NotificationPermission get() = "denied".asDynamic().unsafeCast<NotificationPermission>()

public inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() = "granted".asDynamic().unsafeCast<NotificationPermission>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface NotificationDirection {
    companion object
}

public inline val NotificationDirection.Companion.AUTO: NotificationDirection get() = "auto".asDynamic().unsafeCast<NotificationDirection>()

public inline val NotificationDirection.Companion.LTR: NotificationDirection get() = "ltr".asDynamic().unsafeCast<NotificationDirection>()

public inline val NotificationDirection.Companion.RTL: NotificationDirection get() = "rtl".asDynamic().unsafeCast<NotificationDirection>()

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.*/

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
// See github.com/kotlin/dukat for details
package org.w3c.workers

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.encryptedmedia.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript [Service Worker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin
 */
public external abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {
    open val scriptURL: String
    open val state: ServiceWorkerState
    open var onstatechange: ((Event) -> dynamic)?
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
}

/**
 * Exposes the JavaScript [Service Worker Registration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to Kotlin
 */
public external abstract class ServiceWorkerRegistration : EventTarget {
    open val installing: ServiceWorker?
    open val waiting: ServiceWorker?
    open val active: ServiceWorker?
    open val scope: String
    open var onupdatefound: ((Event) -> dynamic)?
    open val APISpace: dynamic
    fun update(): Promise<Unit>
    fun unregister(): Promise<Boolean>
    fun showNotification(title: String, options: NotificationOptions = definedExternally): Promise<Unit>
    fun getNotifications(filter: GetNotificationOptions = definedExternally): Promise<Array<Notification>>
    fun methodName(): Promise<dynamic>
}

/**
 * Exposes the JavaScript [Service Worker Container](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin
 */
public external abstract class ServiceWorkerContainer : EventTarget {
    open val controller: ServiceWorker?
    open val ready: Promise<ServiceWorkerRegistration>
    open var oncontrollerchange: ((Event) -> dynamic)?
    fun register(scriptURL: String, options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>
    fun getRegistration(clientURL: String = definedExternally): Promise<Any?>
    fun getRegistrations(): Promise<Array<ServiceWorkerRegistration>>
    fun startMessages()
}

public external interface
RegistrationOptions { in var scope: String? in get() = definedExternally
    set(value) = definedExternally
    var type: WorkerType? /* = WorkerType.CLASSIC */
    in get() = definedExternally
    set(value) = definedExternally
}

var type: WorkerType? /* = WorkerType.CLASSIC */
    RegistrationOptions { in val o = js("{"\"type\"":\"}\")
    o[\"\"scope\"] = scope
    o[\"\"type\"] = type
    return o
}

* Exposes the JavaScript

[ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to Kotlin

public inline fun ServiceWorkerMessageEvent(scope: String? = undefined, type: WorkerType? = WorkerType.CLASSIC): ServiceWorkerMessageEventInit { in open val data: Any? in open val origin: String?
    in
    in

callback: (Event) -> dynamic}? in open var onactivate: ((Event) -> dynamic)? in open var onfetch: ((FetchEvent) -> dynamic)? in open var onforeignfetch: ((Event) -> dynamic)? in open var onmessage: ((MessageEvent) -> dynamic)? in open var onnotificationclick: ((NotificationEvent) -> dynamic)? in open var onnotificationclose: ((NotificationEvent) -> dynamic)? in open var onfunctionalevent: ((Event) -> dynamic)? in fun skipWaiting():

Promise<Unit> in

* Exposes the JavaScript

[ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to Kotlin

in

public external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope

in

open val clients: Clients
in

open val registration: ServiceWorkerRegistration
in

open var oninstall: ((Event) -> dynamic)?

open var onactivate: ((Event) -> dynamic)?

open var onfetch: ((FetchEvent) -> dynamic)?

open var onforeignfetch: ((Event) -> dynamic)?

open var onmessage: ((MessageEvent) -> dynamic)?

fun skipWaiting(): Promise<Unit>

* Exposes the JavaScript

[Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin

in

in

public external abstract class Client: UnionClientOrMessagePortOrServiceWorker

in

in

fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)

* Exposes the JavaScript

[WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to Kotlin

in

in

in

* Exposes the JavaScript

[Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin

in

in

fun claim(): Promise<Unit> in

callback: (Event) -> dynamic)? in open val visibilityState: dynamic

* Exposes the JavaScript

[ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin

/*\n */

public external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit =
definedExternally) : Event {

  fun waitFor(f: Promise<?>)

  companion object {
    val NONE:
    val CAPTURING_PHASE:
    val AT_TARGET:
    val BUBBLING_PHASE:
  }
}

public external interface ExtendableEventInit : EventInit

@kotlin.internal.InlineOnly

  val o = js("{}")
  o["bubbles"] = bubbles
  o["cancelable"] = cancelable
  o["composed"] = composed
  return o
}

@kotlin.internal.InlineOnly
public inline fun ExtendableEventInit(setValue: Any?, get() =
definedExternally, var origins: Array<String?>) {

  val o = js("{}")
  o["setValue"] = setValue
  o["get"] = get

  return o
}

/**
 * Exposes the JavaScript

[InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin

*/
public external open class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {

  fun registerForeignFetch(options: ForeignFetchOptions)

  companion object {
    val NONE:
    val CAPTURING_PHASE:
    val AT_TARGET:
    val BUBBLING_PHASE:
  }
}

public external interface ForeignFetchOptions {

  var scopes: Array<String>?
  var origins: Array<String>?

  @kotlin.internal.InlineOnly
  public inline fun ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?) {

    val o = js("{}")
    o["scopes"] = scopes
    o["origins"] = origins
    return o
  }

  val o = js("{}")
  o["requests"] = request
  o["clientId"] = clientId
  o["isReload"] = isReload
  o["bubbles"] = bubbles
  o["cancelable"] = cancelable
  o["composed"] = composed
  return o
}

/**
 * Exposes the JavaScript

[FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin

*/
public external open class FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {

  open val request: Request
  open val clientId: String?
  open val isReload: Boolean

  fun respondWith(r: Promise<Response>)

  companion object {
    val NONE:
    val CAPTURING_PHASE:
    val AT_TARGET:
    val BUBBLING_PHASE:
  }
}

public external interface FetchEventInit : ExtendableEventInit {

  var request: Request?
  var clientId: String? /* = null */
  var isReload: Boolean? /* = false */

  @kotlin.internal.InlineOnly

    val o = js("{}")
    o["request"] = request
    o["clientId"] = clientId
    o["isReload"] = isReload
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
  }

  val o = js("{}")
  o["requests"] = request
  o["origin"] = origin
  o["headers"] = headers
  return o
}

@kotlin.internal.InlineOnly
public inline fun FetchEventInit(setValue: Any?, get() =
definedExternally, var headers: Array<String?>) {

  val o = js("{}")
  o["setValue"] = setValue
  o["get"] = get

  return o
}

/**
 * Exposes the JavaScript

[ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin

*/
public external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit =
definedExternally) : ExtendableEvent {

  fun open val data: Any?
  fun open val origin: String?
  fun open lastEventId:
String
    open val source: UnionClientOrMessagePortOrServiceWorker?
    open val ports: Array<out MessagePort>?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

public external interface ExtendableMessageEventInit : ExtendableEventInit {
    var data: Any?
        get() = definedExternally
        set(value) = definedExternally
    var origin: String?
        get() = definedExternally
        set(value) = definedExternally
    var lastEventId: String?
        get() = definedExternally
        set(value) = definedExternally
    var source: UnionClientOrMessagePortOrServiceWorker?
        get() = definedExternally
        set(value) = definedExternally
    var ports: Array<MessagePort>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["data"] = data
    o["origin"] = origin
    o["lastEventId"] = lastEventId
    o["source"] = source
    o["ports"] = ports
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript
 [Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin
 */
public external abstract class Cache {
    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>
    fun matchAll(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Array<Response>>
    fun add(request: dynamic): Promise<Unit>
    fun addAll(requests: Array<dynamic>): Promise<Unit>
    fun put(request: dynamic, response: Response): Promise<Unit>
    fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>
    fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Request>>
}

public external interface CacheQueryOptions {
    var ignoreSearch: Boolean? = false
    var ignoreMethod: Boolean? = false
    var ignoreVary: Boolean? = false
    var cacheName: String?
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["ignoreSearch"] = ignoreSearch
    o["ignoreMethod"] = ignoreMethod
    o["ignoreVary"] = ignoreVary
    o["cacheName"] = cacheName
    return o
}

public external interface CacheBatchOperation {
    var type: String?
    var request: Request?
    var response: Response?
    var options: CacheQueryOptions?
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["type"] = type
    o["request"] = request
    o["response"] = response
    o["options"] = options
    return o
}

/**
 * Exposes the JavaScript
 [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin
 */
public external abstract class CacheStorage {
    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>
    fun has(cacheName: String): Promise<Boolean>
    fun open(cacheName: String): Promise<Cache>
    fun delete(cacheName: String): Promise<Boolean>
    fun keys(): Promise<Array<String>>
}

public inline val ServiceWorkerState.Companion.INSTALLING:
ServiceWorkerState get() = "installing".asDynamic().unsafeCast<ServiceWorkerState>().unpublic inline val ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() = "installed".asDynamic().unsafeCast<ServiceWorkerState>().unpublic inline val ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() = "activating".asDynamic().unsafeCast<ServiceWorkerState>().unpublic inline val ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() = "activated".asDynamic().unsafeCast<ServiceWorkerState>().unpublic inline val ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() = "redundant".asDynamic().unsafeCast<ServiceWorkerState>().unpublic inline val ServiceWorkerState.Companion.AUXILIARY: FrameType get() = "auxiliary".asDynamic().unsafeCast<FrameType>().unpublic inline val ServiceWorkerState.Companion.TOP_LEVEL: FrameType get() = "top-level".asDynamic().unsafeCast<FrameType>().unpublic inline val ServiceWorkerState.Companion.NESTED: FrameType get() = "nested".asDynamic().unsafeCast<FrameType>().unpublic inline val ServiceWorkerState.Companion.NONE: FrameType get() = "none".asDynamic().unsafeCast<FrameType>().unpublic inline val FrameType.Companion.AUXILIARY: FrameType get() = "auxiliary".asDynamic().unsafeCast<FrameType>().unpublic inline val FrameType.Companion.TOP_LEVEL: FrameType get() = "top-level".asDynamic().unsafeCast<FrameType>().unpublic inline val FrameType.Companion.NESTED: FrameType get() = "nested".asDynamic().unsafeCast<FrameType>().unpublic inline val FrameType.Companion.NONE: FrameType get() = "none".asDynamic().unsafeCast<FrameType>().unpublic inline val ClientType.Companion.WINDOW: ClientType get() = "window".asDynamic().unsafeCast<ClientType>().unpublic inline val ClientType.Companion.WORKER: ClientType get() = "worker".asDynamic().unsafeCast<ClientType>().unpublic inline val ClientType.Companion.SHAREDWORKER: ClientType get() = "sharedworker".asDynamic().unsafeCast<ClientType>().unpublic inline val ClientType.Companion.ALL: ClientType get() = "all".asDynamic().unsafeCast<ClientType>().unpublic inline val FrameType.Companion.AUXILIARY: FrameType get() = "auxiliary".asDynamic().unsafeCast<FrameType>().unpublic inline val FrameType.Companion.TOP_LEVEL: FrameType get() = "top-level".asDynamic().unsafeCast<FrameType>().unpublic inline val FrameType.Companion.NESTED: FrameType get() = "nested".asDynamic().unsafeCast<FrameType>().unpublic inline val FrameType.Companion.NONE: FrameType get() = "none".asDynamic().unsafeCast<FrameType>().unpublic inline val ClientType.Companion.WINDOW: ClientType get() = "window".asDynamic().unsafeCast<ClientType>().unpublic inline val ClientType.Companion.WORKER: ClientType get() = "worker".asDynamic().unsafeCast<ClientType>().unpublic inline val ClientType.Companion.SHAREDWORKER: ClientType get() = "sharedworker".asDynamic().unsafeCast<ClientType>().unpublic inline val ClientType.Companion.ALL: ClientType get() = 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UNSENT: Short\n  val OPENED: Short\n  val HEADERS_RECEIVED: Short\n  val LOADING:
Short\n  val DONE: Short\n]

UNSENT: Short
        val OPENED: Short
        val HEADERS_RECEIVED: Short
        val LOADING:
        Short
    }
}

/**
 * Exposes the JavaScript
[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin
 */
public external open class

FormData(form: HTMLFormElement = definedExternally) {
    fun append(name: String, value: String)
    fun append(name: String, value: Blob, filename: String = definedExternally)
    fun delete(name: String)
    fun get(name: String): dynamic
    fun getAll(name: String): Array<dynamic>
    fun has(name: String): Boolean
    fun set(name: String, value: String)
    fun set(name: String, value: Blob, filename: String = definedExternally)
}

/**
 * Exposes the JavaScript
[ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin
 */
public external open
class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {
    open val lengthComputable: Boolean
    open val loaded: Number
    open val total: Number

    companion object {

    val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ProgressEventInit : EventInit {
    var lengthComputable: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var loaded: Number? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var total:
        Number? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ProgressEventInit(lengthComputable:
        Boolean? = false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
        false, composed: Boolean? = false): ProgressEventInit {
    val o = js("({})")
    o["lengthComputable"] = lengthComputable
    o["loaded"] = loaded
    o["total"] = total
    o["bubbles"] = bubbles
    o["Cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/* please, don't implement this
interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface

XMLHttpRequestResponseType {
    companion object
}

public inline val
    XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() = "".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val
    XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() = "arraybuffer".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val
    XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() = "blob".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val
    XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() = "document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val
    XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() = "json".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val
    XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() = "text".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

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that can be found in the license/LICENSE.txt file. */

package kotlin

import
    kotlin.annotation.AnnotationRetention.BINARY
import kotlin.annotation.AnnotationRetention.SOURCE
import
    kotlin.reflect.KClass

/**
 * Signals that the annotated
annotation class is a marker of an experimental API.
 *
 * Any declaration annotated with that marker is
considered an experimental declaration
 * and its call sites should accept the experimental aspect of it either by
using [UseExperimental],
 * or by being annotated with that marker themselves, effectively causing further
propagation of that experimental aspect.

 * This class is deprecated in favor of a more general approach
provided by [RequiresOptIn]/[OptIn].
 */

*An@Target(ANNOTATION_CLASS)@Retention(BINARY)@SinceKotlin("1.2")@RequireKotlin("1.2.50"
*, versionKind = RequireKotlinVersionKind.COMPILE VERSION)@Deprecated("Please use RequiresOptIn
instead.")*/

diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental aspect
 * of that API either by using [UseExperimental] or by being annotated with the corresponding marker annotation.
 */
    public enum class Level {
        /** Specifies that a warning should be reported on incorrect usages of this experimental API. */
        WARNING,
        /** Specifies that an error should be reported on incorrect usages of this experimental API. */
        ERROR,
    }
}

/**
 * Allows to use experimental API denoted by the given markers in the annotated file, declaration, or expression.
 * If a declaration is annotated with [UseExperimental], its usages are required to opt-in to that experimental API.
 * This class is deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].
 */
@Target(
    CLASS,
    PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,
    PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
    TYPEALIAS)
@Retention(SOURCE)
@RequireKotlin("1.2.50", versionKind = RequiresOptIn.VersionKind.COMPIILER_VERSION)
@Deprecated("Please use OptIn instead.", ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn"))
public annotation class UseExperimental(
    vararg val markerClass: KClass<out Annotation>
)

@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
    PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
    TYPEALIAS)
@Retention(BINARY)
internal annotation class WasExperimental(
    vararg val markerClass:
    KClass<out Annotation>
)

/**
 * This annotation marks the standard library API that is considered experimental and is not subject to the
 * [general compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the
 * standard library.
 * The behavior of such API may be changed or the API may be removed completely in any
 * future release.
 * * `*"Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.
 * * `*" Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 9921
```kotlin
* @OverloadResolutionByLambdaReturnType
* fun create(intProducer: () -> Int): Int
*
* fun create(doubleProducer: () -> Double): Double
*
* val newValue = create { 3.14 }
* ```
*
* The annotation being applied to one of overloads allows to resolve this ambiguity by analyzing what value is returned from the lambda function.
* This annotation is also used to discriminate the annotated overloads in case if overload selection still cannot choose one of them even taking in account the result of lambda parameter analysis. In that case a warning is reported.
* Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.
*
* @Target(FUNCTION) @Retention(AnnotationRetention.SOURCE) @SinceKotlin("1.1.4") @Experimental TypeInference
*public annotation class OverloadResolutionByLambdaReturnType, /* */

The experimental multiplatform support API marker.
Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by
annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)`,
or by using the compiler argument `-X-opt-in=kotlin.ExperimentalMultiplatform`.

Optional expected class is allowed to have no corresponding actual class on the platform. Optional
annotations can only be used to annotate something, not as types in signatures. If an optional annotation has no
corresponding actual class on a platform, then the annotation entries where it’s used are simply erased when
compiling code on that platform.

Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in.

The experimental multiplatform support API marker.
Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by
annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)`,
or by using the compiler argument `-X-opt-in=kotlin.ExperimentalMultiplatform`.

Optional expected class is allowed to have no corresponding actual class on the platform. Optional
annotations can only be used to annotate something, not as types in signatures. If an optional annotation has no
corresponding actual class on a platform, then the annotation entries where it’s used are simply erased when
compiling code on that platform.

Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in.

The experimental multiplatform support API marker.
Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by
annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)`,
or by using the compiler argument `-X-opt-in=kotlin.ExperimentalMultiplatform`.

Optional expected class is allowed to have no corresponding actual class on the platform. Optional
annotations can only be used to annotate something, not as types in signatures. If an optional annotation has no
corresponding actual class on a platform, then the annotation entries where it’s used are simply erased when
compiling code on that platform.

Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in.
should be reported on usages which did not explicitly opted into the API either by using [OptIn] or by being annotated with the corresponding marker annotation. **Specifies that a warning should be reported on incorrect usages of this API. **Specifies that an error should be reported on incorrect usages of this API. Allows to use the API denoted by the given markers in the annotated file, declaration, or expression. If a declaration is annotated with [OptIn], its usages are required to opt in to that API. This class requires opt-in itself and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`. Provides a skeletal implementation of the read-only [Collection] interface.

```
public enum class Level {
    WARNING,
    ERROR,
}
```

```
/**
 * Allows to use the API denoted by the given markers in the annotated file, declaration, or expression.
 * If a declaration is annotated with [OptIn], its usages are required to opt in to that API. This class requires opt-in itself and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.
 */
@Target(
    CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
)
@Retention(SOURCE)
@RequireKotlin("1.3.70", versionKind = RequireKotlinVersionKind.COMPILE_LEGACY)
public annotation class OptIn(
    vararg val markerClass:
```

```
/**
 * Provides a skeletal implementation of the read-only [Collection] interface.
 *
 * @param E the type of elements contained in the collection.
 * The collection is covariant in its element type.
 */
@SinceKotlin("1.1")
public abstract class
```

```
/**
 * Provides a skeletal implementation of the read-only [List] interface.
 *
 * This class is intended to help implementing read-only lists so it doesn't support concurrent modification tracking.
 */
@SinceKotlin("1.1")
public abstract class
```

```
/*
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 * contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.collections

import kotlin.js.JsName

/**
 * Provides a skeletal implementation of the read-only [List] interface.
 *
 * @param E the type of elements contained in the list.
 */
@SinceKotlin("1.1")
public abstract class
```

```
/*
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 */

/*
 * Based on GWT AbstractList
 * Copyright 2007 Google Inc.
*/

package kotlin.collections

/**
 * Provides a skeletal implementation of the read-only [List] interface.
 *
 * This class is intended to help implementing read-only lists so it doesn't support concurrent modification tracking.
 */
@SinceKotlin("1.1")
public abstract class
```

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/*
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 */
package kotlin.collections

import kotlin.js.JsName

/**
 * Provides a skeletal implementation of the read-only [List] interface.
 *
 * This class is intended to help implementing read-only lists so it doesn't support concurrent modification tracking.
 */
@SinceKotlin("1.1")
public abstract class
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 */
package kotlin.collections

import kotlin.js.JsName

/**
 * Provides a skeletal implementation of the read-only [List] interface.
 *
 * This class is intended to help implementing read-only lists so it doesn't support concurrent modification tracking.
 */
@SinceKotlin("1.1")
public abstract class
```
The list is covariant in its element type.

```kotlin
override fun containsKey(key: K): Boolean {
    return implFindEntry(key) != null
}

override
*/
@SinceKotlin("1.1")
public abstract class AbstractMap<K, out V> protected constructor() : AbstractCollection<E>(), List<E> {
    @UnsafeVariance
    fun get(index: Int): E
        override fun iterator(): Iterator<E> = IteratorImpl()

    override fun listIterator(): ListIterator<E> = ListIteratorImpl()

    private class SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex: Int) {
        override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)

    private class
```
value for this set.

override fun hashCode(): Int = unorderedHashCode(this)
internal companion object {
    internal fun unorderedHashCode(c: Collection<*>): Int {
        var hashCode = 0
        for (element in c) {
            hashCode += (element?.hashCode() ?: 0)
        }
        return hashCode
    }

    internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {
        if (c.size != other.size) return false
        return c.containsAll(other)
    }

} /*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

package kotlin.collections

/**
 * Resizable-array implementation of the deque data structure.
 *
 * The name deque is short for "double ended queue" and is usually pronounced "deck".
 * The collection provides methods for convenient access to the both ends.
 * It also implements [MutableList] interface and supports efficient set/get operations by index.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public class ArrayDeque<E> : AbstractMutableList<E> {
    private var head: Int = 0
    private var elementData: Array<Any?>

    override var size: Int = 0
        private set

    /**
     * Constructs an empty deque with specified [initialCapacity], or throws [IllegalArgumentException] if [initialCapacity] is negative.
     */
    public constructor(initialCapacity: Int) {
        elementData = when {
            initialCapacity == 0 -> emptyElementData
            initialCapacity > 0 - > arrayOfNulls(initialCapacity)
            else -> throw IllegalArgumentException("Illegal Capacity: $initialCapacity")
        }
    }

    /**
     * Constructs an empty deque.
     */
    public constructor() {
        elementData = emptyElementData
    }

    /**
     * Constructs a deque that contains the same elements as the specified [elements] collection in the same order.
     */
    public constructor(elements: Collection<E>) {
        elementData = elements.toTypedArray()
        size = elementData.size
        if (elementData.isEmpty())
            elementData = emptyElementData
    }

    /**
     * Ensures that the capacity of this deque is at least equal to the specified [minCapacity].
     * If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.
     * Otherwise, this method takes no action and simply returns.
     */
    private fun ensureCapacity(minCapacity: Int) {
        if (minCapacity < 0) throw IllegalStateException("Deque is too big.")
        if (minCapacity <= elementData.size) return
        if (elementData === emptyElementData) {
            elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))
            return
        }

        val newCapacity = newCapacity(elementData.size, minCapacity)
        copyElements(newCapacity)
    }

    /**
     * Creates a new array with the specified [newCapacity] size and copies elements in the [elementData] array to it.
     */
    private fun copyElements(newCapacity: Int) {
        val newElements = arrayOfNulls<Any?>(newCapacity)
        elementData.copyInto(newElements, 0, head,
        elementData.size)
        elementData.copyInto(newElements, elementData.size - head, 0, head)
        head = 0
        elementData = newElements
    }

    @kotlin.internal.InlineOnly
    private inline fun internalGet(internalIndex: Int): E {
        @Suppress("UNCHECKED_CAST")
        return elementData[internalIndex] as E
    }

    private fun positiveMod(index: Int): Int = if (index >= elementData.size) index - elementData.size else index

    private fun negativeMod(index: Int): Int = if (index < 0) index + elementData.size else index

    @kotlin.internal.InlineOnly
    private inline fun internalIndex(index: Int): Int = positiveMod(head + index)

    private fun incremented(index: Int): Int = if (index == elementData.lastIndex) 0 else index + 1

    private fun decremented(index: Int): Int = if (index == 0) elementData.lastIndex else index - 1

    override fun isEmpty(): Boolean = size == 0

    /**
     * Returns the first element, or throws [NoSuchElementException] if this deque is empty.
     */
    public fun first(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(head)

    /**
     * Returns the first element, or `null` if this deque is empty.
     */
    public fun firstOrNull(): E? = if (isEmpty()) null else internalGet(head)

    /**
     * Returns the last element, or throws [NoSuchElementException] if this deque is empty.
     */
    public fun last(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(internalIndex(lastIndex))

    /**
     * Returns the last element, or `null` if this deque is empty.
     */
    public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(internalIndex(lastIndex))

    /**
     * Prepends the specified [element] to this deque.
     */
    public fun addFirst(element: E) {
        ensureCapacity(size + 1)
        head = decremented(head)
        elementData[head] = element
        size += 1
    }
public fun removeFirst(): E {
    if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")
    val element = internalGet(head)
    elementData[head] = null
    head = incremented(head)
    size -= 1
    return element
}

public fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()

public fun removeLast(): E {
    if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")
    val element = internalGet(lastIndex)
    elementData[lastIndex] = null
    size -= 1
    return element
}

public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()
if (element == elementData[index]) return index - head
else return -1

public override fun remove(element: E): Boolean {
    val index = indexOf(element)
    if (index == -1) return false

    removeAt(index)
    return true
}

public override fun removeAt(index: Int): Boolean {
    return elementData[index] == null
}

AbstractList.checkElementIndex(index, size)
if (index == lastIndex) {
    return removeLast()
} else if (index == 0) {
    return removeFirst()
}

val internalIndex = internalIndexOf(index)
val val = internalGet(internalIndex)
if (index < size shr 1) {
    // closer to the first element -
    shift preceding elements
    if (indexIndex >= head) { // elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        return
    } else {
        // // closer to the last element -
        shift succeeding elements
        val internalLastIndex = internalIndexOf(lastIndex)
        if (internalIndex <= internalLastIndex) {
            elementData.copyInto(elementData, internalIndex, internalIndex + 1,
        } else {
            elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        }
    }

    elementData[head] = null
    head = incremented(head)
} else if (head < tail) {
    elementData.fill(null, head, tail)
} else if (isNotEmpty()) {
    head = incremented(head)
}

internalLastIndex + 1)

val element = internalGet(internalIndex)
if (index < size shr 1) {
    // closer to the first element -
    shift preceding elements
    if (indexIndex >= head) { // elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        return
    } else {
        // // closer to the last element -
        shift succeeding elements
        val internalLastIndex = internalIndexOf(lastIndex)
        if (internalIndex <= internalLastIndex) {
            elementData.copyInto(elementData, internalIndex, internalIndex + 1,
        } else {
            elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        }
    }

    elementData[head] = null
    head = incremented(head)
} else if (head < tail) {
    elementData.fill(null, head, tail)
} else if (isNotEmpty()) {
    head = incremented(head)
}

internalLastIndex + 1)

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    // closer to the first element -
    shift preceding elements
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        return
    } else {
        // // closer to the last element -
        shift succeeding elements
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        if (internalIndex <= internalLastIndex) {
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        } else {
            elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        }
    }

    elementData[head] = null
    head = incremented(head)
} else if (head < tail) {
    elementData.fill(null, head, tail)
} else if (isNotEmpty()) {
    head = incremented(head)
}

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    shift preceding elements
    if (indexIndex >= head) { // elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        return
    } else {
        // // closer to the last element -
        shift succeeding elements
        val internalLastIndex = internalIndexOf(lastIndex)
        if (internalIndex <= internalLastIndex) {
            elementData.copyInto(elementData, internalIndex, internalIndex + 1,
        } else {
            elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        }
    }

    elementData[head] = null
    head = incremented(head)
} else if (head < tail) {
    elementData.fill(null, head, tail)
} else if (isNotEmpty()) {
    head = incremented(head)
}

internalLastIndex + 1)

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    // closer to the first element -
    shift preceding elements
    if (indexIndex >= head) { // elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        return
    } else {
        // // closer to the last element -
        shift succeeding elements
        val internalLastIndex = internalIndexOf(lastIndex)
        if (internalIndex <= internalLastIndex) {
            elementData.copyInto(elementData, internalIndex, internalIndex + 1,
        } else {
            elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        }
    }

    elementData[head] = null
    head = incremented(head)
} else if (head < tail) {
    elementData.fill(null, head, tail)
} else if (isNotEmpty()) {
    head = incremented(head)
}

internalLastIndex + 1)

val element = internalGet(internalIndex)
if (index < size shr 1) {
    // closer to the first element -
    shift preceding elements
    if (indexIndex >= head) { // elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        return
    } else {
        // // closer to the last element -
        shift succeeding elements
        val internalLastIndex = internalIndexOf(lastIndex)
        if (internalIndex <= internalLastIndex) {
            elementData.copyInto(elementData, internalIndex, internalIndex + 1,
        } else {
            elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        }
    }

    elementData[head] = null
    head = incremented(head)
} else if (head < tail) {
    elementData.fill(null, head, tail)
} else if (isNotEmpty()) {
    head = incremented(head)
}

internalLastIndex + 1)

val element = internalGet(internalIndex)
if (index < size shr 1) {
    // closer to the first element -
    shift preceding elements
    if (indexIndex >= head) { // elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        return
    } else {
        // // closer to the last element -
        shift succeeding elements
        val internalLastIndex = internalIndexOf(lastIndex)
        if (internalIndex <= internalLastIndex) {
            elementData.copyInto(elementData, internalIndex, internalIndex + 1,
        } else {
            elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        }
    }

    elementData[head] = null
    head = incremented(head)
} else if (head < tail) {
    elementData.fill(null, head, tail)
} else if (isNotEmpty()) {
    head = incremented(head)
}

internalLastIndex + 1)

val element = internalGet(internalIndex)
if (index < size shr 1) {
    // closer to the first element -
    shift preceding elements
    if (indexIndex >= head) { // elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        return
    } else {
        // // closer to the last element -
        shift succeeding elements
        val internalLastIndex = internalIndexOf(lastIndex)
        if (internalIndex <= internalLastIndex) {
            elementData.copyInto(elementData, internalIndex, internalIndex + 1,
        } else {
            elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        }
    }

    elementData[head] = null
    head = incremented(head)
} else if (head < tail) {
    elementData.fill(null, head, tail)
} else if (isNotEmpty()) {
    head = incremented(head)
}
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*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ArraysKt\")\n\n\nunpackaged
kotlin.collections\n\nimport kotlin.contracts.*\n\n/**
 * Returns a single list of all elements from all arrays in the
given array.
 */
\n\n/**
 * Returns a pair of lists, where\n\nthis nullable array is either null or empty.\n */
\n\npublic fun Array<*>?.isNullOrEmpty(): Boolean {
    contract {
        returns(false) implies (this@isNullOrEmpty != null) \n        returns this == null \n    }

    return this == null || this.isEmpty()
}

/**
 * Converts a nullable array to a non-null array.
 */
\n\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =
    if (isEmpty())
        defaultValue() else
        this

/**
 * Determines if two nullable arrays are equal.
 */
\n\npublic fun Array<*>?.contentDeepEquals(other: Array<*>?): Boolean {
    if (this === other) return true
    if (this == null || other == null || this.size != other.size) return false

    for (i in indices) {
        val v1 = this[i]
        val v2 = other[i]

        if (v1 === v2) {
            continue
        } else if (v1 == null || v2 == null) {
            return false
        }

        when {
            v1 is Array<*>
                && v2 is Array<*> -> if (!v1.contentDeepEquals(v2)) return false
            v1 is ByteArray
                && v2 is ByteArray -> if (!v1.contentEquals(v2)) return false
            v1 is ShortArray
                && v2 is ShortArray -> if (!v1.contentEquals(v2)) return false
            v1 is IntArray
                && v2 is IntArray -> if (!v1.contentEquals(v2)) return false
            v1 is LongArray
                && v2 is LongArray -> if (!v1.contentEquals(v2)) return false
            v1 is FloatArray
                && v2 is FloatArray -> if (!v1.contentEquals(v2)) return false
            v1 is DoubleArray
                && v2 is DoubleArray -> if (!v1.contentEquals(v2)) return false
            v1 is CharArray
                && v2 is CharArray -> if (!v1.contentEquals(v2)) return false
            v1 is BooleanArray
                && v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false
            v1 is UByteArray
                && v2 is UByteArray -> if (!v1.contentEquals(v2)) return false
            v1 is UShortArray
                && v2 is UShortArray -> if (!v1.contentEquals(v2)) return false
            v1 is UIntArray
                && v2 is UIntArray -> if (!v1.contentEquals(v2)) return false
            v1 is ULongArray
                && v2 is ULongArray -> if (!v1.contentEquals(v2)) return false
        }
    }
    return true
}
result.append(element.contentToString())

result.append(element.contentToString())

result.append(element.contentToString())

result.append(element.contentToString())

result.append(element.contentToString())

result.append(element.contentToString())

result.append(element.contentToString())

result.append(element.contentToString())

result.append(element.contentToString())

result.append(element.contentToString())

processed.removeAt(processed.lastIndex)

/*
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 * license/LICENSE.txt file. *
 */

package kotlin.collections

/**
 * Data class representing a value from a collection or sequence, along with its index in that collection or sequence.
 * @param value the underlying value.
 * @param index the index of the value in the collection or sequence.
 */
public data class IndexedValue<out T>(public val index: Int, public val value: T)

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 */

@file:kotlin.jvm.JvmName("MapAccessorsKt")

package kotlin.collections

import kotlin.reflect.KProperty
import kotlin.internal.Exact

/**
 * Returns the value of the property for the given object from this read-only map.
 * @param thisRef the object for which the value is requested (not used).
 * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.
 * @return the property value.
 * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).
 */
@kotlin.jvm.JvmName("getVar")
@kotlin.internal.InlineOnly
public inline operator fun <V, V1 : V> MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =
    @Suppress("UNCHECKED_CAST") (getOrImplicitDefault(property.name) as V1)

/**
 * Stores the value of the property for the given object in this mutable map.
 * @param thisRef the object for which the value is requested (not used).
 * @param property the metadata for the property, used to store the value associated with that name in the map.
 */
@kotlin.internal.InlineOnly
public inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {
    this.put(property.name, value)
}

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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")

package kotlin.collections

/**
 * Returns the value for the given key, or the implicit default value for this map.
 * By default no implicit value is provided for maps and a [NoSuchElementException] is thrown. To create a map with implicit default value use [withDefault] method.
 */
@PublishedApi
internal fun <K, V> Map<K, V>.getOrImplicitDefaultNullavable(key: K): V {
    if (this.containsKey(key))
        return this.getOrImplicitDefault(key)
    returnOrElseNullable(key, { throw NoSuchElementException("Key $key is missing in the map.") })
}

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 */

*Hover*/
public fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =
    when (this) {
        is MapWithDefault ->
            this.map.withDefault(defaultValue)
        else -> MapWithDefaultImpl(this, defaultValue)
    }

/**
 * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function
 */
@kotlin.jvm.JvmName("withDefaultMutable")
public fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =
    when (this) {
        is MutableMapWithDefault ->
            this.map.withDefault(defaultValue)
        else -> MutableMapWithDefaultImpl(this, defaultValue)
    }

private interface MapWithDefault<K, out V> : Map<K, V> {
    public val map: Map<K, V>
    public fun getOrImplicitDefault(key: K): V
}

private interface MutableMapWithDefault<K, V> : MutableMap<K, V>, MapWithDefault<K, V> {
    public override val map: MutatableMap<K, V>
}

private class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) :
    MapWithDefault<K, V> {
    override fun equals(other: Any?): Boolean = map.equals(other)
    override fun hashCode(): Int = map.hashCode()
    override fun toString(): String = map.toString()
    override val size: Int get() = map.size
    override fun isEmpty(): Boolean = map.isEmpty()
    override fun containsKey(key: K): Boolean = map.containsKey(key)
    override fun containsValue(value: V): Boolean = map.containsValue(value)
    override fun get(key: K): V? = map.getOrElseNullable(key, { default(key) })
    }

private class MutatableMapWithDefaultImpl<K, V>(public override val map: MutatableMap<K, V>, private val default: (key: K) -> V) :
    MutatableMapWithDefault<K, V> {
    override fun put(key: K, value: V): V? = map.put(key, value)
    override fun remove(key: K): V? = map.remove(key)
    override fun putAll(from: Map<out K, V>): Boolean = map.putAll(from)
    override fun clear(): Boolean = map.clear()
    }

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overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.

```kotlin
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =
    this.addAll(elements)  // Adds the specified [element] to this mutable collection.

@kotlin.internal.InlineOnly
public inline operator fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<in T>.plusAssign(element: T) {
    this.add(element)  // Adds all elements of the given [elements] collection to this mutable collection.
}

@kotlin.internal.InlineOnly
public inline operator fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<in T>.plusAssign(elements: Iterable<T>) {
    this.addAll(elements)  // Adds all elements of the given [elements] sequence to this mutable collection.
}

@kotlin.internal.InlineOnly
public inline operator fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<in T>.plusAssign(elements: Array<T>) {
    this.addAll(elements)  // Adds all elements of the given [elements] array to this mutable collection.
}

@kotlin.internal.InlineOnly
public inline operator fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {
    this.addAll(elements)  // Adds all elements of the given [elements] sequence to this mutable collection.
}

@kotlin.internal.InlineOnly
public inline operator fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<in T>.minusAssign(element: T) {
    this.remove(element)  // Removes all elements contained in the given [elements] collection from this mutable collection.
}

@kotlin.internal.InlineOnly
public inline operator fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {
    this.removeAll(elements)  // Removes all elements of the given [elements] sequence from this mutable collection.
}

@kotlin.internal.InlineOnly
public inline operator fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<in T>.minusAssign(elements: Array<T>) {
    this.removeAll(elements)  // Removes all elements of the given [elements] array from this mutable collection.
}

@kotlin.internal.InlineOnly
public inline operator fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<in T>.minusAssign(elements: Sequence<T>) {
    this.removeAll(elements)  // Removes all elements of the given [elements] sequence from this mutable collection.
}
```

In the `MutableCollection` class, the `retainAll` function adds all elements of the given collection to the mutable collection. The `plusAssign` function adds elements to the collection based on various types of collections, including `Iterable`, `Array`, and `Sequence`. The `minusAssign` function removes elements from the collection based on collections, sequences, and arrays. These functions provide a flexible way to manipulate collections in a type-safe manner.
MutableCollection<*>.retainNothing(): Boolean

val result = isNotEmpty()
return result

* @return `true` if any element was removed from this [MutableIterable] that match the given [predicate].

MutableIterable<T>.removeAll(predicate: (T) -> Boolean):

Boolean = filterInPlace(predicate, true)

* @return `true` if any element was removed from this collection, or `false` when all elements were retained and collection was not modified.

MutableIterable<T>.retainAll(predicate: (T) -> Boolean):

Boolean = filterInPlace(predicate, false)

MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean):

PredicateResultToRemove: Boolean

Boolean {

var result = false

* @return `true` if any element was removed from this collection, or `false` when all elements were retained and collection was not modified.

MutableList<T>.retainAll(predicate: (T) -> Boolean):

Boolean = filterInPlace(predicate)

MutableList<T>.retainAll(predicate: (T) -> Boolean):

MutableList<T>.removeAt(index: Int):

removeAt(index)

@Deprecated("Use removeAt(index) instead.",
ReplaceWith("removeAt(index)"), level = DeprecationLevel.ERROR)
@kotlin.internal.InlineOnly
public inline

fun <T> MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else removeAt(0)

fun <T> MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)

fun <T> MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else removeAt(lastIndex)

fun <T> MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)

fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)

fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)

private fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {

if (this !is RandomAccess)

var writeIndex: Int = 0

for (readIndex in 0..lastIndex) {

val element = this[readIndex]

if (predicate(element) == predicateResultToRemove)

continue

if (writeIndex != readIndex)

this[writeIndex] = element

writeIndex++

} if (writeIndex < size) {

return true

} else {

return false

}

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* @file:kotlin.jvm.JvmMultifileClass

package kotlin.collections

private open class ReversedListReadOnly<out T>(private val delegate: List<T>) : AbstractList<T>() {

override val size: Int get() = delegate.size

override fun get(index: Int): T = delegate[reverseElementIndex(index)]

}

private class ReversedList<T>(private val delegate: MutableList<T>) :
AbstractMutableList<T>() {
    override val size: Int get() = delegate.size
    override fun get(index: Int): T =
        delegate[reverseElementIndex(index)]
    override fun clear() = delegate.clear()
    override fun removeAt(index: Int): T =
        delegate.removeAt(reverseElementIndex(index))
    override fun set(index: Int, element: T): T =
        delegate.set(reverseElementIndex(index), element)
    override fun add(index: Int, element: T) {
        delegate.add(reversePositionIndex(index), element)
    }
}

private fun List<*>.reverseElementIndex(index: Int) =
    if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException("Element index $index must be in range [0..lastIndex].")

private fun List<*>.reversePositionIndex(index: Int) =
    if (index in 0..size) size - index else throw IndexOutOfBoundsException("Position index $index must be in range [0..size].")

/**
 * Returns a reversed read-only view of the original List.
 * All changes made in the original list will be reflected in the reversed one.
 */
public fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)

/**
 * Returns a reversed mutable view of the original mutable List.
 * All changes made in the original list will be reflected in the reversed one and vice versa.
 */
@kotlin.jvm.JvmName("asReversedMutable")
public fun <T> MutableList<T>.asReversed(): MutableList<T> = ReversedList(this)

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 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SequencesKt")
@file:OptIn(ExperimentalTypeInference::class)
import kotlin.coroutines.*
import kotlin.coroutines.intrinsics.*
import kotlin.experimental.ExperimentalTypeInference

/**
 * Builds a `Sequence` lazily yielding values one by one.
 *
 * @see kotlin.sequences.generateSequence
 *
 * @sample samples.collections.Sequences.Building.buildSequence
 */
@SinceKotlin("1.3")
public fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence {
    iterator(block)
}

/**
 * Builds an `Iterator` lazily yielding values one by one.
 *
 * @sample samples.collections.Sequences.Building.buildIterator
 * @sample samples.collections.Iterables.Building.iterable
 */
@SinceKotlin("1.3")
public fun <T> iterator(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Iterator<T> {
    val iterator = SequenceBuilderIterator<T>()
    iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)
    return iterator
}

protected class SequenceBuilderIterator<T> internal constructor() {
    /**
     * Builds a [Sequence] lazily yielding values one by one.
     */
    override fun yield(value: T) =
        iterator(value)

    /**
     * Yields all values from the `iterator` to the [Iterator] being built
     * and suspends until all these values are iterated and the next one is requested.
     */
    override fun yieldAll(iterator: Iterator<T>) =
        iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)
        return iterator
}

@RestrictsSuspension
@SinceKotlin("1.3")
public abstract class SequenceScope<in T> internal constructor() {
    /**
     * Yields a value to the [Iterator] being built and suspends
     */
    override fun yield(value: T) =
        iterator(value)

    /**
     * The scope for yielding values of a [Sequence] or an [Iterator],
     * provides [yield] and [yieldAll] suspension functions.
     */
    override fun yieldAll(iterator: Iterator<T>) =
        iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)
        return iterator
}

// Other code...

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the [Iterator] being built
  * and suspends until all these values are iterated and the next one is requested.

  * @sample samples.collections.Sequences.Building.buildSequenceYieldAll
  */

    public suspend fun yieldAll(elements: Iterable<T>) {
        if (elements is Collection && elements.isEmpty()) return
        return yieldAll(elements.iterator())
    }

    /**
     * Yields potentially infinite sequence of values to the [Iterator]
     * being built
     * and suspends until all these values are iterated and the next one is requested.
     * The sequence can be potentially infinite.
     *
     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll
     */
    public suspend fun yieldAll(sequence: Sequence<T>) = yieldAll(sequence.iterator())

    @Deprecated("Use SequenceScope class instead.", ReplaceWith("SequenceScope<T>", level = DeprecationLevel.ERROR))
    public typealias SequenceBuilder<T> = SequenceScope<T>

    private typealias State = Int
    private const val State_NotReady: State = 0
    private const val State_ManyNotReady: State = 1
    private const val State_ManyReady: State = 2
    private const val State_Ready: State = 3
    private const val State_Done: State = 4
    private const val State_Failed: State = 5

    private class SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {
        private var state = State_NotReady
        private var nextValue: T? = null
        private var nextIterator: Iterator<T>? = null
        var nextStep: Continuation<Unit>? = null

        override fun hasNext(): Boolean {
            while (true) {
                when (state) {
                    State_NotReady -> {}
                    State_ManyNotReady ->
                        if (nextIterator!!.hasNext()) {
                            state = State_ManyReady
                            return true
                        } else {
                            nextIterator = null
                            when (state) {
                                State_ManyReady -> return true
                                else -> throw exceptionalState()
                            } return false
                        }
                    State_Done -> return false
                    State_Ready, State_ManyReady -> return true
                    override fun next() {
                        when (state) {
                            State_NotReady, State_ManyNotReady -> return nextNotReady()
                            State_ManyReady -> {
                                state = State_ManyNotReady
                                return nextIterator!!.next()
                            }
                            State_Ready -> {
                                state = State_NotReady
                                @Suppress("UNCHECKED_CAST")
                                return nextValue as T
                            }
                            else -> throw exceptionalState()
                        }
                    }
                    override suspend fun yield(value: T) {
                        nextValue = value
                        state = State_Ready
                        return suspendCoroutineUninterceptedOrReturn { c ->
                            nextStep = c
                            COROUTINE_SUSPENDED
                        }
                    }
                    override suspend fun yieldAll(iterator: Iterator<T>) {
                        if (!iterator.hasNext()) return
                        nextIterator = iterator
                        state = State_ManyReady
                        return suspendCoroutineUninterceptedOrReturn { c ->
                            nextStep = c
                            COROUTINE_SUSPENDED
                        }
                    }
                    // Completion continuation implementation
                    override fun resumeWith(result: Result<Unit>) {
                        result.getOrThrow() // just rethrow exception if it is there
                        state = State_Done
                        override fun next() {
                            return nextValue as T
                        }
                        override fun hasNext() {
                            return true
                        }
                        override suspend fun yield(value: T) {
                            nextValue = value
                            return suspendCoroutineUninterceptedOrReturn { c ->
                                nextStep = c
                                COROUTINE_SUSPENDED
                            }
                        }
                    }
                } else -> throw exceptionalState()
            }
        }
    }

    internal fun checkWindowSizeStep(size: Int, step: Int) {
        require(size > 0 && step > 0) {
            if (size != step)
            "Both size $size and step $step must be greater than zero."
            else
            \"size $size must be greater than zero.\"\n        }
    }

        checkWindowSizeStep(size, step)
        return Sequence {
            windowedIterator(iterator(), size, step, partialWindows, reuseBuffer)
        }
    }

        if (!iterator.hasNext()) return EmptyIterator
        return iterator<List<T>> {
            // Completion continuation implementation
            override fun resumeWith(result: Result<Unit>) {
                result.getOrThrow() // just rethrow exception if it is there
                state = State_Done
                override fun next() {
                    return nextValue as T
                }
                override fun hasNext() {
                    return true
                }
                override suspend fun yield(value: T) {
                    nextValue = value
                    return suspendCoroutineUninterceptedOrReturn { c ->
                        nextStep = c
                        COROUTINE_SUSPENDED
                    }
                }
            }
        }
    }
@ExperimentalUnsignedTypes
private fun partition(array: UByteArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(array: UByteArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// Interfaces
**
* This marker distinguishes the experimental contract declaration API and is used to opt-in for that feature
* when declaring contracts of user functions.

@SinceKotlin("1.3")
@Suppress("DEPRECATION")
@Retention(AnnotationRetention.BINARY)
@ExperimentalContracts

// Interfaces
**
* Sorts the given array using qsort algorithm.

@OptIn(ExperimentalContracts::class)
fun sortArray(array: UByteArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)

@OptIn(ExperimentalContracts::class)
fun sortArray(array: UShortArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)

@OptIn(ExperimentalContracts::class)
fun sortArray(array: UIntArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)

@OptIn(ExperimentalContracts::class)
fun sortArray(array: ULongArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)
experimental
*\RequiresOptIn*\MustBeDocumented*\n
public annotation class ExperimentalContracts

/**
 * Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc., can be used to describe the contract of a function.
 * This type is used as a receiver type of the lambda function passed to the [contract] function.
 */
@ContractsDsl
@ExperimentalContracts
@SinceKotlin("1.3")
public interface ContractBuilder {

    /**
     * Describes a situation when a function returns normally, without any exceptions thrown.
     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
     */
    @ContractsDsl public fun returns(): Returns

    /**
     * Describes a situation when a function returns normally with the specified return value.
     * The possible values of [value] are limited to `true`, `false` or `null`.
     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
     */
    @ContractsDsl public fun returns(value: Any?): Returns

    /**
     * Describes a situation when a function returns normally with any value that is not `null`.
     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
     */
    @ContractsDsl public fun returnsNotNull(): ReturnsNotNull

    /**
     * Specifies that the function parameter [lambda] is invoked in place.
     * This contract specifies that:
     * 1. the function [lambda] can only be invoked during the call of the owner function, and it won't be invoked after that owner function call is completed;
     * 2. (optionally) the function [lambda] is invoked the amount of times specified by the [kind] parameter.
     * A function declaring the `callsInPlace` effect must be _inline_.
     */
    @ContractsDsl public fun <R> callsInPlace(lambda: Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace
}

/**
 * Specifies how many times a function invokes its function parameter in place.
 * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.
 */
@ContractsDsl
@ExperimentalContracts
@SinceKotlin("1.3")
public enum class InvocationKind {
    /**
     * A function parameter will be invoked one time or not invoked at all.
     */
    AT_MOST_ONCE,

    /**
     * A function parameter will be invoked one or more times.
     */
    AT_LEAST_ONCE,

    /**
     * A function parameter will be invoked exactly one time.
     */
    EXACTLY_ONCE,

    /**
     * A function parameter is called in place, but it's unknown how many times it can be called.
     */
    UNKNOWN
}

/**
 * Specifies how many times a function invokes its function parameter.
 * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.
 */
@ContractsDsl
@ExperimentalContracts
@SinceKotlin("1.3")
public enum class InvocationKind {
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 * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.
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public enum class InvocationKind {
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 * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.
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    AT_LEAST_ONCE,

    /**
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 * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.
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@ExperimentalContracts
@SinceKotlin("1.3")
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    /**
     * A function parameter will be invoked exactly one time.
     */
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 * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.
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@ExperimentalContracts
@SinceKotlin("1.3")
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    /**
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     */
    AT_LEAST_ONCE,

    /**
     * A function parameter will be invoked exactly one time.
     */
    EXACTLY_ONCE,

    /**
     * A function parameter is called in place, but it's unknown how many times it can be called.
     */
    UNKNOWN
}
contributors.

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* @package kotlin.coroutines

* Marks coroutine context element that intercepts coroutine continuations.

* The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and
* intercepts all coroutine continuations with [interceptContinuation] invocations.

* ![ContinuationInterceptor] behaves like a [polymorphic element][AbstractCoroutineContextKey], meaning that
* its implementation delegates [get][CoroutineContext.Element.get] and
* [minusKey][CoroutineContext.Element.minusKey] to [getPolymorphicElement] and [minusPolymorphicKey] respectively.

* ![ContinuationInterceptor] subtypes can be extracted from the coroutine context using either
* [ContinuationInterceptor.Key][CoroutineContext.Element.Key] or subtype key if it extends [AbstractCoroutineContextKey].

* @SinceKotlin("1.3")

* public interface ContinuationInterceptor : CoroutineContext.Element

* The key that defines *the* context interceptor.

* ![Companion object Key : ![ContinuationInterceptor][CoroutineContext.Key]<ContinuationInterceptor>> returns continuation that wraps the original [continuation], thus intercepting all resumptions.

* This function is invoked by coroutines framework when needed and the resulting continuations are [cached internally per each instance of the original [continuation]]

* ![This function may simply return original [continuation] if it does not want to intercept this particular continuation.]

* When the original [continuation] completes, coroutine framework invokes
* [releaseInterceptedContinuation] with the resulting continuation if it was intercepted, that is if
* `interceptContinuation` had previously returned a different continuation instance.

* ![public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>]

* Invoked for the continuation instance returned by [interceptContinuation] when the original [continuation] completes and will not be used anymore. This function is invoked only if [interceptContinuation] had returned a different continuation instance from the one it was invoked with.

* ![Default implementation does nothing.]

* ![@param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.]

* ![public fun releaseInterceptedContinuation(continuation: Continuation<*>): Continuation<*>](

* ![do nothing by default]

* ![public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E?](

* // getPolymorphicKey specialized for ContinuationInterceptor key

* @OptIn(ExperimentalStdlibApi::class)

* return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null

* ![@OptIn(ExperimentalStdlibApi::class)

* return if (ContinuationInterceptor == key) this as E else null]

* ![public override fun minusKey(key: CoroutineContext.Key<*>)]: CoroutineContext

* ![getMedian] private fun getMedian(nums: List<Double>): Double{

* ![public operator fun <E : Element> get(key: Key<E>): E?](

* ![return if (ContinuationInterceptor === key) EmptyCoroutineContext else this]

* ![return if (ContinuationInterceptor == key) EmptyCoroutineContext else this

* ![Persistent context for the coroutine. It is an indexed set of [Element] instances.]

* An indexed set is a mix between a set and a map.

* ![Every element in this set has a unique [Key].]

* ![An indexed set is a mix between a set and a map.

* ![Persistent context for the coroutine. It is an indexed set of [Element] instances.]

* An indexed set is a mix between a set and a map.

* ![Every element in this set has a unique [Key].]

* ![An indexed set is a mix between a set and a map.

* ![Persistent context for the coroutine. It is an indexed set of [Element] instances.]

* An indexed set is a mix between a set and a map.

* ![Every element in this set has a unique [Key].]
Returns a context containing elements from this context, but without an element with key * the specified [key].

public fun minusKey(key: Key<*>): CoroutineContext
*/

* An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.

* public interface Element : CoroutineContext
*/

/**
 * Returns a context containing elements from this context, but without an element with key * the specified [key].
 */

/**
 * Key for the elements of [CoroutineContext]. [E] is a type of element with this key.
 */

/**
 * A key of this coroutine context element.
 */

public val key: Key<*>

override operator fun <E : Element> get(key: Key<E>): E? =
        if (this.key == key) this as E else null

override fun <R> fold(initial: R, operation: (R, Element) -> R): R =
        operation(initial, this)

override fun minusKey(key: Key<*>): CoroutineContext =
        if (this.key == key) EmptyCoroutineContext else this

/*
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 */

package kotlin.coroutines

import kotlin.coroutines.CoroutineContext.Element
import kotlin.coroutines.CoroutineContext.Key

/**
 * Base class for [CoroutineContext.Element] implementations.
 */
@SinceKotlin("1.3")
public abstract class AbstractCoroutineContextElement(public override val key: Key<*>) : Element

/**
 * Polymorphic element implementation implies delegating its [get] and [minusKey] to [getPolymorphicElement] and
��[minusPolymorphicKey] respectively.

* Polymorphic elements can be extracted from the coroutine context using both element key and its supertype key.

* Example of polymorphic elements:

AbstractCoroutineContextElement

/**
 * Returns the current element if it is associated with the given [key] in a polymorphic manner
 * and [minusPolymorphicKey] respectively.

* Polymorphic elements can be extracted from the coroutine context using both element key and its supertype key.

* Example of polymorphic elements:

AbstractCoroutineContextElement

/**
 * Returns the current element if it is associated with the given [key] in a polymorphic manner
 * and [minusPolymorphicKey] respectively.

* Polymorphic elements can be extracted from the coroutine context using both element key and its supertype key.

* Example of polymorphic elements:

AbstractCoroutineContextElement

/**
 * Returns the current element if it is associated with the given [key] in a polymorphic manner
 * and [minusPolymorphicKey] respectively.

* Polymorphic elements can be extracted from the coroutine context using both element key and its supertype key.

* Example of polymorphic elements:

AbstractCoroutineContextElement

*/
Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner or `null` otherwise. This method returns empty context if either [Element.key] is equal to the given [key] or if the [key] is associated with [Element.key] via [AbstractCoroutineContextKey].

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun Element.minusPolymorphicKey(key: Key<*>): CoroutineContext {
    if (key is AbstractCoroutineContextKey<*, *>) {
        return if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this
    }
    return if (this.key === key) EmptyCoroutineContext else this
}

/**
 * An empty coroutine context.
 */
@SinceKotlin("1.3")
public object EmptyCoroutineContext : CoroutineContext, Serializable {
    private const val serialVersionUID: Long = 0
    private fun readResolve(): Any = EmptyCoroutineContext

    public override fun <E : Element> get(key: Key<E>): E? = null
    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial
    public override fun plus(context: CoroutineContext): CoroutineContext = context
    public override fun minusKey(key: Key<*>): CoroutineContext = this
    public override fun hashCode(): Int = 0
    public override fun toString(): String = "EmptyCoroutineContext"
}
```

```kotlin
@file:kotlin.jvm.JvmName("IntrinsicsKt")
@file:kotlin.jvm.JvmMultifileClass

package kotlin.coroutines.intrinsics

import kotlin.contracts.*
import kotlin.coroutines.*
import kotlin.internal.InlineOnly

/**
 * Obtains the current continuation instance inside suspend functions and either suspends currently running coroutine or returns result immediately without suspension.
 *
 * If the block returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution and will not return any result immediately. In this case, the [Continuation] provided to the block will be resumed by invoking [Continuation.resumeWith] at some moment in the future when the result becomes available to resume the computation.
 */
```
to [T] and represents the result of this suspend function.

* It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.

* As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked, its proper return type remains on the conscience of the suspend function's author.

* Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the

* [ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext].

* It is the invoker's responsibility to ensure that a proper invocation context is established.

* [Continuation.intercepted] can be used to acquire the intercepted continuation.

* Note that it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current continuation instance.

```kotlin
suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    throw NotImplementedError("Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic")
}
```

```kotlin
public val COROUTINE_SUSPENDED: Any get() =
    CoroutineSingletons.COROUTINE_SUSPENDED

internal enum class CoroutineSingletons {
    COROUTINE_SUSPENDED, UNDECIDED, RESUMED }
```

```kotlin
public inline fun Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()

public inline fun Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()

public inline fun Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()

public inline fun Byte.inv(): Byte =
    (this.toInt().inv()).toByte()

public inline fun Short.and(other: Short): Short =
    (this.toInt() and other.toInt()).toShort()

public inline fun Short.or(other: Short): Short =
    (this.toInt() or other.toInt()).toShort()

public inline fun Short.xor(other: Short): Short =
    (this.toInt() xor other.toInt()).toShort()

public inline fun Short.inv(): Short =
    (this.toInt().inv()).toShort()
```

```
package kotlin.experimental

/**
 * The experimental marker for type inference augmenting annotations.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 * The experimental marker for type inference augmenting annotations.
 * Any usage of a declaration annotated with
in a more compact form in the Kotlin metadata.

```kotlin
@Target(AnnotationTarget.CLASS,
    AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR,
    AnnotationTarget.TYPEALIAS)
@Retention(AnnotationRetention.SOURCE)
@Repeatable
@SinceKotlin("1.2")
internal annotation class RequireKotlin(
    val version: String,
    val message: String = "",
    val level: DeprecationLevel = DeprecationLevel.ERROR,
    val versionKind: RequireKotlinVersionKind = RequireKotlinVersionKind.LANGUAGE_VERSION,
    val errorCode: Int = -1
) {
    * The kind of the version that is required by [RequireKotlin].

    Requires that the declaration uses the Kotlin version indicated.
}

@SinceKotlin("1.2")
internal annotation class RequireKotlinVersionKind {
    LANGUAGE_VERSION,
    COMPILER_VERSION,
}

/**
 * The kind of the version that is required by [RequireKotlin].
 */
@SinceKotlin("1.2")
internal enum class RequireKotlinVersionKind {
    LANGUAGE_VERSION,
    COMPILER_VERSION,
    API_VERSION,
}

/**
 * Specifies that this declaration is a part of special DSL, used for constructing
 * function's contract.
 */
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.2")
internal annotation class ContractsDsl

/**
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 * contributors.
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 * the license/LICENSE.txt file.
 */

package kotlin.properties

import kotlin.reflect.KProperty

/**
 * Standard property delegates.
 */
public object Delegates {
    /**
     * Returns a property delegate for a read/write property with a non-null value
     * that is initialized not during construction time but at a later time.
     * Trying to read the property before the initial value has been assigned results in an exception.
     */
    public fun <T : Any> notNull(): ReadWriteProperty<Any?, T> = NotNullVar()

    /**
     * Returns a property delegate for a read/write property that calls a specified callback function
     * when changed.
     * @param initialValue the initial value of the property.
     * @param onChange the callback which is called after the change of the property is made.
     *          The value of the property has already been changed when this callback is invoked.
     */
    public inline fun <T> observable(initialValue: T,
        crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit): ReadWriteProperty<Any?, T> =
        object : ObservableProperty<T>(initialValue) {
            override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)
        }

    /**
     * Returns a property delegate for a read/write property that calls a specified callback function
     * when changed, allowing the callback to veto the modification.
     * @param initialValue the initial value of the property.
     * @param onChange the callback which is called before a change to the property value is attempted.
     *          The value of the property hasn't been changed yet, when this callback is invoked.
     */
    public inline fun <T> vetoable(initialValue: T,
        crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean): ReadWriteProperty<Any?, T> =
        object : ObservableProperty<T>(initialValue) {
            override fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue, newValue)
        }

    private class NotNullVar<T : Any>() : ReadWriteProperty<Any?, T> {
        private var value: T? = null

        override fun getValue(thisRef: Any?, property: KProperty<*>): T {
            return value
        }

        override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {
            this.value = value
        }
    }

    /*
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     * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
     */

    package kotlin.properties
    import kotlin.reflect.KProperty

    /**
     * Base interface that can be used for implementing property delegates of read-only properties.
     * This is provided only for convenience; you don’t have to extend this interface.
     */
    public interface ReadOnlyProperty<in T, out V> {
        /**
         * Returns the value of the property for the given object.
         */
        @param T the type of object which owns the delegated property.
        @param V the type of the property value.
        @param fun public fun ReadOnlyProperty<T out V> { /* */
    }

    /*
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     */

    package kotlin.properties
    import kotlin.reflect.KProperty

    /**
     * Interface that can be used for implementing property delegates of read-only properties.
     * This is provided only for convenience; you don’t have to extend this interface.
     */
    public interface ReadOnlyProperty<in T, out V> {
        /**
         * Returns the value of the property for the given object.
         */
        @param T the type of object which owns the delegated property.
        @param V the type of the property value.
        @param fun public fun ReadOnlyProperty<T out V> { /* */
    }
```
public override operator fun getValue(thisRef: T, property: KProperty<*>): V

/**
 * Base interface that can be used for implementing property delegates of read-write properties.
 *
 * This is provided only for convenience; you don't have to extend this interface in your code.

 * @param T the type of object which owns the delegated property.
 * @param V the type of the property value.
 */
public interface ReadWriteProperty<in T, V> : ReadOnlyProperty<T, V> {

    /**
     * Returns the value of the property for the given object.
     * @param thisRef the object for which the value is requested.
     * @param property the metadata for the property.
     * @return the property value.
     */
    public operator fun getValue(thisRef: T, property: KProperty<*>): V

    /**
     * Sets the value of the property for the given object.
     * @param thisRef the object for which the value is set.
     * @param property the metadata for the property.
     * @param value the value to set.
     */
    public operator fun setValue(thisRef: T, property: KProperty<*>, value: V)
}

/**
 * Base interface that can be used for implementing property delegate providers.
 *
 * This is provided only for convenience; you don't have to extend this interface in your code.

 * @param T the type of object which owns the delegated property.
 * @param D the type of property delegates this provider provides.
 */
@SinceKotlin("1.4")
public fun interface PropertyDelegateProvider<in T, out D> {

    /**
     * Returns the delegate of the property for the given object.
     * This function can be used to extend the logic of creating the object (e.g. perform validation checks).
     * @param thisRef the object for which property delegate is requested.
     * @param property the metadata for the property.
     * @return the property delegate.
     */
    public operator fun provideDelegate(thisRef: T, property: KProperty<*>): D
}

package kotlin.properties

import kotlin.reflect.KProperty

/**
 * Implements the core logic of a property delegate for a read/write property that calls callback functions when changed.

 * @param initialValue the initial value of the property.
 */
public abstract class ObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {

    private var value = initialValue

    /**
     * The callback which is called before a change to the property value is attempted.
     * The value of the property hasn't been changed yet, when this callback is invoked.
     * If the callback returns `true` the value of the property is being set to the new value,
     * and if the callback returns `false` the new value is discarded and the property remains its old value.
     * @param property the metadata for the property.
     * @param oldValue the old value of the property.
     * @param newValue the new value of the property.
     * @return the property value.
     */
    protected open fun beforeChange(property: KProperty<*>, oldValue: V, newValue: V): Boolean = true

    /**
     * The callback which is called after the change of the property is made.
     * The callback is called after the change of the property is made.
     * @param property the metadata for the property.
     * @param oldValue the old value of the property.
     * @param newValue the new value of the property.
     */
    protected open fun afterChange(property: KProperty<*>, oldValue: V, newValue: V): Unit {}

    public override fun getValue(thisRef: Any?, property: KProperty<*>): V {
        return value
    }

    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: V) {
        val oldValue = this.value
        if (!beforeChange(property, oldValue, value)) {
            return
        }
        this.value = value
        afterChange(property, oldValue, value)
    }
}
the same type [V].

@receiver A property reference to a mutable property of type [V].

The reference is without a receiver, i.e. either references a top-level property or * has the receiver bound to it.

An extension operator that allows delegating a read-only member or extension property of type [V] * to a property reference to a member or extension property of type [V] or its subtype.

Example:

```kotlin
*```
/**
   * Creates a byte array of the specified [size], filled with random bytes.
   */
   public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)

   Fills the specified byte [array] with random bytes and returns it.
   *
   * @return [array] filled with random
   */
   public open fun nextRandomBytes(array: ByteArray,
   remainder) {
            array[position + i] = vr.ushr(i * 8).toByte()
        }

        return array
    }

    /**
     * Fills a subrange of the specified byte
     * @return [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive
     */
    public open fun nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {
        require(fromIndex <= toIndex) { "fromIndex ($fromIndex) must be not greater than toIndex ($toIndex)." }

        val steps = (toIndex - fromIndex) / 4

        var position = fromIndex
        repeat(steps) {
            val v = nextInt()
            array[position] = v.toByte()
            array[position + 1] = v.ushr(8).toByte()
            array[position + 2] = v.ushr(16).toByte()
            array[position + 3] = v.ushr(24).toByte()
            position += 4
        }

        val remainder = toIndex - position
        return if (remainder > 0) {
            val nLow = n.toInt()/2 + ((n ushr 1) shr 31)
            when {
                n and -n == n -> {
                    val nLow = n.toInt()
                    val nHigh = (n ushr 32).toInt()
                    val bitCount = fastLog2(nLow)
                    nextBits(bitCount).toLong() and 0x3FFFFFFF
                }
                else -> {
                    var v: Long
                    do {
                        val bits = nextLong().ushr(1)
                        v = bits % n
                    } while (bits - v + (n - 1) < 0)
                    rnd = v
                }
                0
            }
        } else {
            while (true) {
                val r = nextRandomBytes(array, fromIndex, toIndex)
                if (r >= until) return r
            }
        }
    }

    /**
     * Gets the next random `Long` from the random number generator less than the specified 
     * @throws IllegalArgumentException if [until] is negative or zero.
     */
    public open fun nextLong(): Long = doubleFromParts(nextBits(26), nextBits(27))

    /**
     * Gets the next random non-negative `Double` from the random number generator greater than or equal to [until].
     */
    public open fun nextDouble(): Double = nextDouble(0.0, until)

    /**
     * Generates a ‘Double’ random value uniformly distributed between 0 (inclusive) and [until] (exclusive).
     */
    public open fun nextDouble(from: Double, until: Double): Double {
        require(from <= until) { "from ($from) must be not greater than until ($until)." }

        if (until.isFinite()) {
            val r1 = nextDouble() * (until / 2 - from / 2)
            from + r1 + r1
        } else {
            while (true) {
                val r = nextRandomBytes(array, fromIndex, toIndex)
                if (r >= until) return r
            }
        }
    }

    /**
     * Generates a `Double` random value uniformly distributed between 0 (inclusive) and [until] (exclusive).
     */
    public open fun nextDouble(from: Double, until: Double): Double {
        require(from <= until) { "from ($from) must be not greater than until ($until)." }

        if (until.isFinite()) {
            val r1 = nextDouble() * (until / 2 - from / 2)
            from + r1 + r1
        } else {
            while (true) {
                val r = nextRandomBytes(array, fromIndex, toIndex)
                if (r >= until) return r
            }
        }
    }
`nextBytes(size: Int): ByteArray = nextBytes(ByteArray(size))` ***/n * The default random number generator

*ln * On JVM this generator is thread-safe, its methods can be invoked from multiple threads.

*ln * @sample samples.random.Randoms.defaultRandom

private val defaultRandom: Random = defaultPlatformRandom

/**

 * The default random number

 * generator.

 * On JVM this generator is thread-safe, its methods can be invoked from multiple threads.

 * @sample samples.random.Randoms.defaultRandom

 */

companion object Default : Random() {

private val defaultRandom: Random = defaultPlatformRandom()

override fun nextInt(until: Int): Int = defaultRandom.nextInt(until)

override fun nextInt(until: Int): Int = defaultRandom.nextInt(until)

override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)

override fun nextFloat(): Float = defaultRandom.nextFloat()

override fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)

override fun nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)

override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int): ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)

/**

 * Returns a repeatable random

 * number generator seeded with the given [seed] `Int` value.

 * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.

 * @sample samples.random.Randoms.seededRandom

 */

@SinceKotlin("1.3")
public fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))

/**

 * Returns a repeatable random number generator seeded with the given [seed] `Long` value.

 * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.

 * @sample samples.random.Randoms.seededRandom

 */

@SinceKotlin("1.3")
public fun Random(seed: Long): Random = XorWowRandom(seed.toInt(), seed.shr(32).toInt())


/**

 * Gets the next random `Int` from the random

 * number generator in the specified [range].

 * Generates an `Int` random value uniformly distributed in the specified [range]:

 * from `range.start` inclusive to `range.endInclusive` inclusive.

 * @throws IllegalArgumentException if [range] is empty.

 */

@SinceKotlin("1.3")
public fun Random.nextInt(range: IntRange): Int = when {

    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")

    range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)

    range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1

    else -> throw IllegalArgumentException("Cannot get random in empty range: $range")

}

/**

 * Gets the next random `Long` from the random number generator in the specified [range].

 * Generates a `Long` random value uniformly distributed in the specified [range]:

 * from `range.start` inclusive to `range.endInclusive` inclusive.

 * @throws IllegalArgumentException if [range] is empty.

 */

@SinceKotlin("1.3")
public fun Random.nextLong(range: LongRange): Long = when {

    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")

    range.last < Long.MAX_VALUE -> nextLong(range.first, range.last + 1)

    range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) + 1

    else -> throw IllegalArgumentException("Cannot get random in empty range: $range")

}
require(until > from) { boundsErrorMessage(from, until) }

internal fun boundsErrorMessage(from: Any, until: Any) = "Random range is empty: [$from, $until)."

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 * the license/LICENSE.txt file. */

package kotlin.random

/**
 * Gets the next random 
 * value uniformly distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUInt(): UInt = nextInt().toUInt()

/**
 * Gets the next random 
 * value uniformly distributed between [0] (inclusive) and the
 * specified 
 * bound (exclusive).
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUInt(until: UInt): UInt = nextUInt(0u, until)

/**
 * Gets the next random 
 * value uniformly distributed between the specified 
 * (inclusive) and
 * (exclusive) bounds.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUInt(from: UInt, until: UInt): UInt {
    checkUIntRangeBounds(from, until)

    val signedFrom = from.toInt() xor Int.MIN_VALUE
    val signedUntil = until.toInt() xor Int.MIN_VALUE

    val signedResult = nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE
    return signedResult.toUInt()
}

/**
 * Gets the next random 
 * value uniformly distributed between the specified 
 * range:
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUInt(range: UIntRange): UInt = when {
    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < UInt.MAX_VALUE -> nextUInt(range.first, range.last + 1u)
    range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) + 1u
    else -> nextUInt()
}

/**
 * Fills
 * the specified unsigned byte 
 * array with random bytes and returns it.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUBytes(array: UByteArray): UByteArray

/*
 * Generates a [UInt] random value uniformly distributed between the specified [from] (inclusive) and
 * [until] (exclusive) bounds.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUIntRangeBounds(from: UInt, until: UInt): UInt {
    checkUIntRangeBounds(from, until)

    val signedFrom = from.toInt() xor Int.MIN_VALUE
    val signedUntil = until.toInt() xor Int.MIN_VALUE

    val signedResult = nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE
    return signedResult.toUInt()
}

/*
 * Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and
 * [ULong.MAX_VALUE] (inclusive).
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextULong(): ULong = nextLong().toULong()

/**
 * Gets the next random 
 * value uniformly distributed between [0] (inclusive) and the
 * specified 
 * bound (exclusive).
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextULong(until: ULong): ULong = nextULong(0uL, until)

/**
 * Gets the next random 
 * value uniformly distributed between the specified 
 * (inclusive) and
 * (exclusive) bounds.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextULong(from: ULong, until: ULong): ULong {
    checkULongRangeBounds(from, until)

    val signedFrom = from.toLong() xor Long.MIN_VALUE
    val signedUntil = until.toLong() xor Long.MIN_VALUE

    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE
    return signedResult.toULong()
}

/**
 * Gets the next random 
 * value uniformly distributed between the specified 
 * range:
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextULong(range: ULongRange): ULong = when {
    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)
    range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u
    else -> nextULong()
}

/*
 * Fills
 * the specified unsigned byte 
 * array with random bytes and returns it.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUBytes(array: UByteArray): UByteArray
**Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()**

/**
 * Creates an unsigned byte array of the specified [size], filled with random bytes.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray() /* * Fills a subrange of the specified 'UByte' [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random UBytes. */

/**
 * Fills a subrange of the specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random UBytes.
 *
 * @return [array] with the subrange filled with random bytes.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
internal fun Random.nextUBytes(array: UByteArray, fromIndex: Int = 0, toIndex: Int = array.size): UByteArray = nextBytes(array.asByteArray(), fromIndex, toIndex)

@ExperimentalUnsignedTypes
internal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until > from) { boundsErrorMessage(from, until) }
@ExperimentalUnsignedTypes
internal fun checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from, until) }

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("RangesKt")

package kotlin.ranges

/**
 * Represents a range of [Comparable] values.
 */
private open class ComparableRange<T : Comparable<T>>(
    override val start: T,
    override val endInclusive: T
) : ClosedRange<T> {

    override fun equals(other: Any?): Boolean {
        return other is ComparableRange<*> && (isEmpty() && other.isEmpty() ||
                start == other.start && endInclusive == other.endInclusive)
    }

    override fun hashCode(): Int = if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()

    override fun toString(): String = "$start..$endInclusive"
}

/**
 * Creates a range from this [Comparable] value to the specified [that] value.
 * This value needs to be smaller than [that] value, otherwise the returned range will be empty.
 */
public operator fun <T : Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)

/**
 * Represents a range of floating point numbers.
 * Extends [ClosedRange] interface providing custom operation [lessThanOrEquals] for comparing values of range domain type.
 */
@SinceKotlin("1.1")
public interface ClosedFloatingPointRange<T : Comparable<T>> : ClosedRange<T> {
    override fun contains(value: T): Boolean = lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)
    override fun isEmpty(): Boolean = !lessThanOrEquals(start, endInclusive)

    /**
     * Compares two values of range domain type and returns true if first is less than or equal to second.
     */
    fun lessThanOrEquals(a: T, b: T): Boolean = lessThanOrEquals(a, b)

    @kotlin.jvm.JvmStatic
    fun lessThanOrEquals(value: T, inclusive: T): Boolean = value < inclusive || value == inclusive
}

/**
 * A closed range of values of type `Double`.
 */
private class ClosedDoubleRange(
    start: Double,
    endInclusive: Double
) : ClosedDoubleRange(start, endInclusive) /* * Represents a range of floating point numbers. This value needs to be smaller than [that] value, otherwise the returned range will be empty. */

fun ClosedDoubleRange.contains(value: Double): Boolean = lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)

fun ClosedDoubleRange.isEmpty(): Boolean = !lessThanOrEquals(start, endInclusive)

fun ClosedDoubleRange.lessThanOrEquals(a: Double, b: Double): Boolean = a < b || a == b

ClosedFloatingPointRange<Double> {\n    private val _start = start\n    private val _endInclusive = endInclusive\n    override val start: Double get() = _start\n    override val endInclusive: Double get() = _endInclusive\n    override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b\n    override fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive\n    override fun isEmpty(): Boolean = !_start <= _endInclusive\n    override fun equals(other: Any?): Boolean {
        return other is ClosedDoubleRange && (isEmpty() &&
                _start == other._start && _endInclusive == other._endInclusive)\n    }\n    override fun hashCode(): Int {
        return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n    }\n    override fun toString(): String = "$_start..$_endInclusive"
}

/**
 * Creates a range from this [Double] value to the specified [that] value.
 * Numbers are compared with the ends of this range according to IEEE-754.
 * @sample samples.ranges.Ranges.rangeFromDouble
 */
@SinceKotlin("1.1")
public operator fun Double.rangeTo(that: Double): ClosedDoubleRange<Double> = ClosedDoubleRange(this, that)\n
/**
 * Returns `true` if this iterable range contains the specified [element].
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
    element != null && contains(element)

internal fun checkStepIsPositive(isPositive: Boolean, step: Number) {
    if (!isPositive)
        throw IllegalArgumentException("Step must be positive, was: $step.")
}

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 */

@file:kotlin.jvm.JvmName("KClasses")
@file:Suppress("UNCHECKED_CAST")

package kotlin.reflect

import kotlin.jvm.JvmField
import kotlin.jvm.JvmStatic

/**
 * Represents
a type projection. Type projection is usually the argument to another type in a type usage. For example, in the type `Array<out Number>` , `out Number` is the covariant projection of the type represented by the class `Number`.

Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.

* The use-site variance specified in the projection, or `null` if this is a star projection.

* public val var: KClass

Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.

* `out Number` is the covariant projection of the type represented by the class `Number`.

* Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.

* The use-site variance specified in the projection, or `null` if this is a star projection.

* public val type: KType

Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.

* `out Number` is the covariant projection of the type represented by the class `Number`.

* Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.

* The use-site variance specified in the projection, or `null` if this is a star projection.

* public val type: KType

Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.

* `out Number` is the covariant projection of the type represented by the class `Number`.

* Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.

* The use-site variance specified in the projection, or `null` if this is a star projection.

* public val type: KType

Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.

* `out Number` is the covariant projection of the type represented by the class `Number`.
fun append(value: Char): Appendable

    /**
     * Appends the specified character sequence [value] to this Appendable and returns this instance.
     * @param value the character sequence to append.
     */
    fun append(value: CharSequence?): Appendable

    /**
     * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.
     * @param startIndex the beginning (inclusive) of the subsequence to append.
     * @param endIndex the end (exclusive) of the subsequence to append.
     */
    fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable

    // ...
package kotlin.text

/**
 * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes
 * the first and the last lines if they are blank (notice difference blank vs empty).
 * Doesn't preserve the original line endings.
 * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is ' ' (pipe character).
 * @sample samples.text.Strings.trimMargin
 * @see trimIndent
 * @see kotlin.text.isWhitespace
 */
public fun String.trimMargin(marginPrefix: String = " "): String =
    replaceIndentByMargin(" ", marginPrefix)

/**
 * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].
 * Doesn't preserve the original line endings.
 * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is ' ' (pipe character).
 * @sample samples.text.Strings.trimIndent
 * @see trimMargin
 * @see kotlin.text.isBlank
 */
public fun String.trimIndent(): String = replaceIndent("")

/**
 * Detects a common minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].
 */
public fun String.replaceIndent(newIndent: String = " "): String {
    val lines = lines()

    val minCommonIndent = lines
        .filter(String::isNotBlank)
        .map(String::indentWidth)
        .minOrNull() ?: 0

    return lines.reindent(length + newIndent.length * lines.size,
        getIndentFunction(newIndent))
}

/**
 * Prepends [indent] to every line of the original string.
 * Doesn't preserve the original line endings.
 */
public fun String.prependIndent(indent: String = "    "): String =
    lineSequence()
        .map {
            when {
                it.isBlank() -> {
                    when {
                        it.length < indent.length -> indent
                        else -> it
                    }
                }
                else -> indent + it
            }
        }
        .joinToString("\n")

private fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }

private fun getIndentFunction(indent: String) = when {
    indent.isEmpty() -> { line: String -> line }
    else -> { line: String ->
        
        indent + line }
}

private inline fun List<String>.reindent(
    resultSizeEstimate: Int,
    indentAddFunction: (String) -> String,
    indentCutFunction: (String) -> String?
): String {
    val lastIndex = lastIndex
    return
        mapIndexedNotNull { index, value ->
            if ((index == 0 || index == lastIndex) && value.isBlank())
                null
            else
                indentCutFunction(value)?.let(indentAddFunction) ?: value
        }
        .joinTo(StringBuilder(resultSizeEstimate), "\n")
        .toString()
/*
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 */

package kotlin.text

/**
 * Represents a collection of captured groups in a single match of a regular
 * expression.
 * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the
 * regular expression.
 * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the
 * entire match.
 */
public interface MatchGroupCollection : Collection<MatchGroup> {

    /** Returns a group with the specified [index].
     * @return An instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.
     * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
     */
    public operator fun get(index: Int): MatchGroup?
}

/**
 * Extends [MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.
 */
@SinceKotlin("1.1")
public interface MatchNamedGroupCollection : MatchGroupCollection {
    /**
     * Returns a named group with the specified [name].
     * @return An instance of [MatchGroup] if the group with the specified [name] was matched or `null` otherwise.
     * @throws IllegalArgumentException if there is no group
     * with the specified [name] defined in the regex pattern.
     * @throws UnsupportedOperationException if getting
     * named groups isn't supported on the current platform.
     */
    public operator fun get(name: String): MatchGroup?
}

/**
 * Represents the results from a single regular expression match.
 */
public interface MatchResult {
    /** The range of indices in the original string where match was captured. */
    public val range: IntRange
    /** The substring from the input string captured by this match. */
    public val value: String
    /** A collection of groups matched by the regular expression.
     * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
     * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
     */
    public val groups: MatchGroupCollection
    /** A list of matched indexed group values.
     * This list has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.
     * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
     */
    public val groupValues: List<MatchResult>
[groupValues] is an empty string.

* @sample samples.text.Regexps.matchDestructuringToGroupValues

* An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment of group values.

* component1 corresponds to the value of the first group, component2 u2014 of the second, and so on.

* component1 corresponds to the value of the first group, component2 u2014 of the second, and so on.

* If the group in the regular expression is optional and there were no match captured by that group, corresponding component value is an empty string.

* Returns destructured group values as a list of strings.

* The duration equal to exactly 0 seconds.

* The duration whose value is positive infinity. It is useful for representing timeouts that should never expire.

* Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit].

* public function convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double =

* Returns the negative of this value.

* Returns a
duration whose value is the difference between this and [other] duration values. */

operator fun minus(other: Duration): Duration = Duration(value - other.value)

/** Returns a duration whose value is this duration value multiplied by the given [scale] number. */

operator fun times(scale: Int): Duration = Duration(value * scale)

/** Returns a duration whose value is this duration value multiplied by the given [scale] number. */

operator fun times(scale: Double): Duration = Duration(value * scale)

Returns a duration whose value is the result of this function.

* `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;
* `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;
* `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;
* `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;
* `days` represents the whole number of days in this duration;
* If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE], it is coerced into that range.

public fun isNegative(): Boolean = value < 0

/** Returns true, if the duration value is less than zero. */

public fun isPositive(): Boolean = value > 0

/** Returns true, if the duration value is greater than zero. */

public fun isInfinite(): Boolean = value.isInfinite()

/** Returns true, if the duration value is finite. */

public val absoluteValue: Duration get() = if (isNegative()) -this else this

override fun compareTo(other: Duration): Int = this.value.compareTo(other.value)

fun isFinite(): Boolean = value.isFinite()

/** Returns true, if the duration value is finite. */

fun isPositive(): Boolean = value > 0

/** Returns true, if the duration value is infinite. */

fun isNegative(): Boolean = value < 0

/** Returns true, if the duration value is greater than zero. */

fun isLessThanZero(): Boolean = value < 0

fun isGreaterThanZero(): Boolean = value > 0

fun isLessThanOrEqualToZero(): Boolean = value <= 0

fun isGreaterThanOrEqualToZero(): Boolean = value >= 0

fun isEqualToZero(): Boolean = value == 0

fun isNotEqualToZero(): Boolean = value != 0

fun isFinite(): Boolean = value.isFinite()

fun isInfinite(): Boolean = value.isInfinite()

fun isNegative(): Boolean = value < 0

fun isPositive(): Boolean = value > 0

fun isLessThanZero(): Boolean = value < 0

fun isGreaterThanZero(): Boolean = value > 0

fun isLessThanOrEqualToZero(): Boolean = value <= 0

fun isGreaterThanOrEqualToZero(): Boolean = value >= 0

fun isEqualToZero(): Boolean = value == 0

fun isNotEqualToZero(): Boolean = value != 0

fun isFinite(): Boolean = value.isFinite()

fun isInfinite(): Boolean = value.isInfinite()

fun isNegative(): Boolean = value < 0

fun isPositive(): Boolean = value > 0

fun isLessThanZero(): Boolean = value < 0

fun isGreaterThanZero(): Boolean = value > 0

fun isLessThanOrEqualToZero(): Boolean = value <= 0

fun isGreaterThanOrEqualToZero(): Boolean = value >= 0

fun isEqualToZero(): Boolean = value == 0

fun isNotEqualToZero(): Boolean = value != 0

fun isFinite(): Boolean = value.isFinite()

fun isInfinite(): Boolean = value.isInfinite()

fun isNegative(): Boolean = value < 0

fun isPositive(): Boolean = value > 0

fun isLessThanZero(): Boolean = value < 0

fun isGreaterThanZero(): Boolean = value > 0

fun isLessThanOrEqualToZero(): Boolean = value <= 0

fun isGreaterThanOrEqualToZero(): Boolean = value >= 0

fun isEqualToZero(): Boolean = value == 0

fun isNotEqualToZero(): Boolean = value != 0

fun isFinite(): Boolean = value.isFinite()

fun isInfinite(): Boolean = value.isInfinite()

fun isNegative(): Boolean = value < 0

fun isPositive(): Boolean = value > 0

fun isLessThanZero(): Boolean = value < 0

fun isGreaterThanZero(): Boolean = value > 0

fun isLessThanOrEqualToZero(): Boolean = value <= 0

fun isGreaterThanOrEqualToZero(): Boolean = value >= 0

fun isEqualToZero(): Boolean = value == 0

fun isNotEqualToZero(): Boolean = value != 0

fun isFinite(): Boolean = value.isFinite()

fun isInfinite(): Boolean = value.isInfinite()

fun isNegative(): Boolean = value < 0

fun isPositive(): Boolean = value > 0

fun isLessThanZero(): Boolean = value < 0

fun isGreaterThanZero(): Boolean = value > 0

fun isLessThanOrEqualToZero(): Boolean = value <= 0

fun isGreaterThanOrEqualToZero(): Boolean = value >= 0

fun isEqualToZero(): Boolean = value == 0

fun isNotEqualToZero(): Boolean = value != 0

fun isFinite(): Boolean = value.isFinite()

fun isInfinite(): Boolean = value.isInfinite()

fun isNegative(): Boolean = value < 0

fun isPositive(): Boolean = value > 0

fun isLessThanZero(): Boolean = value < 0

fun isGreaterThanZero(): Boolean = value > 0

fun isLessThanOrEqualToZero(): Boolean = value <= 0

fun isGreaterThanOrEqualToZero(): Boolean = value >= 0

fun isEqualToZero(): Boolean = value == 0

fun isNotEqualToZero(): Boolean = value != 0

fun isFinite(): Boolean = value.isFinite()
and its absolute value is less than 1_000_000_000; * - `seconds` represents the whole number of seconds in this duration.
    * If the value doesn't fit in `[Long]` range, i.e. it's greater than `[Long.MAX_VALUE]` or less than
    `[Long.MIN_VALUE];` * it is coerced into that range.
    */
    public inline fun <T> toComponents(action:
    (seconds: Long, nanoseconds: Int) -> T): T {
        contract { callsInPlace(action,
        InvocationKind.EXACTLY_ONCE) }
        return action(inSeconds.toLong(), nanosecondsComponent)
    }

    @PublishedApi
    internal val hoursComponent: Int get() = (inHours % 24).toInt()
    @PublishedApi
    internal val minutesComponent: Int get() = (inMinutes % 60).toInt()
    @PublishedApi
    internal val secondsComponent: Int get() = (inSeconds % 60).toInt()
    @PublishedApi
    internal val nanosecondsComponent: Int get() = (inNanoseconds % 1e9).toInt()

    // conversion to units

    /** Returns
     * the value of this duration expressed as a [Double] number of the specified [unit]. */
    public fun toDouble(unit: DurationUnit): Double = convertDurationUnit(value, storageUnit, unit)

    /**
     * Returns the value of this duration expressed as a [Long] number of the specified [unit].
     * If the value doesn't fit in the range of [Int] type, it is coerced into that range, see the conversion
     * [Double.toInt] for details. * /n
     */
    public fun toLong(unit: DurationUnit): Long = toDouble(unit).toLong()

    /**
     * Returns the value of this duration expressed as an [Int] number of the specified [unit].
     * If the value doesn't fit in the range of [Int] type, it is coerced into that range, see the conversion
     * [Double.toInt] for details. */
    public fun toInt(unit: DurationUnit): Int = toDouble(unit).toInt()

    /** The value of this duration expressed as a [Double] number of days. */
    public val inDays: Double get() = toDouble(DurationUnit.DAYS)

    /** The value of this duration expressed as a [Double] number of hours. */
    public val inHours: Double get() = toDouble(DurationUnit.HOURS)

    /** The value of this duration expressed as a [Double] number of minutes. */
    public val inMinutes: Double get() = toDouble(DurationUnit.MINUTES)

    /** The value of this duration expressed as a [Double] number of seconds. */
    public val inSeconds: Double get() = toDouble(DurationUnit.SECONDS)

    /** The value of this duration expressed as a [Double] number of milliseconds. */
    public val inMilliseconds: Double get() = toDouble(DurationUnit.MILLISECONDS)

    /** The value of this duration expressed as a [Double] number of microseconds. */
    public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)

    /** The value of this duration expressed as a [Double] number of nanoseconds. */
    public val inNanoseconds: Double get() = toDouble(DurationUnit.NANOSECONDS)

    // shortcuts

    /**
     * Returns the value of this duration expressed as a [Long] number of nanoseconds.
     */
    public fun toLongNanoseconds(): Long = toLong(DurationUnit.NANOSECONDS)

    /**
     * Returns the value of this duration expressed as a [Long] number of milliseconds.
     */
    public fun toLongMilliseconds(): Long = toLong(DurationUnit.MILLISECONDS)

    /**
     * Returns a string representation of this duration value expressed in the unit which yields the most compact and readable number value.
     * Special cases:
     * - zero duration is formatted as `"0s"` - the infinite duration
     * is formatted as `"Infinity"` without unit
     * - very small durations (less than 1e-15 s) are expressed in seconds and
     * formatted in scientific notation
     * - very big durations (more than 1e+7 days) are expressed in days and
     * formatted in scientific notation
     * @return the value of duration in the automatically determined unit
     */
    override fun toString(): String = when {
        isInfinite() -> value.toString()
        value == 0.0 -> "0s"
        else -> {
            val absNs = absoluteValue.inNanoseconds
            var scientific = false
            var maxDecimals = 0
            val unit = when {
                absNs < 1e-6 -> DurationUnit.SECONDS
                absNs < 1e9 -> DurationUnit.MILLISECONDS
                absNs < 1000e9 -> DurationUnit.SECONDS
                absNs < 60_000e9 -> DurationUnit.MINUTES
                else -> {
                    absNs < 1e3 -> DurationUnit.MILLISECONDS
                    absNs < 1e9 -> DurationUnit.SECONDS
                    absNs < 60_000e9 -> DurationUnit.MINUTES
                    absNs < 1e15 -> DurationUnit.DAYS
                    else -> DurationUnit.YEARS
                }
            }
            if (scientific) {
                var ns = absNs
                while (ns >= 1e6) {
                    ns /= 1e6
                    maxDecimals++
                }
                while (ns < 1e3) {
                    ns *= 1e3
                    maxDecimals--
                }
                var scientific = true
            }
            var valueString = when {
                absNs < 1e3 -> "${absNs} $unit"
                absNs < 1e6 -> "${absNs} $unit"
                absNs < 1e9 -> "${absNs} $unit"
                else -> "${absNs} $unit"
            }
            return if (scientific) {
                val scientificString = valueString
                if (maxDecimals == 7) {
                    scientificString
                } else {
                    scientificString
                }
            } else {
                valueString
            }
        }
    }
3600_000e9 -> DurationUnit.HOURS\n
absNs < 86400e9 * 1e7 -> DurationUnit.DAYS\n
DurationUnit.DAYS also { scientific = true }\n
val value = toDouble(unit) when {\n    scientific -> formatScientific(value)\n    maxDecimals > 0 -> formatUpToDecimals(value,\n        maxDecimals)\n    else -> formatToExactDecimals(value,\n        precision(abs(value)))\n} +\nunit.shortName()\nprivate fun precision(value: Double): Int = when {\n    value < 1e14 -> 3\n    value < 10 -> 2\n    value < 100 -> 1\n    else -> 0\n} \n/**\n * Returns a string representation of this duration value expressed in the given [unit] * \n special cases:* \n - the infinite duration is formatted as `"Infinity"` without unit\n * \n @throws IllegalArgumentException if [decimals] is less than zero. \n */\npublic fun toString(unit: DurationUnit, decimals: Int = 0): String {
    require(decimals >= 0) { "decimals must be not negative, but was $decimals" }

    if (isInfinite()) return value.toString() else return when {\n        value < 0 \n        value < 1e14 -> formatToExactDecimals(number, decimals, coerceAtMost(12)) \n        else -> formatScientific(number) \n    } + unit.shortName() \n
    /**\n     * Returns an ISO-8601 based string representation of this duration.\n     * The returned value is presented in the format `PThHmMs.fS`, where `h`, `m`, `s` are the integer components\n     * of this duration (see [toComponents]) and `T` is a fractional part of second. Depending on the roundness of the\n     * value the fractional part can be formatted with either
     * `0`, `3`, `6`, or `9` decimal digits.\n     * @param unit the unit for this duration\n     * @return the string representation\n     */\n    @OptIn(ExperimentalStdlibApi::class)
    fun toIsoString(): String = buildString {
        if (isNegative()) append('-')

        append("PT")

        absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->
            val hasHours = hours != 0
            val hasMinutes = minutes != 0 || (hasSeconds && hasHours)
            if (hasHours) {
                append(hours).append('H')
            }
            if (hasMinutes) {
                append(minutes).append('M')
            }
            if (hasSeconds || (!hasHours && !hasMinutes)) {
                append(seconds)
                if (nanoseconds != 0) {
                    append('.')
                    val nss = nanoseconds.toString().padStart(9, '0')
                    when {
                        nanoseconds % 1_000_000 == 0 -> appendRange(nss, 0, 3)
                        nanoseconds % 1_000 == 0 -> appendRange(nss, 0, 6)
                        else -> append(nss)\n                    }\n                }
                append('S')
            }
        }
    }

    /** Returns a [Duration] equal to this [Int] number of the specified [unit]. */\n    @SinceKotlin("1.3")\n    @ExperimentalTime
    public fun Int.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)\n
    /** Returns a [Duration] equal to this [Long] number of the specified [unit]. */\n    @SinceKotlin("1.3")\n    @ExperimentalTime
    public fun Long.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)\n
    /** Returns a [Duration] equal to this [Double] number of the specified [unit]. */\n    @SinceKotlin("1.3")\n    @ExperimentalTime
    public fun Double.toDuration(unit: DurationUnit): Duration = Duration(convertDurationUnit(this, unit, storageUnit))\n
    // constructing from number of units\n
    /** Returns a [Duration] equal to this [Int] number of nanoseconds. */\n    @SinceKotlin("1.3")\n    @ExperimentalTime
    public val Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n
    /** Returns a [Duration] equal to this [Long] number of nanoseconds. */\n    @SinceKotlin("1.3")\n    @ExperimentalTime
    public val Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n
    /** Returns a [Duration] equal to this [Double] number of nanoseconds. */\n    @SinceKotlin("1.3")\n    @ExperimentalTime
    public val Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n
    /** Returns a [Duration] equal to this [Int] number of microseconds. */\n    @SinceKotlin("1.3")\n    @ExperimentalTime
    public val Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n
    /** Returns a [Duration] equal to this [Long] number of microseconds. */\n    @SinceKotlin("1.3")\n    @ExperimentalTime
    public val Long.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n/** Returns a [Duration] equal to this [Double] number of microseconds. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.microseconds get() =\ntoDuration(DurationUnit.MICROSECONDS)\n/** Returns a [Duration] equal to this [Int] number of milliseconds. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.milliseconds get() =\ntoDuration(DurationUnit.MILLISECONDS)\n/** Returns a [Duration] equal to this [Long] number of milliseconds. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.milliseconds get() =\ntoDuration(DurationUnit.MILLISECONDS)\n/** Returns a [Duration] equal to this [Double] number of milliseconds. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.milliseconds get() =\ntoDuration(DurationUnit.MILLISECONDS)\n/** Returns a [Duration] equal to this [Int] number of seconds. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.seconds get() =\ntoDuration(DurationUnit.SECONDS)\n/** Returns a [Duration] equal to this [Long] number of seconds. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.seconds get() =\ntoDuration(DurationUnit.SECONDS)\n/** Returns a [Duration] equal to this [Double] number of seconds. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.seconds get() =\ntoDuration(DurationUnit.SECONDS)\n/** Returns a [Duration] equal to this [Int] number of minutes. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.minutes get() =\ntoDuration(DurationUnit.MINUTES)\n/** Returns a [Duration] equal to this [Long] number of minutes. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.minutes get() =\ntoDuration(DurationUnit.MINUTES)\n/** Returns a [Duration] equal to this [Double] number of minutes. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.minutes get() =\ntoDuration(DurationUnit.MINUTES)\n/** Returns a [Duration] equal to this [Int] number of hours. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.hours get() =\ntoDuration(DurationUnit.HOURS)\n/** Returns a [Duration] equal to this [Long] number of hours. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.hours get() =\ntoDuration(DurationUnit.HOURS)\n/** Returns a [Duration] equal to this [Double] number of hours. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.hours get() =\ntoDuration(DurationUnit.HOURS)\n/** Returns a [Duration] equal to this [Int] number of days. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.days get() =\ntoDuration(DurationUnit.DAYS)\n/** Returns a [Duration] equal to this [Long] number of days. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.days get() =\ntoDuration(DurationUnit.DAYS)\n/** Returns a [Duration] equal to this [Double] number of days. */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.days get() =\ntoDuration(DurationUnit.DAYS)\n\n/** Returns a duration whose value is the specified [duration] value multiplied by this number. */\n@SinceKotlin("1.3")\n@ExperimentalTime\n@inline\n\n/** Returns a duration whose value is the specified [duration] value multiplied by this number. */\n@SinceKotlin("1.3")\n@ExperimentalTime\n@kotlin.internal.InlineOnly\n\ninternal expect fun \nformatToExactDecimals(value: Double, decimals: Int): String\n\ninternal expect fun \nformatUpToDecimals(value: Double, decimals: Int): String\n\ninternal expect fun \nformatScientific(value: Double): String\n/*
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 *\n *@file: kotlin.jvm.JvmMultifileClass(/)@file:kotlin.jvm.JvmName("DurationUnitKt")\n\npackage \n\nkotlin.time\n\n***n * The list of possible time measurement units, in which a duration can be expressed.\n*\n* The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24 [HOURS].\n*\n* Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n*\n* Time unit representing one microsecond, which is 1/1000 of a millisecond.
MICROSECONDS, /* Time unit representing one millisecond, which is 1/1000 of a second. */
MILLISECONDS, /* Time unit representing one second. */
SECONDS, /* Time unit representing one minute. */
MINUTES, /* Time unit representing one hour. */
HOURS, /* Time unit representing one day, which is always equal to 24 hours. */
DAYS;
}

/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. */
@SinceKotlin("1.3")
@ExperimentalTime
internal expect fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit):

@SinceKotlin("1.3")
@ExperimentalTime
internal fun DurationUnit.shortName(): String = when (this) {
    DurationUnit.NANOSECONDS -> "ns"
    DurationUnit.MICROSECONDS -> "\u00b5s"
    DurationUnit.MILLISECONDS -> "\ms"
    DurationUnit.SECONDS -> "\s"
    DurationUnit.MINUTES -> "\n"
    DurationUnit.HOURS -> "\n"
    DurationUnit.DAYS -> "\n"
} /* Copyright 2010-2019
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* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. */

package kotlin.time

import kotlin.annotation.AnnotationTarget.*

/**
 * This annotation marks the experimental preview of the standard library API for measuring time and working with durations.
 *
 * > Note that this API is in a preview state and has a very high chance of being changed in the future. * Do not use it if you develop a library since your library will become binary incompatible * with the future versions of the standard library. * Any usage of a declaration annotated with `@ExperimentalTime` must be accepted either by \n * naming that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTime::class)` or by using the compiler argument `-Xopt-in=kotlin.time.ExperimentalTime`. * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. */

package kotlin.time

/**
 * A source of time for measuring time intervals.
 *
 * The only operation provided by the time source is `markNow()`. It returns a `TimeMark`, which can be used to query the elapsed time later.
 *
 * This time source returns its readings from a source of monotonic time when it is available in a target platform, and resorts to a non-monotonic time source otherwise.
 *
 * public fun markNow(): TimeMark
 */

/**
 * Represents a time point notched on a particular `TimeSource`.
 *
 * Marks a point in time on this time source. * The returned `[TimeMark]` instance encapsulates the captured time point and allows querying * the duration of time interval [elapsed] from that point.
 *
 * public fun markNow(): TimeMark
 */

/**
 * Represents a time point noted on a particular `TimeSource`.
 *
 * Returns the amount of time passed from this mark measured with the time source from which this mark was taken.
 *
 * Note that the value returned by this function can change on subsequent invocations.
 */

/**
 * Returns a time mark on the same time source that is ahead of this time mark by the specified [duration]. * The returned time mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.
 */

/**
 * Returns a time mark on the same time source that is behind this time mark by the specified [duration]. * The returned time mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is
public open operator fun minus(duration: Duration): TimeMark = plus(-duration)

/**
 * Returns true if this time mark has passed according to the time source from which this mark was taken.
 * If the time source is monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point of the time source.
 * Returns false if this time mark has not passed according to the time source from which this mark was taken.
 * If the time source is monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point of the time source.
 */
public open operator fun hasPassedNow(): Boolean = !elapsedNow().isNegative()

/**
 * Returns true if this time mark has passed according to the time source from which this mark was taken.
 * If the time source is monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point of the time source.
 * Returns false if this time mark has not passed according to the time source from which this mark was taken.
 * If the time source is monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point of the time source.
 */
public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()

@ExperimentalTime
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Deprecated("Subtracting one TimeMark from another is not a well defined operation because these time marks could have been obtained from the different time sources.", level = DeprecationLevel.ERROR)
@Suppress("UNUSED_PARAMETER")
public inline operator fun TimeMark.minus(other: TimeMark): Duration = throw Error("Operation is disallowed.")

@ExperimentalTime
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Deprecated("Comparing one TimeMark to another is not a well defined operation because these time marks could have been obtained from the different time sources.", level = DeprecationLevel.ERROR)
@Suppress("UNUSED_PARAMETER")
public inline operator fun TimeMark.compareTo(other: TimeMark): Int = throw Error("Operation is disallowed.")

@ExperimentalTime
private class AdjustedTimeMark(val mark: TimeMark, val adjustment: Duration) : TimeMark() {
    override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment
    override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)
}

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use TimeSource interface instead.", ReplaceWith("TimeSource", "kotlin.time.TimeSource"), DeprecationLevel.ERROR)
public typealias Clock = TimeSource

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use TimeMark class instead.", ReplaceWith("TimeMark", "kotlin.time.TimeMark"), DeprecationLevel.ERROR)
public typealias ClockMark = TimeMark

DoubleTimeMark(startedAt, timeSource, offset + duration)

override fun markNow(): TimeMark = DoubleTimeMark(read(), this, Duration.ZERO)

/**
 * A time source that has programmatically updatable readings. It is useful as a predictable source of time in tests.
 * The current reading value can be advanced by the specified duration amount with the operator [plusAssign]:
 * timeSource += 10.seconds
 * Implementation note: the current reading value is stored as a [Long] number of nanoseconds, thus it's capable to represent a time range of approximately 100b1292 years.
 * Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown.
 * DoubleTimeMark reads the time source value from the specified time source, advances it by the given duration, and returns the new time source value.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public class TestTimeSource : AbstractDoubleTimeSource(unit = DurationUnit.NANOSECONDS) {
    private var reading: Long = 0L

    override fun read(): Long = reading

    /**
     * Advances the current reading value of this time source by the specified [duration].
     * The current reading value is rounded down towards zero when converting it to a [Long] number of nanoseconds.
     * For example, if the duration being added is `0.6.nanoseconds`, the reading doesn't advance because the duration value is rounded to zero nanoseconds.
     * @throws IllegalStateException when the reading value overflows as the result of this operation.
     */
    public operator fun plusAssign(duration: Duration) {
        val delta = duration.toDouble(unit)
        val longDelta = delta.toLong()
        reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {
            // when delta fits in long, add it as long
            val newReading = reading + longDelta
            if (reading xor longDelta >= 0 && reading xor newReading < 0)
                overflow(duration) newReading
        } else {
            // when delta is greater than long, add it as double
            val newReading = reading + delta
            if (newReading > Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)
            newReading.toLong()
        }
    }

    private fun overflow(duration: Duration) {
        throw IllegalStateException("TestTimeSource will overflow if its reading is advanced by $duration.")
    }
}

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use TimeSource.Monotonic instead.", ReplaceWith("TimeSource.Monotonic", "kotlin.time.TimeSource"), DeprecationLevel.ERROR)
public typealias MonoClock = TimeSource.Monotonic

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use AbstractLongTimeSource instead.", ReplaceWith("AbstractLongTimeSource", "kotlin.time.AbstractLongTimeSource"), DeprecationLevel.ERROR)
public typealias AbstractLongClock = AbstractLongTimeSource

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use AbstractDoubleTimeSource instead.", ReplaceWith("AbstractDoubleTimeSource", "kotlin.time.AbstractDoubleTimeSource"), DeprecationLevel.ERROR)
public typealias AbstractDoubleClock = AbstractDoubleTimeSource

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use TestTimeSource instead.", ReplaceWith("TestTimeSource", "kotlin.time.TestTimeSource"), DeprecationLevel.ERROR)
public typealias TestClock = TestTimeSource

package kotlin.time

import kotlin.contracts.*

/**
 * Data class representing a result of executing an action along with the duration of elapsed time.
 * @property value the result of the action.
 * @property duration the time elapsed to execute the action.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public data class TimedValue<T>(val value: T, val duration: Duration)
```kotlin
/**
 * Executes the given function [block] and returns an instance of [TimedValue] class, containing
 * both * the result of the function execution and the duration of elapsed time interval.
 * * * * The elapsed time is measured with [TimeSource.Monotonic].
 * *
 * measureTimedValue(block: () -> T): TimedValue<T> { in contract 'in callsInPlace(block,
 * InvocationKind.EXACTLY_ONCE) in ' in return
 * TimeSource.Monotonic.measureTimedValue(block)}
 */

/**
 * Executes the given [block] and returns an instance of [TimedValue] class, containing both * the result of function execution and the duration of elapsed time interval.
 * * * * The elapsed time is measured with the specified `this` [TimeSource] instance.
 * *
 * measureTimedValue(block: () -> T): TimedValue<T> { in contract 'in callsInPlace(block, InvocationKind.EXACTLY_ONCE) in ' in return
 * val mark = markNow(); value = block(); return TimedValue(result, mark.elapsedNow());}
 */

package kotlin

import kotlin.coroutines.*
import kotlin.coroutines.intrinsics.*

/**
 * Defines deep recursive function that keeps its stack on the heap, * which allows very deep recursive computations that do not use the actual call stack. * * To initiate a call to this deep recursive function use its [invoke] function.
 * * As a rule of thumb, it should be used if recursion goes deeper than a thousand calls.
 * * * * The [DeepRecursiveFunction] takes one parameter of type [T] and returns a result of type [R].
 * * * The [block] of code defines the body of a recursive function. In this block * * [callRecursive] can be used to make a recursive call * to the declared function. Other instances of [DeepRecursiveFunction] can be called in this scope with * `callRecursive` extension, too.
 * * * * For example, take a look at the following recursive tree class and a deeply * recursive instance of this tree with 100K nodes:
 * * * * Class Tree(val left: Tree? = null, val right: Tree? = null) val deepTree = generateSequence(Tree()) { Tree(it) }.take(100_000).last()
 * * * * The `depth` function is called for a `deepTree` it produces `StackOverflowError` because of deep recursion.
 * * * * However, the `depth` function can be rewritten using `DeepRecursiveFunction` in the following way, and then it * successfully computes `depth(deepTree)` expression.
 * * * * `fun depth(t: Tree?): Int =
 * * * * if (t == null) 0 else max(depth(t.left), depth(t.right)) + 1
 * * * * println(depth(deepTree)) // Ok
 * * * * Deep recursive functions can also mutually call each other using a heap for the stack via * callRecursive extension. For example, the following pair of mutually recursive functions computes the number of tree nodes at even depth in the tree:
 * * * * `val odd: DeepRecursiveFunction<Tree, Int> = DeepRecursiveFunction { t ->
 * * * * if (t == null) 0 else odd.callRecursive(t.left) + odd.callRecursive(t.right) + 1
 * * * * println(depth(deepTree)) // Ok
 * * * * `val even: DeepRecursiveFunction<Tree, Int> = DeepRecursiveFunction { t ->
 * * * * if (t == null) 0 else even.callRecursive(t.left) + even.callRecursive(t.right) + 1
 * * * * println(depth(deepTree)) // Ok
 * * * * `fun even_odd(t: Tree?): Int =
 * * * * if (t == null) 0 else even(t) + odd(t)
 */
```

---

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@RestrictsSuspension
@SinceKotlin("1.4")
@ExperimentalStdlibApi
public sealed class DeepRecursiveScope<T, R> {
    /**
     * Makes recursive call to this [DeepRecursiveFunction] function putting the call activation frame on the heap, as opposed to the actual call stack that is used by a regular recursive call.
     */
    public abstract suspend fun callRecursive(value: T): R

    /**
     * Makes call to the specified [DeepRecursiveFunction] function putting the call activation frame on the heap, as opposed to the actual call stack that is used by a regular call.
     */

    @Deprecated(
        level = DeprecationLevel.ERROR,
        message = "'invoke' should not be called from DeepRecursiveScope. Use 'callRecursive' to do recursion in the heap instead of the call stack."
    )

    @Suppress("UNUSED_PARAMETER")
    public operator fun Any?.invoke(value: Any?): Nothing = throw UnsupportedOperationException("Should not be called from DeepRecursiveScope")
}

// ================== Implementation

@ExperimentalStdlibApi
private typealias DeepRecursiveFunctionBlock = suspend DeepRecursiveScope<*, *>.(Any?) -> Any?

private val UNDEFINED_RESULT = Result.success(COROUTINE_SUSPENDED)

@Suppress("UNCHECKED_CAST")
@ExperimentalStdlibApi
private class DeepRecursiveScopeImpl<T, R>(
    block: suspend DeepRecursiveScope<T, R>.(T) -> R,
    value: T
) : DeepRecursiveScope<T, R>(), Continuation<R> {
    // Active function block
    private var function: DeepRecursiveFunctionBlock = block as DeepRecursiveFunctionBlock

    // Value to call function with
    private var value: Any? = value

    // Continuation of the current call
    private var cont: Continuation<Any?>? = this as Continuation<Any?>

    // Completion result (completion of the whole call stack)
    private var result: Result<Any?> = UNDEFINED_RESULT

    override val context: CoroutineContext
        get() = EmptyCoroutineContext

    override fun resumeWith(result: Result<R>) {
        this.cont = null
        this.result = result
    }

    override suspend fun callRecursive(value: T): R =
        suspendCoroutineUninterceptedOrReturn { cont ->
            this.cont = cont as Continuation<Any?>
            this.value = value
            COROUTINE_SUSPENDED
        }

        suspendCoroutineUninterceptedOrReturn { cont ->
            // calling another recursive function
            val function = block as DeepRecursiveFunctionBlock
            with(this@DeepRecursiveScopeImpl) {
                val currentFunction = this.function
                if (function !== currentFunction) {
                    // calling a different function -- create a trampoline to restore function ref in this.function
                    this.function = function
                    this.cont = crossFunctionCompletion(currentFunction, cont as Continuation<Any?>)
                } else {
                    // calling the same function -- direct
                    this.cont = cont as Continuation<Any?>
                    this.value = value
                }
            }
            COROUTINE_SUSPENDED
        }

    private fun crossFunctionCompletion(
        currentFunction: DeepRecursiveFunctionBlock,
        cont: Continuation<Any?>
    ): Continuation<Any?> =
        Continuation(EmptyCoroutineContext) {
            this.function = currentFunction
            // When going back from a trampoline we cannot just call cont.resume (stack usage)!
            // We delegate the cont.resumeWith(it) call to runCallLoop
            this.cont = cont
            this.result = it
        }

    fun runCallLoop(): R {
        while (true) {
            val result = this.result
            val cont = this.cont
            // The order of comparison is important here for that case of rogue class with broken equals
            if (UNDEFINED_RESULT == result) {
                // call "function" with "value" using "cont" as completion
                val r = try {
                    // block.startCoroutine(this.value, cont)
                    val result = cont.resume(result)
                } catch (e: Throwable) {
                    cont.resumeWithException(e)
                    continue
                }
                return (result as Result<R>).getOrThrow()
            }
            // If the function returns without suspension -- calls its continuation immediately
            if (r != COROUTINE_SUSPENDED) {
                cont.resume(r as R)
            } else {
                // we returned from a crossFunctionCompletion trampoline -- call resume here
                this.result = UNDEFINED_RESULT
            }
        }
    }

    companion object {
        /*
         * Copyright 2010-2018
         */
    }
}
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```kotlin
/**
 * Returns a hash code value for the object or zero if the object is `null`.
 *
 * @see Any.hashCode
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun Any?.hashCode(): Int = this?.hashCode() ?: 0
```

```kotlin
    private val version = versionOf(major, minor, patch)

    private fun versionOf(major: Int, minor: Int, patch: Int): Int {
        require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {
            "Version components are out of range: $major.$minor.$patch"
        }
        return major shl 16 + minor shl 8 + patch
    }

    override fun toString(): String = "$major.$minor.$patch"

    override fun equals(other: Any?): Boolean {
        if (this === other) return true
        val otherVersion = (other as? KotlinVersion) ?: return false
        return this.version == otherVersion.version
    }

    override fun compareTo(other: KotlinVersion): Int = version - other.version

    /**
     * Returns `true` if this version is not less than the version specified
     * with the provided [major] and [minor] components.
     */
    public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)
        this.major > major || (this.major == major &&
                this.minor >= minor)

    /**
     * Returns `true` if this version is not less than the version specified
     * with the provided [major], [minor] and [patch] components.
     */
    public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor, patch)
        this.major > major || (this.major == major &&
                (this.minor > minor || this.minor == minor
                        &&
                        this.patch >= patch))

    companion object {
        /**
         * Maximum value a version component can have, a constant value 255.
         */
        public const val MAX_COMPONENT_VALUE = 255

        /**
         * Returns the current version of the Kotlin standard library.
         */
        @kotlin.jvm.JvmField
        public val CURRENT: KotlinVersion = KotlinVersion(1, 4, 10) // value is written here automatically during build
    }
}
```

```kotlin
@file:kotlin.jvm.JvmName("LateinitKt")
@file:Suppress("unused")

package kotlin

import kotlin.internal.InlineOnly
import kotlin.internal.AccessibleLateinitPropertyLiteral
import kotlin.reflect.KProperty0

/**
 * Returns `true` if this lateinit property has been assigned a value, and `false`
 * otherwise.
 *
 * Cannot be used in an inline function, to avoid binary compatibility issues.
 */
@SinceKotlin("1.2")
public override fun toString(): String = "$major.$minor.$patch"
```

```kotlin
public interface Lazy<out T> {
    /**
     * Gets the lazily initialized value of the current Lazy instance.
     * Once the value was initialized it must not change during the rest of lifetime of this
     * Lazy instance.
     */
    public val value: T

    /**
     * Returns `true` if a value for this Lazy instance has been already initialized, and `false`
     * otherwise.
     */
    public fun isInitialized: Boolean { get() = throw NotImplementedError("Implementation is
     * intrinsic")
```

```kotlin
public fun atLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)
```

```kotlin
/**
 * Represents a value with lazy initialization.
 */
@receiver:AccessibleLateinitPropertyLiteral
public interface Lazy<T> {
    /**
     * Gets the lazily initialized value of the current Lazy instance.
     */
    public val value: T

    /**
     * Returns `true` if a value for this Lazy instance has been already initialized, and `false`
     * otherwise.
     */
    public fun isInitialized: Boolean { get() = throw NotImplementedError("Implementation is
     * intrinsic")
```

```kotlin
public class Lazy<T> {
    private var value: T? = null

    public val value: T get() = require(!value.isInitialized) {
        // Lazy instance has not been initialized yet.
        throw IllegalStateException("Lazy instance has not been initialized");
    }
/*
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 * license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("NumbersKt")
package kotlin

/**
 * Counts the number of set bits in the binary representation of this [Int] number.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.countOneBits(): Int

/**
 * Counts the number of consecutive most significant bits that are zero in the binary
 * representation of this [Int] number.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.countLeadingZeroBits(): Int

/**
 * Counts the number of consecutive least significant bits that are zero in the binary
 * representation of this [Int] number.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.countTrailingZeroBits(): Int

/**
 * Returns a number having a single bit set in the position of the most significant
 * bit of this [Int] number, or zero, if this number is zero.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.takeHighestOneBit(): Int

/**
 * Returns a number having a single bit set in the position of the least significant
 * bit of this [Int] number, or zero, if this number is zero.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.takeLowestOneBit(): Int

/**
 * Rotates the binary representation of this [Int] number left by the specified
 * number of bits.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.rotateLeft(bitCount: Int): Int

/**
 * Rotates the binary representation of this [Int] number right by the specified
 * number of bits.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.rotateRight(bitCount: Int): Int

/**
 * Rotates the binary representation of this [Int] number left by the specified
 * number of bits.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun Int.rotateLeft2(bitCount: Int): Int

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as the most significant bits on the left side.\n*\n* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n* number.rotateRight(-n) == number.rotateLeft(n)\n* Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n* number.rotateRight(n % 32)\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Int.rotateRight(bitCount: Int): Int\n
@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countOneBits(): Int\n
@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countLeadingZeroBits(): Int\n
@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countTrailingZeroBits(): Int\n
@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.takeHighestOneBit(): Long\n
@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.takeLowestOneBit(): Long\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.rotateLeft(bitCount: Int): Long\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.rotateRight(bitCount: Int): Long\n
@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\n
@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)\n
@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\n
@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\n
@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeLowestOneBit(): Byte = (toInt() and 0xFF).takeLowestOneBit().toByte()
c inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte() /*
 * Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.
 * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.
 * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:
 * number.rotateLeft(-n) == number.rotateRight(n) /*
 * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally:
 * number.rotateLeft(n) == number.rotateLeft(n % 8) /*
 */

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// Auto-generated file. DO NOT EDIT!

package kotlin.ranges

import kotlin.internal.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public class UIntRange(start: UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRangeUInt { 

override fun contains(value: UInt): Boolean = first <= value && value <= last

override fun equals(other: Any?): Boolean = other is UIntRange && (isEmpty() && other.isEmpty() || first == other.first && last == other.last)

override fun hashCode(): Int = if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())

override fun toString(): String = "$first..$last"

companion object {
    /** An empty range of values of type UInt. */

    public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)
}

/**
 * A progression of values of type `UInt`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public class UIntProgression
internal constructor(
    start: UInt,
    endInclusive: UInt,
    step: Int
) : IterableUInt{

init {
    if (step == 0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.")
    if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on negation.")

    override fun contains(value: UInt): Boolean = first <= value && value <= last
    override fun equals(other: Any?): Boolean = other is UIntProgression && (isEmpty() && other.isEmpty() || first == other.first && last == other.last)

    companion object {
        /** An empty range of values of type `UInt`. */

        public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)
    }
}

override fun toString(): String = "$first..$last"

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public class UIntProgression
internal constructor(
    start: UInt,
    endInclusive: UInt,
    step: Int
) : IterableUInt{

init {
    if (step == 0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.")
    if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on negation.")

    override fun contains(value: UInt): Boolean = first <= value && value <= last
    override fun equals(other: Any?): Boolean = other is UIntProgression && (isEmpty() && other.isEmpty() || first == other.first && last == other.last)

    companion object {
        /** An empty range of values of type `UInt`. */

        public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)
    }
}
Checks if the progression is empty. 

```
    override fun isEmpty(): Boolean = if (step > 0) first > last else first < last
```

*An override fun equals(other: Any?): Boolean =* 

```
    override fun equals(other: Any?): Boolean =
        other is UIntProgression && (isEmpty() && other.isEmpty() ||
                first == other.first && last == other.last && step == other.step)
```

*An override fun hashCode(): Int =*

```
    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())
```

*An override fun toString(): String =*

```
    override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}" the
```

*companion object {

```
        /**
         * Checks if the progression starts with the [rangeStart] value and goes through the range to the
         */
        public open fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step, endInclusive, value = next if (value >= finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
```

*An override of a progression of values of type `UInt`. *@property step the number by which the value is incremented on each step.*

```
    override fun iterator(): UIntIterator = UIntProgressionIterator(first, last, step)
```

*An iterator over a sequence of values of type `UByte`.*

```
    public abstract fun nextUByte(): UByte
```

*An iterator over a sequence of values of type `UShort`.*

```
    public abstract fun nextUShort(): UShort
```

*An iterator over a sequence of values of type `UInt`.*

```
    public abstract fun nextUInt(): UInt
```

*An iterator over a sequence of values of type `ULong`.*

```
    public abstract fun nextULong(): ULong
```

*An empty range of values of type `UInt`.*

```
    companion object {
        /**
         * An empty range of values of type `ULong`. */
        public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE, ULong.MIN_VALUE)
    }
```

*An open class **ULongProgressionIterator(first: UInt, last: UInt, step: Int): UIntProgressionIterator()**

```
    companion object {
```
Iterable<ULong> {\n    init {\n        if (step == 0.toLong()) throw kotlin.IllegalArgumentException("Step must be non-zero.")\n        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Long.MIN_VALUE to avoid overflow on negation.")\n    }\n
    /**\n     * The first element in the progression.\n     */\n    public val first: ULong = start\n
    /**\n     * The last element in the progression.\n     */\n    public val last: ULong = getProgressionLastElement(start, endInclusive, step)\n
    /**\n     * The step of the progression.\n     */\n    public val step: Long = step\n
    override fun iterator(): ULongIterator = ULongProgressionIterator(first, last, step)\n
    /** Checks if the progression is empty. */\n    public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n
    override fun equals(other: Any?): Boolean = other is ULongProgression && (isEmpty() && other.isEmpty() || first == other.first && last == other.last && &step == other.step)\n
    override fun hashCode(): Int = (31 * (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())\n
    override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"

    companion object {\n        /**\n         * Creates ULongProgression within the specified bounds of a closed range.\n         * The progression starts with the \[rangeStart\] value and goes toward the \[rangeEnd\] value not excluding it, with the specified \[step\].\n         * In order to go backwards the \[step\] must be negative.\n         */\n        public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)\n
        /*
         * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n         * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n         */

        package kotlin.math\n
        /**\n         * Returns the smaller of two values.\n         */\n        @SinceKotlin("1.3")\n        @ExperimentalUnsignedTypes\n        @kotlin.internal.InlineOnly\n        public inline fun min(a: UInt, b: UInt): UInt {\n            return minOf(a, b)\n        }\n
        /**\n         * Returns the greater of two values.\n         */\n        @SinceKotlin("1.3")\n        @ExperimentalUnsignedTypes\n        @kotlin.internal.InlineOnly\n        public inline fun max(a: UInt, b: UInt): UInt {\n            return maxOf(a, b)\n        }\n
        /**\n         * Counts the number of set bits in the binary representation of this [UInt] number.\n         */\n        @SinceKotlin("1.4")\n        @WasExperimental(ExperimentalStdlibApi::class)\n        @ExperimentalUnsignedTypes\n        @kotlin.internal.InlineOnly\n        public inline fun countOneBits(): Int = toInt().countOneBits()\n
        /**\n         * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UInt] number.\n         */\n        @SinceKotlin("1.4")\n        @WasExperimental(ExperimentalStdlibApi::class)\n        @ExperimentalUnsignedTypes\n        @kotlin.internal.InlineOnly\n        public inline fun countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()
toInt().countTrailingZeroBits()\n\n* Returns a number having a single bit set in the position of the most
significant set bit of this [ULong] number, \n* or zero, if this number is zero.\n
*\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun UInt.takeHighestOneBit(): UInt =
toInt().takeHighestOneBit().toUInt()\n
* Returns a number having a single bit set in the position of the least
significant set bit of this [UInt] number, \n* or zero, if this number is zero.\n
*\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun UInt.takeLowestOneBit(): UInt =
toInt().takeLowestOneBit().toUInt()\n
* Rotates the binary representation of this [UInt] number left by
the specified [bitCount] number of bits: \n* \n* The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side. \n* \n* Rotating the number left by a negative bit count is the same as
rotating it right by the negated bit count: \n* `number.rotateLeft(-n) == number.rotateRight(n)` \n* Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally
* `number.rotateLeft(n % 32) == number.rotateLeft(n)` \n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun UInt.rotateLeft(bitCount: Int): UInt =
toInt().rotateLeft(bitCount).toUInt()\n
* Rotates the binary representation of this [UInt] number right by
the specified [bitCount] number of bits: \n* \n* The least
significant bits pushed out from the right side reenter the number as the most significant bits on the left side. \n* \n* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count: \n* `number.rotateRight(-n) == number.rotateLeft(n)` \n* Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally
* `number.rotateRight(n % 32) == number.rotateRight(n)` \n
*\n@SinceKotlin(\"1.3\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun UInt.rotateRight(bitCount: Int):
UInt =
toInt().rotateRight(bitCount).toUInt()\n
* Counts the number of set bits in the binary representation of this [UInt] number.\n
*\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun ULong.countOneBits(): Int =
toLong().countOneBits()\n
* Counts the number of consecutive most significant bits that are zero in the
binary representation of this [ULong] number.\n
*\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun ULong.countLeadingZeroBits(): Int =
toLong().countLeadingZeroBits()\n
* Counts the number of consecutive least significant bits that are zero in the
binary representation of this [ULong] number.\n
*\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun ULong.countTrailingZeroBits(): Int =
toLong().countTrailingZeroBits()\n
* Returns a number having a single bit set in the position of the least
significant set bit of this [ULong] number, \n* or zero, if this number is zero.\n
*\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun ULong.takeHighestOneBit(): ULong =
toLong().takeHighestOneBit().toULong()\n
* Returns a number having a single bit set in the position of the least
significant set bit of this [ULong] number, \n* or zero, if this number is zero.\n
*\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun ULong.takeLowestOneBit(): ULong =
toLong().takeLowestOneBit().toULong()\n
* Rotates the binary representation of this [ULong] number left by
the specified [bitCount] number of bits. \n* The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side. \n* \n* Rotating the number left by a negative bit count is the same as
rotating it right by the negated bit count: \n* `number.rotateLeft(-n) == number.rotateRight(n)` \n* Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally
* `number.rotateLeft(n % 64) == number.rotateLeft(n % 32)`
```kotlin
public inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()

/**
 * Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits.
 * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.
 * `number.rotateRight(-n) == number.rotateLeft(n)` Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally
 * `number.rotateRight(n % 64) == number.rotateRight(n)`
 * Counts the number of set bits in the binary representation of this [ULong] number.
 */
public inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.
 */
public inline fun ULong.countOneBits(): Int = toLong().countOneBits()

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.
 */
public inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number.
 */
public inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits()

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number.
 */
public inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong()

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number.
 */
public inline fun ULong.takeLowestOneBit(): ULong = toLong().takeLowestOneBit().toULong()

/**
 * Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits.
 * The least significant bits pushed out from the left side reenter the number as the most significant bits on the left side.
 * `number.rotateLeft(-n) == number.rotateRight(n)` Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally
 * `number.rotateLeft(n % 64) == number.rotateLeft(n)`
 * Counts the number of set bits in the binary representation of this [ULong] number.
 */
public inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()

/**
 * Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits.
 * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.
 * `number.rotateRight(-n) == number.rotateLeft(n)` Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally
 * `number.rotateRight(n % 64) == number.rotateRight(n)`
 * Counts the number of set bits in the binary representation of this [ULong] number.
 */
public inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.
 */
public inline fun ULong.countOneBits(): Int = toLong().countOneBits()

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.
 */
public inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number.
 */
public inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits()

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number.
 */
public inline fun ULong.takeHighestOneBit(): UByte = toByte().takeHighestOneBit().toUByte()

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number.
 */
public inline fun ULong.takeLowestOneBit(): UByte = toByte().takeLowestOneBit().toUByte()

/**
 * Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits.
 * The least significant bits pushed out from the left side reenter the number as the most significant bits on the left side.
 * `number.rotateLeft(-n) == number.rotateRight(n)` Rotating by a multiple of [ULong.SIZE_BITS] (8) returns the same number, or more generally
 * `number.rotateLeft(n % 8) == number.rotateLeft(n)`
 * Counts the number of set bits in the binary representation of this [ULong] number.
 */
public inline fun ULong.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()

/**
 * Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits.
 * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.
 * `number.rotateRight(-n) == number.rotateLeft(n)` Rotating by a multiple of [ULong.SIZE_BITS] (8) returns the same number, or more generally
 * `number.rotateRight(n % 8) == number.rotateRight(n)`
 * Counts the number of set bits in the binary representation of this [ULong] number.
 */
public inline fun ULong.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.
 */
public inline fun UByte.countOneBits(): Int = toUInt().countOneBits()

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.
 */
public inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number.
 */
public inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits()

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number.
 */
public inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte()

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number.
 */
public inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte()
```
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.countLeadingZeroBits(): Int =
    toShort().countLeadingZeroBits() * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [UShort] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.countTrailingZeroBits(): Int =
    toShort().countTrailingZeroBits() * Returns a number having a single bit set in the position of the most
significant set bit of this [UShort] number, \(n\) \* or zero, if this number is zero.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.takeHighestOneBit(): UShort =
    toInt().takeHighestOneBit().toUShort() * Rotates the binary representation of this [UShort] number left
by the specified [bitCount] number of bits, \(n\) \* The most significant bits pushed out from the left side reenter
the number as the least significant bits on the right side, \(n\) \* Rotating the number left by a negative bit count is the
same as rotating it right by the negated bit count: \(n\) \* number.rotateLeft(-n) == number.rotateRight(n)
* Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally \(n\)
* \'number.rotateLeft(n) == number.rotateLeft(n \% 16)\*\n
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.rotateLeft(bitCount: Int): UShort =
    toShort().rotateLeft(bitCount).toUShort() * Rotates the binary representation of this [UShort] number right
by the specified [bitCount] number of bits, \(n\) \* The least significant bits pushed out from the right side reenter
the number as the most significant bits on the left side, \(n\) \* Rotating the number right by a negative bit count is the
same as rotating it left by the negated bit count: \(n\) \* \'number.rotateRight(-n) == number.rotateLeft(n)\* \n* Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally \(n\)
* \& \*number.rotateRight(n) == number.rotateRight(n \% 16)\*\n
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.rotateRight(bitCount: Int): UShort =
    toShort().rotateRight(bitCount).toUShort() * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. \* Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt =
    when {
        step > 0 -> if (start >= end) end else differenceModulo(end, start, step.toUInt())
        step < 0 -> if (start <= end) end else differenceModulo(start, end, (-step).toUInt())
        else -> throw kotlin.IllegalArgumentException("Step is zero.\) \* Calculates the final element of a
bounded arithmetic progression, i.e. the last element of the progression which is in the range \(n\) \* from [start] to [end]
in case of a positive \[step\], or from [end] to [start] in case of a negative \[step\] \* \[step\] \* \n* No validation on passed
parameters is performed. The given parameters should satisfy the condition: \(n\) \* - either \`step > 0\` and \`start <=
end\), \(n\) \* or \`step < 0\` and \`start > end\). \(n\) \* \@param start first element of the progression \* \@param end
ending bound for the progression \* \@param step increment, or difference of successive elements in the
progression \* \@return the final element of the progression \* \@suppress\n
@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt =
    when { 
        step > 0 -> if (start > end) end else differenceModulo(start, end, (-step).toUInt())
        step < 0 -> if (start < end) end else differenceModulo(end, start, step.toUInt())
        else -> throw kotlin.IllegalArgumentException("Step is zero.\) \* Calculates the final element of a
bounded arithmetic progression, i.e. the last element of the progression which is in the range \(n\) \* from [start] to [end]
in case of a positive \[step\], or from [end] to [start] in case of a negative \[step\] \* \[step\] \* \n* No validation on passed
parameters is performed. The given parameters should satisfy the condition: \(n\) \* - either \`step > 0\` and \`start <=
end\), \(n\) \* or \`step < 0\` and \`start > end\). \(n\) \* \@param start first element of the progression \* \@param end
ending bound for the progression \* \@param step increment, or difference of successive elements in the
progression \* \@return the final element of the progression \* \@suppress\n
@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt =
    when {
        step > 0 -> if (start > end) end else differenceModulo(start, end, (-step).toUInt())
        step < 0 -> if (start < end) end else differenceModulo(end, start, step.toUInt())
        else -> throw kotlin.IllegalArgumentException("Step is zero.\) \* Calculates the final element of a
bounded arithmetic progression, i.e. the last element of the progression which is in the range \(n\) \* from [start] to [end]
in case of a positive \[step\], or from [end] to [start] in case of a negative \[step\] \* \[step\] \* \n* No validation on passed
parameters is performed. The given parameters should satisfy the condition: \(n\) \* - either \`step > 0\` and \`start <=
end\), \(n\) \* or \`step < 0\` and \`start > end\). \(n\) \* \@param start first element of the progression \* \@param end
ending bound for the progression \* \@param step increment, or difference of successive elements in the
progression \* \@return the final element of the progression \* \@suppress\n
end`,\n * or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress

@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {
    step > 0 -> if (start >= end) end else differenceModulo(end, start, step.toULong())\n    step < 0 -> if (start <= end) end else differenceModulo(start, end, (-step).toULong())\nelse -> throw kotlin.IllegalArgumentException("Step is zero.")\n
/*
 * Copyright 2010-2018 JetBrains s.r.o.
 * and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *@file:kotlin.jvm.JvmName("UStringsKt") // string representation of unsigned numbers
 *unpackage kotlin.text\n *un/*un * Returns a string representation of this [Byte] value in the specified [radix].\n *un * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

/*
 *@file:kotlin.jvm.JvmName("KotlinUnsignedTypesKt")\n *unpackage kotlin.text\n *un/*un * Returns a string representation of this [Short] value in the specified [radix].\n *un * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

/*
 *@file:kotlin.jvm.JvmName("KotlinUnsignedTypesKt")\n *unpackage kotlin.text\n *un/*un * Returns a string representation of this [Int] value in the specified [radix].\n *un * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

/*
 *@file:kotlin.jvm.JvmName("KotlinUnsignedTypesKt")\n *unpackage kotlin.text\n *un/*un * Returns a string representation of this [Long] value in the specified [radix].\n *un * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

/*
 *@file:kotlin.jvm.JvmName("KotlinUnsignedTypesKt")\n *unpackage kotlin.text\n *un/*un * Returns a string representation of this [ULong] value in the specified [radix].\n *un * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

/*
 *@file:kotlin.jvm.JvmName("KotlinUnsignedTypesKt")\n *unpackage kotlin.text\n *un/*un * Returns a string representation of this [Byte] value in the specified [radix].\n *un * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

/*
 *@file:kotlin.jvm.JvmName("KotlinUnsignedTypesKt")\n *unpackage kotlin.text\n *un/*un * Returns a string representation of this [Short] value in the specified [radix].\n *un * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

/*
 *@file:kotlin.jvm.JvmName("KotlinUnsignedTypesKt")\n *unpackage kotlin.text\n *un/*un * Returns a string representation of this [Int] value in the specified [radix].\n *un * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

/*
 *@file:kotlin.jvm.JvmName("KotlinUnsignedTypesKt")\n *unpackage kotlin.text\n *un/*un * Returns a string representation of this [Long] value in the specified [radix].\n *un * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

/*
 *@file:kotlin.jvm.JvmName("KotlinUnsignedTypesKt")\n *unpackage kotlin.text\n *un/*un * Returns a string representation of this [ULong] value in the specified [radix].\n *un * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.
toULongOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a [ULong] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalFormatException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toULongOrNull(radix: Int): ULong? = toULongOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as an [UByte] number and returns the result
 * or 'null' if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUByteOrNull(radix: Int): UByte? = toUByteOrNull(radix = 10) ?: numberFormatError(this)

/**
 * Parses the string as an [UShort] number and returns the result
 * or 'null' if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShortOrNull(radix: Int): UShort? = toUShortOrNull(radix = 10) ?: numberFormatError(this)

/**
 * Parses the string as an [UInt] number and returns the result
 * or 'null' if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUIntOrNull(radix: Int): UInt? = toUIntOrNull(radix = 10) ?: numberFormatError(this)

/**
 * Parses the string as an [ULong] number and returns the result
 * or 'null' if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toULongOrNull(radix: Int): ULong? = toULongOrNull(radix = 10) ?: numberFormatError(this)

/**
 * Parses the string as an [UByte] number and returns the result
 * or 'null' if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUByteOrNull(radix: Int): UByte? = toUByteOrNull(radix = 10) ?: numberFormatError(this)

/**
 * Parses the string as an [UShort] number and returns the result
 * or 'null' if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShortOrNull(radix: Int): UShort? = toUShortOrNull(radix = 10) ?: numberFormatError(this)

/**
 * Parses the string as an [UInt] number and returns the result
 * or 'null' if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUIntOrNull(radix: Int): UInt? = toUIntOrNull(radix = 10) ?: numberFormatError(this)
return result
}

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

@file:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
package kotlin

import kotlin.annotation.AnnotationTarget.*
import kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind

/**
 * Marks the API that is dependent on the experimental unsigned types, including those types themselves.
 * Usages of such API will be reported as warnings unless an explicit opt-in within the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)`.
 * or with the `-Xopt-in=kotlin.ExperimentalUnsignedTypes` compiler option is given.
 * It's recommended to propagate the experimental status to the API that depends on unsigned types by annotating it with this annotation.
 */
@Suppress("DEPRECATION")
@Experimental(level = Experimental.Level.WARNING)
@RequiresOptIn(level = RequiresOptIn.Level.WARNING)
@MustBeDocumented
@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER,
TYPEALIAS)
@Retention(AnnotationRetention.BINARY)
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPLIER_VERSION)
public annotation class ExperimentalUnsignedTypes

/*
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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MathKt")

package kotlin.math

// constants, can't use them from nativeMath as they are not constants there

/** Ratio of the circumference of a circle to its diameter, approximately 3.14159. */
@SinceKotlin("1.2")
public const val PI: Double = 3.141592653589793
/** Base of the natural logarithms, approximately 2.71828. */
@SinceKotlin("1.2")
public const val E: Double = 2.718281828459045

// region ================

Double Math ========================================

/** Computes the sine of the angle [x] given in radians.
 * Special cases:
 * - `sin(NaN)` is `NaN`
 */
@SinceKotlin("1.2")
public expect fun sin(x: Double): Double

/** Computes the cosine of the angle [x] given in radians.
 * Special cases:
 * - `cos(NaN)` is `NaN`
 */
@SinceKotlin("1.2")
public expect fun cos(x: Double): Double

/** Computes the tangent of the angle [x] given in radians.
 * Special cases:
 * - `tan(NaN)` is `NaN`
 */
@SinceKotlin("1.2")
public expect fun tan(x: Double): Double

/** Computes the arccosine of the value [x] as an angle in the range from `-PI/2` to `PI/2` radians.
 * Special cases:
 * - `acos(NaN)` is `NaN`
 * - `acos(+Inf)` is `0.0`
 * - `acos(-Inf)` is `PI`
 */
@SinceKotlin("1.2")
public expect fun acos(x: Double): Double

/** Computes the arctangent of the value [x] as an angle in the range from `-PI` to `PI` radians.
 * Special cases:
 * - `atan(NaN)` is `NaN`
 * - `atan(+Inf)` is `+PI/2`
 * - `atan(-Inf)` is `-PI/2`
 */
@SinceKotlin("1.2")
public expect fun atan(x: Double): Double

/** Computes the arctangent of the value [x] as an angle in the range from `-PI` to `PI` radians.
 * Special cases:
 * - `atan2(0.0, 0.0)` is `0.0`
 * - `atan2(0.0, x)` is `0.0` for `x > 0` and `-PI` for `x < 0`
 * - `atan2(y, +Inf)` is `0.0` for `y > 0`
 * - `atan2(y, -Inf)` is `-PI/2` for `y > 0` and `PI/2` for `y < 0`
 */
@SinceKotlin("1.2")
public expect fun atan2(y: Double, x: Double): Double

// endregion

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value of the given value \([x]\).\]*\n\* Special cases: \n\* - `abs(NaN)` is `NaN`\n\* @see absoluteValue
extension property for \[Double\]\n\*/
@SinceKotlin("1.2")
public expect fun abs(x: Double): Double\n
/**
 * Returns the sign of the given value \([x]\)\n\* - `-1.0` if the value is negative,\n\* - zero if the value is zero,\n\* - `1.0` if the value is positive\n\* Special case: \n\* - `sign(NaN)` is `NaN`\n\*/
@SinceKotlin("1.2")
public expect fun sign(x: Double): Double\n

/**
 * Returns the smaller of two values.\n\* If either value is `NaN`, then the result is `NaN`.\n\* @see abs function\n\*/
@SinceKotlin("1.2")
public expect fun min(a: Double, b: Double): Double\n
/**
 * Returns the greater of two values.\n\* If either value is `NaN`, then the result is `NaN`.\n\*/
@SinceKotlin("1.2")
public expect fun max(a: Double, b: Double): Double\n
\n\n\n/**
 * Raises \this value to the power \([x]\)\n\* Special cases: \n\* - `b.pow(0.0)` is `1.0`\n\* - `-b.pow(0.0)` is `-1.0`\n\* - `b.pow(NaN)` is `NaN`\n\* - `NaN.pow(x)` is `NaN` for `x != 0.0`\n\* - `-b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n\* @see absoluteValue\n\*/
@SinceKotlin("1.2")
public expect fun Double.pow(x: Double): Double\n
/**
 * Raises \this value to the integer power \([n]\)\n\*/
@SinceKotlin("1.2")
public expect fun Double.pow(n: Int): Double\n
/**
 * Returns the absolute value of \this value.\n\* Special cases: \n\* - `NaN.absoluteValue` is `NaN`\n\*/
@SinceKotlin("1.2")
public expect val Double.absoluteValue: Double\n
/**
 * Returns the sign of \this value:\n\* - `-1.0` if the value is negative,\n\* - zero if the value is zero,\n\* - `1.0` if the value is positive\n\* Special case: \n\* - `NaN.sign` is `NaN`\n\*/
@SinceKotlin("1.2")
public expect val Double.sign: Double\n
/**
 * Returns the sign bit same as of the \[sign\] value.\n\* If \[sign\] is `NaN` the sign of the result is undefined.\n\*/
@SinceKotlin("1.2")
public expect fun Double.withSign(sign: Double): Double\n
/**
 * Returns the sign bit same as of the \[sign\] value.\n\* @sinceKotlin "1.2"\n\*/
@SinceKotlin("1.2")
public expect fun Double.withSign(sign: Int): Double\n
/**
 * Returns the [ulp (unit in the last place)] of this value.\n\* @throws IllegalArgumentException when this value is `NaN`\n\*/
@SinceKotlin("1.2")
public expect val Double.ulp: Double\n
/**
 * Rounds this \[Double\] value to the nearest integer and converts the result to \[Int\].\n\* Ties are rounded towards positive infinity.\n\* Special cases: \n\* - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n\* - `x.nextTowards(x) == x`\n\*/
@SinceKotlin("1.2")
public expect fun Double.nextTowards(to: Double): Double\n
/**
 * Rounds this \[Double\] value nearest to this value in direction of positive infinity.\n\* Special cases: \n\* - `x.nextUp()` is `Double.MAX_VALUE` when `x > Double.MAX_VALUE`
\* - `x.nextUp()` is `Long.MAX_VALUE` when `x > Long.MAX_VALUE`
\*/
@SinceKotlin("1.2")
public expect fun Double.nextUp(): Double\n
/**
 * Rounds this \[Double\] value nearest to this value in direction of negative infinity.\n\* Special cases: \n\* - `x.nextDown()` is `Double.MIN_VALUE` when `x < Double.MIN_VALUE`
\* - `x.nextDown()` is `Long.MIN_VALUE` when `x < Long.MIN_VALUE`
\*/
@SinceKotlin("1.2")
public expect fun Double.nextDown(): Double\n
*/
========================================

/** Computes the sine of the angle \([x]\) given in radians.\n\* Special cases: \n\* - `sin(NaN)` is `NaN`\n\* @see absoluteValue\n\*/
@SinceKotlin("1.2")
public expect fun sin(x: Float): Float\n
/** Computes the cosine of the angle \([x]\) given in radians.\n\* Special cases: \n\* - `cos(NaN)` is `NaN`\n\* @see absoluteValue\n\*/
@SinceKotlin("1.2")
public expect fun cos(x: Float): Float\n
/** Computes the tangent of the angle \([x]\) given in radians.\n\* Special cases: \n\* - `tan(NaN)` is `NaN`\n\* @see absoluteValue\n\*/
@SinceKotlin("1.2")
public expect fun tan(x: Float): Float\n
/** Computes the arc sine of the value \([x]\).\n\* Special cases: \n\* - `asin(NaN)` is `NaN`\n\*/
@SinceKotlin("1.2")
public expect fun asin(x: Float): Float\n
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`FloatInfinite` Computes the arc cosine of the value [\(x\)], \(x\) the returned value is an angle in the range from `-0.0` to `PI` radians. \(x\) Special cases: `NaN` when `abs(x) > 1` or `x` is `NaN`

```kotlin
@SinceKotlin("1.2") public fun acos(x: Float): Float
```

`FloatInfinite` Computes the arc tangent of the value [\(x\)], \(x\) the returned value is an angle in the range from `-PI/2` to `PI/2` radians. \(x\) Special cases: `NaN` when `\(x\) < 0` or `\(x\)` is `NaN`

```kotlin
@SinceKotlin("1.2") public fun atan(x: Float): Float
```

`FloatInfinite` Computes the binary logarithm of the value [\(x\)]. \(x\) the returned value is an angle in the range from `-0.0` to `PI` radians. \(x\) Special cases: `NaN` when `\(x\)` is `NaN`

```kotlin
@SinceKotlin("1.2") public fun log2(x: Float): Float
```

`FloatInfinite` Computes the logarithm (base `2`) of the value [\(x\)]. \(x\) the returned value is an angle in the range from `-0.0` to `PI` radians. \(x\) Special cases: `NaN` when `\(x\)` is `NaN`

```kotlin
@SinceKotlin("1.2") public fun log10(x: Float): Float
```

`FloatInfinite` Computes the natural logarithm (base `E`) of the value [\(x\)]. \(x\) the returned value is an angle in the range from `-0.0` to `PI` radians. \(x\) Special cases: `NaN` when `\(x\)` is `NaN`

```kotlin
@SinceKotlin("1.2") public fun log(x: Float, base: Float): Float
```

- `atan2(0.0, 0.0)` is `0.0`
- `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`
- `atan2(y, -Inf)` is `PI` for `y > 0` and `-PI` for `y < 0`

```kotlin
@SinceKotlin("1.2") public fun expm1(x: Float): Float
```

- `expm1(NaN)` is `NaN`
- `expm1(+Inf)` is `+Inf`
- `expm1(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun exp(x: Float): Float
```

- `expm1(0.0)` is `0.0`
- `expm1(+Inf)` is `+Inf`
- `expm1(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun sqrt(x: Float): Float
```

- `sqrt(-1.0)` is `NaN`
- `sqrt(x)` is finite when `x` is finite
- `sqrt(NaN)` is `NaN`
- `sqrt(+Inf)` is `+Inf`
- `sqrt(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun hypot(x: Float, y: Float): Float
```

- `hypot(x, y)` is `hypot(x, y)`
- `hypot(x, 0)` is `abs(x)`
- `hypot(0, y)` is `abs(y)`
- `hypot(x, y)` is `sqrt(x^2 + y^2)`

```kotlin
@SinceKotlin("1.2") public fun atanh(x: Float): Float
```

- `atanh(NaN)` is `NaN`
- `atanh(+Inf)` is `1.0`
- `atanh(-Inf)` is `-1.0`

```kotlin
@SinceKotlin("1.2") public fun acosh(x: Float): Float
```

- `acosh(NaN)` is `NaN`
- `acosh(+Inf)` is `+Inf`
- `acosh(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun asinh(x: Float): Float
```

- `asinh(NaN)` is `NaN`
- `asinh(+Inf)` is `+Inf`
- `asinh(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun cosh(x: Float): Float
```

- `cosh(NaN)` is `NaN`
- `cosh(+Inf)` is `+Inf`
- `cosh(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun sinh(x: Float): Float
```

- `sinh(NaN)` is `NaN`
- `sinh(+Inf)` is `+Inf`
- `sinh(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun tanh(x: Float): Float
```

- `tanh(NaN)` is `NaN`
- `tanh(+Inf)` is `+Inf`
- `tanh(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun sin(x: Float): Float
```

- `sin(NaN)` is `NaN`
- `sin(+Inf)` is `+Inf`
- `sin(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun cos(x: Float): Float
```

- `cos(NaN)` is `NaN`
- `cos(+Inf)` is `1.0`
- `cos(-Inf)` is `-1.0`

```kotlin
@SinceKotlin("1.2") public fun exp(x: Float): Float
```

- `exp(NaN)` is `NaN`
- `exp(+Inf)` is `+Inf`
- `exp(-Inf)` is `0.0`

```kotlin
@SinceKotlin("1.2") public fun log(x: Float, base: Float): Float
```

- `log(NaN)` is `NaN`
- `log(+Inf)` is `+Inf`
- `log(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun log10(x: Float): Float
```

- `log10(NaN)` is `NaN`
- `log10(+Inf)` is `+Inf`
- `log10(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun log2(x: Float): Float
```

- `log2(NaN)` is `NaN`
- `log2(+Inf)` is `+Inf`
- `log2(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun log10(x: Float): Float
```

- `log10(NaN)` is `NaN`
- `log10(+Inf)` is `+Inf`
- `log10(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun log2(x: Float): Float
```

- `log2(NaN)` is `NaN`
- `log2(+Inf)` is `+Inf`
- `log2(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun log10(x: Float): Float
```

- `log10(NaN)` is `NaN`
- `log10(+Inf)` is `+Inf`
- `log10(-Inf)` is `-Inf`

```kotlin
@SinceKotlin("1.2") public fun log2(x: Float): Float
```
expect fun log2(x: Float): Float/*in*/ * Computes \( \ln(a + 1) \)./*in*/ * This function can be implemented to produce more precise result for \( x \) near zero./*in*/ * Special cases:/*in*/ * - \( \ln1p(NaN) \) is `NaN`/*in*/ * - \( \ln1p(x) \) is `NaN` where \( x < -1.0 \)/*in*/ * - \( \ln1p(-1.0) \) is `-Inf`/*in*/ * - \( \ln1p(+Inf) \) is `+Inf`/*in*/ * @see [ln] function/*in*/ * @see [expm1] function/*in*/ * @in@SinceKotlin("1.2")public expect fun ln1p(x: Float): Float/*in*/ * Rounds the given value \( x \) to an integer towards positive infinity./*in*/ * @return the smallest Float value that is greater than or equal to the given value \( x \) and is a mathematical integer./*in*/ * Special cases:/*in*/ * - `ceil(x)` is \( x \) where \( x \) is `NaN` or `+Inf` or `-Inf` or already a mathematical integer./*in*/ * @in@SinceKotlin("1.2")public expect fun floor(x: Float): Float/*in*/ * Rounds the given value \( x \) to an integer towards zero./*in*/ * @return the value \( x \) having its fractional part truncated./*in*/ * Special cases:/*in*/ * - ` truncate(x)` is \( x \) where \( x \) is `NaN` or `+Inf` or `-Inf` or already a mathematical integer./*in*/ * @in@SinceKotlin("1.2")public expect fun truncate(x: Float): Float/*in*/ * Rounds the given value \( x \) towards the closest integer with ties rounded towards even integer./*in*/ * Special cases:/*in*/ * - `round(x)` is \( x \) where \( x \) is `NaN` or `+Inf` or `-Inf` or already a mathematical integer./*in*/ * @in@SinceKotlin("1.2")public expect fun abs(x: Float): Float/*in*/ * Returns the absolute value of the given value \( x \)./*in*/ * Special cases:/*in*/ * - `abs(NaN)` is `NaN`/*in*/ * @see absoluteValue extension property for [Float]/*in*/ * @in@SinceKotlin("1.2")public expect fun sign(x: Float): Float/*in*/ * Returns the sign of this value:
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|   | `-1.0` if the value is negative,/*in*/ * - zero if the value is zero,/*in*/ * - `1.0` if the value is positive/*in*/ * Special case:/*in*/ * - `sign(NaN)` is `NaN`/*in*/ * @in@SinceKotlin("1.2")public expect fun floor(x: Float): Float/*in*/ * Returns the smallest of two values./*in*/ * Either value is `NaN`, then the result is `NaN`./*in*/ * @in@SinceKotlin("1.2")public expect fun min(a: Float, b: Float): Float/*in*/ * Returns the greater of two values./*in*/ * If either value is `NaN`, then the result is `NaN`./*in*/ * @in@SinceKotlin("1.2")public expect fun max(a: Float, b: Float): Float/*in*/ * Returns the value to the power \( x \)./*in*/ * Special cases:/*in*/ * - `pow(0.0)` is `1.0`/*in*/ * - `pow(1.0)` returns `b`/*in*/ * - `pow(NaN)` is `NaN`/*in*/ * - `pow(x)` is `NaN` for \( x = 0.0 \)/*in*/ * - `pow(Inf)` is `NaN` for `abs(b)` == `1.0`/*in*/ * - `pow(x)` is `NaN` for `b < 0` and \( x \) is finite and not an integer/*in*/ * @in@SinceKotlin("1.2")public expect fun floorWithSign(x: Float): Float/*in*/ * Returns this value with the sign bit same as of the [sign] value./*in*/ * If the sign is `NaN` the result is undefined./*in*/ * @in@SinceKotlin("1.2")public expect fun Float.roundToInt(): Int/*in*/ * Rounds this Float value to the nearest integer and converts the result to Int./*in*/ * Ties are rounded towards positive infinity./*in*/ * Special cases:/*in*/ * - `roundToInt()` is `Int.MAX_VALUE` when \( x > Int.MAX_VALUE`/*in*/ * - `roundToInt()` is `Int.MIN_VALUE` when \( x < Int.MIN_VALUE`/*in*/ * @throws IllegalArgumentException when this value is `NaN`/*in*/ * @in@SinceKotlin("1.2")public expect fun Float.roundToLong(): Long/*in*/ * Rounds this Float value to the nearest integer and converts the result to Long./*in*/ * Ties are rounded towards positive infinity./*in*/ * Special cases:/*in*/ * - `roundToLong()` is `Long.MAX_VALUE` when \( x > Long.MAX_VALUE`/*in*/ * - `roundToLong()` is `Long.MIN_VALUE` when \( x < Long.MIN_VALUE`/*in*/ * @throws IllegalArgumentException when this value is `NaN`/*in*/ * @in@SinceKotlin("1.2")public expect fun Float.roundToLong(): Long/*in*/ * Returns the absolute value of the given value \( n \)./*in*/ * Special cases:/*in*/ * - `abs(Int.MIN_VALUE)` is
'Int.MIN_VALUE' due to an overflow

```kotlin
@SinceKotlin("1.2")
public expect fun abs(n: Int): Int

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.2")
public expect fun min(a: Int, b: Int): Int

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
public expect fun max(a: Int, b: Int): Int

/**
 * Returns the absolute value of this value.
 * @see abs function
 */
@SinceKotlin("1.2")
public expect val Int.absoluteValue: Int

/**
 * Returns the sign of this value:
 * - `-1` if the value is negative,
 * - `0` if the value is zero,
 * - `1` if the value is positive
 */
@SinceKotlin("1.2")
public expect val Int.sign: Int

```
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K, KAAL, EAAY, MAAZ, C; O; Kaj BX, C; 0FAo BA, yB; MAA, A; D; MAAA, 6B; MAA, A; uC; QAUo B, Q; QA FHb, Y A Y, gB; QCZ, aAA, gB; QAC, b, wBAAg, gB, SAhAg, gB; UA Ag, gB; CAAA, SAhB, M; UA CI, IAA, IAU, AA, OAAV, CAAJ, C; YACI, KAA, WAAL, OAAJ, C; YAN, MAA, WAAL, OAAJ, C; ...
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Found in path(s):
*/opt/cola/permits/1175509965_1624395183.92/0/kotlin-1-4-10-tgz/package/kotlin.js.map
1.897 go-isatty 0.0.11

1.897.1 Available under license:

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1.898 json-parse-better-errors 1.0.2

1.898.1 Available under license:

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**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 10243**
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org.wso2.carbon.core.bootup.validator_4.4.35.jar
org.wso2.carbon.core.commons.stub_4.4.35.jar
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org.wso2.carbon.dashboard.store.filter_2.0.19.jar
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# Jackson JSON processor

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

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# Jackson JSON processor

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

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Servlet 3.0
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1.908 golang-protobuf-extensions 1.0.0

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

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

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That's all there is to it!

DRuntime: Runtime Library for the D Programming Language
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========

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Manifest-Version: 1
Bnd-LastModified: 1536228515684
Build-Jdk: 1.7.0_51
Built-By: root
Bundle-Description: OSGi Bundle for Carbon WSO2 Registry Impl
Bundle-DocURL: http://wso2.com
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion: 2
Bundle-Name: org.wso2.carbon.registry.core
Bundle-SymbolicName: org.wso2.carbon.registry.core
Bundle-Vendor: WSO2 Inc
Bundle-Version: 4.4.35
Created-By: Apache Maven Bundle Plugin
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Embed-Dependency: aecgi-security;scope=compile|runtime;inline=false
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Service-Component: OSGI-INF/serviceComponents.xml
Tool: Bnd-1.43.0

Found in path(s):
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quickfixj-msg-fix41-1.3.1.jar  
quickfixj-msg-fix42-1.3.1.jar  
quickfixj-msg-fix43-1.3.1.jar  
quickfixj-msg-fix44-1.3.1.jar  
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slf4j-api-1.3.0.jar
slf4j-jdk14-1.3.0.jar
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1.946 adduser 3.118

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

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 * @param securePort the secure port to redirect to.
 */
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
 * @param secureScheme A scheme string like "https"
 */

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jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1229376595_1641580306.96/0/asm-analysis-8-0-sources-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1229376595_1641580306.96/0/asm-analysis-8-0-sources-
jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1229376595_1641580306.96/0/asm-analysis-8-0-sources-
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1229376595_1641580306.96/0/asm-analysis-8-0-sources-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1229376595_1641580306.96/0/asm-analysis-8-0-sources-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
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  jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-
  jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-
  jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-
  jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-
  jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-
  jar/com/google/errorprone/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-
  jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-
  jar/com/google/errorprone/annotations/ForOverride.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-
  jar/com/google/errorprone/annotations/Var.java

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* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/NoAllocation.java

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* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/MustBeClosed.java
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* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/FormatString.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/DoNotMock.java

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* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java

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io.fabric8.kubernetes.client.URLFromClusterIPImpl

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1.968 go-openapi 0.18.0

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {

Name string `json:"name,omitempty"`
URL  string `json:"url,omitempty"
}

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{"the name", "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\n    url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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* /opt/cola/permits/1171520921_1623082911.03/0/nimbus-jose-jwt-9-10-sources.jar/com/nimbusds/jose/jca/JWEJCAContext.java
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* /opt/cola/permits/1171520921_1623082911.03/0/nimbus-jose-jwt-9-10-sources.jar/com/nimbusds/jose/jwk/JWKSelector.java
* /opt/cola/permits/1171520921_1623082911.03/0/nimbus-jose-jwt-9-10-sources.jar/com/nimbusds/jwt/proc/package-info.java
* /opt/cola/permits/1171520921_1623082911.03/0/nimbus-jose-jwt-9-10-sources.jar/com/nimbusds/jose/jwk/SecretJWK.java
* /opt/cola/permits/1171520921_1623082911.03/0/nimbus-jose-jwt-9-10-sources.jar/com/nimbusds/jose/crypto/X25519Encrypter.java

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Protocol Buffers for Go with Gadgets

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

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1.982 undefsafe 2.0.5

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* /opt/cola/permits/1145288430_1616148381.91/0/byte-buddy-agent-1-9-10-sources-2-jar/net/bytebuddy/agent/ByteBuddyAgent.java

1.985 koa-bodyparser 4.3.0

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jar/org/springframework/expression/spel/support/BooleanTypedValue.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
jar/org/springframework/expression/MethodResolver.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
jar/org/springframework/expression/ConstructorResolver.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
jar/org/springframework/expression/MethodExecutor.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
jar/org/springframework/expression/ParserContext.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
jar/org/springframework/expression/ExpressionInvocationTargetException.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
jar/org/springframework/expression/common/TemplateParserContext.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
jar/org/springframework/expression/MethodFilter.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
jar/org/springframework/expression/TypeComparator.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
jar/org/springframework/expression/EvaluationContext.java
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* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2.jar/org/springframework/expression/spel/ast/CodeFlow.java

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* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2.jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2.jar/org/springframework/expression/spel/ast/MethodReference.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2.jar/org/springframework/expression/spel/ast/OpMinus.java
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*
* File: port.c
* Purpose: Manages untagged priority setting for port
*/

Found in path(s):
* /opt/cola/permits/1130449954_1615183583.0/0/shadow-tar/shadow/port.c

1.991 gin-contrib-size 0.0.0-20200226145816-24aa35f64b9f
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1.992 go-autorest 0.11.24

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1.993 javax-websocket-api 1.1

1.994 siddhi-extension-string 3.2.3
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1.995 wso2-carbon-event-input-adapter-email

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1.996 juniversalchardet 2.3.0

1.997 json-simple 1.1

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1.998 x-time-rate v0.0.0-20220411224347-583f2d630306

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io.helidon.config.yaml.internal.YamlConfigParser

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io.helidon.config.yaml.internal.YamlFileTypeDetector

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

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

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

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

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.1033 opencensus-go 0.22.6

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1.1034 webex-plugin-authorization-browser

1.80.69

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clientType: 'confidential'
clientType: 'confidential'
clientType: 'confidential'
clientType: 'confidential'
clientType: 'confidential'
clientType: 'confidential'
clientType: 'confidential'

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"version":3,"sources":["authorization.js"],"names":["OAUTH2_CSRF_TOKEN","EMPTY_OBJECT_STRING","base64","encode","Authorization","WebexPlugin","extend","derived","isAuthenticating","deps","fn","isAuthorizing","session","default","type","ready","namespaces","initialize","attrs","options","ret","prototype","parse","location","url","webex","getWindow","href","_checkForErrors","hash","includes","substr","queryString","state","JSON","decode","_tokenData","_parseHash","_cleanUrl","process","nextTick","credentials","set","supertoken","initiateLogin","csrf_token","_generateSecurityToken","config","clientType","initiateAuthorizationCodeGrant","initiateImplicitGrant","logger","info","buildLoginUrl","response_type","resolve","requestAccessTokenFromJwt","jwt","hydraUri","internal","services","get","env","HYDRA_SERVICE_URL","request","method","uri","headers","authorization","then","body","access_token","token","token_type","expires_in","logout","noRedirect","buildLogoutUrl","query","error","logger","ErrorConstructor","resolve","select","history","replaceState","forEach","key","stringify","format","uuid","v4","sessionStorage","setItem","_verifySecurityToken","undefined","parseInt","refresh_token_expires_in","sessionToken","getItem","removeItem","Error","oneFlight"],"mappings":
```

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/*!
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 */

/* eslint camelcase: [0] */

import querystring from 'querystring';
import url from 'url';

import {base64, oneFlight, whileInFlight} from '@webex/common';
import {grantErrors, WebexPlugin} from '@webex/webex-core';
import {cloneDeep, isEmpty, omit} from 'lodash';
import uuid from 'uuid';

const OAUTH2_CSRF_TOKEN = 'oauth2-csrf-token';
const EMPTY_OBJECT_STRING = base64.encode(JSON.stringify({}));

/**
 * Browser support for OAuth2. Automatically parses the URL hash for an access
 * token
 * @class
 * @name AuthorizationBrowser
 */
const Authorization = WebexPlugin.extend({
  derived: {
    /**
     * Alias of {@link AuthorizationBrowser#isAuthorizing}
     *
     * @instance
     * @memberof AuthorizationBrowser
     * @type {boolean}
     */
    isAuthenticating: {
      deps: ['isAuthorizing'],
      fn() {
        return this.isAuthorizing;
      }
    }
  },

  session: {
    /**
     * Indicates if an Authorization Code exchange is inflight
     * @instance
     * @memberof AuthorizationBrowser
     * @type {boolean}
     */
    isAuthorizing: {
      default: false,
      type: 'boolean'
    },
    ready: {
      default: false,
      type: 'boolean'
    }
  },

  namespace: 'Credentials',

  /**
   * Initializer
   * @instance
   * @memberof AuthorizationBrowser
   * @param {Object} attrs @link AmpersandState
   * @param {boolean} attrs.parse Controls whether or not the url should get parsed for an access token
   * @private
   * @returns {Authorization}
   */
  initialize(attrs, options) {
    const ret = Reflect.apply(WebexPlugin.prototype.initialize, this, [attrs, options]);

    // Reminder, we can't do parse based on config, because config is not
    // available until nextTick and we want to be able to throw errors found in url
    // until nextTick in case `credentials` hasn't initialized yet in process.nextTick
    if (attrs.parse === false) {
      this.ready = true;

      return ret;
    }
    const location = url.parse(this.webex.getWindow().location.href, true);

    this._checkForErrors(location);

    let {hash} = location;

    if (!hash) {
      this.ready = true;

      return ret;
    }
    if (hash.includes('#')) {
      hash = hash.substr(1);
    }
    location.hash = querystring.parse(hash);
    if (location.hash.state) {
      location.hash.state = JSON.parse(base64.decode(location.hash.state));
    }
    const tokenData = this._parseHash(location);

    if (!tokenData) {
      return ret;
    }
    this._cleanUrl(location);

    // Wait until nextTick in case `credentials` hasn't initialized yet in process.nextTick()
    return Promise.resolve();
  },

  /**
   * Kicks off an oauth flow
   * @instance
   * @memberof AuthorizationBrowser
   * @returns {Promise}
   */
  initiateLogin(options = {}) {
    options.state = options.state || {};
    options.state.csrf_token = this._generateSecurityToken();
    options.state.response_type = 'token';

    // If we're not explicitly a confidential client, assume we're a public
    // client
    if (this.config.clientType === 'confidential') {
      return this.initiateAuthorizationCodeGrant(options);
    }

    return this.initiateImplicitGrant(options);
  },

  @whileInFlight('isAuthorizing')
  /**
   * Kicks off the Authorization Code grant flow. Typically called via
   * @link AuthorizationBrowser#initiateLogin
   * @returns {Promise}
   */
  initiateAuthorizationCodeGrant(options) {
    return this.initiateImplicitGrant(options);
  }

  @whileInFlight('isAuthorizing')
  /**
   * Kicks off the Implicit Code grant flow.
   * @returns {Promise}
   */
  initiateImplicitGrant(options) {
    this.logger.info('authorization: initiating implicit grant flow');
    this.webex.getWindow().location = this.webex.credentials.buildLoginUrl(Object.assign({response_type: 'token'}, options));

    return Promise.resolve();
  }
});
Typically called via

```javascript
* { @link AuthorizationBrowser#initiateLogin
* @instance
* @memberof AuthorizationBrowser
* @param {Object} options
* @returns {Promise}

initiateAuthorizationCodeGrant(options) { 
  this.logger.info('authorization: initiating authorization code grant
  flow');
  this.webex.getWindow().location = this.webex.credentials.buildLoginUrl(Object.assign({ response_type: 'code', options}));
  return Promise.resolve(
    @oneFlight
    /* * Requests a Webex Teams access token for a user already authenticated into
   * your product.
   * Note: You'll need to supply a jwtRefreshCallback of the form
   * `Promise<{jwt}> = jwtRefreshCallback(webex)` for automatic token refresh to
   * work.
   */
    * @instance
    * @memberof AuthorizationBrowser
    * @param {Object} options
    * @param {Object} options jwt
    
this.jwttoken = this.webex.internal.services.get('hydra', true);
    if (this.jwttoken) {
      // add a '/' to hydra's uri from the services catalog
      // it matches the current env service format:
    }
    this.jwttoken = hydraUri ||
      process.env.HYDRA_SERVICE_URL ||
      'https://api.ciscospark.com/v1/'
    return
    .then((({body}) => {
      const {query} = location;
      if (query && query.error)
        throw new Error(query.error);
      else
        this.webex.request({
          method: 'POST',
          uri: `${hydraUri}jwt/login`,
          headers: {
            authorization:
            * @instance
            * @memberof AuthorizationBrowser
            * @param {Object} options
            * @param {Object} options noRedirect
            if true, does not redirect
            * @returns {Promise}
            */
            * Removes no-longer needed values from the url (access token, csrf token, etc)
            * @instance
            * @memberof AuthorizationBrowser
            * @param {Object} location
            * @param {Object} location
            * @returns {Promise}
            */
            * Generates a CSRF token and sticks it in sessionStorage
            * @instance
            * @memberof AuthorizationBrowser
            */
            */
            * Parses the url hash into an access token object
            * @instance
            * @memberof AuthorizationBrowser
            */
            */
            */
            */
            */
            */
            */
            */
            */
```

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 11238
```javascript
this.webex.getWindow().sessionStorage.removeItem(OAUTH2_CSRF_TOKEN);
if (!sessionToken) {
    return;
}

if (!hash.state) {
    throw new Error(`Expected CSRF token ${sessionToken}, but not found in redirect hash`);
}

if (!hash.state.csrf_token) {
    throw new Error(`Expected CSRF token ${sessionToken}, but not found in redirect hash`);
}

const token = hash.state.csrf_token;

if (token !== sessionToken) {
    throw new Error(`CSRF token ${token} does not match stored token ${sessionToken}`);
}
```

Export default Authorization;

---

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---

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---

`webex.config.credentials.clientType = 'confidential';`

---

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---

// If we're not explicitly a confidential client, assume we're a public

---

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* Controls whether {@link Authorization#initiateLogin()} requests a token
* or an auth code. Anything other than 'confidential' will be treated as
* 'public'
* @private
* @type {string}
*

Found in path(s):
* /opt/cola/permits/1274516737_1645595409.94/0/plugin-authorization-browser-1-80-69-tgz/package/dist/config.js
* /opt/cola/permits/1274516737_1645595409.94/0/plugin-authorization-browser-1-80-69-tgz/package/src/config.js

### 1.1035 mem 1.1.0

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### 1.1036 zstd-jni 1.5.0-2

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### 1.1037 @babel/runtime 7.18.6
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1.1038 google-apis 1.1.0

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1.1045 maven-reporting-impl 2.1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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This product also contains software under different licenses. This table below all the contained libraries (jar files) and the license under which they are provided to you.

At the bottom of this file is a table that shows what each license indicated below is and where the actual text of the license can be found.

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1.1068 gtk-update-icon-cache 3.22.11-1

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1.1071 mitchellh-mapstructure 1.1.2

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1.1087 aether-impl 1.7

1.1088 split-string 3.1.0

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1.1089 jmx-prometheus-javaagent 0.16.1

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Found in path(s):
* /opt/cola/permits/1274552195_1645214611.48/0/jmx-prometheus-javaagent-0-16-1-sources-jar/dependency-reduced-pom.xml
1.1090 narcissus 1.0.1

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- Manifest-Version: 1.0
- Created-By: Maven Jar Plugin 3.2.0
- Build-Jdk-Spec: 15
- Specification-Title: Narcissus
- Specification-Version: 1.0
- Specification-Vendor: ToolFactory
- Implementation-Title: Narcissus
- Implementation-Version: 1.0.1
- Implementation-Vendor: ToolFactory
- Bundle-Category: Utilities
- Bundle-Description: Reflection API for circumventing Java security, visibility, and encapsulation mechanisms
- Bundle-License: http://opensource.org/licenses/MIT
- Bundle-ManifestVersion: 2
- Bundle-Name: Narcissus
- Bundle-SymbolicName: io.github.toolfactory.narcissus
- Bundle-Vendor: ToolFactory (Luke Hutchison, Roberto Gentili)
- Bundle-Version: 1.0.1
- Export-Package: io.github.toolfactory.narcissus;version="1.0.1"
- Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
- built-by: ToolFactory

Found in path(s):
* /opt/cola/permits/1269695322_1644574650.94/0/narcissus-1-0-1-jar/META-INF/MANIFEST.MF

1.1091 musl 1.1.24-r10

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1.1103 libkml 1.3.0-7

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package compute_test

import (
    "context"
)

compute "cloud.google.com/go/compute/apiv1"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

clock := context.Background()
c, err := compute.NewLicenseCodesRESTClient(clock)
if err != nil {
    // TODO: Handle error.
}
deferr c.Close()

// TODO: Use client.
_ = c

func ExampleLicenseCodesClient_Get() {
    clock := context.Background()
c, err := compute.NewLicenseCodesRESTClient(clock)
    if err != nil {
        // TODO: Handle error.
    }
deferr c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(clock, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    clock := context.Background()
c, err := compute.NewLicenseCodesRESTClient(clock)
    if err != nil {
        // TODO: Handle error.
    }
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
        }
    // TODO: Use resp.
    _ = resp
}

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package compute

import {
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
}

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get                []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    return &LicenseCodesClient{
        internalClient: &licenseCodesRESTClient{
            httpClient: httpClient,
            endpoint: endpoint,
            xGoogMetadata: xGoogMetadata,
        },
    }, nil
}
c := &licenseCodesRESTClient{
    endpoint:   endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }}, nil

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, errors.Errorf("Failed to parse endpoint: %v", err)
    }
    return c.call(ctx, baseUrl, &LicenseCodesService{callOptions: opts...}, req)
if err != nil {
    return nil, err
}

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReqWithContext(ctx)
        httpReq.Header = headers
        httpRsp := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
        if err := unm.Unmarshal(buf, resp); err != nil {
            return maybeUnknownEnum(err)
        }
        return nil,
    }, opts...)
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReqWithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        return resp, nil
    })

    // TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
}

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReqWithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    return resp, nil
})
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

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package compute_test

import {
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
}

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
}
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute

import (    "bytes"    "context"    "fmt"    "io/ioutil"    "math"    "net/http"    "net/url"
    gax "github.com/googleapis/gax-go/v2"    "google.golang.org/api/googleapi"    "google.golang.org/api/iterator"    "google.golang.org/api/option"    "google.golang.org/api/option/internaloption"    httptransport "google.golang.org/api/transport/http"    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"    "google.golang.org/grpc"    "google.golang.org/grpc/metadata"    "google.golang.org/protobuf/encoding/protojson"    "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
  Delete       []gax.CallOption
  Get          []gax.CallOption
  GetIamPolicy []gax.CallOption
  Insert       []gax.CallOption
  List         []gax.CallOption
  SetIamPolicy []gax.CallOption
  TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
  Close() error
  setGoogleClientInfo(...string)
  Connection() *grpc.ClientConn
  Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
  Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
  GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
  Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
  List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
  SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
  TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
  // The internal transport-dependent client.
  internalClient internalLicensesClient

  // The call options for this service.
  CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.
//
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
  return c.internalClient.Close()
}
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licensesRESTClient{
        endpoint:   endpoint,
        httpClient: httpClient,
        operationClient:  operationClient,
        xGoogMetadata:     xGoogMetadata,
    }

    return &LicensesClient{
        operationClient: operationClient,
        xGoogMetadata:   xGoogMetadata,
        httpClient:      httpClient,
        endpoint:        endpoint,
    }
}
c.setGoogleClientInfo()

o := []option.ClientOption{
    option.WithHTTPClient(httpClient),
    option.WithEndpoint(endpoint),
}

opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}

c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}

setGoogleClientInfo sets the name and version of the application in the `x-goog-api-client` header passed on each request. Intended for use by Google-written clients.

c.setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOW"
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

Close closes the connection to the API service. The user should invoke this when the client is no longer required.

c.Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

Connection returns a connection to the API service.

func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute pb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReqWithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpResp.Body.Close()

        if err = googleapi.CheckResponse(httpResp); err != nil {
            return err
        }

        if err = unm.Unmarshal(resp, req, nil); err != nil {
            return err
        }
        return nil
    })

    return resp, e
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
return nil, e
}
op := &Operation{
&globalOperationsHandle{
c:
c.operationClient,
proto: resp,
project: req.GetProject(),
},
}
return op, nil
}
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
if err != nil {

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return err 
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *compute.Policy, req *compute.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*compute.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }

    // GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
    if err := googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    var policy *compute.Policy
    url := baseUrl.URL
    if url != nil {
        policy, err = cCompute.GetIamPolicy(url, params)
    }
    if err != nil {
        return nil, err
    }

    return policy, nil
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
    baseUrl.Path = settings.Path
}
if err != nil {
    return err
}
httpReq = httpReqWithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err & nil
}
defeat httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}
return nil,
opts...)
if e != nil {
    return nil, e
}
return resp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.

```go
cfunc (c licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}

params := url.Values{
    "requestId": fmt.Sprintf("%v", req.GetRequestId())}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReqWithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
        req = proto.Clone(req).(*computepb.ListLicensesRequest)
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
            resp := &computepb.LicensesListResponse{
                req.PageToken = proto.String(pageToken)
                req.MaxResults = proto.Uint32(uint32(pageSize))
                if pageSize > math.MaxInt32 {
                    req.MaxResults = proto.Uint32(math.MaxInt32)
                } else if pageSize != 0 {
                    req.MaxResults = proto.Uint32(uint32(pageSize))
                }
            }
            baseUrl, err := url.Parse(c.endpoint)
            if err != nil {
                return nil, nil, err
            }
            return []*, nil
        }
        return it
    }

    return it
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
if err != nil {
    return nil, "", err
}

params := url.Values{
    if req != nil && req.Filter != nil {
    }
    if req != nil && req.MaxResults != nil {
        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
    }
    if req != nil && req.ReturnPartialSuccess != nil {
    }
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    return buf
})

return nil
}, opts...)
if e != nil {
return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}
fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()
return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
return nil, err
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
    baseUrl.Path = settings.Path
  }
  if err != nil {
    return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
  }

  return nil
}, opts...)
if e != nil {
  return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
  m := protojson.MarshalOptions{AllowPartial: true}
  body := req.GetTestPermissionsRequestResource()
  jsonReq, err := m.Marshal(body)
  if err != nil {
    return nil, err
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
    return nil, err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

  // Build HTTP headers from client and context metadata.
  md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
  headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.TestPermissionsResponse{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
      if settings.Path != "" {
        baseUrl.Path = settings.Path
      }
      if err != nil {
        return err
      }
      httpReq = httpReqWithContext(ctx)
      httpReq.Header = headers
      httpRsp, err := c.httpClient.Do(httpReq)
      if err != nil {
        return err
      }
      defer httpRsp.Body.Close()
      if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
      }
      buf, err := ioutil.ReadAll(httpRsp.Body)
      if err != nil {
```
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items   []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }

    item = it.items[0]
func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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1.1109 array prototype flat 1.3.0

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

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

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

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

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This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCA CertificateFile.#

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@(#) SRCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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A. HISTORY OF THE SOFTWARE

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

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

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

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the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

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

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

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.
Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

   d) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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[[contributing-to-docs]]
= Contributing to the documentation

This section shows you how to contribute to the Strimzi documentation and contains important guidelines for
creating accessible content.

[[contribution-getting-started]]

== Getting started

Before you begin you need to:

. xref:setting-up-git[Install and set up Git]

[[contribution-accessibility]]

== Accessibility guidelines

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* Images:
  ** Include a caption
  ** Provide alternative text
  ** Are described in the surrounding text
* Images of text are not used (such as with code fragments)
* Links provide descriptive text about the target (not _click here_)
* Tables:
  ** Include a caption
  ** Contain headings
  ** Provide a logical reading order
  ** Don’t contain empty cells
* Color is not used as the only visual means to convey information (not _check the green text_)

.Example image caption and description
[source,asciidoc]

----
.Operators within the Strimzi architecture
image:operators.png[Operators within the Strimzi architecture]

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.Example table headings
[source,asciidoc]

----
.File connectors
[cols="2*",options="header"]
|===

|File Connector |
|Description |
|FileStreamSourceConnector |
|Transfers data to your Kafka cluster from a file (the source). |
## Contributing to the documentation

Once you have your local repository set up and have up to date copies of upstream content you need to follow these steps to contribute to the documentation.

### Procedure

- Open your terminal
- `cd` to the directory where your documentation resides
- Checkout the main branch
  ```
  $ git checkout main
  ```
- Update your local repository and fork with the upstream content
  ```
  $ git pull upstream main
  $ git push origin main --force
  ```
- Create a new branch for your work (using the issue number is helpful)
  ```
  $ git checkout -b <branch-name>
  ```
- Make your edits in the editor of your choice
- Save your changes locally
- Build your documentation to verify that there are no build errors and that everything looks right
  - This can be done with the `make-tooling` tooling
- If you are creating new files, add the files to the repository
  ```
  $ git status
  $ git add <file-name>
  ```
- Commit your changes
  ```
  $ git commit -a -s -m "<message>"
  ```
Note that the project requires all commits to be signed off, indicating that _you_ certify the changes with the link:https://developercertificate.org/[developer certificate of origin (DCO)].

. Push your changes to your fork

```
$ git push origin HEAD
```

. If the update is rejected because the commit is behind, merge your changes

```
$ git pull upstream main
$ git push -f origin HEAD
```

. Visit your fork on GitHub

. Click *Compare & pull request*

. If a SME review is needed:

. Add *SME Review Needed* label.

. When SME review is complete, remove *SME Review Completed* label and go to step 16.

. Add *Peer Review Needed* label and assign a Reviewer.

. When peer review has been completed, the reviewer deletes the *Peer Review Needed* label and adds the *Peer Review Done* label.

. When *Peer Review Done* label has been added:

. If no changes are needed, remove *Peer Review Done* label and add *Ready for Merge* label.

. If changes are needed and the changes are minor, make changes to the files, commit, and push, and then remove *Peer Review Done* label and add *Ready for Merge* label.

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1.1127 pflag 0.0.1

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

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

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Ty Coon, President of Vice
That's all there is to it!

1.1136 libcurl 7.61.1-22.el8

1.1136.1 Available under license:

License Mixing
================

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself
depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

## WolfSSL

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## libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license
that shouldn't collide with any other library.

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## GNU GSS

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
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)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete:      []gax.CallOption{},
        Get:         []gax.CallOption{},
        GetIamPolicy: []gax.CallOption{},
        Insert:      []gax.CallOption{},
        List:        []gax.CallOption{},
        SetIamPolicy: []gax.CallOption{},
        TestIamPermissions: []gax.CallOption{},
    }
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

func (c *LicensesClient) Insert(create *computepb.License, opts ...gax.CallOption) (*computepb.Operation, error) {
    return c.internalClient.Insert(create, opts...)
}
func (c *LicensesClient) Insert(ctx context.Context, req *compute pb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *compute pb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *compute pb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*compute pb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *compute pb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute pb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}
// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSBackend("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append(keyval...)
    kv = append(kv, "gl-go", versionGo())
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", "gax.gx.xGoogHeaderValue(kv...)")
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
    *gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{
    }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode() // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts = append(opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
            return nil
        }
        return nil
    })
    if e != nil {
        return nil, e
    }
    *resp = unm.UnmarshalResponse(resp)
    return resp, nil
}
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, e

op := &Operation{
    &globalOperationsHandle{
        c: c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, nil
    }
    return
return nil, err
}

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))


unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != ""
    baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp := c.httpClient.Do(httpReq)
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    opts = append((c.CallOptions).GetIamPolicy(0:len((c.CallOptions).GetIamPolicy())), opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        if err = unm.Unmarshal(resp, httpRsp); err != nil {
            return err
        }
        return resp
    })
    return resp, nil
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{
    }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs(
        "x-goog-request-params",
        fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))
    )
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert)]:[0:len((*c.CallOptions).Insert)], opts...)
um := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
      baseUrl.Path = settings.Path
    }
    if err != nil {
      return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
      return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
      return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
      return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
      return maybeUnknownEnum(err)
    }

    return nil
  }, opts...)
  if e != nil {
    return nil, e
  }
  op := &Operation{
    &globalOperationsHandle{
      c: c.operationClient,
      proto: resp,
      project: req.GetProject(),
    },
  }
  return op, nil}
// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
        req = proto.Clone(req).(*computepb.ListLicensesRequest)
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        it.InternalFetch = func(pageSize int, pageToken string) (*[]*computepb.License, string, error) {
            resp := &computepb.LicensesListResponse{
                if pageToken != "" {
                    req.PageToken = proto.String(pageToken)
                } else if pageSize > math.MaxInt32 {
                    req.MaxResults = proto.Uint32(math.MaxInt32)
                } else if pageSize != 0 {
                    req.MaxResults = proto.Uint32(uint32(pageSize))
                }
                baseUrl, err := url.Parse(c.endpoint)
                if err != nil {
                    return nil, "", err
                }
                params := url.Values{
                    if req != nil && req.Filter != nil {
                    } else if req.MaxResults != nil {
                        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
                    } else if req.OrderBy != nil {
                        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
                    } else if req.PageToken != nil {
                    } else if req.ReturnPartialSuccess != nil {
                    }
                    baseUrl.RawQuery = params.Encode()
                    // Build HTTP headers from client and context metadata.
                    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
                    // Build request URL with query parameters
                    req.URL = baseUrl
                    req.Method = "GET"
                    // Execute the request
                    resp, err = c.httpClient.RoundTrip(ctx, req)
                    if err != nil {
                        return nil, "", err
                    }
                    return protojson.UnmarshalResponse(resp, unm)
                }
            }
        }
    }
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
  m := protojson.MarshalOptions{AllowPartial: true}
  body := req.GetGlobalSetPolicyRequestResource()
  jsonReq, err := m.Marshal(body)
  if err != nil {
    return nil, err
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
    return nil, err
  }
req.GetResource())

  // Build HTTP headers from client and context metadata.
  md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

  headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
  opts...)
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.Policy{}
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != ""
    baseUrl.Path = settings.Path
  })
  if err != nil {
    return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return err
  }
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil }
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
    req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = 
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
    baseUrl.Path = settings.Path
  }
  if err != nil {
    return err
  }
  httpReq = httpReqWithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
  }

  return nil
}, opts...)
if e != nil {
  return nil, e
}
return resp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
  items    []*computepb.License
  pageInfo *iterator.PageInfo
  nextFunc func() error
}
// Response is the raw response for the current page.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
Response interface{}

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (  
    "context"
    compute "cloud.google.com/go/compute/apiv1"  
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {  
    ctx := context.Background()  
    c, err := compute.NewLicenseCodesRESTClient(ctx)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    defer c.Close()  
    // TODO: Use client.  
    _ = c
}  

func ExampleLicenseCodesClient_Get() {  
    ctx := context.Background()  
    c, err := compute.NewLicenseCodesRESTClient(ctx)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    defer c.Close()  
    req := &computepb.GetLicenseCodeRequest{  
        // TODO: Fill request struct fields.  
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.  
    }  
    resp, err := c.Get(ctx, req)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    // TODO: Use resp.  
    _ = resp
}
func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute_test

import (  "context"  

compute "cloud.google.com/go/compute/apiv1"  
"google.golang.org/api/iterator"  
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {  
ctx := context.Background()  
c, err := compute.NewLicensesRESTClient(ctx)  
if err != nil {  
    // TODO: Handle error.  
    
    defer c.Close()  

// TODO: Use client.  
_ = c  
}

func ExampleLicensesClient_Delete() {  
ctx := context.Background()  
c, err := compute.NewLicensesRESTClient(ctx)  
if err != nil {  
    // TODO: Handle error.  
    
    defer c.Close()  
}
req := &computepb.DeleteLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
def c.Close()

req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
def c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (  "bytes"  "context"  "fmt"  "io/ioutil"  "net/http"  "net/url"

gax "github.com/googleapis/gax-go/v2"  "google.golang.org/api/googleapi"  "google.golang.org/api/option"  "google.golang.org/api/option/internaloption"  httptransport "google.golang.org/api/transport/http"  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  "google.golang.org/grpc"  "google.golang.org/grpc/metadata"  "google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook
// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get: []gax.CallOption{},
        TestIamPermissions: []gax.CallOption{},
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get returns a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

    // Points back to the CallOptions field of the containing LicenseCodesClient CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
// 
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)

httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
    return nil, err
}

callOpts := defaultLicenseCodesRESTCallOptions()
c := &licenseCodesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
    CallOptions: &callOpts,
    }
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicenseCode{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if settings.Path != "" {
                baseUrl.Path = settings.Path
            }
            if err != nil {
                return err
            }
            httpReq = httpReq.WithContext(ctx)
            httpReq.Header = headers
            httpRsp, err := c.httpClient.Do(httpReq)
            if err != nil {
                return err
            }
            defer httpRsp.Body.Close()
            if err = googleapi.CheckResponse(httpRsp); err != nil {
                return err
            }
            buf, err := ioutil.ReadAll(httpRsp.Body)
            if err != nil {
                return err
            }
            if err := unm.Unmarshal(buf, resp); err != nil {

    }
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
tended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) { 
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).TestIamPermissions[0:len(*c.CallOptions).TestIamPermissions]:len(*c.CallOptions).Tes
tIamPermissions[]), opts...) 
umn := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse {}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != ""
        baseUrl.Path = settings.Path
    }
if err != nil {
    return err
}
```go
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
 defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
```

1.1144 talloc 2.2.0-r0

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1.1149 babel-helper-create-class-features-plugin 7.18.6

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package github
import (
"fmt"
"net/http"
"reflect"
"testing"
)
func TestLicensesService_List(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)
})
licenses, _, err := client.Licenses.List()
if err != nil {
t.Errorf("Licenses.List returned error: %v", err)
}
want := []License{License{
Key: String("mit"),
Name: String("MIT"),
URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}
func TestLicensesService_Get(t *testing.T) {
setup()
defer teardown()

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 12004


mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintf(w, `{"key":"mit","name":"MIT"}`)
})

license, _, err := client.Licenses.Get("mit")
if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
    return
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}
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 procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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import: ../../fossene/db/schema/thing.yml

fields:
  site: string

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package github

import "fmt"
// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key *string `json:"key",omitempty`    
    Name *string `json:"name",omitempty`   
    URL  *string `json:"url",omitempty`      
    HTMLURL        *string `json:"html_url",omitempty` 
    Featured       *bool  `json:"featured",omitempty` 
    Description    *string `json:"description",omitempty` 
    Category       *string `json:"category",omitempty` 
    Implementation *string `json:"implementation",omitempty` 
    Required       *[]string `json:"required",omitempty` 
    Permitted      *[]string `json:"permitted",omitempty` 
    Forbidden      *[]string `json:"forbidden",omitempty` 
    Body           *string `json:"body",omitempty` 
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }
}

// Stringify a License struct.
func Stringify(l License) string {
    return fmt.Sprintf(`
License{
    Key: %v
    Name: %v
    URL: %v
    HTMLURL: %v
    Featured: %v
    Description: %v
    Category: %v
    Implementation: %v
    Required: %v
    Permitted: %v
    Forbidden: %v
    Body: %v
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)
return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

1.1161 glibc 2.28-20.ph3

1.1161.1 Available under license :
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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@item
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@enumerate a
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1.1164 jetty-servlet 9.4.39.v20210325

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
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* java.sun.security.ssl

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org.ow2.asm:asm
org.ow2.asm:asm.commons

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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org.eclipse.jetty.toolchain:jetty-schemas

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1.1167 ema-qdisc 0.0.0-20180104102928-b307c22d3ce7

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1.1169 lua 5.3.3

1.1170 dhcp 4.3.6 41.el8

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

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c6f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
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* /opt/cola/permits/1257893343_1643020044.21/0/jopt-simple-5-0-3-sources.jar/joptsimple/util/EnumConverter.java

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* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
  jar/io/netty/channel/unix/IovArray.java
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  jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
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* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/Limits.java
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* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_util.c
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* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/SegmentedDatagramPacket.java
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java

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1.1197 kubernetes-component-base 0.21.0

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:description "Ring development and debugging libraries."
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:scm {:dir ".."}
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:dependencies [[ring/ring-core "1.3.0"
       [hiccup "1.0.5"]
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:profiles
{:1.4 {:dependencies [[org.clojure/clojure "1.4.0"]]}]
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1.1202 gophercloud v0.18.0

1.1202.1 Available under license:

package RESOURCE

import (  
  "github.com/gophercloud/gophercloud"  
  "github.com/gophercloud/gophercloud/pagination"
  )

// RESOURCE represents...  
type Resource struct {
}

type commonResult struct {
  gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method 
// to interpret it as a RESOURCE.  
type GetResult struct {
  commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method 
// to interpret it as a RESOURCE.  
type CreateResult struct {
  commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to 
// determine if the request succeeded or failed.  
type DeleteResult struct {
  gophercloud.ErrResult
}
// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](https://github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](https://github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field
If you’re adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you’re adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
```
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last
Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

### Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

#### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

#### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.
### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the
code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
code
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = ``
{
    
}
`

// GetResult provides a Get result.
const GetResult = ``
{
    
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = ``
{
    
}
`

// UpdateRequest provides the input to an Update request.
const UpdateRequest = ``
{
    
}
`

// UpdateResult provides an update result.
const UpdateResult = ``
{
    
}
`
// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, CreateResult)
    })
}
// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0

count++

actual, err := resources.ExtractResources(page)
th.AssertNoErr(t, err)

th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

return true, nil
}
th.AssertNoErr(t, err)

func TestListResourcesAllPages(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleListResourcesSuccessfully(t)

allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
th.AssertNoErr(t, err)
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
th.SetupHTTP()
.defer th.TeardownHTTP()
HandleGetResourceSuccessfully(t)

actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
.th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleCreateResourceSuccessfully(t)

createOpts := resources.CreateOpts{
    Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
.th.AssertNoErr(t, err)
func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

done:
func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOptsBuilder) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
url := listURL(client)
if opts != nil {
    query, err := opts.ToResourceListQuery()
    if err != nil {
        return pagination.Pager{Err: err}
    }
    url += query
}
    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.
Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and
responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only
supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

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

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621).
In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```
go
type Network struct {
    ID string `json:"id"
    Name string `json:"name"
    AdminStateUp bool `json:"admin_state_up"
    Status string `json:"status"
    Subnets []string `json:"subnets"
    TenantID string `json:"tenant_id"
    Shared bool `json:"shared"
}
```

to look like

```
go
type Network struct {
    ID string `json:"id"
    Name string `json:"name"
    AdminStateUp bool `json:"admin_state_up"
    Status string `json:"status"
    Subnets []string `json:"subnets"
    TenantID string `json:"tenant_id"
    Shared bool `json:"shared"
    AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).
However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.
Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[ ]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

**Code Hunting Tips**

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.
Step 1: Read Our Guides
==========================

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](https://github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE]/(docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.1203 electron-to-chromium 1.4.179
1.1203.1 Available under license:

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* /opt/cola/permits/1136066270_1613673803.28/0/bser-2-1-1-1-tgz/package/index.js

1.1206 avahi-libs 0.7-20.el8
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1.1212 to-fast-properties 2.0.0

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1.1213 prometheus-procfs 0.0.2

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proiefs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1214 commons-configuration 1.10

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1.1215 python3-websocket 0.53.0-1

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 * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 * @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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/**
 * Constructs a new GeneratorAdapter. <i>Subclasses must not use this constructor</i>. Instead, they must use the GeneratorAdapter(int, MethodVisitor, int, String, String) version.
 *
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see Opcodes).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see Type).
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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/**
 * Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
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 * version.
 *
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see {@link}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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;;; math.clj: math functions that deal intelligently with the various
;;; types in Clojure's numeric tower, as well as math functions
;;; commonly found in Scheme implementations.

;;; by Mark Engelberg (mark.engelberg@gmail.com)
;;; May 21, 2011

1.1223 google-uuid 1.1.2
1.1223.1 Available under license:

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bmatsuo
shawnps
theory
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1.1224 is-stream 1.1.0

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1.1225 babel-polyfill 6.26.0

1.1226 shared-mime-info 1.9 3.el8

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1.1228 jest-core 24.9.0

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Manifest-Version: 1.0
Bnd-LastModified: 1334585818393
Build-Jdk: 1.6.0_31
Built-By: kallestenflo
Bundle-Description: Java JsonPath implementation
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: json-path
Bundle-SymbolicName: com.jayway.jsonpath
Bundle-Version: 0.8.1
Created-By: Apache Maven Bundle Plugin
Export-Package: com.jayway.jsonpath;uses:="org.apache.commons.lang,com.jayway.jsonpath.spi";version="0.8.1",com.jayway.jsonpath.spi;uses="com.jayway.jsonpath";version="0.8.1"
Import-Package: net.minidev.json,net.minidev.json.parser,org.apache.commons.lang;version="[2.6,3)";resolution:=optional,org.codehaus.jackson;version="[1.9,2)";resolution:=optional,org.codehaus.jackson.map;version="[1.9,2)";resolution:=optional,org.codehaus.jackson.map.type;version="[1.9,2)";resolution:=optional
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1.1230 go.mongodb.org-mongo-driver 1.0.3
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BSON library for Go

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The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the
difference between a "work based on the library" and a "work that uses the library". The former contains code
derived from the library, whereas the latter must be combined with the library in order to run.

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copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public
License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with
application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A
"work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a
work containing the Library or a portion of it, either verbatim or with modifications and/or translated
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"modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library,
complete source code means all the source code for all modules it contains, plus any associated interface definition
files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its
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only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing
it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program
that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith
effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and
performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for
the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy. For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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You may convey a covered work in object code form under the terms
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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.
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1.1247 kafka-clients 3.0.0

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1.1248 go-uuid v1.3.0

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1.1249 oracle-oci-go-sdk 17.1.0+incompatible

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// Analytics API
//
// Analytics API.
//
package analytics

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (  
LicenseTypeLicenseIncluded  LicenseTypeEnum = "LICENSE_INCLUDED"
LicenseTypeBringYourOwnLicense LicenseTypeEnum = "BRING_YOUR_OWN_LICENSE"
)

var mappingLicenseType = map[string]LicenseTypeEnum{
  "LICENSE_INCLUDED":          LicenseTypeLicenseIncluded,
  "BRING_YOUR_OWN_LICENSE":   LicenseTypeBringYourOwnLicense,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
  values := make([]LicenseTypeEnum, 0)
  for _, v := range mappingLicenseType {
    values = append(values, v)
  }
  return values
}
1.1250 plexus-interpolation 1.13

1.1251 pgextwlist 1.11-4.pgdg100+1

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1.1261 base-files 10.3+deb10u9

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1.1263 glibc 2.35

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1.1267 wso2-carbon-metrics-impl 1.2.3

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1.1277 krb5-conf 1.0-r1

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Configurable modular Prometheus exporter for various node metrics.

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1281 scala-reflect 2.13.6

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1.1282 wso2-carbon-identity-oidc-dcr 6.0.53

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1.1283 lsb 10.2019051400

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1.1285 netbsd-resolv 1.21

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1.1290 binutils 2.30-108.el8_5.1

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.1293 nghttp2 1.46.0

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1.1294 rpm 4.14.3-4.el8

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That's all there is to it!
1.1295 webex-plugin-authorization-node
1.80.69

1.1295.1 Available under license:
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Found in path(s):
* /opt/cola/permits/1274516960_1645595466.3/0/plugin-authorization-node-1-80-69-tgz/package/README.md

1.1296 bindings 1.5.0
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1.1297 netty-transport-native-unix-common
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Manifest-Version: 1.0
Implementation-Title: Netty/Transport/Native/Unix/Common
Bundle-Description: Static library which contains common unix utilities.
Automatic-Module-Name: io.netty.transport.unix.common
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport-native-unix-common
Implementation-Version: 4.1.62.Final
Built-By: norman
Bnd-LastModified: 1617128320115
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)";io.netty.channel.io.
netty.channel.socket;version="[4.1,5)";io.netty.util;version="[4.1,5)
";io.netty.util.internal;version="[4.1,5)";sun.nio.ch;resolution:=opti
tional;org.eclipse.jetty.npn;version="[1,2)";resolution:=optional;org.
eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="("&osgi.ee=JavaSE)(version=1.6)"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.channel.unix;uses="io.netty.buffer.io.netty.
channel.io.netty.channel.socket.io.netty.util";version="4.1.62"
Bundle-Name: Netty/Transport/Native/Unix/Common
1.1298 wso2-carbon-siddhi-tryit-ui 2.1.23

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```
zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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```shell
npm install spdx-license-ids
```

## Node.js API

### require('spdx-license-ids')

Type: `Array<string>`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', 'AFL-1.2', ...

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `Array<string>`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
deprecatedIds.includes('GPL-3.0'); //=> true
```
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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
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validate-npm-package-license
==========================================

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
    var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
    var assert = require('assert');
    var validSPDXExpression = {
        validForNewPackages: true,
        validForOldPackages: true,
        spdx: true
    };

    assert.deepEqual(valid('MIT'), validSPDXExpression);
    assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
    assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
    assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
    assert.deepEqual(
        valid('Apache 2.0'),
        {
            validForOldPackages: false,
            validForNewPackages: false,
            warnings: [
                'license should be '+
                'a valid SPDX license expression (without "LicenseRef"), '+
                '"UNLICENSED", or '+
                '"SEE LICENSE IN <filename>"",
                'license is similar to the valid expression "Apache-2.0"
            ]
        }
    );
```

SPDX expressions are valid, too ...

```javascript
    // Simple SPDX license expression for dual licensing
```
```javascript
assert.deepEqual(
valid('GPL-3.0-only OR BSD-2-Clause'),
validSPDXExpression
);
```n

... except if they contain `LicenseRef`:

```javascript
...javascript
var warningAboutLicenseRef = {
validForOldPackages: false,
validForNewPackages: false,
spdx: true,
warnings: [
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
'"UNLICENSED", or ' +
 '"SEE LICENSE IN <filename>"',
]
};
```n

```javascript
assert.deepEqual(
valid('LicenseRef-Made-Up'),
warningAboutLicenseRef
);
assert.deepEqual(
valid('(MIT OR LicenseRef-Made-Up)'),
warningAboutLicenseRef
);
```n

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
```n
```
```n
```javascript
assert.deepEqual(
valid('SEE LICENSE IN LICENSE.txt'),
{
validForNewPackages: true,
validForOldPackages: true,
inFile: 'LICENSE.txt'
}
);
```n

```javascript
assert.deepEqual(
valid('SEE LICENSE IN license.md'),
{
```
If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

1.1305 snapdragon-node 2.1.1

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Gocheck - A rich testing framework for Go

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ypi

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1.1312 libminizip1 1.1-8+b1
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/ *
    Additional tools for Minizip
    Code: Xavier Roche '2004
    License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /opt/cola/permits/1194147243_1646404891.23/0/minizip-1-1-orig-tar-xz/minizip/mztools.h
* /opt/cola/permits/1194147243_1646404891.23/0/minizip-1-1-orig-tar-xz/minizip/mztools.c

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/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14th, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

    Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )

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Changes

See header of zip.h

*/

Found in path(s):
* /opt/cola/permits/1194147243_1646404891.23/0/minizip-1-1-orig-tar-xz/minizip/zip.h

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Introduction

---------------

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0. All possible work was done for compatibility.

Background

--------------

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

---------------------------------------
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant  - Original MiniZip author
Even Rouault   - ZIP64 unzip Support
Daniel Borca   - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout  http://result42.com/projects/ZipFileLayout
    Command line tool for Windows that shows the layout and information of the headers in a zip archive.
    Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note  http://www.pkware.com/documents/casestudies/APPNOTE.TXT
    Zip File specification

Notes.
* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2
    need to be defined.

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Version 1.1, February 14h, 2010
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  Modifications of Unzip for Zip64
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  Modifications for Zip64 support on both zip and unzip
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-----------------------------------------------

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms
of compatibility with older software. The following is from the original crypt.c.

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also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

-----------------------------------------------

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G should only read the compressed/uncompressed size from the Zip64 format if the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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*/

Found in path(s):
*/opt/cola/permits/1194147243_1646404891.23/0/minizip-1-1-orig-tar-xz/minizip/unzip.c

No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
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For more info read MiniZip_info.txt

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Changes

See header of unzip64.c

Changes

See header of unzip64.c

*/

Found in path(s):
* /opt/cola/permits/1194147243_1646404891.23/0/minizip-1-1-orig-tar-xz/minizip/unzip.h

1.1313 sisu 0.3.3-
6.module_el8.0.0+39+6a9b6e22
1.1313.1 Available under license :

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 */
package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}
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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>. For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:
<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
</ul>
If there is no following character (i.e. the replaceable was empty), use default metadata.

If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata.

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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`ReplaceableString` is an adapter class that implements the `Replaceable` API around an ordinary `StringBuffer`.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement `{@link Replaceable}` in their text representation class.

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@see Replaceable
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@stable ICU 2.0

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

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e) Provide Installation Information, but only if you would otherwise
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the
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---------------------------------------------------------------------------

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1.1335 commander 2.14.1
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1.1336 ncp 2.0.0

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1.1337 libxcb 1.12-1

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1.1338 icu 64

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHARDEDLIBCFLAGS = -fPIC
SHARDEDLIBCXXFLAGS = -fPIC
SHARDEDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $(STATICCPPFLAGS)
%.o: $(srcdir)/%.c
## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n | sed \"s/\(\$*\)\.(o|so) [:]*/\1.o $@ : /g\" > $@;\\ 
 [ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n | sed \"s/\(\$*\)\.(o|so) [:]*/\1.o $@ : /g\" > $@;\\ 
 [ -s $@ ] || rm -f $@"

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.1339 client-go 0.17.2
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* /opt/cola/permits/1258889380_1643121798.98/0/saslprep-1-1-sources-jar/com/ongres/saslprep/SaslPrep.java

1.1345 is-ci 1.2.1

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iD8DBQFEnjfA9nwdoZUd8/ERArwdAJ4lzyXEi4zSllJwEAxkntGPhzMRswCfrsdI
RUio0BYmYpaETSxt2oLFU=
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Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal, Quebec (Canada)

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Version: GnuPG v1.0.7 (GNU/Linux)
iD8DBQFE85cgao9Frj/CrIRAmuJAKCFgi4W0UOH8IUa+SV6PBHRF3BnLgCcDqqCZokktko8THfwaa5TtxQbScw=
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iD8DBQFFoniQVhlfUs9dGQRAmJmAJwL5y1loohhVQIIcparvjHMQuwqwCgizFyLBDVad1bJv1EHY901kPceg=
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=gAqN
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Version: GnuPG v1.4.1 (Darwin)
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8sfMxEDZquihVbfZU2e76U=
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Mailing Address: 4676 Admiralty Way, Suite 520
              Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail:    gordon.king@simulalabs.com
Fax:       +1 800 822 0471

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

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<table>
<thead>
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<th>Name</th>
<th>Date added</th>
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<td>Simone Bordet</td>
<td>12 September 2006</td>
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jar/org/springframework/web/client/RequestCallback.java
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 * /opt/cola/permits/1136508396_1613775489.65/0/spring-web-4-1-6-release-sources-1-jar/org/springframework/web/context/request/ServletRequestWebRequest.java
 * /opt/cola/permits/1136508396_1613775489.65/0/spring-web-4-1-6-release-sources-1-jar/org/springframework/web/context/HttpHeaders.java
 * /opt/cola/permits/1136508396_1613775489.65/0/spring-web-4-1-6-release-sources-1-jar/org/springframework/web/context/AbstractContextLoaderInitializer.java
 * /opt/cola/permits/1136508396_1613775489.65/0/spring-web-4-1-6-release-sources-1-jar/org/springframework/web/context/AbstractContextLoaderInitializer.java
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 * /opt/cola/permits/1136508396_1613775489.65/0/spring-web-4-1-6-release-sources-1-jar/org/springframework/web/context/AbstractContextLoaderInitializer.java
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  jar/org/springframework/web/client/HttpClientErrorException.java
* /opt/cola/permits/1136508396_1613775489.65/0/spring-web-4-1-6-release-sources-1-
  jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java
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* /opt/cola/permits/1136508396_1613775489.65/0/spring-web-4-1-6-release-sources-1-
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LIBGCRYPT Werner Koch 2001-06-07
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GNUPG Matthew Skala 1998-08-10
Disclaims changes.
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Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
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Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
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GNUPGR Â©mi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encri-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
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ANY g10 Code GmbH 2001-06-07
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LIBGCRYPT Timo Schulz 2001-08-31
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LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,
CTS/MAC flags, self test improvements)
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LIBGCRYPT Moritz Schulte 2003-04-17
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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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GNUPG David Shaw
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(cipher/ecc.c and related files)

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(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26
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1.1367 wso2-carbon-apimgt-keymgt-client

6.4.50

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/**
 * Any exception thrown by a MessageBodyReader chain that is not an instance of a ReaderException is caught internally
 * by the Resteasy runtime and wrapped with an instance of ReaderException.
 *
 * If you want to have special exception handling for exceptions thrown by MessageBodyReaders, then write an exception
 * mapper for ReaderException.
 *
 * Also, you may extend this class and throw instances of it from your MessageBodyReaders (and interceptors)
 *
 * @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
 * @version $Revision: 1 $
 */

Found in path(s):
* /opt/cola/permits/1271008327_1644868677.77/0/resteasy-core-spi-4-3-0-final-sources-
  jar/org/jboss/resteasy/spi/ReaderException.java
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/**
 * Any exception thrown by a MessageBodyWriter chain that is not an instance of a WriterException is caught internally
 * by the Resteasy runtime and wrapped with an instance of WriterException.
 *
 * If you want to have special exception handling for exceptions thrown by MessageBodyWriters and their interceptors, then write an exception
 * mapper for WriterException.
 *
 * Also, you may extend this class and throw instances of it from your MessageBodyWriters (and interceptors)
 *
 * @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
 * @version $Revision: 1 $
1.1369 libc-l10n 2.28-10

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1.1374 libboost-system 1.67.0 1.67.0-13+deb10u1
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -
Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Petersen(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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///
The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid:

```
..././././libs/mpl[MPL] sequences.
```

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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// For more information: http://goo.gl/8us55a#licenseObject
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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At the bottom of this file is a table that shows what each license indicated below is and where the actual text of the license can be found.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1407 wso2-carbon-identity-oauth-stub

6.0.53

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### Pablo Pinhero

* Add a "lib" target to the build: jar with all dependencies builtin.

### Corey Sciuto

* Tests for date-time format attribute; date-time-millis format attribute (now superseded by date-time itself).

### Matt Bishop:

* Initial OSGi support for maven (now superseded by Gradle).

### Kelvin Pho

* Pointer collectors for draft v4 keywords (since then moved to -core).

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1.1418 leodido-go-urn 1.1.0

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1.1419 vaadin-charts 4.0.5

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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Amendment II

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Amendment III

No soldier shall, in time of peace be quartered in any house, without the consent of the owner, nor in time of war, but in a manner to be prescribed by law.

Amendment IV

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no warrants shall issue, but upon probable cause, supported by oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.

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In all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury of the state and district wherein the crime shall have been committed, which district shall have been previously ascertained by law, and to be informed of the nature and cause of the accusation; to be confronted with the witnesses against him; to have compulsory process for obtaining witnesses in his favor, and to have the assistance of counsel for his defense.

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1.1441 go-toml wso2-apimcli-1.2.0

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1.1442 lodash-cacheindexof 3.0.2

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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/DynamicSetterAccessor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessorNest.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ConstructorAccessor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessorNest.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/FunctionAccessor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessorNest.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/MethodAccessor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessorNH.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/collection/MDArrayCreator.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/GetterAccessorNH.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/DynamicFunctionAccessor.java
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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/MapCreator.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessor.java

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*/
/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *          If a subclass calls this constructor.
 */

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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/util/Textifier.java

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  jar/org/mvel2/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-
  jar/org/mvel2/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-
  jar/org/mvel2/asm/xml/Processor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-
  jar/org/mvel2/asm/xml/SAXFieldAdapter.java
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*/
/**
 * Constructs a new {link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *    a reference to the annotated type. See {link TypeReference}.
 * @param typePath
 *    the path to the annotated type argument, wildcard bound, array
 *    element type, or static inner type within 'typeRef'. May be
 *    <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 *    the fist instructions corresponding to the continuous ranges
 *    that make the scope of this local variable (inclusive).
 * @param end
 *    the last instructions corresponding to the continuous ranges
 *    that make the scope of this local variable (exclusive). This
 *    array must have the same size as the 'start' array.
 * @param index
 *    the local variable's index in each range. This array must have
 *    the same size as the 'start' array.
 * @param desc
 *    the class descriptor of the annotation class.
 */

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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/analysis/package.html
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/attrs/package.html
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/package.html
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/signature/package.html
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/util/package.html
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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 *     the owner's class name.
 * @param access
 *     the method's access flags (see {@link Opcodes}).
 * @param name
 *     the method's name.
 * @param desc
 *     the method's descriptor (see {@link Type}).
 * @param mv
 *     the method visitor to which this adapter delegates calls. May
 *     be <tt>null</tt>.
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/Handler.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/LabelNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/FrameNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/InnerClassNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/FieldWriter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/ByteVector.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/analysis/Value.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-
jar/org/mvel2/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/InsnList.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/Edge.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/ClassWriter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/Context.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/InsnNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/FieldNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/commons/Method.java
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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/util/TraceSignature Visitor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/commons/Remapper.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/MethodNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/signature/SignatureReader.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/Frame.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/Label.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/FieldVisitor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/VarInsnNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/common/Attribute.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/commons/RemappingClassAdapter.java
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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/tree/SourceInterpreter.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/Type.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/Type.java
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*/
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 * 
 * @param mv
 *    the <code>MethodVisitor</code> to send the resulting inlined
 *    method code to (use <code>null</code> for none).
 * @param access
 *    the method's access flags (see {@link Opcodes}). This
 *    parameter also indicates if the method is synthetic and/or
 *    deprecated.
 * @param name
 *    the method's name.
 * @param desc
 *    the method's descriptor (see {@link Type}).
 * @param signature
 *    the method's signature. May be <tt>null</tt>.
 * @param exceptions
 *    the internal names of the method's exception classes (see
 *    {@link Type#getInternalName() getInternalName}). May be
 *    <tt>null</tt>.
 * @throws IllegalStateException
 *    If a subclass calls this constructor.
 */

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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/commons/JSRInlinerAdapter.java

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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/ConversionHandler.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/ErrorDetail.java

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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/asm/TypeReference.java

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*/
/**
 * Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 */

* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-
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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/compiler/ExpressionCompiler.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/integration/impl/DefaultLocalVariableResolverFactory.java
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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/MVELInterpretedRuntime.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/integration/impl/IndexedVariableResolverFactory.java
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* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/templates/res/CompiledEvalNode.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/sh/Main.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/integration/impl/ImmutableDefaultFactory.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/util/ArrayTools.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2/compiler/CompiledExpression.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2/sh/CommandException.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2/optimizers/AccessorOptimizer.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2/templates/TemplateCompiler.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-
jar/org/mvel2/compiler/BlankLiteral.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/conversion/ArrayHandler.java
* /opt/cola/permits/1274596067_1645218639.59/0/mvel2-2-3-1-final-sources-jar/org/mvel2/debug/DebuggerContext.java
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1.1445 spring-web 4.3.14.RELEASE

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* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-jar/org/springframework/web/bind/EscapedErrors.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-jar/org/springframework/web/multipart/support/StandardServletMultipartResolver.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-jar/org/springframework/web/filter/HttpPutFormContentFilter.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
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* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
  jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
  jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
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* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/web/context/request/ServletWebRequest.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/http/converter/GenericHttpMessageConverter.java

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* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/remoting/httpinvoker/HttpInvokerRequestExecutor.java
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jar/org/springframework/web/bind/annotation/RequestMethod.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
jar/org/springframework/web/cors/CorsUtils.java

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  jar/org/springframework/web/client/ResponseExtractor.java
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  jar/org/springframework/web/client/support/RestGatewaySupport.java
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  jar/org/springframework/web/bind/annotation/Mapping.java
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  jar/org/springframework/http/client/SimpleBufferingClientHttpRequest.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
  jar/org/springframework/web/bind/support/WebRequestDataBinder.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
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* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
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1.1450 acl v3.5.1

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**1.1451 webencodings 0.5.1**

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
from setuptools import setup, find_packages
import io
import re

VERSION = re.search("VERSION = '([^\']+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
    ]
)
"Topic :: Internet :: WWW/HTTP",
]
packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1-tar.gz/webencodings-0.5.1/setup.py
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===

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~
Regenerate the webencodings.labels module.

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===

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [""

===

webencodings.labels
~~~~~~~~~~~~~~~~~~~~
Map encoding labels to their name.

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===

# XXX Do not edit!
# This file is automatically generated by mklabels.py

```python
LABELS = {
    
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']
    
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        ' %s:%s %s
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))
```

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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**Metadata-Version:** 1.1  
**Name:** webencodings  
**Version:** 0.5.1  
**Summary:** Character encoding aliases for legacy web content  
**Home-page:** https://github.com/SimonSapin/python-webencodings  
**Author:** Geoffrey Sneddon  
**Author-email:** me@gsnedders.com  
**License:** BSD  
**Description:** python-webencodings

```
This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
```
when interpreting something like "Content-Type: text/html; charset=latin1", tools need to use a particular set of aliases for encoding labels as well as some overriding rules.
For example, "US-ASCII" and "iso-8859-1" on the web are actually aliases for "windows-1252", and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.
The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/PKG-INFO
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

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python-webencodings

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
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In order to be compatible with legacy web content when interpreting something like `"Content-Type: text/html; charset=latin1`", tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, `"US-ASCII"` and `"iso-8859-1"` on the web are actually aliases for `"windows-1252"`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst

---

**1.1452 e2fsprogs 1.45.6 1.el8**

**1.1452.1 Available under license:**

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB)"

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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and what the program that uses the Library does.

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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That's all there is to it!
DRuntime: Runtime Library for the D Programming Language
======================================================================

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.1461 rpm-plugin-systemd-inhibit 4.14.3-19.el8

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The End
1.466 wso2-carbon-event-input-adapter-websocket 5.1.42

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hazelcast_3.5.4.wso2v2.jar  bundle  apache2  3638
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jaxb_2.2.5.wso2v1.jar  bundle  cddl1  883
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jettison_1.3.4.wso2v1.jar  bundle  apache2  2162
jstl_1.2_1.wso2v2.jar  bundle  cddl1  2204
neethi_2.0_4.wso2v5.jar  bundle  apache2  6276
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org.eclipse.equinox.concurrent_1.1.0.0.v20130327-1442.jar  bundle  epl1  1122
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1.1492 webidl-conversions 3.0.1

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1.1493 cloud-google-com-go 0.53.0

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package compute

import (  
"bytes"  
"context"  
"fmt"  
"io/ioutil"  
"net/http"  
"net/url"

    gax "github.com/googleapis/gax-go/v2"  
    "google.golang.org/api/googleapi"  
    "google.golang.org/api/option"  
    "google.golang.org/api/option/internaloption"  
    httptransport "google.golang.org/transport/http"  
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  
    "google.golang.org/grpc"  
    "google.golang.org/grpc/metadata"  
    "google.golang.org/protobuf/encoding/protojson"
)

---
var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get              []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API. Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)}

// Connection returns a connection to the API service.
//
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }

    return c, nil
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }, nil }

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read
// the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource.  Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestIamPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",

req.GetProject(), req.GetResource())

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}
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package compute_test

import (  
    "context"  
    compute "cloud.google.com/go/compute/apiv1"  
    "google.golang.org/api/iterator"  
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  
)

func ExampleNewLicensesRESTClient() {  
    ctx := context.Background()  
    c, err := compute.NewLicensesRESTClient(ctx)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    defer c.Close()  

    // TODO: Use client.  
    _ = c  
}

func ExampleLicensesClient_Delete() {  
    ctx := context.Background()  
    c, err := compute.NewLicensesRESTClient(ctx)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    defer c.Close()  

    req := &computepb.DeleteLicenseRequest{  
        // TODO: Fill request struct fields.  
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.  
    }  
    resp, err := c.Delete(ctx, req)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    // TODO: Use resp.  
    _ = resp  
}

func ExampleLicensesClient_Get() {  
    ctx := context.Background()  
    c, err := compute.NewLicensesRESTClient(ctx)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    defer c.Close()  

    // TODO: Fill request struct fields.  
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.  
    req := &computepb.GetLicenseRequest{  
    }  
    resp, err := c.Get(ctx, req)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    // TODO: Use resp.  
    _ = resp  
}
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
    // TODO: Use resp.
_ = resp

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
    }
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// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.

} 
resp, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_List() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
resp, err := it.Next()
if err == iterator.Done {
break
}
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute_test

import ("context")
func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest

}  
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

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package compute

import (
  "bytes"
  "context"
  "fmt"
  "io/ioutil"
  "math"
  "net/http"
  "net/url"

gax "github.com/googleapis/gax-go/v2"
  "google.golang.org/api/googleapi"
  "google.golang.org/api/iterator"
  "google.golang.org/api/option"
  "google.golang.org/api/option/internaloption"
  httptransport "google.golang.org/api/transport/http"
  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
  "google.golang.org/grpc"
  "google.golang.org/grpc/metadata"
  "google.golang.org/protobuf/encoding/protojson"
  "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
  Delete []gax.CallOption
  Get []gax.CallOption
  GetIamPolicy []gax.CallOption
  Insert []gax.CallOption
  List []gax.CallOption
  SetIamPolicy []gax.CallOption
  TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
  Close() error
  setGoogleClientInfo(...string)
  Connection() *grpc.ClientConn
  Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)

// LicensesClient is a client for interacting with Google Compute Engine API. // Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls. // // // The Licenses API.

// LicenseClient struct { // The internal transport-dependent client. internalClient internalLicensesClient

// The call options for this service. CallOptions *LicensesCallOptions

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when // the client is no longer required.
func (c *LicensesClient) Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in // the `x-goog-api-client` header passed on each request. Intended for // use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service. // Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
  // The http endpoint to connect to.
  endpoint string

  // The http client.
  httpClient *http.Client

  // The x-goog-* metadata to be sent with each request.
  xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
  clientOptns := append(defaultLicensesRESTClientOptions(), opts...)
  httpClient, endpoint, err := httptransport.NewClient(ctx, clientOptns...)
  if err != nil {
    return nil, err
  }

c := &licensesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
  return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {

//
kv := append([]string{"gl-go", versionGo()}, keyval...)  
kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")  
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when  
// the client is no longer required.  
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.  
c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.  
// Deprecated.  
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license.  Caution This resource is intended for use only by third-party partners who are  
// creating Cloud Marketplace images.  
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts  
    ...gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)  
    baseParams := url.Values{}
    if req != nil && req.RequestId != nil {
        baseParams.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = baseParams.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)  
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }

    var resp gax.Operation
    if err := gax.ReadResponse(ctx, httpRsp, &resp); err != nil {
        return nil, err
    }
    return &resp, nil
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    }
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    req.GetResource())

    params := url.Values{
    if req != nil & req.OptionsRequestedPolicyVersion != nil {
    }

    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{
        if req != nil && req.RequestId != nil {
            params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
        }
    }
    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}

op := &Operation{proto: rsp}
return op, err

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud.  Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        } else if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, _ := url.Parse(c.endpoint)
        }

params := url.Values{}
if req != nil && req.Filter != nil {
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
}
if req != nil && req.ReturnPartialSuccess != nil {
}

baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, "", err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItem(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    return nil, maybeUnknownEnum(err)
}

baseURL, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

    // PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
    func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
        return it.pageInfo
    }
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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1.1495 spdx-license-ids 3.0.3

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    root = true

    [*]
    charset = utf-8
    end_of_line = lf
    indent_style = tab
A list of SPDX license identifiers

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[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/getting-started/what-is-npm):

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', 'AFL-1.2', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```
### require('spdx-license-ids/deprecated')

Type: `<Array<string>>`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
...
```

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1.1498 lodash-clone 3.0.3

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1.1499 plexus-sec-dispatcher 1.4

1.1500 ant 1.7.0.wso2v1
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## -*-makefile-*- 
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD) 
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## Commands to generate dependency files 
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS) 
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS) 

## Flags for position independent code 
SHAREDLIBCFLAGS = -fPIC 
SHAREDLIBCXXFLAGS = -fPIC 
SHAREDLIBCPPFLAGS = -DPIC 

## Additional flags when building libraries and with threads 
THREADSCPPFLAGS = -D_REENTRANT 
LIBCPPFLAGS = 

## Compiler switch to embed a runtime search path 
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name 
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options 
LD_SOOPTIONS= -Wl,-Bsymbolic 

## Shared object suffix 
SO = so 
## Non-shared intermediate object suffix 
STATIC_O = ao 

## Compilation rules 
%.$(STATIC_O): $(srcdir)/%.c 
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $< 
%:.o: $(srcdir)/%.c 
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $< 

%.$(STATIC_O): $(srcdir)/%.cpp 
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $< 
%:.o: $(srcdir)/%.cpp 
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $< 

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## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed 's\([^@]/\A.o[: ]*\A.o : /g' > $@;\n [ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed 's\([^@]/\A.o[: ]*\A.o : /g' > $@;\n [ -s $@ ] || rm -f $@’

## Versioned libraries rules

$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$.($SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$.($SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.1506 base 0.11.2
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1.1507 vertx-service-proxy 3.9.1

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* /opt/cola/permits/1274596199_1645218316.05/0/vertx-service-proxy-3-9-1-sources-jar/io/vertx/serviceproxy/ServiceBinder.java
* /opt/cola/permits/1274596199_1645218316.05/0/vertx-service-proxy-3-9-1-sources-jar/io/vertx/serviceproxy/ProxyHelper.java
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1.1508 to-regex-range 2.1.1

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The Internet Explorer DTD's are written by Mark Buckley <mbuckley@microsoft.com>, and is described at

Internet Explorer DTD and Mozilla DTD were downloaded from <URL:http://www.webtechs.com/html/>; since that doesn't seem to be
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(last updated $Date: 1999/02/18 15:33:44 $)

References

1. http://www.w3.org/
3. http://www.inria.fr/
5. http://www.w3.org/
7. http://www.inria.fr/
10. mailto:site-policy@w3.org
11. http://w3.org/Help/Webmaster.html

Note that I received the following clarification from the W30
regarding their license.

From: "Joseph M. Reagle Jr. (W3C)" <reagle@w3.org>
Subject: Re: copyright question concerning published DTDs
To: Adam Di Carlo <adam@onshore.com>
At 12:51 PM 3/22/99 -0500, Adam Di Carlo wrote:
> Hello. I have the responsibility of assessing the current copyright
> of W3C DTDs accompanying your specifications, on behalf of the Debian
> project <URL:http://www.debian.org/>.

Interesting question Adam!

> I would think that the W3C is
> happy to allow derivative DTDs so long as they don't represent
> themselves as W3C standards? If so, would it be possible to get
> clarification about the licensing and rights granted for DTDs?

You are right with respect to our general approach. I suspect that as long
as the DOCTYPE is different from our own, and they attribute it as a work
derived from W3C, we'd give permission. Let me bounce this off a few folks
here, and I'll get you a definitive answer shortly.

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Local variables:
mode: outline
End:

1.1510 nghttp2 1.33.0 3.el8_2.1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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=head1 NAME

Exporter - Implements default import method for modules

=head1 SYNOPSIS

In module F<YourModule.pm>:
package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

package YourModule;
use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

use YourModule qw(frobnicate);      # import listed symbols
frobnicate ($left, $right)          # calls YourModule::frobnicate

Take a look at L</Good Practices> for some variants
you will like to use in modern Perl code.

=head1 DESCRIPTION

The Exporter module implements an C<import> method which allows a module
to export functions and variables to its users' namespaces. Many modules
use Exporter rather than implementing their own C<import> method because
Exporter provides a highly flexible interface, with an implementation optimised
for the common case.

Perl automatically calls the C<import> method when processing a
C<use> statement for a module. Modules and C<use> are documented
in L<perlfunc> and L<perlmod>. Understanding the concept of
modules and how the C<use> statement operates is important to
understanding the Exporter.

=head2 How to Export

The arrays C:@EXPORT> and C:@EXPORT_OK> in a module hold lists of
symbols that are going to be exported into the users name space by
default, or which they can request to be exported, respectively. The
symbols can represent functions, scalars, arrays, hashes, or typeglobs.
The symbols must be given by full name with the exception that the
ampersand in front of a function is optional, e.g.

    @EXPORT     = qw(afunc $scalar @array);  # afunc is a function
    @EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the
ampersand, as the implementation is faster this way.
Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use C<@EXPORT_OK> in preference to C<@EXPORT> and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the C<YourModule::item_name> (or C<< $blessed_ref->method >>) syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

my $subref = sub { ... };
$subref->(@args);    # Call it as a function
$obj->$subref(@args);  # Use it as a method

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then C<@EXPORT_OK> anything but use C<@EXPORT> with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's C<@EXPORT> into the namespace of the C<use> statement.

=item C<use YourModule ();>

This causes perl to load your module but does not import any symbols.
This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your C<@EXPORT> or C<@EXPORT_OK>, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

- `![name]` This name only
- `![]:DEFAULT` All names in @EXPORT
- `![]:tag` All names in $EXPORT_TAGS{tag} anonymous list
- `![]:pattern/` All names in @EXPORT and @EXPORT_OK which match

A leading `!` indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

e.g., F<Module.pm> defines:

```perl
@EXPORT = qw(A1 A2 A3 A4 A5);
@EXPORT_OK = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:
use Socket qw(!/\AF_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 }> to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

   MyPackage->export_to_level(
      $where_to_export, $package, @what_to_export
   );

where C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C@$what_to_export> is an array telling what symbols *to* export (usually this is C$_> ). The C$package> argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

   package A;

   @ISA = qw(Exporter);
   @EXPORT_OK = qw($b);
   sub import
   { $A::b = 1; # not a very useful import method
    }

and you want to Export symbol C$A::b> back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

   package A;
   @ISA = qw(Exporter);
   @EXPORT_OK = qw($b);
sub import
{
$A::b = 1;
A->export_to_level(1, @_);
}

This will export the symbols one level 'above' the current package - ie: to
the program or module that used package A.

Note: Be careful not to modify C<@_> at all before you call export_to_level
- or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method
but you also inherit several other helper methods which you probably don't
want. To avoid this you can do:

package YourModule;
use Exporter qw(import);

which will export Exporter's own import() method into YourModule.
Everything will work as before but you won't need to include Exporter in
C<@YourModule::ISA>.

Note: This feature was introduced in version 5.57
of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a
module into a call to C<< $module_name->VERSION($value) >>. This can
be used to validate that the version of the module being used is
greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that
simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION>
existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as
a simple numeric value it will regard version 1.10 as lower than
1.9. For this reason it is strongly recommended that you use numbers
with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being
exported. Typically this applies to extensions which have functions
or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed
in the C<@EXPORT_FAIL> array.

If a module attempts to import any of these symbols the Exporter
will give the module an opportunity to handle the situation before
generating an error. The Exporter will call an export_fail method
with a list of the failed symbols:

    @failed_symbols = $module_name-&gt;export_fail(@failed_symbols);

If the C<export_fail> method returns an empty list then no error is
recorded and all the requested symbols are exported. If the returned
list is not empty then an error is generated for each symbol and the
export fails. The Exporter provides a default C<export_fail> method which
simply returns the list unchanged.

Uses for the C<export_fail> method include giving better error messages
for some symbols and performing lazy architectural checks (put more
symbols into C:@EXPORT_FAIL by default and then take them out if someone
actually tries to use them and an expensive check shows that they are
usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within C%EXPORT_TAGS must also appear in either
C:@EXPORT or C:@EXPORT_OK, two utility functions are provided which allow
you to easily add tagged sets of symbols to C:@EXPORT or C:@EXPORT_OK:

    %EXPORT_TAGS = (foo =&gt; [qw(aa bb cc)], bar =&gt; [qw(aa cc dd)]);

    Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
    Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to C:@EXPORT or C:@EXPORT_OK
unchanged but will trigger a warning (with C-&gt;w) to avoid misspelt tags
names being silently added to C:@EXPORT or C:@EXPORT_OK. Future versions
may make this a fatal error.

=head2 Generating Combined Tags

If several symbol categories exist in C%EXPORT_TAGS, it's usually
useful to create the utility "all" to simplify "use" statements.

The simplest way to do this is:
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other "class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;

  push @{$EXPORT_TAGS{all}},
    grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

F<CGI.pm> creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

# add some of the other "class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;

  push @{$EXPORT_TAGS{all}},
    grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
      foreach qw/html2 html3 netscape form cgi internal/;
}

Note that the tag names in C<%EXPORT_TAGS> don't have the leading ":".

=head2 C<AUTOLOAD>ed Constants

Many modules make use of C<AUTOLOAD>ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see L<perlsub> for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been C<AUTOLOAD>ed yet). perl needs to examine both the C<>()> prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a C<BEGIN> block:

package My ;

use Socket ;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.

This forces the C<AUTOLOAD> for C<SO_LINGER> to take place before
SO_LINGER is encountered later in C<My> package.

If you are writing a package that C<AUTOLOAD>s, consider forcing
an C<AUTOLOAD> for any constants explicitly imported by other packages
or which are usually used when your package is C<use>d.

=head1 Good Practices

=head2 Declaring C<@EXPORT_OK> and Friends

When using C<Exporter> with the standard C<strict> and C<warnings>
pragmas, the C<our> keyword is needed to declare the package
variables C<@EXPORT_OK>, C<@EXPORT>, C<@ISA>, etc.

our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important,
one must write instead a C<use vars> statement.

use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);

=head2 Playing Safe

There are some caveats with the use of runtime statements
like C<require Exporter> and the assignment to package
variables, which can be very subtle for the unaware programmer.
This may happen for instance with mutually recursive
modules, which are affected by the time the relevant
constructions are executed.

The ideal (but a bit ugly) way to never have to think
about that is to use C<BEGIN> blocks. So the first part
of the L</SYNOPSIS> code could be rewritten as:

package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request
}

The C<BEGIN> will assure that the loading of F<Exporter.pm>
and the assignments to C<@ISA> and C<@EXPORT_OK> happen
immediately, leaving no room for something to get awry
or just plain wrong.

With respect to loading C<Exporter> and inheriting, there
are alternatives with the use of modules like C<base> and C<parent>.

use base qw(Exporter);
# or
use parent qw(Exporter);

Any of these statements are nice replacements for
C<BEGIN { require Exporter; @ISA = qw(Exporter); }>
with the same compile-time effect. The basic difference
is that C<base> code interacts with declared C<fields>
while C<parent> is a streamlined version of the older
C<base> code to just establish the IS-A relationship.

For more details, see the documentation and code of
L<base> and L<parent>.

Another thorough remedy to that runtime
vs. compile-time trap is to use L<Exporter::Easy>,
which is a wrapper of Exporter that allows all
boilerplate code at a single gulp in the
use statement.

use Exporter::Easy (  
   OK => [ qw(munge frobnicate) ],
 );  
# @ISA setup is automatic
# all assignments happen at compile time

=head2 What Not to Export

You have been warned already in L<Selecting What to Export>
to not export:

=over 4

=item *


method names (because you don't need to
and that's likely to not do what you want),

anything by default (because you don't want to surprise your users... badly)

anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names. Just because C<Exporter> lets you do that, it does not mean you should.

```
@EXPORT_OK = qw($svar @avar %hvar); # DON'T!
```

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

=head1 SEE ALSO

C<Exporter> is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Pick the one that fits your needs. The following is a sample list of such modules.

- Exporter::Easy
- Exporter::Lite
- Exporter::Renaming
- Exporter::Tidy
- Sub::Exporter / Sub::Installer
- Perl6::Export / Perl6::Export::Attrs

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testabstract: 'Implements default import method for modules'
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.68, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Exporter
no_index:
directory:
  - t
  - inc
recommends:
  Test::Pod: 1.18
  Test::Pod::Coverage: 1.04
requires:
  Carp: 1.05
resources:
  bugtracker: http://rt.perl.org/perlbug/
  license: http://dev.perl.org/licenses/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD/lib
  x_MailingList: http://lists.perl.org/list/perl5-porters.html
  version: 5.70
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* /opt/cola/permits/1151709802_1617968459.71/0/swagger-annotations-1-5-10-sources.jar/io/swagger/annotations/ApiImplicitParam.java
* /opt/cola/permits/1151709802_1617968459.71/0/swagger-annotations-1-5-10-sources.jar/io/swagger/annotations/SwaggerDefinition.java
* /opt/cola/permits/1151709802_1617968459.71/0/swagger-annotations-1-5-10-sources.jar/io/swagger/annotations/ApiResponses.java
* /opt/cola/permits/1151709802_1617968459.71/0/swagger-annotations-1-5-10-sources.jar/io/swagger/annotations/ApiModelProperty.java
* /opt/cola/permits/1151709802_1617968459.71/0/swagger-annotations-1-5-10-sources.jar/io/swagger/annotations/ApiModel.java
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* /opt/cola/permits/1151709802_1617968459.71/0/swagger-annotations-1-5-10-sources.jar/io/swagger/annotations/ResponseHeader.java
* /opt/cola/permits/1151709802_1617968459.71/0/swagger-annotations-1-5-10-sources.jar/io/swagger/annotations/Example.java

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* /opt/cola/permits/1151709802_1617968459.71/0/swagger-annotations-1-5-10-sources-2.jar/io/swagger/annotations/SwaggerDefinition.java
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* /opt/cola/permits/1151709802_1617968459.71/0/swagger-annotations-1-5-10-sources-2.jar/io/swagger/annotations/ApiModelProperty.java
* /opt/cola/permits/1151709802_1617968459.71/0/swagger-annotations-1-5-10-sources-2.jar/io/swagger/annotations/ApiModelProperty.java
* /opt/cola/permits/1151709802_1617968459.71/0/swagger-annotations-1-5-10-sources-2.jar/io/swagger/annotations/ApiModel.java
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## ASM Bytecode Manipulation Framework v6.0

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1.1525 coredns-caddy 1.1.0

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1.1526 nghttp2-dev 1.47.0-r0

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set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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1.1537 debian-archive-keyring 2019.1
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1.1538 html-encoding-sniffer 1.0.2

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned intnfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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[Tatu continues]
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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/

#endif HAVE_SETREGID
int setregid(gid_t, gid_t, gid_t);
#endif
#endif HAVE_SETREUID
int setreuid(uid_t, uid_t, uid_t);
#endif
/*
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/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

/* ifndef HAVE_WAITPID */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* ifndef _BSD_WAITPID_H */
#define _BSD_WAITPID_H

/* ifndef HAVE_WAITPID */
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----------------------------------------------------------------------------
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#
# These people were responsible for the initial implementations in Java and
# C++.

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David Beaumont

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# requests, and porting new features to Javascript.

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-- Initial implementation, some subsequent maintenance.
James Wright
-- Short number info port to Javascript.

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-- Offline geocoder, local Maven expert.
Cecilia Roes
-- Carrier mapper.
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1.1570 openssl 1.1.0l-1~deb9u6

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1.1571 apr 1.5.2-5

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file_io/unix/mktemp.c, strings/apr_strings.c:

    /*
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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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1.1572 yarn 1.21.1

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HTTP/1.1 200 OK
Date: Wed, 12 Apr 2017 18:11:29 GMT
Content-Type: application/octet-stream
Content-Length: 5169
Connection: keep-alive
Set-Cookie: __cfduid=d486b95f573144a6f389235c7c49b35801492020688; expires=Thu, 12-Apr-18 18:11:28 GMT; path=/; domain=.yarnpkg.com; HttpOnly
Last-Modified: Sun, 23 Aug 2015 23:36:10 GMT
ETag: "55da58ea-1431"
Expires: Fri, 11 Nov 2016 11:23:05 GMT
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: GET
Cache-Control: max-age=21600
Accept-Ranges: bytes
Via: 1.1 varnish
Age: 17863
X-Served-By: cache-lcy1136-LCY
X-Cache: HIT
X-Cache-Hits: 8
X-Timer: S1492020689.939040,VS0,VE0
Server: cloudflare-nginx
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HTTP/1.1 200 OK
Date: Wed, 12 Apr 2017 18:11:34 GMT
Content-Type: application/octet-stream
Content-Length: 3574
Connection: keep-alive
Set-Cookie: __cfduuid=dd0dd2ddd208ff3326c40fc425a725e9c1492020694; expires=Thu, 12-Apr-18 18:11:34 GMT; path=/; domain=.yarnpkg.com; HttpOnly
Last-Modified: Tue, 26 Jul 2016 10:46:17 GMT
ETag: "57973f79-df6"
Expires: Thu, 09 Mar 2017 16:11:58 GMT
is-plain-obj@^1.1.0:
version "1.1.0"
resolved "https://registry.yarnpkg.com/is-plain-obj/-/is-plain-obj-1.1.0.tgz#71a50c8429dfca773c92a390a4a03b39fcd51d3e"

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{"type":"warning","data":"No license field"}
{"type":"tree","data":{"type":"licenses","trees":{"name":"MIT","children":{"name":"is-plain-obj@1.1.0","children":{"name":"MIT","children":{"name":"is-plain-obj.git"},{"name":"URL: https://github.com/sindresorhus/is-plain-obj.git"},{"name":"VendorUrl: sindresorhus.com"},{"name":"VendorName: Sindre Sorhus"}}}}}}
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{"type":"warning","data":"No license field"}
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HTTP/1.1 200 OK
Date: Wed, 12 Apr 2017 18:10:55 GMT
Content-Type: application/vnd.npm.install-v1+json
Content-Length: 610
Connection: keep-alive
Set-Cookie: __cfduid=ddc37bc882e380e3c017d6989f3ce96021492020655; expires=Thu, 12-Apr-18 18:10:55 GMT; path=/; domain=.yarnpkg.com; HttpOnly
Last-Modified: Sun, 23 Aug 2015 23:36:10 GMT
ETag: W/"55da58ea-b87"
Content-Encoding: gzip
Cache-Control: max-age=300
Accept-Ranges: bytes
Via: 1.1 varnish
Age: 0
X-Served-By: cache-lcy1136-LCY
X-Cache: MISS
X-Cache-Hits: 0
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HTTP/1.1 200 OK
Date: Wed, 12 Apr 2017 18:10:56 GMT
Content-Type: application/vnd.npm.install-v1+json
Content-Length: 934
Connection: keep-alive
Set-Cookie: __cfduid=d01a5b5d367390354f6f638f1e5da5b4e1492020656; expires=Thu, 12-Apr-18 18:10:56 GMT; path=/; domain=.yarnpkg.com; HttpOnly
Last-Modified: Mon, 06 Feb 2017 08:52:09 GMT
ETag: W"58983939-13d4"
Content-Encoding: gzip
Cache-Control: max-age=300
Accept-Ranges: bytes
Via: 1.1 varnish
Age: 0
X-Served-By: cache-lcy1141-LCY
X-Cache: MISS
X-Cache-Hits: 0
X-Timer: S1492020657.777151,VS0,VE18
Vary: Accept-Encoding
Server: cloudflare-nginx
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Upstream-Contact: Yarn Developers <yarn@dan.cx>
Source: http://yarnpkg.com/

Files: *
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HTTP/1.1 200 OK
Server: nginx/1.10.1
Content-Type: application/octet-stream
Last-Modified: Tue, 26 Jul 2016 10:46:17 GMT
ETag: "57973f79-df6"
Expires: Thu, 09 Mar 2017 13:58:40 GMT
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: GET
Cache-Control: max-age=21600
Content-Length: 3574
Accept-Ranges: bytes
Date: Wed, 12 Apr 2017 18:11:07 GMT
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1.1573 memcached 1.0

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1.1580 wso2-carbon-identity-user-store-configuration 5.12.153

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.1584 commons-codec 1.2
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1.1585 wso2-carbon-service-mgt 4.7.19

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1.1587 debianutils 4.8.1.1

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1.1601 go 1.1.7

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Metadata-Version: 1.1
Name: idna
Version: 2.6
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

=================================

Support for the Internationalised Domain Names in Applications
(IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_.
This is the latest version of the protocol and is sometimes referred to as
“IDNA 2008”.

This library also provides support for Unicode Technical Standard 46,
`Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that
comes with the Python standard library, but only supports the

Basic functions are simply executed:

```py
# Python 3
```
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

# Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.

Packages
--------

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:

.. code-block:: bash

   $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

   $ python setup.py install

This library works with Python 2.6 or later, and Python 3.3 or later.

Usage
-----

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon
You may use the codec encoding and decoding methods using the `idna.codec` module:

```python
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
'xn--80ahd1agd.xn--80akhbyknj4f'
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```python
# Python 2
>>> idna.alabel(u'')
'
xn--0zwm56d'
```

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsgsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++
Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the `import` clause in your code to refer to the new module name.

Exceptions
----------

All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)
Building and Diagnostics

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <http://iana.org/>.

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.6+.

Testing

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
def main():
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    package_data = { }
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
```
'description': 'Internationalized Domain Names in Applications (IDNA)',
'long_description': io.open("README.rst", encoding="UTF-8").read(),
'author': 'Kim Davies',
'author_email': 'kim@cynosure.com.au',
'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
  'Development Status :: 5 - Production/Stable',
  'Intended Audience :: Developers',
  'Intended Audience :: System Administrators',
  'License :: OSI Approved :: BSD License',
  'Operating System :: OS Independent',
  'Programming Language :: Python',
  'Programming Language :: Python :: 2.6',
  'Programming Language :: Python :: 2.7',
  'Programming Language :: Python :: 3',
  'Programming Language :: Python :: 3.3',
  'Programming Language :: Python :: 3.4',
  'Programming Language :: Python :: 3.5',
  'Programming Language :: Python :: 3.6',
  'Topic :: Internet :: Name Service (DNS)',
  'Topic :: Software Development :: Libraries :: Python Modules',
  'Topic :: Utilities',
],
'test_suite': 'tests',
]

setup(**arguments)

if __name__ == '__main__':
    main()

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  */opt/cola/permits/1114240575_1607457212.69/0/python-idna-2.6-orig-1-tar-gz/idna-2.6/setup.py
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1.1613 bunyan 1.8.12

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1.1614 go-autorest-adal 0.5.0

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1.1615 axis2-transport-rabbitmq-amqp 2.0.0-wso2v19

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1.1616 jsonschema 1.2.6

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1.1617 zjsonpatch 0.3.0

1.1618 python-certifi 2021.10.08

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1.1621 github.com/prometheus/pushgateway
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1.1624 readable-stream 1.1.14

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1.1625 kubernetes-cloudprovider 0.21.0

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1.1626 libboost-timer1.67.0 1.67.0-13+deb10u1

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.
HISTORY

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. AlDosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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3.1.1+dfsg-1.pgdg100+1

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      config.hpp
      edge.hpp
      interrupt.hpp
      intersect.hpp
      intersect_util.hpp
      local_minimum.hpp
      local_minimum_util.hpp
      point.hpp
      process_horizontal.hpp
      process_maxima.hpp
      quick_clip.hpp
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Version   :  6.4.0
Date      :  2 July 2015
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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    URL  string `json:"url,omitempty"
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle
The following artifacts are CDDL + GPLv2 with classpath exception. 
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api  
* javax.annotation:javax.annotation-api  
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. 
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons  
org.ow2.asm:asm

------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

------
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.
org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1653 apimachinery 0.21.11
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1.1662 google-uuid v1.3.0

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 */

package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"
    
    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
    XMLNS string `xml:"xmlns,attr,omitempty"`      // xmlns
    XMLName xml.Name `xml:"LegalHold"`          // LegalHold
    Status LegalHoldStatus `xml:"Status,omitempty"`  // Status
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `\%v\`, status")
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }

    // Continuing with implementation...
    // ...
return err
}

if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
deferr closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil
// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }
    lh := &objectLegalHold{
    }
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }
    return &lh.Status, nil
}

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = `name: the name
url: the url`

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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socks-proxy-agent

===============

### A SOCKS proxy `http.Agent` implementation for HTTP and HTTPS

[![Build Status](https://travis-ci.org/TooTallNate/node-socks-proxy-agent.svg?branch=master)](https://travis-ci.org/TooTallNate/node-socks-proxy-agent)

This module provides an `http.Agent` implementation that connects to a specified SOCKS proxy server, and can be used with the built-in `http` or `https` modules.

It can also be used in conjunction with the `ws` module to establish a WebSocket connection over a SOCKS proxy. See the "Examples" section below.

Installation

----------

Install with `npm`:

```bash
$ npm install socks-proxy-agent
```

Examples

-------

#### `http` module example

```js
var url = require('url');
var http = require('http');
```
```javascript
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `SocksProxyAgent` class with the proxy server information
var agent = new SocksProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
    console.log("response" event!, res.headers);
    res.pipe(process.stdout);
});
```

```javascript
#### `https` module example

```javascript
var url = require('url');
var https = require('https');
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `SocksProxyAgent` class with the proxy server information
var agent = new SocksProxyAgent(proxy);
opts.agent = agent;

https.get(opts, function (res) {
    console.log("response" event!, res.headers);
    res.pipe(process.stdout);
});
```

```javascript
#### `ws` WebSocket connection example

```
```javascript
var WebSocket = require('ws');
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using proxy server %j', proxy);

// WebSocke endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `SocksProxyAgent` class with the proxy server information
var agent = new SocksProxyAgent(proxy);

// initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
  console.log("open" event!);
  socket.send('hello world');
});

socket.on('message', function (data, flags) {
  console.log("message" event! %j %j", data, flags);
  socket.close();
});
```
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Found in path(s):
* /opt/cola/permits/1112087816_1607035421.82/0/socks-proxy-agent-4-0-2-5-tgz/package/README.md

1.1707 swagger-annotations 2.1.11

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 */

Found in path(s):
* /opt/cola/permits/1257343155_1642803127.07/0/swagger-annotations-2-1-11-sources-jar/io/swagger/v3/oas/annotations/OpenAPIDefinition.java
* /opt/cola/permits/1257343155_1642803127.07/0/swagger-annotations-2-1-11-sources-jar/io/swagger/v3/oas/annotations/media/Encoding.java
* /opt/cola/permits/1257343155_1642803127.07/0/swagger-annotations-2-1-11-sources-jar/io/swagger/v3/oas/annotations/links/LinkParameter.java
* /opt/cola/permits/1257343155_1642803127.07/0/swagger-annotations-2-1-11-sources-jar/io/swagger/v3/oas/annotations(headers/Header.java

1.1708 netcdf 4.6.2-1
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1.1709 google-cloud-go 0.9.1-
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (  
    "bytes"  
    "context"  
    "fmt"  
    "io/ioutil"  
    "math"  
    "net/http"  
    "net/url"

    gax "github.com/googleapis/gax-go/v2"  
    "google.golang.org/api/googleapi"  
    "google.golang.org/api/iterator"  
    "google.golang.org/api/option"  
    "google.golang.org/api/option/internaloption"  
    httptransport "google.golang.org/api/transport/http"  
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  
    "google.golang.org/grpc"  
    "google.golang.org/grpc/metadata"  
    "google.golang.org/protobuf/encoding/protojson"  
    "google.golang.org/protobuf/proto" 
)
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete     []gax.CallOption
    Get        []gax.CallOption
    GetIamPolicy     []gax.CallOption
    Insert    []gax.CallOption
    List      []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete:     []gax.CallOption{},
        Get:        []gax.CallOption{},
        GetIamPolicy: []gax.CallOption{},
        Insert:     []gax.CallOption{},
        List:       []gax.CallOption{},
        SetIamPolicy: []gax.CallOption{},
        TestIamPermissions: []gax.CallOption{},
    }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {

// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *compute pb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*compute pb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions

// NewLicensesRESTClient creates a new licenses rest client.
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

callOpts := defaultLicensesRESTCallOptions()
c := &licensesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
    CallOptions: &callOpts,
}
c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gcp.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    if req != nil && req.RequestId != nil {
        params := url.Values{
            "requestId": fmt.Sprintf("%v", req.GetRequestId())
        }
        baseUrl.RawQuery = params.Encode()
    }
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"), opts)
    options := append(c.options, opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute pb. Operation

c := gax. Invoke (ctx, func (ctx context. Context, settings gax. CallSettings) error {
if settings. Path != "" {
baseUrl. Path = settings. Path
}
if err != nil {
return err
}
httpReq = httpReq. WithContext (ctx)
httpReq. Header = headers

httpRsp, err := c. httpClient. Do (httpReq)
if err != nil {
return err
}
def err = googleapi. CheckResponse (httpRsp); err != nil {
return err
}
buf, err := ioutil. ReadAll (httpRsp. Body)
if err != nil {
return err
}
if err := unm. Unmarshal (buf, resp); err != nil {
return maybeUnknownEnum (err)
}
return nil
}, opts...)
if e != nil {
return nil, e
}
op := &Operation{
&globalOperationsHandle{
c: c. operationClient,
proto: resp,
project: req. GetProject (),
},
}
return op, nil

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if settings.Path != "" {
                baseUrl.Path = settings.Path
            }
            if err != nil {
                return err
            }
            httpReq = httpReqWithContext(ctx)
            httpReq.Header = headers

            httpRsp, err := c.httpClient.Do(httpReq)
            if err != nil {
                return err
            }
            defer httpRsp.Body.Close()

            if err = googleapi.CheckResponse(httpRsp); err != nil {
                return err
            }

            buf, err := ioutil.ReadAll(httpRsp.Body)
            if err != nil {
                return err
            }

            if err := unm.Unmarshal(buf, resp); err != nil {
                return maybeUnknownEnum(err)
            }

            return nil
        }, opts...)}

if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
 opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 req.GetResource())

 params := url.Values{}
 if req != nil &
 req.OptionsRequestedPolicyVersion != nil {
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((opts...)
 options: GetIamPolicy[0:len((c.options: GetIamPolicy):len((c.options: GetIamPolicy))],
 options...)
 unmr := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &compute.pb.Policy{}
 e := gax.Invoke(ctx, func(context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 if err != nil {
 return err
 }
 httpReq = httpReqWithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClientDo(httpReq)
 if err != nil {
 return err
 }
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unn := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:       c.operationClient,
        proto:   resp,
    project: req.GetProject(),
}
// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
  it := &LicenseIterator{}
  req = proto.Clone(req).(*computepb.ListLicensesRequest)
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
    resp := &computepb.LicensesListResponse{
      if pageToken != "" {
        req.PageToken = proto.String(pageToken)
      }
      if pageSize > math.MaxInt32 {
        req.MaxResults = proto.Uint32(math.MaxInt32)
      } else if pageSize != 0 {
        req.MaxResults = proto.Uint32(uint32(pageSize))
      }
      baseUrl, err := url.Parse(c.endpoint)
      if err != nil {
        return nil, "", err
      }
      params := url.Values{
        if req != nil && req.Filter != nil {
        }
        if req != nil && req.MaxResults != nil {
          params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
          params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
        }
        if req != nil && req.ReturnPartialSuccess != nil {
        }
    }
    return nil, "", err
  }
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return nil, "", err
    }
    it.items = append(it.items, items...)
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
  m := protojson.MarshalOptions{AllowPartial: true}
  body := req.GetGlobalSetPolicyRequestResource()
  jsonReq, err := m.Marshal(body)
  if err != nil {
    return nil, err
  }

  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
    return nil, err
  }

                            req.GetResource())

  // Build HTTP headers from client and context metadata.
  md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

  headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
               opts...)
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.Policy{}
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
      baseUrl.Path = settings.Path
    }
    if err != nil {
      return err
    }
    httpReq.Header = headers
    return gax.InvokeWithCallSettings(ctx, settings, func(ctx context.Context) (*computepb.Policy, error) {
      conn := c.unaryConn
      if conn == nil {
        return resp, errors.New("The connection has been closed")
      }
      var respCode int
      var err error
      if respCode, err = conn.Do(ctx, httpReq); err != nil {
        return nil, err
      }
      return resp, err
    })
  })
  return resp, e
}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req

*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,

error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),

req.GetResource())

    // Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))

opts = append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)], opts...)

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReqWithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)

if e != nil {
    return nil, e
}

return resp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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package compute_test

import (  
    "context"
    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {  
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {  
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {  

// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

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package compute_test

import (  
    "context"
    "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    compute "google.golang.org/genproto/googleapis/cloud/compute/v1"
    
    func ExampleNewLicensesRESTClient() {  
        ctx := context.Background()  
        c, err := compute.NewLicensesRESTClient(ctx)  
        if err != nil {  
            // TODO: Handle error.  
        }  
        defer c.Close()  
        
        // TODO: Use client.  
        _ = c  
    }

    func ExampleLicensesClient_Delete() {  
        ctx := context.Background()  
        c, err := compute.NewLicensesRESTClient(ctx)  
        if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}  
op, err := c.Delete(ctx, req)
if err != nil {
// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }

    func ExampleLicensesClient_List() {
        ctx := context.Background()
        c, err := compute.NewLicensesRESTClient(ctx)
        if err != nil {
            // TODO: Handle error.
        }
        defer c.Close()

        req := &computepb.ListLicensesRequest{
            // TODO: Fill request struct fields.
            // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
        }
        it := c.List(ctx, req)
        for {
resp, err := it.Next()
if err == iterator.Done {
    break
}
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}
// TODO: Use resp.
_ = resp

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    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
    computepb "github.com/googleapis/gcp-bitbucket.Design/v1"
"google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get    []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get:                []gax.CallOption{ },
        TestIamPermissions: []gax.CallOption{ },
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    callOpts := defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
req.GetLicenseCode())
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {

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return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }


    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts = append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)], opts...)

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{
        
    }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }

        return err
    })
if err != nil {
    return err
}
httpReq = httpReqWithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}
return nil, e

return resp, nil

---

1.1710 dracut 049-135.git20210121.el8

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/* */
This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:
https://github.com/JCTools/JCTools

RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is https://github.com/JCTools/JCTools/blob/master/LICENSE

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 * This plugin class provides 2 ways to customize {link Scheduler} functionality
 * 1. You may redefine entire schedulers, if you so choose. To do so, override
 * the 3 methods that return Scheduler (io(), computation(), newThread()).
 * 2. You may wrap/decorate an {link Action0}, before it is handed off to a Scheduler. The system-supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler, Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
 * modify Scheduler functionality without redefining Schedulers wholesale.
 * Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
 * See {link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
 */

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/ScheduledAction.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSampleWithObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeTimerPeriodically.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/ExecutorScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorBufferWithSize.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDebounceWithTime.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeDelaySubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorWindowWithObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorWindowWithObservable.java
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 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/SpscAtomicArrayQueue.java
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core/src/main/java/org/jctools/queues/QueueProgressIndicators.java
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1.1712 minio-go 7.0.23
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package minio

import (  
    "bytes"  
    "context"  
    "encoding/xml"  
    "fmt"  
    "net/http"  
    "net/url"  
    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in  
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html  
// type objectLegalHold struct {  
XMLNS string `xml:"xmlns,attr,omitempty"
XMLName xml.Name `xml:"LegalHold"
Status LegalHoldStatus `xml:"Status,omitempty"
}  

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call  
// type PutObjectLegalHoldOptions struct {  
VersionID string  
Status *LegalHoldStatus
}  

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call  
// type GetObjectLegalHoldOptions struct {  
VersionID string
}
LegalHoldStatus - object legal hold status.

```
type LegalHoldStatus string

const (    // LegalHoldEnabled indicates legal hold is enabled    LegalHoldEnabled LegalHoldStatus = "ON"
    // LegalHoldDisabled indicates legal hold is disabled    LegalHoldDisabled LegalHoldStatus = "OFF"
)
```

```
func (r LegalHoldStatus) String() string {
    return string(r)
}
```

```
// IsValid - check whether this legal hold status is valid or not.    func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}
```

```
func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `\%v`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}
```

```
// PutObjectLegalHold : sets object legal hold for a given object and versionID.    func (c *Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }
    // Get resources properly escaped and lined up before
```
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", ")

if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c *Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    // Do the GET request and handle the response.
    // ...
if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return nil, err
}

urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}

lh := &objectLegalHold{
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil

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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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=head1 NAME

Digest - Modules that calculate message digests

=head1 SYNOPSIS

$md5 = Digest->new("MD5");
$sha1 = Digest->new("SHA-1");
$sha256 = Digest->new("SHA-256");
$sha384 = Digest->new("SHA-384");
$sha512 = Digest->new("SHA-512");

$hmac = Digest->HMAC_MD5($key);

=head1 DESCRIPTION

The C<Digest::> modules calculate digests, also called "fingerprints" or "hashes", of some data, called a message. The digest is (usually) some small/fixed size string. The actual size of the digest depend of the algorithm used. The message is simply a sequence of arbitrary bytes or bits.

An important property of the digest algorithms is that the digest is I<likely> to change if the message change in some way. Another property is that digest functions are one-way functions, that is it should be I<hard> to find a message that correspond to some given digest. Algorithms differ in how "likely" and how "hard", as well as how efficient they are to compute.

Note that the properties of the algorithms change over time, as the algorithms are analyzed and machines grow faster. If your application for instance depends on it being "impossible" to generate the same digest for a different message it is wise to make it easy to plug in stronger algorithms as the one used grow weaker. Using the interface documented here should make it easy to change algorithms later.

All C<Digest::> modules provide the same programming interface. A functional interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.
The digest can be delivered in three formats:

=over 8

=item I<binary>

This is the most compact form, but it is not well suited for printing or embedding in places that can't handle arbitrary data.

=item I<hex>

A twice as long string of lowercase hexadecimal digits.

=item I<base64>

A string of portable printable characters. This is the base64 encoded representation of the digest with any trailing padding removed. The string will be about 30% longer than the binary version. L<MIME::Base64> tells you more about this encoding.

=back

The functional interface is simply importable functions with the same name as the algorithm. The functions take the message as argument and return the digest. Example:

use Digest::MD5 qw(md5);
$digest = md5($message);

There are also versions of the functions with "_hex" or "_base64" appended to the name, which returns the digest in the indicated form.

=head1 OO INTERFACE

The following methods are available for all C<Digest::> modules:

=over 4

=item $ctx = Digest->XXX($arg,...)

=item $ctx = Digest->new(XXX => $arg,...)

=item $ctx = Digest::XXX->new($arg,...)

The constructor returns some object that encapsulate the state of the message-digest algorithm. You can add data to the object and finally ask for the digest. The "XXX" should of course be replaced by the proper
name of the digest algorithm you want to use.

The two first forms are simply syntactic sugar which automatically load the right module on first use. The second form allow you to use algorithm names which contains letters which are not legal perl identifiers, e.g. "SHA-1". If no implementation for the given algorithm can be found, then an exception is raised.

If new() is called as an instance method (i.e. $ctx->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case, and the return value is the reference to the object (i.e. $ctx).

=item $other_ctx = $ctx->clone

The clone method creates a copy of the digest state object and returns a reference to the copy.

=item $ctx->reset

This is just an alias for $ctx->new.

=item $ctx->add( $data )

=item $ctx->add( $chunk1, $chunk2, ... )

The string value of the $data provided as argument is appended to the message we calculate the digest for. The return value is the $ctx object itself.

If more arguments are provided then they are all appended to the message, thus all these lines will have the same effect on the state of the $ctx object:

$ctx->add("a"); $ctx->add("b"); $ctx->add("c");
$ctx->add("a")->add("b")->add("c");
$ctx->add("a", "b", "c");
$ctx->add("abc");

Most algorithms are only defined for strings of bytes and this method might therefore croak if the provided arguments contain chars with ordinal number above 255.

=item $ctx->addFile( $io_handle )

The $io_handle is read until EOF and the content is appended to the message we calculate the digest for. The return value is the $ctx object itself.
The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $ctx object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $ctx object if this occurs.

In most cases you want to make sure that the $io_handle is in "binmode" before you pass it as argument to the addfile() method.

=item $ctx->add_bits( $data, $nbits )

=item $ctx->add_bits( $bitstring )

The add_bits() method is an alternative to add() that allow partial bytes to be appended to the message. Most users should just ignore this method as partial bytes is very unlikely to be of any practical use.

The two argument form of add_bits() will add the first $nbits bits from $data. For the last potentially partial byte only the high order \text{C}^{\text{C}<< \text{nbits} \text{ mod } 8 >>} \text{ bits are used.} \text{ If } $nbits \text{ is greater than } \text{C}^{\text{C}<< \text{length($data)} \text{ * 8 >>}}, \text{ then this method would do the same as } \text{C}^{\text{C}<< \text{$ctx->add($data)} >>}.

The one argument form of add_bits() takes a $bitstring of "1" and "0" chars as argument. It's a shorthand for \text{C}^{\text{C}<< \text{$ctx->add_bits(pack("B*", $bitstring), length($bitstring)) >>}}.

The return value is the $ctx object itself.

This example shows two calls that should have the same effect:

$ctx->add_bits("111100001010");
$ctx->add_bits("xF0xA0", 12);

Most digest algorithms are byte based and for these it is not possible to add bits that are not a multiple of 8, and the add_bits() method will croak if you try.

=item $ctx->digest

Return the binary digest for the message.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the $ctx object is automatically C<reset> and can be used to calculate another digest value. Call $ctx->clone->digest if you want to calculate the digest.
without resetting the digest state.

=item $ctx->hexdigest

Same as $ctx->digest, but will return the digest in hexadecimal form.

=item $ctx->b64digest

Same as $ctx->digest, but will return the digest as a base64 encoded string.

=head1 Digest speed

This table should give some indication on the relative speed of different algorithms. It is sorted by throughput based on a benchmark done with of some implementations of this API:

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>Size</th>
<th>Implementation</th>
<th>MB/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD4</td>
<td>128</td>
<td>Digest::MD4 v1.3</td>
<td>165.0</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::MD5 v2.33</td>
<td>98.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA2 v1.1.0</td>
<td>66.7</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA v4.3.1</td>
<td>58.9</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA1 v2.10</td>
<td>48.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA v4.3.1</td>
<td>41.3</td>
</tr>
<tr>
<td>Haval-256</td>
<td>256</td>
<td>Digest::Haval256 v1.0.4</td>
<td>39.8</td>
</tr>
<tr>
<td>SHA-384</td>
<td>384</td>
<td>Digest::SHA2 v1.1.0</td>
<td>19.8</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA2 v1.1.0</td>
<td>19.3</td>
</tr>
<tr>
<td>SHA-384</td>
<td>384</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>Whirlpool</td>
<td>512</td>
<td>Digest::Whirlpool v1.0.2</td>
<td>13.0</td>
</tr>
<tr>
<td>MD2</td>
<td>128</td>
<td>Digest::MD2 v2.03</td>
<td>9.5</td>
</tr>
<tr>
<td>Adler-32</td>
<td>32</td>
<td>Digest::Adler32 v0.03</td>
<td>1.3</td>
</tr>
<tr>
<td>CRC-16</td>
<td>16</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
</tr>
<tr>
<td>CRC-32</td>
<td>32</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::Perl::MD5 v1.5</td>
<td>1.0</td>
</tr>
<tr>
<td>CRC-CCITT</td>
<td>16</td>
<td>Digest::CRC v0.05</td>
<td>0.8</td>
</tr>
</tbody>
</table>

These numbers was achieved Apr 2004 with ActivePerl-5.8.3 running under Linux on a P4 2.8 GHz CPU. The last 5 entries differ by being pure perl implementations of the algorithms, which explains why they are so slow.

=head1 SEE ALSO
L<Digest::Adler32>, L<Digest::CRC>, L<Digest::Haval256>,
L<Digest::HMAC>, L<Digest::MD2>, L<Digest::MD4>, L<Digest::MD5>,
L<Digest::SHA>, L<Digest::SHA1>, L<Digest::SHA2>, L<Digest::Whirlpool>

New digest implementations should consider subclassing from L<Digest::base>.

L<MIME::Base64>

http://en.wikipedia.org/wiki/Cryptographic_hash_function

=head1 AUTHOR

Gisle Aas <gisle@aas.no>

The C<Digest::> interface is based on the interface originally
developed by Neil Winton for his C<MD5> module.

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This is just a simple frontend module for autoloading of various
Digest:: modules. It also provide documentation of the interface that
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You will need perl version 5.004 or better to install this module.

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1.1723 commons-exec 1.1

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  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1257282416_1642795753.21/o/netty-handler-4.1.45-final-sources-
  jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
* /opt/cola/permits/1257282416_1642795753.21/o/netty-handler-4.1.45-final-sources-
  jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1257282416_1642795753.21/o/netty-handler-4.1.45-final-sources-
  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1257282416_1642795753.21/o/netty-handler-4.1.45-final-sources-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1257282416_1642795753.21/o/netty-handler-4.1.45-final-sources-
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* /opt/cola/permits/1257282416_1642795753.21/o/netty-handler-4.1.45-final-sources-
  jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/cola/permits/1257282416_1642795753.21/o/netty-handler-4.1.45-final-sources-
  jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/u til/InsecureTrustManagerFactory.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
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jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-
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  jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-
  jar/io/netty/handler/timeout/ReadTimeoutHandler.java
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  jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-
  jar/io/netty/handler/timeout/TimeoutException.java
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  jar/io/netty/handler/timeout/package-info.java
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  jar/io/netty/handler/stream/ChunkedInputStream.java
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/Java9SslUtils.java
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-
jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
1.1727 asm 4.2

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/**
* Constructs a new [@link ClassNode]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [@link #ClassNode(int)]
* version.
*/

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/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #Textifier(int)]
 * version.
 */

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/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see [@link Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [@link Type Type]).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 */

Found in path(s):
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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this</i>
 * constructor</i>. Instead, they must use the
 * { [@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type}).
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getInternalName() getInternalName}). May be
 * <tt>null</tt>.
 */

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* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/tree/InsnList.java
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* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
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* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/ClassVisitor.java
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* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
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* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/tree/analysis/Frame.java
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* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/util/CheckFieldAdapter.java
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 */
/**
 * Creates a new GeneratorAdapter. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {GeneratorAdapter(int, MethodVisitor, int, String, String})
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 *
 * @param access
 * the method's access flags (see Opcodes).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see Type).
 */

Found in path(s):
* /opt/cola/permits/1151703672_1617968469.21/0/asm-all-4-2-sources-jar/org/objectweb/asm/commons/GeneratorAdapter.java
1.1728 assign-symbols 1.0.0

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Source: https://github.com/linux-rdma/rdma-core

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Version 2, June 1991

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(1)

ExceptionConverter:
The original version of this class was published in an article by Heinz Kabutz. Read http://www.javaspecialists.co.za/archive/newsletter.do?issue=033&print=yes&locale=en_US "This material from The Java(tm) Specialists' Newsletter by Maximum Solutions (South Africa). Please contact Maximum Solutions for more information."
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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com)
writes: "This code is under a BSD license and supersedes the older codec packages
on which your code is based. It also includes numerous fixes among them being the
ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares,
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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBUTIFF:

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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.
A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>
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1.1740 kerberos 1.17-3+deb10u3

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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
    lib/gssapi/mechglue/g_sign.c
    lib/gssapi/mechglue/g_store_cred.c
    lib/gssapi/mechglue/g_unseal.c
    lib/gssapi/mechglue/g_userok.c
    lib/gssapi/mechglue/g_utils.c
    lib/gssapi/mechglue/g_verify.c
    lib/gssapi/mechglue/gssd_pname_to_uid.c
and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/irop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
- lib/krb5/error_tables/kdb5_err.et
- kprop/kpropd_rpc.c
- kprop/kproplog.c

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1.1741 through 2.3.8

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1.1742 spdx-license-ids 3.0.11

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root = true

[*]
charset = utf-8
dend_of_line = lf
indent_style = tab
tab_width = 2
insert_final_newline = true
trim_trailing_whitespace = true

[*.{md,yml}]
indent_style = space

[*.{md}]
trim_trailing_whitespace = false
---
name: Node.js CI
on: [push]
jobs:
test:
  runs-on: ubuntu-latest
steps:
- uses: actions/checkout@v2
- uses: actions/setup-node@v1
- run: npm ci
- run: npm test

# spdx-license-ids


A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/main/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```
... npm install spdx-license-ids ...
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```
```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```
```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
```
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---

name: 'Check Latest SPDX License List'

on:
  workflow_dispatch:
    inputs: {}

schedule:
  - cron: '0 0 */7 * *'

jobs:
  check:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v2
      - uses: actions/setup-node@v1
      - run: npm run latest

[*.workflow]

indent_style = space

1.1743 iconv 2.31

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Version 3, 29 June 2007

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1744 pn 1.1.0
1.1744.1 Available under license:
No license file was found, but licenses were detected in source scan.

# pn
[![NPM][NPM1]][NPM2]

[![Build Status][1]][2]
The `pn` library gives you the Promise-using node standard library you've always dreamed of. Think "Promised Node" when saying it.

Just about every node standard library method that takes a callback will now return a `Promise` iff no callback is supplied. But existing code that passes callbacks will still work fine --- and fast: No unnecessary `Promise`'s are created if you supply a callback.

The wrappers are generated automatically by a script, with a table to handle exceptions and odd cases. See below for more details.

```
var fs = require('pn/fs');
fs.writeFile('foo', 'bar', 'utf-8').then(function() { console.log('done'); }); // But you can use callbacks, too -- existing code won't break.
fs.writeFile('foo', 'bat', 'utf-8', function(err) { console.log('yay'); });
```

This library uses node native promises (ie `global.Promise`) by default, and thus works with node >= 0.11.

You can use ['core-js'](https://www.npmjs.org/package/core-js) or ['es6-shim'](https://www.npmjs.org/package/es6-shim) to add ES6 Promises to earlier versions of node, for example:
```
require('es6-shim');
var fs = require('pn/fs');
```

Just be sure that `es6-shim` is loaded before the `pn` package in that case.

You might also want to look into packages like ['prfun'](https://www.npmjs.org/package/prfun) which add some helpers to make working with native promises much more fun.

In particular, the `Promise#done` method is very useful when debugging, at least until v8's native Promise debugging capabilities are completed.

```
```

## Custom Promise types
You can also specify a custom `Promise` type to use, as follows:
```
var MyPromise = require('prfun');  // Use prfun's Promises, for example.
require('pn/_promise')(MyPromise); // This only needs to be done once.
```

## Exceptions and odd cases

The wrappers are automatically generated by `scripts/generate.js`; there is a table in that file which specifies all the odd cases.

In general: if the node API has a callback which takes multiple value arguments, the `Promise` returned will be an object with named fields corresponding to the different values. If the node API takes a callback *and* returns a value, `pn` will return the original value with a nonenumerable field named `promise` corresponding to the callback. Combining these two cases:
```
var child_process = require('pn/child_process');
var cp = child_process.execFile('true);
console.log('pid', cp.pid);
cp.promise.then(function(result) {
    console.log('stdout: ', result.stdout);
    console.log('stderr: ', result.stderr);
});
```
* `child_process`: The `exec` and `execFile` methods promise a object with fields named `stdout` and `stderr`. They return a `ChildProcess` object with a nonenumerable field named `promise` corresponding to the callback.
* `crypto`: The `randomBytes` and `pseudoRandomBytes` methods are now always asynchronous, returning a `Promise` if no callback is supplied. Use the new `randomBytesSync` and `pseudoRandomBytesSync` methods if you want synchronous computation. *This is backwards incompatible with existing node code.*
* `dns`: The `lookupService` method promises an object with fields named `hostname` and `service`.
* `fs`: The `exists` method doesn't pass an error to its callback. The promised version will never reject. The `write` method promises an object with fields named `written` and `data`. The `read` method promises an object with fields named `read` and `data`.
* `http`, `https`: The `request` and `get` methods return a `ClientRequest` object with a nonenumerable field named `promise`, which will resolve to an `IncomingMessage` object.
* `process`: You can defer computation to the next tick with `require('pn/process').nextTick().then(function(){...})`
* `tls`: The `connect` and `createServer` return objects with a
There are a few object methods which are not promisified by this package:
* `domain`: `Domain#bind`, `Domain#intercept`
* `http`, `https`: `ClientRequest#setTimeout`, `IncomingMessage#setTimeout`, `Server#setTimeout`, `ServerResponse#setTimeout`, `Server#listen`, `Server#close`
* `net`: `Server#listen`, `Server#close`, `Server#getConnections`, `Socket#write`, `Socket#setTimeout`
* `readline`: `Interface#question`
* `stream`: `Writable#write`, `Writable#end`
* `dgram`: `Socket#send`, `Socket#bind`.

## Related packages

Here are some other packages with similar aims:
* [promised-node](https://www.npmjs.org/package/promised-node)
* [then-fs](https://www.npmjs.org/package/then-fs)
* [final-fs](https://www.npmjs.org/package/final-fs)

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1.1745 gogoprotobuf 1.1.1

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* /opt/cola/permits/1283600568_1646732507.6/0/kafka-oauth-common-0-9-0-sources-jar/io/strimzi/kafka/oauth/jsonpath/JsonPathFilterQuery.java
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* /opt/cola/permits/1283600568_1646732507.6/0/kafka-oauth-common-0-9-0-sources-jar/io/strimzi/kafka/oauth/services/CurrentTime.java
* /opt/cola/permits/1283600568_1646732507.6/0/kafka-oauth-common-0-9-0-sources-jar/io/strimzi/kafka/oauth/services/Principals.java
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* /opt/cola/permits/1283600568_1646732507.6/0/kafka-oauth-common-0-9-0-sources-jar/io/strimzi/kafka/oauth/common/TokenIntrospection.java
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* /opt/cola/permits/1283600568_1646732507.6/0/kafka-oauth-common-0-9-0-sources-jar/io/strimzi/kafka/oauth/common/TokenValidator.java
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* /opt/cola/permits/1283600568_1646732507.6/0/kafka-oauth-common-0-9-0-sources-jar/io/strimzi/kafka/oauth/common/TokenSignatureException.java
* /opt/cola/permits/1283600568_1646732507.6/0/kafka-oauth-common-0-9-0-sources-jar/io/strimzi/kafka/oauth/common/LogUtil.java
* /opt/cola/permits/1283600568_1646732507.6/0/kafka-oauth-common-0-9-0-sources-jar/io/strimzi/kafka/oauth/common/BearerTokenWithPayload.java
* /opt/cola/permits/1283600568_1646732507.6/0/kafka-oauth-common-0-9-0-sources-jar/io/strimzi/kafka/oauth/common/JSONUtil.java
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* /opt/cola/permits/1283600568_1646732507.6/0/kafka-oauth-common-0-9-0-sources-jar/io/strimzi/kafka/oauth/common/TokenSignatureException.java
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* /opt/cola/permits/1283600568_1646732507.6/0/kafka-oauth-common-0-9-0-sources-jar/io/strimzi/kafka/oauth/common/TokenSignatureException.java
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6.4.50

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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1.1757 python3-libsemanage 2.9-6.el8

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

**Oracle OpenJDK**

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas
Assorted

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jaxen-1.1.1.jar
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 * This abstract class wraps a standard { @link java.lang.Appendable } and provides methods to append UTF-8
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* /opt/cola/permits/1271002027_1644867955.28/0/spark-core-2-9-3-sources-jar/spark/Response.java

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* /opt/cola/permits/1271002027_1644867955.28/0/spark-core-2-9-3-sources-jar/spark/route/RouteEntry.java
* /opt/cola/permits/1271002027_1644867955.28/0/spark-core-2-9-3-sources-jar/spark/http/matching/ResponseWrapper.java
* /opt/cola/permits/1271002027_1644867955.28/0/spark-core-2-9-3-sources-jar/spark/ExceptionMapper.java
* /opt/cola/permits/1271002027_1644867955.28/0/spark-core-2-9-3-sources-jar/spark/ExceptionHandlerImpl.java
* /opt/cola/permits/1271002027_1644867955.28/0/spark-core-2-9-3-sources-jar/spark/http/matching/MatcherFilter.java
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* /opt/cola/permits/1271002027_1644867955.28/0/spark-core-2-9-3-sources-jar/spark/route/HttpMethod.java
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  jar/spark/embeddedserver/jetty/websocket/WebSocketCreatorFactory.java
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* /opt/cola/permits/1271002027_1644867955.28/0/spark-core-2-9-3-sources-jar/spark/embeddedserver/jetty/HttpRequestWrapper.java
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* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslContextBuilder.java

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* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
  jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
  jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
  jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
  jar/io/netty/handler/ssl/Ocsp/package-info.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
  jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
  jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
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* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
  jar/io/netty/handler/ssl/OcspClientHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
  jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
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jar/io/netty/handler/ss/SignatureAlgorithmConverter.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ss/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ss/OpenSslPrivateKey.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ss/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ss/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ss/OpenSslSession.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ss/OpenSslKeyMaterial.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ss/ExtendedOpenSslSession.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ss/OpenSslX509TrustManagerWrapper.java
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jar/io/netty/handler/ss/ExtendedOpenSslKeyMaterial.java
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jar/io/netty/handler/ss/OpenSslKeyMaterialFactory.java
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jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
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jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/ssl/Util/SimpleTrustManagerFactory.java
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jar/io/netty/handler/ssl/OpenSslX509Certificate.java
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* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
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jar/io/netty/handler/ssl/ssl/Util/FingerprintTrustManagerFactory.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
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jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
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* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/ssl/InsecureTrustManagerFactory.java
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jar/io/netty/handler/timeout/ReadTimeoutException.java
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jar/io/netty/handler/stream/ChunkedFile.java
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jar/io/netty/handler/timeout/TimeoutException.java
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jar/io/netty/handler/timeout/ReadTimeoutHandler.java
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jar/io/netty/handler/timeout/WriteTimeoutHandler.java
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jar/io/netty/handler/stream/package-info.java
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jar/io/netty/handler/stream/ChunkedWriteHandler.java
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jar/io/netty/handler/ssl/NotSslRecordException.java
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jar/io/netty/handler/stream/ChunkedNioStream.java
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jar/io/netty/handler/logging/LogLevel.java
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jar/io/netty/handler/ssl/SslMasterKeyHandler.java
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jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
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1.1773 oklog-run 1.0.0
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WS=n(function(e,t){Object.defineProperty(t,"_esModule",{value:0})});var r,n=(r=(_f)&&&._esModule?r:{default:t});default=function(e){return function(t){return new n.default(function(r){return function(t){catch(function(e){return new n.default(function(o){[(e]=0,o=(0,r.default)(t,i.s),then((0,a.default)(function(){[i[e]=1]})).catch(function(t){return 
[i[e]=1,n.default.reject(t)()})})]};var a=(o(WS);function o(e){return 
X.S=Object.defineProperty(t,"_esModule",{value:0});
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r=arguments.length,n=Array(r,i=0;i<r;++i)[i]=arguments[i];var a=(0, default)(this, (e=r._proto__len) || (0, u.default)(t)).call.apply(e, [this].concat(n)), o=void 0;if(a.parse) o=parse.apply(a, n); else if(a.constructor.parse) { var s=o=(s=a.constructor).parse.apply(s, n); return o; } else if(a.constructor.prototype) { var s=o=(s=a.constructor).parse.apply(s, n); return o; } else if(t, t.prototype) { var s=o=(s=a.constructor).parse.apply(s, n); return o; } else if(a.default) { var s=o=(s=a.default).parse.apply(s, n); return o; } else return a.constructor.defaultMessage; }

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null
Object.prototype.hasOwnProperty.call(r,n)&&!(e[n]=r[n])} return e}, Cw=function() {return function(e,t){if(Array.isArray(e)) return e; if(Symbol.iterator in Object(e)) return function(e,t){var r=[],n=!0,i=!1,a=void 0;try {for(var o,s=e[Symbol.iterator]();!(n=(o=s.next()).done)&&&&(r.push(o.value),!t||r.length!=t);n=!0); catch(e){[i=0,a=e] finally {try{!n&&r.return&&r.return()}finally {if(i)throw a}} return r[e,t]; throw new TypeError("Invalid attempt to destructore non-iterable instance") } })(xw=300:function Ow(e,r,n){var i=Cw(n,2),a,i=0;void 0===a?xw:a=i[1],u=void 0===a?[]:s=r.value;i="function"?typeof c?throw new SyntaxError("Only functions can be throttled");return!1!==u.leading&&!(u.trailing=0),!1!==u.trailing&&(u.trailing=0),Aw([t],r,[value:function(){var e=t,r=0,0=r.throttleTimeoutIds,1=r.throttlePreviousTimestamps,a=0,0=t[0],l=Date.now();u.trailing&&!(r .throttleTrailingArgs=arguments),s=!1!==u.leading&&(s=0);var f=a-o;0==f?(clearTimeout(a),delete n[t][i][t]=l);c.apply(this,e));u.trailing&&!(n[i]=setTimeout(function(){[i][t]=!1!==u.leading?0:Date.now( ),delete n[t][i].apply(e,r.throttleTrailingArgs),r.throttleTrailingArgs=null],f)))} var Rw=Object.defineProperty; function Ow(e,n,r){var i=0===a?xw:a=s=n[0],w=a.slice(1),u=void 0===s?{}:s,c=r.value; if(0!==u.leading&&!(u.trailing=0)) throw new TypeError("Invalid attempt to destructore non-iterable instance") }

Object.defineProperty=function Ow(e,n,r){var i=0===a?xw:a=s=n[0],w=a.slice(1),u=void 0===s?{}:s,c=r.value; if(0!==u.leading&&!(u.trailing=0)) throw new TypeError("Invalid attempt to destructore non-iterable instance") }

Object.defineProperty=function Ow(e,n,r){var i=0===a?xw:a=s=n[0],w=a.slice(1),u=void 0===s?{}:s,c=r.value; if(0!==u.leading&&!(u.trailing=0)) throw new TypeError("Invalid attempt to destructore non-iterable instance") }
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n=r.allowDots?e.replace(/\([^\[\]]*\)/g,"$1\]\])\]/g,a=/[\[\)]*\])/g.exec(n),o=a?n.slice(0,a.index):n,s=[];if (o) if([r.plainObjects&&&x.call(Object.prototype,o)&}&r.allowPrototypes)return s.push(o)for (var u=0;null!==(a=r.exec(n))&}&u<r.depth;){if (u+1,r.plainObjects&&&x.call(Object.prototype,a[1].slice(1,-1))&}&r.allowPrototypes)return s.push(a[1])}return a&}s.push("["+n.slice(a.index)+"]");function (e,t,r) {for (var n=t,i=e.length-1;i>0;i--) {var a,o=e[i],s=t.concat(n);else {a=r.plainObjects:Object.create(null);s} ;var s="["+e.charAt(0)+"]"==o&}r.parseArrays?a.concat(n):else {a=r.plainObjects?Object.create(null):s} ;var a=0;u=r.parseInts(10);r.parseArrays?":="=!s?isNaN(u)&}&o!==s&}r.String(u)==s&}u>0&}r.parseArrays&}&u<= r.arrayLimit?(a=[],n:a[s]=n:a=0;0!=n) ?n=s.slice(0,a.index):s.push(a[1])}r.allowPrototypes&&Sx.call(Object.prototype,a[1].slice(1,-1))&}a[r.arrayLimit](a[a.index]=n)]];var r=function(e){if (!e) return Tx; if(null!==e.decoder&}&void 0!==e.decoder&&"function"!=typeof e.decoder)throw new TypeError("Decoder has to be a function."); if (void 0!==e.charset&}&"utf-8"!==e.charset&}&"iso-8859-1"!==e.charset)throw new Error("The charset option must be either utf-8, iso-8859-1, or undefined"); var t= void 0===e.charset?Tx.charset:Tx.charset; return {allowDots:0===e.allowDots?Tx.allowDots:!!e.allowDots,allowPrototypes:"boolean"==typeof e.allowPrototypes?e.allowPrototypes:Tx.allowPrototypes,arrayLimit:"number"==typeof e.arrayLimit?e.arrayLimit:Tx.arrayLimit,charset:t,charsetSentinel:"boolean"==typeof e.charsetSentinel?e.charsetSentinel:Tx.charsetSentinel,comma:"boolean"==typeof e.comma?e.comma:Tx.comma,delimiter:"string"==typeof e.delimiter?e.delimiter:Tx.delimiter,depth:"number"==typeof e.depth?e.depth:Tx.depth,ignoreQueryPrefix:!0===e.ignoreQueryPrefix,interpretNumericEntities:"boolean"==typeof e.interpretNumericEntities?e.interpretNumericEntities:Tx.interpretNumericEntities,parameterLimit:"number"==typeof e.parameterLimit?e.parameterLimit:Tx.parameterLimit,p=1;e.parseArrays?1!!=e.parseArrays,plainObjects:"boolean"==typeof e.plainObjects?e.plainObjects:plainObjects,strictNullHandling:"boolean"==typeof e.strictNullHandling?e.strictNullHandling:Tx.strictNullHandling,strictNullHandling:"boolean"==typeof e.strictNullHandling?e.strictNullHandling:Tx.strictNullHandling}[0]; function (e,t,r){for (var n=t,i=e.length-1;i>=0;--i){var a,o=e[i],s=0;"\[\]"==o&}r.parseArrays(arc.concat(n);else {a=r.plainObjects?Object.create(null):s} ;var s=0;"\[\]"==o&}r.parseArrays?":="=!s?isNaN(u)&}&o!==s&}r.String(u)==s&}u>0&}r.parseArrays&}&u<= r.arrayLimit?(a=[],n:a[s]=n:a=0;0!=n) ?n=s.slice(0,a.index):s.push(a[1])}r.allowPrototypes&&Sx.call(Object.prototype,a[1].slice(1,-1))&}a[r.arrayLimit](a[a.index]=n)]];var r=function(e){if (!e) return Tx; if(null!==e.decoder&}&void 0!==e.decoder&&"function"!=typeof e.decoder)throw new TypeError("Decoder has to be a function."); if (void 0!==e.charset&}&"utf-8"!==e.charset&}&"iso-8859-1"!==e.charset)throw new Error("The charset option must be either utf-8, iso-8859-1, or undefined"); var t= void 0===e.charset?Tx.charset:Tx.charset; return {allowDots:0===e.allowDots?Tx.allowDots:!!e.allowDots,allowPrototypes:"boolean"==typeof e.allowPrototypes?e.allowPrototypes:Tx.allowPrototypes,arrayLimit:"number"==typeof e.arrayLimit?e.arrayLimit:Tx.arrayLimit,charset:t,charsetSentinel:"boolean"==typeof e.charsetSentinel?e.charsetSentinel:Tx.charsetSentinel,comma:"boolean"==typeof e.comma?e.comma:Tx.comma,delimiter:"string"==typeof e.delimiter?e.delimiter:Tx.delimiter,depth:"number"==typeof e.depth?e.depth:Tx.depth,ignoreQueryPrefix:!0===e.ignoreQueryPrefix,interpretNumericEntities:"boolean"==typeof e.interpretNumericEntities?e.interpretNumericEntities:Tx.interpretNumericEntities,parameterLimit:"number"==typeof e.parameterLimit?e.parameterLimit:Tx.parameterLimit,p=1;e.parseArrays?1!!=e.parseArrays,plainObjects:"boolean"==typeof e.plainObjects?e.plainObjects:plainObjects,strictNullHandling:"boolean"==typeof e.strictNullHandling?e.strictNullHandling:Tx.strictNullHandling,strictNullHandling:"boolean"==typeof e.strictNullHandling?e.strictNullHandling:Tx.strictNullHandling}[0]; function (e,t,r){for (var n=t,i=e.length-1;i>=0;--i){var a,o=e[i],s=0;"\[\]"==o&}r.parseArrays(arc.concat(n);else {a=r.plainObjects?Object.create(null):s} ;var s=0;"\[\]"==o&}r.parseArrays?":="=!s?isNaN(u)&}&o!==s&}r.String(u)==s&}u>0&}r.parseArrays&}&u<= r.arrayLimit?(a=[],n:a[s]=n:a=0;0!=n) ?n=s.slice(0,a.index):s.push(a[1])}r.allowPrototypes&&Sx.call(Object.prototype,a[1].slice(1,-1))&}a[r.arrayLimit](a[a.index]=n)]];var r=function(e){if (!e) return Tx; if(null!==e.decoder&}&void 0!==e.decoder&&"function"!=typeof e.decoder)throw new TypeError("Decoder has to be a function."); if (void 0!==e.charset&}&"utf-8"!==e.charset&}&"iso-8859-1"!==e.charset)throw new Error("The charset option must be either utf-8, iso-8859-1, or undefined"); var t= void 0===e.charset?Tx.charset:Tx.charset; return {allowDots:0===e.allowDots?Tx.allowDots:!!e.allowDots,allowPrototypes:"boolean"==typeof e.allowPrototypes?e.allowPrototypes:Tx.allowPrototypes,arrayLimit:"number"==typeof e.arrayLimit?e.arrayLimit:Tx.arrayLimit,charset:t,charsetSentinel:"boolean"==typeof e.charsetSentinel?e.charsetSentinel:Tx.charsetSentinel,comma:"boolean"==typeof e.comma?e.comma:Tx.comma,delimiter:"string"==typeof e.delimiter?e.delimiter:Tx.delimiter,depth:"number"==typeof e.depth?e.depth:Tx.depth,ignoreQueryPrefix:!0===e.ignoreQueryPrefix,interpretNumericEntities:"boolean"==typeof e.interpretNumericEntities?e.interpretNumericEntities:Tx.interpretNumericEntities,parameterLimit:"number"==typeof e.parameterLimit?e.parameterLimit:Tx.parameterLimit,p=1;e.parseArrays?1!!=e.parseArrays,plainObjects:"boolean"==typeof e.plainObjects?e.plainObjects:plainObjects,strictNullHandling:"boolean"==typeof e.strictNullHandling?e.strictNullHandling:Tx.strictNullHandling,strictNullHandling:"boolean"==typeof e.strictNullHandling?e.strictNullHandling:Tx.strictNullHandling}[0];
this.config.logoutUrl+"?"+b.default.stringify((0,p.default)({cisService:this.config.service,goto:this.config.redirect_uri,e})),calcRefreshTimeout: function(e) {return Math.floor((Math.floor(4*Math.random())+6)/10*e)},constructor:function(){var e=this;this._dataTypes=(0,y.default)(this._dataTypes),(0,d.default)(this._dataTypes).forEach(function(t){e._dataTypes[t].set&&(e._dataTypes[t].set=e._dataTypes[t].set.bind(e))});for(var t=arguments.length,r=Array(t),n=0;n<t;n++)r[n]=arguments[n];(0,f.default)(S.default,this,r)},downscope:function(e){var t=this;return this.supertoken.downscope(e).catch(function(r){return t.logger.trace("credentials: failed to downscope supertoken to "+e,r),t.logger.trace("credentials: falling back to supertoken for "+e),l.default.resolve(new w.default((0,p.default)({scope:e},t.supertoken.serialize())),{parent:t})})),getClientToken:function(e){var t=new Error("Current state cannot produce an access token");l.default.reject(t)}},initialize:function(e,t){var r=this;e&&("string"==typeof e&&(this.supertoken=e),e.access_token&&(this.supertoken=e),e.authorization&&(e.authorization.supertoken?this.supertoken=e.authorization.supertoken:this.supertoken=e.authorization),this.supertoken&&this.supertoken.expires&&this.scheduleRefresh(this.supertoken.expires)),(0,f.default)(S.default.prototype.initialize,this,[e,t]),this.listenToOnce(this.parent,"change:config",function(){this.config.authorizationString||this.config.authorizationString=_.default.parse(this.config.authorizationString,!0);this.config.client_id=this.config.authorizationString.query.client_id,this.config.redirect_uri=this.config.authorizationString.query.redirect_uri,this.config.scope=this.config.authorizationString.query.scope,this.config.authorizeUrl=e.href.substr(0,e.href.indexOf("?"))}),this.webex.once("loaded",function(){this.ready=!0})},invalidate:function(){this.logger.info("credentials: invalidating tokens");this.refreshTimer&&(clearTimeout(this.refreshTimer),this.unset("refreshTimer"));this.userTokens.models.forEach(function(t){try{this.userTokens.remove(t.scope)}catch(e){this.logger.warn("credentials: failed to remove user token",e)}})}},refresh:function(){var e=this;this.logger.info("credentials: refresh requested");var t=this.supertoken.expires;try{this.userTokens.remove(new w.default((0,p.default)({scope:t}),t.supertoken.serialize())),l.default.resolve(t),e.default.resolve(new w.default((0,p.default)({scope:t}),t.supertoken.serialize())),l.default.resolve(new w.default((0,p.default)({scope:t}),t.supertoken.serialize())),l.default.resolve(new w.default((0,p.default)({scope:t}),t.supertoken.serialize())),l.default.resolve(new w.default((0,p.default)({scope:t},t.supertoken.serialize())),this.logger.info("credentials: token refresh inflight; delaying getUserToken until refresh completes"),t.once("change:isRefreshing",function(){this.logger.info("credentials: token refresh complete; reinvoking getUserToken"),t()})},catch(function(r){this.logger.info("credentials: token refresh failed; delaying getUserToken until refresh completes"),this.logger.info("credentials: token refresh inflight; delaying getUserToken until refresh completes"),t.once("change:isRefreshing",function(){this.logger.info("credentials: token refresh complete; reinvoking getUserToken"),t()})})}});
null
n<0?r.push([e,t]):r[n][1]=t,this },DP.prototype.clear=function(){this.__data__={hash:new 
PP.map:new(RP||MP),string:new PP}},DP.prototype.delete=function(e){ return 
BP(this,e).delete(e)},DP.prototype.get=function(e){return BP(this,e).get(e)},DP.prototype.has=function(e){ return 
BP(this,e).has(e)},DP.prototype.set=function(e,t){ return 
BP(this,e).set(e,t)},LP.prototype.add=LP.prototype.push=function(e){return 
this.__data__.set(e,uP),this},LP.prototype.has=function(e){return this.__data__.has(e)};var FP=NP&&1/EP(new 
NP([,,-0]))[1]==1/0?function(e){return new NP(e)}:function(){};function BP(e,t){var 
r,n,i=e.__data__;return("string"==(n=typeof(r=t))||"number"==n||"symbol"==n||"boolean"==n||"__proto__"==null 
==r)?[r]"string"==typeof t?"string":"hash":i.map function VP(e,t){var r=func
Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 17380
```
MM.prototype.revert=function(e){var t=TM();return
e.copyTo(t),this.reduce(t,t);MM.prototype.reduce=function(e){for(e.t=0;t<e.data.length;e.data[e.t++]=0;for(var
t=0;t<e.data.length;e.data[e.t++]=0;for(var
t=0;t<e.data.length;e.data[e.t++]=0;for(var
t=0;t<e.data.length;e.data[e.t++]=0;for(var
t=0;t<e.data.length;e.data[e.t++]=0;}

r=32767&data[t]=r==15?32767&data[t]:r+15;e.copyTo(t),this.reduce(t),MM.prototype.mulTo=function(e,t){e.multiplyTo(t,t),this.reduce(t)}},MM.prototype.sqrTo=function(e,t){e.squareTo(t),this.reduce(t)}},SM.prototype.copyTo=function(e){for(var t=0;t<this.t;++t)e.data[e.t++]=this.data[t];e.t=this.t,e.s=this.s},SM.prototype.fromInt=function(e){this.t=1,this.s=e<0?-1:0,e>0?this.data[0]=e:e<-1?this.data[0]=e+this.DV:0},SM.prototype.fromString=function(e,t){var r;if(16==t)"c"==e.charAt(n)&&(i=!0):(i=!1,0==a?this.data[0]=e:0>0&&this.data[0]<0&&this.data[0]+=this.DB)}},SM.prototype.clamp=function(){for(var e=0,e=this.s&this.DM;this.t>0&&this.data[this.t-1]==e;)--this.t},SM.prototype.dlShiftTo=function(e,t){var r;for(r=this.t-1;r>=0;--r)t.data[r+e]=this.data[r]};SM.prototype.rShiftTo=function(e,t){var r=Math.floor(e/this.DB);if(r>=this.t)t.t=0;else{var n=1,e=2,n=4,e=8,n=16,e=32,n=64,e=128,n=256,e=512,n=1024,e=2048,n=4096,e=8192,n=16384,e=32768,n=65536,e=131072,n=262144,e=524288,n=1048576,e=2097152,n=4194304,e=8388608,e=16777216

this.abs(),n=e<0?-1:0,e>0&&this.data[0]=e+this.DV;e.data[e.t++]=0}
```

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 17381
```javascript
0!==a.certValidity2GeneralizedTime&&&d.push(t.generalizedTimeToDate(a.certValidity2GeneralizedTime)),void
0!==a.certValidity3UTCTime&&&d.push(t.utcTimeToDate(a.certValidity3UTCTime)),void
0!==a.certValidity4GeneralizedTime&&&d.push(t.generalizedTimeToDate(a.certValidity4GeneralizedTime)),d.lengh
h>2)throw new Error("Cannot read notBefore/notAfter validity times; more than two times were provided in the
certificate.");if(d.length<2)throw new Error("Cannot read notBefore/notAfter validity times; they were not provided
as either UTCTime or
GeneralizedTime.");if(u.validity.notBefore=d[0],u.validity.notAfter=d[1],u.tbsCertificate=a.tbsCertificate,u)

```
Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma

17400
name: "pkcs-
12PbeParams.iterations", tagClass: pD.Class.UNIVERSAL, type: pD.Type.INTEGER, constructed: !1, capture: "iteration s" }}]; 
function ED(e, t) { 
  return e.start().update(t).digest().getBytes(); 
}; 
function bD(e) { 
  var t; 
  if (e) { 
    if (!(t = hD.oids[pD.derToOid(e)])) { 
      var r = new Error("Unsupported PRF OID."); 
      throw 
    } 
  } 
  return hD.encryptPrivateKeyInfo(t, e, r); 
}; 

hD.encryptPrivateKeyInfo = function(e, t, r) { 
  var s = r || {} .saltSize = r.saltSize || 8, u = pD.integerToDer(s), n = 2048, v = pD.integerToDer(e); 
  if (0 === r.algorithm.indexOf("aes") || "des" === r.algorithm) { 
    var c, l, f; 
    switch (r.algorithm) { 
      case "aes128": n = 16, c = 16, l = vD["aes128-
CBC"], f = KP.aes.createEncryptionCipher; 
      break; 
      case "aes192": n = 24, c = 16, l = vD["aes192-
CBC"], f = KP.aes.createEncryptionCipher; 
      break; 
      case "aes256": n = 32, c = 16, l = vD["aes256-
CBC"], f = KP.aes.createEncryptionCipher; 
      break; 
      case "des": n = 8, c = 8, l = KP.desCBC, f = KP.des.createEncryptionCipher; 
      break; 
      default: throw (g = new Error("Cannot encrypt private key. Unknown encryption algorithm."))); 
    } 
    var p = _D("hmacWithSHA1"); 
    if (f) { 
      n = f(h).start(v), u = f(h).finish(); 
    } 
    return KP.util.createBuffer(n).getBytes(); 
  } 
  var g; 
  if ("3des" !== r.algorithm) throw (g = new Error("Cannot encrypt private key. Unknown encryption algorithm."))); 
  return KP.util.createBuffer(n).getBytes(); 
}; 

hD.decryptPrivateKeyInfo = function(e, t) { 
  var r = null, n = [], i = []; 
  if (!pD.validate(e, mD, n, i)) { 
    var a = new Error("Cannot read encrypted private key. ASN.1 object is not a supported EncryptedPrivateKeyInfo."); 
    throw a; 
  } 
  var o = pD.derToOid(n.encryptedOid), s = hD.pbe.generatePcks12Key(t, e), v = hD.pbe.generatePcks12Key(t, e); 
  return KP.pem.encode(r, {maxline: t}); 
};
t=KP.pem.decode(e)[0];if("ENCRYPTED PRIVATE KEY"==t.type){var r=new Error("Could not convert encrypted private key from PEM; PEM header type is "+t.type).throw
r.headerType=t.type,r}if(t.procType&"ENCRIPTED"===t.procType.type)throw new Error("Could not convert encrypted private key from PEM; PEM is encrypted.");return
pD.fromDer(t.body),hD.encryptRsaPrivateKey=function(e,t){if(!r||[]).legacy}var
n=hD.wrapRsaPrivateKey(hD.privateKeyToAsn1(e));return
n=hD.encryptPrivateKeyInfo(n,t),hD.encryptedPrivateKeyToPem(n);var
i,a,s;switch(t.algorithm){case"aes128":i="AES-128-
CBC",o=16,a=KP.random.getBytesSync(16),s=KP.aes.createEncryptionCipher;break;case"aes192":i="AES-192-
CBC",o=24,a=KP.random.getBytesSync(16),s=KP.aes.createEncryptionCipher;break;case"aes256":i="AES-256-
CBC",o=32,a=KP.random.getBytesSync(16),s=KP.aes.createEncryptionCipher;break;case"des":i="DES-DES3-
CBC",o=24,a=KP.random.getBytesSync(8),s=KP.des.createEncryptionCipher;break;case"des":i="DES-
CBC",o=8,a=KP.random.getBytesSync(8),s=KP.des.createEncryptionCipher;default:var u=new Error("Could not encrypt RSA private key; unsupported encryption algorithm "+"r.algorithm+".);throw
u.algorithm=u.algorithm,r}var
c=KP.pbe.opensslDeriveBytes(t.a.substr(0,8),o);c.start(a),c.update(pD.toDer(hD.privateKeyToAsn1(e))),c.finish();var l={type:"RSA PRIVATE
KEY","procType":{version:"4",type:"ENCRIPTED PRIVATE KEY"},dekInfo:{algorithm:i,parameters:KP.util.bytesToHex(a).toUpperCase()},body:KP.pbe.opensslDeriveBytes(t.k, KP.aes.createDecryptionCipher);break;case"aes128":i="AES-128-
CBC",o=16,a=KP.random.getBytesSync(16),s=KP.aes.createDecryptionCipher;break;case"aes192":i="AES-192-
CBC",o=24,a=KP.random.getBytesSync(16),s=KP.aes.createDecryptionCipher;break;case"aes256":i="AES-256-
CBC",o=32,a=KP.random.getBytesSync(16),s=KP.aes.createDecryptionCipher;break;case"des":i="DES-
CBC",o=24,a=KP.random.getBytesSync(8),s=KP.des.createDecryptionCipher;break;default:var u=new Error("Could not decrypt private key; unsupported encryption algorithm "+"n.dekInfo.algorithm+"."));algorithm=n.dekInfo.algorithm,o}var
tor=PN:util.hexToBytes(n.dekInfo.parameters),u=KP.pbe.opensslDeriveBytes(t.s.substr(0,8)),if(u.start(s),u.update
(KP.util.createBuffer(n.body)),u.finish())return null!==(r="ENCRYPTED PRIVATE
KEY"===n.type?hD.decryptPrivateKeyInfo(pD.fromDer(r),pD.fromDer(r)):
null);r=hD.privateKeyFromAsn1(r),r}
l.truncate(l.length()-i),l},hD.pbe.getCipher=function(e,t,r){switch(e){case hD.oids.pkcs5PBES2:return
hD.pbe.getCipherForPBES2(e,t,r);case hD.oids["pbeWithSHAAnd3-KeyTripleDES-CBC"]:return
hD.pbe.getCipherForPKCS12PBE(e,t,r);default:var n=new
Error("Cannot read encrypted PBE data block. Unsupported OID.");throw
n.oid=e,n.supportedOids=["pkcs5PBES2","pbeWithSHAAnd3-KeyTripleDES-CBC","pbeWithSHAAnd40BitRC2-CBC"],n}},{hD.pbe.getCipherForPBES2=function(e,t,r){var n,i={},a=[ ];if(pD.validate(t,gD,i,a))throw
(n=new Error("Cannot read password-based-encryption algorithm parameters. ASN.1 object is not a supported
EncryptedPrivateKeyInfo.")).errors=a,i={},n;var
hD.oids.pkcs5PBKDF2);throw(n=new
Error("Cannot read encrypted private key. Unsupported key derivation function
OID.");).oid=e,n.supportedOids=["pkcs5PBKDF2"],n;if((e=pD.derToOid(i.kdfOid))===hD.oids["aes12-
CBC"]&&&!hD.oids["aes192-CBC"]&&&!hD.oids["aes256-CBC"]&&&!=hD.oids["des-EDE3-
CBC"]&&!hD.oids.desCBC);throw(n=new Error("Cannot read encrypted private key. Unsupported encryption
scheme OID.");).oid=e,n.supportedOids=["aes128-CBC","aes192-CBC","aes256-CBC","des-EDE3-
CBC"],n;var
o,s,u=i.kdfSalt,c=KP.util.createBuffer(i.kdfIterationCount);switch(c=c.getInt(c.length()<<3),hD.oids["aes-
128-CBC":o=16,s=KP.aes.createDecryptionCipher;break;case "aes192-
CBC":o=24,s=KP.aes.createDecryptionCipher;break;case "aes256-
CBC":o=32,s=KP.aes.createDecryptionCipher;break;case "des-EDE3-
CBC":o=24,s=KP.des.createDecryptionCipher;break;case "desCBC":o=8,s=KP.des.createDecryptionCipher;break;case
"des-EDE3-CBC":o=8,s=KP.des.createDecryptionCipher;break;case "desCBC":o=8,s=KP.des.createDecryptionCipher;break;case
hD.oids["pbeWithSHAAnd3-KeyTripleDES-CBC"];a=24,o=8,s=KP.des.start Decrypting;break;case
hD.oids["pbeWithSHAAnd40BitRC2-CBC"];a=5,o=8,s=KP.rc2.createDecryptionCipher(r,40);return
f.start(d,p),hD.pbe.getCipherForPKCS12PBE=function(e,t,r){var n=[],i=[],j;if(pD.validate(t,yD,n,i))throw
(l=new Error("Cannot read password-based-encryption algorithm parameters. ASN.1 object is not a supported
EncryptedPrivateKeyInfo.")).errors=l,i;var
a,o,s,u=KP.util.createBuffer(i.salt),c=KP.util.createBuffer(n.iterations);switch(c=c.getInt(c.length()<<3),e){case
hD.oids["pbeWithSHAAnd3-KeyTripleDES-CBC"];a=24,o=8,s=KP.des.start Decrypting;break;case
g(D[i.oid]),f=KP.pkcs5.pbkdf2(r,uc,o,l);i=encLv,p=ps(f);return
p.start(d,p),hD.pbe.getCipherForPKCS12PBE=function(e,t,r){var n=[],i=[],j;if(pD.validate(t,yD,n,i))throw
(l=new Error("Cannot read PKCS #12 PBE data block. Unsupported OID.");).oid=e,i;var
f=BDn.prfOid),d=hD.pbe.generatePkcs12Key(r,u,1,c,a,f);return
f.start(s,d,hD.pbe.generatePkcs12Key(r,2,c,0,1,f)),hD.pbe opensslDeriveBytes=function(e,t,r){(null==r)?null:
if(null==n)[if(!(("md5" in KP.md))throw new Error("'md5" hash algorithm
unavailable.");]):a=KP.md.md5.create()=null="t"&"t";for(var
i=[ED(i++,1)],a=16,=i++;a+16==i).push(ED(i,ni=0-1+e+e));return i.join("",).substr(0,r));var
SD,TD,n(function(e){var
h=KP.asn1,=KP.pki,e.exports=KP.pkcs12=KP.pkcs12||{},i={name:"ContentInfo",tagClass:t.Class.UNIVERSAL,
type:t.Type.SEQUENCE,constructed:!0, value:[{name:"ContentInfo.contentType",tagClass:t.Class.UNIVERSAL,ty-
pet:t.Type.OID,constructed:!1, capture:"contentType"}, {name:"ContentInfo.content",tagClass:t.Class.CONTEXT_SPECIFIC,constructed:!0, captureAsn1:"content"}],a=[{name:"PKF",tagClass:t.Class.UNIVERSAL,type:t.Type.SEQUENCE,constructed:!0,value:[{name:"PKF.version",tagClass:t.Class.UNIVERSAL,type:t.Type.INTEGER,construc-
ted:!1, capture:"version"},i],{name:"PKF.macData",tagClass:t.Class.UNIVERSAL,type:t.Type.SEQUENCE,constructed-
!0, optional:!0, captureAsn1:"mac",value:[{name:"PKF.macData.mac",tagClass:t.Class.UNIVERSAL,type:t.Type.
SEQUENCE,constructed:!0,value:[{name:"PKF.macData.mac.digestAlgorithm",tagClass:t.Class.UNIVERSAL,type-
t:t.Type.SEQUENCE,constructed:!0,value:[{name:"PKF.macData.mac.digestAlgorithm.algorithm",tagClass:t.Class.
UNIVERSAL,type:t.Type.OID,constructed:!1, capture:"macAlgorithm"}, {name:"PKF.macData.mac.digestAlgorithm.
parameters",tagClass:t.Class.UNIVERSAL,captureAsn1:"macAlgorithmParameters"}],{name:"PKF.macData.mac.
digest",tagClass:t.Class.UNIVERSAL,type:t.Type.OCTETSTRING,constructed:!1, capture:"macDigest"}],{name:
"PKF.macData.macSalt",tagClass:t.Class.UNIVERSAL,type:t.Type.OCTETSTRING,constructed:!1, capture:"macSalt"},
{name:"PKF.macData.iterations",tagClass:t.Class.UNIVERSAL,type:t.Type.INTEGER,constructed:!1,option
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma
ID.util.ByteStringBuffer&&(e=e.getBytes());if(Vg(e))r=e;else if(Array.isArray(e))r=new ag(e);else if(ID.util.isArrayBuffer(e))r=new ag(r=new Uint8Array(e));else{if(!ID.util.isArrayBufferView(e))throw new TypeError("invalid source type");r=new ag(r=e instanceof Uint8Array?e:new Uint8Array(e.buffer,e.byteOffset,e.byteLength))}return

this.accommodate(r.length),n=this.data.copy(n,this.write),this.write+=r.length,this},jj.prototype.getNative=function(n,e){var t=this.native(e);return

this.read+=t.length,t},jj.prototype.putNative=jj.prototype.putBuffer,jj.prototype.getByte=function(){var e=this.data[this.read];return this.read=Math.min(this.read+1,this.write),e},jj.prototype.putByte=function(e){return

this.accommodate(1),this.data[this.write]=e,this.write++,this},jj.prototype.getInt16=function(){var e=this.data[this.read]<8*this.data[this.read+1];return

this.read=Math.min(this.read+2,this.write),e},jj.prototype.putInt16=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.getInt24=function(){var e=this.data[this.read]<16*this.data[this.read+1]<8*this.data[this.read+2];return

this.read=Math.min(this.read+3,this.write),e},jj.prototype.putInt24=function(e){return

this.accommodate(3),this.data[this.write]=e,this.write++,this},jj.prototype.getInt32=function(){var e=this.data[this.read]<24*this.data[this.read+1]<16*this.data[this.read+2]<8*this.data[this.read+3];return

this.read=Math.min(this.read+4,this.write),e},jj.prototype.getInt32Le=function(){var e=this.data[this.read+3]<<24^this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+4,this.write),e},jj.prototype.putInt32Le=function(e){return

this.accommodate(4),this.data[this.write]=e,this.write+=4,this},jj.prototype.getInt=function(e){var t=0;do{t=t<<8|this.getByte(),e-=8}while(e>0);return

this.read=Math.min(this.read+2,this.write),e},jj.prototype.putInt16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.putInt16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.getInt24Le=function(){var e=this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+3,this.write),e},jj.prototype.putInt24Le=function(e){return

this.accommodate(3),this.data[this.write]=e,this.write++,this},jj.prototype.getInt32Le=function(){var e=this.data[this.read+3]<<24^this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+4,this.write),e},jj.prototype.getInt32Le=function(e){return

this.accommodate(4),this.data[this.write]=e,this.write+=4,this},jj.prototype.getIntLe=function(e){var t=0;do{t=t<<8|this.getByte(),e-=8}while(e>0);return

this.read=Math.min(this.read+2,this.write),e},jj.prototype.put16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.putInt16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.getInt24Le=function(){var e=this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+3,this.write),e},jj.prototype.putInt24Le=function(e){return

this.accommodate(3),this.data[this.write]=e,this.write++,this},jj.prototype.getInt32Le=function(){var e=this.data[this.read+3]<<24^this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+4,this.write),e},jj.prototype.getInt32Le=function(e){return

this.accommodate(4),this.data[this.write]=e,this.write+=4,this},jj.prototype.getIntLE=function(e){var t=0;do{t=t<<8|this.getByte(),e-=8}while(e>0);return

this.read=Math.min(this.read+2,this.write),e},jj.prototype.put16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.putInt16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.getInt24Le=function(){var e=this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+3,this.write),e},jj.prototype.putInt24Le=function(e){return

this.accommodate(3),this.data[this.write]=e,this.write++,this},jj.prototype.getInt32Le=function(){var e=this.data[this.read+3]<<24^this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+4,this.write),e},jj.prototype.getInt32Le=function(e){return

this.accommodate(4),this.data[this.write]=e,this.write+=4,this},jj.prototype.getIntLE=function(e){var t=0;do{t=t<<8|this.getByte(),e-=8}while(e>0);return

this.read=Math.min(this.read+2,this.write),e},jj.prototype.put16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.putInt16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.getInt24Le=function(){var e=this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+3,this.write),e},jj.prototype.putInt24Le=function(e){return

this.accommodate(3),this.data[this.write]=e,this.write++,this},jj.prototype.getInt32Le=function(){var e=this.data[this.read+3]<<24^this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+4,this.write),e},jj.prototype.getInt32Le=function(e){return

this.accommodate(4),this.data[this.write]=e,this.write+=4,this},jj.prototype.getIntLE=function(e){var t=0;do{t=t<<8|this.getByte(),e-=8}while(e>0);return

this.read=Math.min(this.read+2,this.write),e},jj.prototype.put16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.putInt16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.getInt24Le=function(){var e=this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+3,this.write),e},jj.prototype.putInt24Le=function(e){return

this.accommodate(3),this.data[this.write]=e,this.write++,this},jj.prototype.getInt32Le=function(){var e=this.data[this.read+3]<<24^this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+4,this.write),e},jj.prototype.getInt32Le=function(e){return

this.accommodate(4),this.data[this.write]=e,this.write+=4,this},jj.prototype.getIntLE=function(e){var t=0;do{t=t<<8|this.getByte(),e-=8}while(e>0);return

this.read=Math.min(this.read+2,this.write),e},jj.prototype.put16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.putInt16Le=function(e){return

this.accommodate(2),this.data[this.write]=e,this.write++,this},jj.prototype.getInt24Le=function(){var e=this.data[this.read+2]<<16^this.data[this.read+1]<<8^this.data[this.read];return

this.read=Math.min(this.read+3,this.write),e},jj.prototype.putInt24Le=function(e){return

this.accommodate(3),this.data[this.write]=e,this.write++,this},jj.prototype.getInt32Le=function(){var e=0;}
s = o.digest(); if (!n(a.length, i, s)) throw new Error("verification failed"); return {
  data: t, mac: i, valid: !0
};

function(e) {
  return n(a.length, i, t); i = Lj.subtleCrypto.importKey("raw", e, 0, 0, ["sign"]).then(function(e) {
    n(a.length, i, t); i = Lj.subtleCrypto.importKey("raw", e, 0, 0, ["verify"]).then(function(e) {
      Lj.subtleCrypto.verify(e, o, i)).then(function(e) {
        return e ? (data: t, mac: i, valid: !0): Promise.reject(new Error("verification failed"));
      }).then(function(e, r, i, a) {
        var o = {name: "HMAC", hash: r: i};
        return Lj.subtleCrypto.importKey("raw", e, 0, 0, ["sign"]).then(function(e) {
          n(a.length, i, t); i = Lj.subtleCrypto.importKey("raw", e, 0, 0, ["verify"]).then(function(e) {
            Lj.subtleCrypto.verify(e, o, i)).then(function(e) {
              return e ? (data: t, mac: i, valid: !0): Promise.reject(new Error("verification failed"));
            });
          });
        });
      });
    });
  });
}

var Gj = [
  "HS1", "HS256", "HS384", "HS512"
].forEach(function(e) {
  Gj[e] = function(e) {
    return n(a.length, i, t); i = Lj.subtleCrypto.importKey("raw", e, 0, 0, ["sign"]).then(function(e) {
      n(a.length, i, t); i = Lj.subtleCrypto.importKey("raw", e, 0, 0, ["verify"]).then(function(e) {
        Lj.subtleCrypto.verify(e, o, i)).then(function(e) {
          return e ? (data: t, mac: i, valid: !0): Promise.reject(new Error("verification failed"));
        });
      });
    });
  });

var Kj = [
  "SHA-1", "SHA-256", "SHA-384", "SHA-512"
].forEach(function(e) {
  var t, r, n;
  Kj[e] = {
    digest: function(e) {
      return n(a.length, i, t); i = Lj.subtleCrypto.importKey("raw", e, 0, 0, ["sign"]).then(function(e) {
        n(a.length, i, t); i = Lj.subtleCrypto.importKey("raw", e, 0, 0, ["verify"]).then(function(e) {
          Lj.subtleCrypto.verify(e, o, i)).then(function(e) {
            return e ? (data: t, mac: i, valid: !0): Promise.reject(new Error("verification failed"));
          });
        });
      });
    }
  };

var Hj = Kj;

function zj(e) {
  if (16 !== e.length) throw new Error("invalid iv");
  return Lj setups.
}

function Wj(e) {
  return Lj setups.
}

function Yj(e) {
  return Lj setups.
}

function Xj(e, t) {
  if (t << 1 != e.length << 3) throw new Error("invalid encryption key size");
  return Lj setups.
}

function $j(e) {
  var t = Wj(e);
  return Lj setups.
}

function qj(e) {
  var t = Wj(e);
  return Lj setups.
}

function rF(e, t, r, n) {
  var i = 8 * e.length, a = i / 2, o = Promise.resolve();
  o = o.then(function(e) {
    return Lj setups.
  });
  o = o.then(function(e) {
    return Lj setups.
  });
  o = o.then(function(e) {
    return Lj setups.
  });
  o = o.then(function(e) {
    return Lj setups.
  });
  o = o.then(function(e) {
    return Lj setups.
  });
  return Lj setups.
}

function rF(e, t, r, n) {
  var i = 8 * e.length, a = i / 2, o = Promise.resolve();
  o = o.then(function(e) {
    return Lj setups.
  });
  o = o.then(function(e) {
    return Lj setups.
  });
  o = o.then(function(e) {
    return Lj setups.
  });
  o = o.then(function(e) {
    return Lj setups.
  });
  return Lj setups.
}

function rF(e, t, r, n) {
  var i = 8 * e.length, a = i / 2, o = Promise.resolve();
  o = o.then(function(e) {
    return Lj setups.
  });
  o = o.then(function(e) {
    return Lj setups.
  });
  o = o.then(function(e) {
    return Lj setups.
  });
  o = o.then(function(e) {
    return Lj setups.
  });
  return Lj setups.
}
```javascript
function t(e) { return !e || e <= 0; }
function f(e) { return e < 0; }
function s(e) { return !f(e) && g(e); }
function g(e) { return h(e) && !f(e); }

function r(e) { return !s(e) && !f(e); }
function h(e) { return !r(e) && !f(e); }

function (e) { return !s(e) && !f(e) && !r(e); }
```

r=qN(e);return(t?["x","y"]:["d"]).forEach(function(e){r[e]=MD.asBuffer(r[e],"base64url")}),r}var yB=new
ag([4]);var EB={convertToForge:function(e,t){var r=t?["x","y"]:["d"];return r=r.map(function(t){return new
ID.jsbn.BigInteger(e[t].toString("hex"),16)}),r=[e.crv].concat(r),(t?vB.asPublicKey:vB.asPrivateKey).apply(vB,r)},
convertToJWK:function(e,t){var
r=qN(e);return(t?["x","y"]:["x","y","d"]).forEach(function(e){r[e]=MD.base64url.encode(r[e])}),delete
r.key_ops,delete r.use,delete r.alg,t&&delete r.d,r},convertToObj:gB,convertToBuffer:function(e,t){return
e=gB(e,t),t?ag.concat([yB,e.x,e.y]):e.d},curveSize:function(e){return mB[e||""]||NaN}};function bB(e){var
t=e.replace("HKDF-",""),r=e.replace("HKDF-SHA-","HS");return function(e,n){var
i=Uj.HASHLENGTH[t]/8;"string"==typeof r&&(r=qj[r].sign);var a=(n=n||{}).salt;a&&0!==a.length||(a=new
ag(i)).fill(0);var o=n.info||new ag(0),s=n.length||i,u=Math.ceil(s/i),c=[],l=0;return
r(a,e,{length:8*a.length}).then(function(e){return function e(t,n){return u===l++?ag.concat(c).slice(0,s):(n||(n=new
ag(0)),n=ag.concat([n,o,new ag([l])]),n=(n=r(t,n)).then(function(r){return
n=r.mac,c.push(n),e(t,n)}))}(e.mac)})}}var _B={};["HKDF-SHA-1","HKDF-SHA-256","HKDF-SHA384","HKDF-SHA-512"].forEach(function(e){_B[e]={derive:bB(e)}});var SB=_B,TB=n(function(e){function
t(e){switch(e){case"P-256":return"SHA-256";case"P-384":return"SHA-384";case"P-521":return"SHA512";default:throw new Error("unsupported curve: "+e)}}var r=e.exports={};function n(e,t,n){function i(e){return
ag.concat([Lj.int32ToBuffer(e.length),e])}var
a=n.algorithm||"",o=Uj.KEYLENGTH[a],s=MD.asBuffer(n.apu||"","base64url"),u=MD.asBuffer(n.apv||"","base64ur
l"),c={public:t,length:o/8,hash:"SHA-256",otherInfo:ag.concat([i(new
ag(a,"utf8")),i(s),i(u),Lj.int32ToBuffer(o)])};return r["ECDH-CONCAT"].derive(e,c)}["ECDH","ECDHHKDF","ECDH-CONCAT"].forEach(function(e){var n,i,a=/^ECDH(?:(\w+))?$/g.exec(e||"")[1],o=r[e]=r[e]||{};switch(a||""){case"CONCAT":o.derive=function(e,n){var
i;n=n||{};try{if(!(i=n.hash||t(e.crv)))throw new Error("invalid hash: "+i);i.toUpperCase()}catch(e){return
Promise.reject(e)}var a=["public"],o=r.ECDH.derive(e,Dj(n,a));return o=o.then(function(e){return $F["CONCAT"+i].derive(e,pj(n,a))})};break;case"HKDF":o.derive=function(e,n){var i;n=n||{};try{if(!(i=n.hash||t(e.crv)))throw
new Error("invalid hash: "+i);i.toUpperCase()}catch(e){return Promise.reject(e)}var
a=["public"],o=r.ECDH.derive(e,Dj(n,a));return o=o.then(function(e){return SB["HKDF"+i].derive(e,pj(n,a))})};break;case"":o.derive=(n={name:"ECDH"},i=function(e,t){var
r=e&&EB.convertToForge(e,!0);if(!r||!r.isValid())return Promise.reject(new Error("invalid EC public
key"));switch(t){case"jwk":r=EB.convertToJWK(e,!0);break;case"buffer":r=EB.convertToBuffer(e,!0)}return
Promise.resolve(r)},Lj.setupFallback(function(e,t){if("function"!=typeof Lj.nodeCrypto.createECDH)throw new
Error("unsupported algorithm: ECDH");var r,n=(t=t||{}).length||0;switch(e.crv){case"P256":r="prime256v1";break;case"P-384":r="secp384r1";break;case"P-521":r="secp521r1";break;default:return
Promise.reject(new Error("invalid curve: "+r))}var a=EB.convertToBuffer(e,!1),o=i(t.public,"buffer");return
o=o.then(function(e){var t=Lj.nodeCrypto.createECDH(r);t.setPrivateKey(a);var
i=t.computeSecret(e);if(n){if(i.length<n)return Promise.reject(new Error("key length too large:
"+n));i=i.slice(0,n)}return i})},function(e,t){e=e||{};var
r=(t=t||{}).length||0,a=oP(qN(n),{namedCurve:e.crv});r||(r=e.d.length);var
o=EB.convertToJWK(e,!1);o=Lj.subtleCrypto.importKey("jwk",o,a,!1,["deriveBits"]);var
s=i(t.public,"jwk");s=s.then(function(e){return Lj.subtleCrypto.importKey("jwk",e,a,!1,[])});var
u=Promise.all([o,s]);return u=(u=u.then(function(e){var t=e[0],i=e[1],a=oP(qN(n),{public:i});return
Lj.subtleCrypto.deriveBits(a,t,8*r)})).then(function(e){return e=new ag(e)})},function(e,t){var
r=(t=t||{}).length||0,n=EB.convertToForge(e,!1),a=i(t.public,"forge");return a=a.then(function(e){var
t=n.computeSecret(e);if(r){if(t.length<r)return Promise.reject(new Error("key length too large:
"+r));t=t.slice(0,r)}return t})}));break;default:o.derive=null}}),["ECDH-ES","ECDH-ES+A128KW","ECDHES+A192KW","ECDH-ES+A256KW"].forEach(function(e){var t,i,a=/^ECDHES(?:\+(.+))?/g.exec(e||"")[1],o=r[e]=r[e]||{};a?(a=WF[a])?(o.encrypt=(i=a.encrypt,function(e,t,r){if(!(r=r||{}).epk||!r
.epk.d)return Promise.reject(new Error("missing ephemeral private key"));var

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S512"].forEach(function(e){zB[e]={sign:GB(e),verify:qB(e)})

var WB={},YB={},XB={},$B={},QB={},JB={};[oF,FF,WF,$F,QF,TB,xB,BQ,ij,VB,zB,Hj].forEach(function(e){

Object.keys(e).forEach(function(t){var r=e[t];"function"==typeof r.encrypt&&(QB[t]=r.encrypt),"function"==typeof r.decrypt&&(JB[t]=r.decrypt),"function"==typeof r.sign&&(XB[t]=r.sign),"function"==typeof r.verify&&($B[t]=r.verify),"function"==typeof r.digest&&(WB[t]=r.digest),"function"==typeof r.derive&&(YB[t]=r.derive)})});var ZB={digest:function(e,t,r){var n=WB[e];return n?n(t,r):Promise.reject(new Error("unsupported algorithm: "+e))},derive:function(e,t,r){var a=YB[e];return a?a(t,r,n):Promise.reject(new Error("unsupported algorithm: "+e))},sign:function(e,t,r,n){var i=XB[e];return i?(t,r,n):Promise.reject(new Error("unsupported algorithm: "+e))},verify:function(e,t,r,n,i){var a=$B[e];return a?a(t,r,n,i):Promise.reject(new Error("unsupported algorithm: "+e))},encrypt:function(e,t,r,n){var i=QB[e];return i?(t,r,n):Promise.reject(new Error("unsupported algorithm: "+e))},decrypt:function(e,t,r,n){var i=JB[e];return i?i(t,r,n):Promise.reject(new Error("unsupported algorithm: "+e))}};

eV={MODE_SIGN:"sign",MODE_VERIFY:"verify",MODE_ENCRYPT:"decrypt",MODE_WRAP:"wrap",MODE_UNWRAP:"unwrap"},

rV={name:"PrivateKeyInfo",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.SEQUENCE,constructed:!0,value:

[{name:"PrivateKeyInfo.version",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.INTEGER,constructed:!1,capture:"keyVersion"},

{name:"PrivateKeyInfo.privateKeyAlgorithm",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.SEQUENCE,constructed:!0,value:

[{name:"AlgorithmIdentifier.algorithm",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.OID,constructed:!1,capture:"keyOid"},

{name:"AlgorithmIdentifier.parameters",captureAsn1:"keyParams"}]},

{name:"PrivateKeyInfo",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.OCTETSTRING,constructed:!1,capture:"keyValue"})],


rV={name:"SubjectPublicKeyInfo",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.SEQUENCE,constructed:!0,value:

[{name:"SubjectPublicKeyInfo.AlgorithmIdentifier",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.SEQUENCE,constructed:!0,value:

[{name:"AlgorithmIdentifier.algorithm",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.OID,constructed:!1,capture:"keyOid"},

{name:"AlgorithmIdentifier.parameters",captureAsn1:"keyParams"}]},

{name:"SubjectPublicKeyInfo.subjectPublicKey",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.BITSTRING,constructed:!1,capture:"keyValue"})],


rV={name:"Certificate",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.SEQUENCE,constructed:!0,value:

[{name:"Certificate.TBSCertificate",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.SEQUENCE,constructed:!0,value:

[{name:"Certificate.TBSCertificate.version",tagClass:ID.asn1.Class.CONTEXT_SPECIFIC,type:0,constructed:!0,optional:!0,value:

["name":"Certificate.TBSCertificate.version.integer",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.INTEGER,constructed:!1,capture:"certVersion"}],


{name:"Certificate.TBSCertificate.signature.algorithm",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.OID,constructed:!1,capture:"certSignatureOid"}],

{name:"Certificate.TBSCertificate.signature.parameters",tagClass:ID.asn1.Class.UNIVERSAL,optional:!0,captureAsn1:"certSignatureParams"}],

{name:"Certificate.TBSCEcmitter.issuer",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.SEQUENCE,constructed:!0,captureAsn1:"certIssuer"}],


{name:"Certificate.TBSCertificate.validity",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.SEQUENCE,constructed:!0,value:

["name":"Certificate.TBSCertificate.validity.notBefore(utc)",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.UTCTIME,constructed:!1,optional:!0,capture:"certValidity1UTCTime"],


{name:"Certificate.TBSCertificate.validity.notBefore(generalized)",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.GENERALIZEDTIME,constructed:!1,optional:!0,capture:"certValidity2GeneralizedTime"}],


{name:"Certificate.TBSCertificate.validity.notAfter(utc)",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.UTCTIME,constructed:!1,optional:!0,capture:"certValidity3UTCTime"}],


{name:"Certificate.TBSCertificate.validity.notAfter(generalized)",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.GENERALIZEDTIME,constructed:!1,optional:!0,capture:"certValidity4GeneralizedTime"}],


{name:"Certificate.TBSCertificate.subject",tagClass:ID.asn1.Class.UNIVERSAL,type:ID.asn1.Type.SEQUENCE,constructed:!0,captureAsn1:"certSubject"},rV,\"name":"Certificate
null
head.hcrc&&n.pending>i&&(e.adler=zq(e.adler,n.pending_buf,n.pending-i,i)),n.gzindex===n.gzhead.extra.length&&(n.gzindex=0,n.status=TK})else
n.status=TK;if(n.status===TK)if(n.gzhead.name){i=n.pending;do{if(n.pending===n.pending_buf_size&&(n.gzhead.hcrc&&n.pending>i&&(e.adler=zq(e.adler,n.pending_buf,n.pending-i,i)),LK(e),i=n.pending,n.pending===n.pending_buf_size)){a=1;break}a=n.gzindex<n.gzhead.name.length?255&n.gzhead.name.charCodeAt(n.gzindex++):0,jK(n,a)}while(0!==a);n.gzhead.hcrc&&n.pending>i&&(&e.adler=zq(e.adler,n.pending_buf,n.pending-i,i)),0==a&&(n.gzindex=0,n.status=WK})else
n.status=WK;if(n.status===WK)if(n.gzhead.comment){i=n.pending;do{if(n.pending===n.pending_buf_size&&(n.gzhead.hcrc&&n.pending>i&&(e.adler=zq(e.adler,n.pending_buf,n.pending-i,i)),LK(e),i=n.pending,n.pending===n.pending_buf_size)){a=1;break}a=n.gzindex<n.gzhead.comment.length?255&n.gzhead.comment.charCodeAt(n.gzindex++):0,jK(n,a)}while(0!==a);n.gzhead.hcrc&&n.pending>i&&(&e.adler=zq(e.adler,n.pending_buf,n.pending-i,i)),0==a&&(n.status=IK})else
n.status=IK;if(n.status===IK&&(n.gzhead.hcrc?(n.pending+2>n.pending_buf_size&&LK(e),n.pending+2<=n.pending_buf_size&&(jK(n,255&e.adler),jK(n,e.adler>>8&255),e.adler=0,n.status=AK)):n.status=AK),0!==n.pending){if(LK(e),0===e.avail_out)return n.last_flush=-1,Zq}else if(0===e.avail_in&&MK(t)<=MK(r)&&t!==Qq)return PK(e,nK);if(n.status===CK&&0!==e.avail_in)return
PK(e,nK);if(0!==e evade_in){n.lookahead=[]!1&&Yq&&n.status!==CK}var
s=n.strategy==oK?function(e,t){for(var r;;){if(0===e.lookahead&&(VK(e),0===e.lookahead)){if(t===Yq)return xK;break}if(e.match_length=0,r=qq(e,0,e.window[e.strstart]),e.lookahead--
e=strstart++,r&UK(e,!1),0===e.strm.avail_out)xK}return
e.insert=0;tt===Qq?(UK(e,0),0===e.strm.avail_out?RKh:MK(NK):e.last_lit&UK(e,1),0===e.strm.avail_out)?XK:OK}
(t);n.strategy=s?function(e,t){for(var
r,n,i,a,o=e.window;;){if(e.lookahead<=yK){if(VK(e),e.lookahead<=yK&&t===Yq)return
xK;if(0===e.lookahead)break;if(e.match_length=0,e.lookahead>gK&e.strstart!=0&&n=o[i=e.strstart-1]=0[i+i]&&n==o[i+i]&&n==o[i+i]&&n= affordability to reduce the load.
|n=0|e.strategy=1?function(e,t){for(var r,n,i,a,o=e.window;;){if(e.lookahead<=yK){if(VK(e),e.lookahead<=yK&&t===Yq)return
xK;if(0===e.lookahead)break;if(e.match_length=0,e.lookahead>gK&e.strstart!=0&&n=o[i=e.strstart-1]=0[i+i]&&n==o[i+i]&&n==o[i+i]&&n= affordability to reduce the load.
|n=0|e.strategy=1?function(e,t){for(var r,n,i,a,o=e.window;;){if(e.lookahead<=yK){if(VK(e),e.lookahead<=yK&&t===Yq)return
xK;if(0===e.lookahead)break;if(e.match_length=0,e.lookahead>gK&e.strstart!=0&&n=o[i=e.strstart-1]=0[i+i]&&n==o[i+i]&&n==o[i+i]&&n= affordability to reduce the load.
|n=0|e.strategy=1?function(e,t){for(var r,n,i,a,o=e.window;;){if(e.lookahead<=yK){if(VK(e),e.lookahead<=yK&&t===Yq)return
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|n=0|e.strategy=1?function(e,t){for(var r,n,i,a,o=e.window;;){if(e.lookahead<=yK){if(VK(e),e.lookahead<=yK&&t===Yq)return
xK;if(0===e.lookahead)break;if(e.match_length=0,e.lookahead>gK&e.strstart!=0&&n=o[i=e.strstart-1]=0[i+i]&&n==o[i+i]&&n==o[i+i]&&n= affordability to reduce the load.
|n=0|e.strategy=1?function(e,t){for(var r,n,i,a,o=e.window;;){if(e.lookahead<=yK){if(VK(e),e.lookahead<=yK&&t===Yq)return
xK;if(0===e.lookahead)break;if(e.match_length=0,e.lookahead>gK&e.strstart!=0&&n=o[i=e.strstart-1]=0[i+i]&&n==o[i+i]&&n==o[i+i]&&n= affordability to reduce the load.
|n=0|e.strategy=1?function(e,t){for(var r,n,i,a,o=e.window;;){if(e.lookahead<=yK){if(VK(e),e.lookahead<=yK&&t===Yq)return
xK;if(0===e.lookahead)break;if(e.match_length=0,e.lookahead>gK&e.strstart!=0&&n=o[i=e.strstart-1]=0[i+i]&&n==o[i+i]&&n==o[i+i]&&n= affordability to reduce the load.
|n=0|e.strategy=1?function(e,t){for(var r,n,i,a,o=e.window;;){if(e.lookahead<=yK){if(VK(e),e.lookahead<=yK&&t===Yq)return
xK;if(0===e.lookahead)break;if(e.match_length=0,e.lookahead>gK&e.strstart!=0&&n'o[e.strm.avail_out]=0;return nK}return
e.insert=0;tt===Qq?(UK(e,0),0===e.strm.avail_out?RKh:MK(NK):e.last_lit&UK(e,1),0===e.strm.avail_out)?XK:OK}
(n);Wq[n.level].func(n);if(s!==RK&n!==NK||(n.status=CK),s===OK&n=== NK)if(s!==OK&n!== NK)if(s!==RK&n!== NK)if(s!==OK&n!== NK)if(s!==RK&n!== NK)if(s!==OK&n!== NK)if(s!==RK&n!== NK)if(s!==OK&n!== NK)if(s!==RK&n!== NK)if(s!==OK&n!== NK)if(s!==RK&n!== NK)if(s!==OK&n!== NK)if(s!==RK&n!== NK)if(s!==OK&n!== NK)if(s!==RK&n!== NK)if(s!==OK&n!== NK)if(s!==RK&n!== NK)if(s!==OK&n!== NK)if(s!==RK&n!== NK)if(s!==OK&n!== NK)if(s!==RK&n!== NK)if(s!==OK&n!== NK)if(s!==RK&n!== NK)if(s!==OK&n!== NK)
Math.round(e/XY)+"m";if(t>YY)return Math.round(e/YY)+"s";return e+"ms";}}(e);throw new Error("val is not a non-empty string or a valid number. val="+JSON.stringify(e))};function X(e,t,r,n){[var i=n倘is+(-a));i thưv=n.a,i)curr=a;=}var r=coerce(t[0])","string"=typeof t[0]&&"unshift"("%O");var e=0;[t0]=t[0].replace(/%([a-zA-Z%])/g,function(e,n){if("%"==e)return e;e++;var a=[],formatters[n];if("function"==typeof a)var e=t[0];e.call(t[0],tsplice(1,1);--)return e[r].formatArgs.call(t[0],(log||r.log).apply(t[0]))return o.namespace=e,enabled=r.enabled(e),o.useColors=r.useColors(),o.color=r,o.destroy=n,o.extend=i,"function"==typeof r.init&&r.init(o),o.instances.push(o)"function"==typeof r.formatArgs.call(t[0],(log||r.log).apply(t[0]))return o.namespace=e,enabled=r.enabled(e),o.useColors=r.useColors(),o.color=r,o.destroy=n,o.extend=i,"function"==typeof r.init&&r.init(o),o.instances.push(o)"function"==typeof r.formatArgs.call(t[0],(log||r.log).apply(t[0]))return o.namespace=e,enabled=r.enabled(e),o.useColors=r.useColors(),o.color=r,o.destroy=n,o.extend=i,"function"==typeof r.init&&r.init(o),o.instances.push(o)}

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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 17485
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

17502
7:a.valueOffset=a.components<=4?t+8:e.getLong(t+8,n)+r,a.value.push(e.slice(a.valueOffset,a.valueOffset+a.components));break;case
8:a.valueOffset=a.components<=2?t+8:e.getLong(t+8,n)+r;for(o=0;o<a.components;o++)a.value.push(e.getSignedShort(a.valueOffset+2*o,n));break;case
9:a.valueOffset=1=a.components?t+8:e.getLong(t+8,n)+r;for(o=0;o<a.components;o++)a.value.push(e.getSignedLong(a.valueOffset+4*o,n));break;case
r,n=(r=Rf)&:&r._esModule?r:{default:r};var i=aN.WebexPlugin.extend({initialize:function(){for(var e=arguments.length,t=Array(e),r=0;r<e;r++)t[r]=arguments[r];(0,n.default)(aN.WebexPlugin.prototype.initialize,this,t),create:function(e){return this.request({method:"POST",service:"hydra",resource:"attachment/actions",body:e}).then(function(e){return e.body})},get:function(e){var t=e.id||e.body},create:e&&e.items||e.body}),version:"1.80.68"};t.default=i);r(HQ),r(n(function(e,t){Object.defineProperty(t,"__esModule",{value:!0});var r,n=(r=HQ)&&r.__esModule?r:{default:r};(0,aN.registerPlugin)("attachmentActions",n.default,t.default=n.default))};var t=r.default&:&r._esModule?r:{default:r};(0,aN.WebexPlugin.extend({initialize:function(){for(var e=arguments.length,t=Array(e),r=0;r<e;r++)t[r]=arguments[r];(0,n.default)(aN.WebexPlugin.prototype.initialize,this,t),create:function(e){return this.request({method:"POST",service:"hydra",resource:"attachment/actions","+t"}).then(function(e){return e.body})},version:"1.80.68"});t.default=i})
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remove device from Lyra",t.default.reject(t)))},bindSpace:function(){var e=this,t=arguments.length>0&&void 0!==arguments[0]?arguments[0]:[];if(t.url)return this.logger.error("DeviceManager#pair: options.url is required"),t.default.reject(new Error("DeviceManager#bindSpace: options.url is required"));if(!t.kmsResourceObjectUrl)return this.logger.error("DeviceManager#bindSpace: options.kmsResourceObjectUrl is required"),t.default.reject(new Error("DeviceManager#bindSpace: options.kmsResourceObjectUrl is required"));if(!this._pairedDevice)return this.logger.error("DeviceManager#bindSpace: No device paired currently"),t.default.reject(new Error("DeviceManager#bindSpace: No device paired currently"));var n=[url:"/spaces/"+this._pairedDevice.identity.id:id:this._pairedDevice.identity.id];return this._boundSpace={kmsResourceObjectUrl:t.kmsResourceObjectUrl,url:t.url},this.webex.internal.lyra.space.bindConversation(n,this._boundSpace).catch(function(t){return e.logger.error("DeviceManager#bindSpace: failed to bind device to Space"),t.default.reject(t)}),unbindSpace:function(){var e=this;if(!this._pairedDevice||!this._boundSpace)return this.logger.error("DeviceManager#unbindSpace: No space currently bound to the device"),t.default.reject(new Error("DeviceManager#unbindSpace: No space currently bound to the device"));var t={url:"/spaces/"+this._pairedDevice.identity.id:id:this._pairedDevice.identity.id};return this.webex.internal.lyra.space.unbindConversation(t,this._boundSpace).then(function(t){return this._boundSpace=null,e.default.resolve(t)}).catch(function(t){return e.logger.error("DeviceManager#unbindSpace: failed to unbind Space to device"),t.default.reject(t)}),getAudioState:function(){return this._pairedDevice?this.webex.internal.lyra.device.getAudioState(this._pairedDevice):(this.logger.error("DeviceManager#getAudioState: Currently no device is paired"),t.default.reject(new Error("DeviceManager#getAudioState: Currently no device is paired"))),putAudioState:function(e){var t=arguments.length>1&&void 0!==arguments[1]?arguments[1]:{};return this.webex.internal.lyra.device.putAudioState(e,t)},mute:function(){return this._pairedDevice?this.webex.internal.lyra.device.mute(this._pairedDevice):(this.logger.error("DeviceManager#mute: Currently no device is paired"),t.default.reject(new Error("DeviceManager#mute: Currently no device is paired"))),unmute:function(){return this._pairedDevice?this.webex.internal.lyra.device.unmute(this._pairedDevice):(this.logger.error("DeviceManager#unmute: Currently no device is paired"),t.default.reject(new Error("DeviceManager#unmute: Currently no device is paired"))),increaseVolume:function(){return this._pairedDevice?this.webex.internal.lyra.device.increaseVolume(this._pairedDevice):(this.logger.error("DeviceManager#increaseVolume: Currently no device is paired"),t.default.reject(new Error("DeviceManager#increaseVolume: Currently no device is paired"))),decreaseVolume:function(){return this._pairedDevice?this.webex.internal.lyra.device.decreaseVolume(this._pairedDevice):(this.logger.error("DeviceManager#decreaseVolume: Currently no device is paired"),t.default.reject(new Error("DeviceManager#decreaseVolume: Currently no device is paired"))),setVolume:function(){var e=arguments.length>0&&void 0!==arguments[0]?arguments[0]:0;return this._pairedDevice?this.webex.internal.lyra.device.setVolume(this._pairedDevice,e):(this.logger.error("DeviceManager#setVolume: Currently no device is paired"),t.default.reject(new Error("DeviceManager#setVolume: Currently no device is paired"))),updateDeviceMetadata:function(){var e=this,t=arguments.length>0&&void 0!==arguments[0]?arguments[0]:[];if(t.length)return r.default.resolve(t);var i=0,n=t.default.resolve(t);return r.default.all(i,map(function(t,n){return e.webex.internal.services.waitForCatalog("postauth").then(function(){return t.deviceClass===ZQ.UC_CLOUD&&(t.id=e.webex.internal.services.get("wdm")+"/"+t.id),e._decryptDeviceName(t)}).then(function(e){return i.default.resolve()})}),(0,n.default.resolve(t).then(function(){return r.default.resolve()}))},_decryptDeviceName:function(){var e=this,t=arguments.length>0&&void 0!==arguments[0]?arguments[0]:{};if(t.id)e.default.resolve(t);return i.decryptText(i.metadata.encryptedUserAssignedName||i.metadata.encryptionKeyUrl?this.webex.internal.encryption.decryptText(i.metadata.encryptedUserAssignedName):null),i.default.resolve(void 0)
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IJ.MEETING_ERRORSPHONE_NUMBER_TOO_SHORT_AFTER_IDD:
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IJ.MEETING_ERRORSPHONE_NUMBER_TOO.Short AFT
TJ=n(function(e,t){Object.defineProperty(t,}"_esModule",{value:!0});var r=a(Af),n=a(a(jA),i,a(hJ);function a(e){return e&&e.__esModule?e:{default:e}}var o={generateSingularOptions:function(e,t,n){var i=[ ];i[n]={};i[e.correlate]=e.o.generateOptions(i,t,r),generateOptions:function(e,t,r){if(!e||!t||!r)throw new i.default("stats/util->validateInitialization#options, config, and meeting must be provided to execute getStats()");o.configOptions(t,e,J.STATS.SENDERS),o.configOptions(t,e,J.STATS.RECEIVERS),configOption s:function(e,t,a){a(t,e)&&!function(n){return n.default});r(TJ);var wJ=n(function(e){var t=e.exports={v:[{name:"version",reg:/^\d*/}],o:[{name:"origin",reg:/^\S*/ \d*/ \d*/ \S*/ IP\d*/ \d*/}],s:[{name:"name"},i:[{name:"description"}],u:[{name:"uri"}],e:[{name:"email"}],p:[{name:"phone"}],x:[{name:"timezone"}],r:[{name:"repeat"}],t:[{name:"timing",reg:/^\d*/ \d*/ \d*/ \d*/},l,J.STATS.RECEIVERS],l,J.STATS.SENDERS],c:[{name:"connection",reg:/^\IN IP\d*/ \d*/},l,J.WALL],l,J.WALL],i:[{name:"payload"},l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WALL],l,J.WAL
Interactive Connectivity Establishment (ICE)
r=e.msg.messageType;if(t){if(r==='I._OFFER_&&e.remote&&t.shareStatus==='I._REQUESTED_}&return!1;if(t.mediaProperties.peerConnection&&r==='I._ANSWER_&return!1}return n.default.logger.log("RoapStateMachine->shouldStep->PeerConnectionState,
".mediaProperties.peerConnection.signalingState),n.default.logger.log("RoapStateMachine->shouldStep-> success
save proceeding with transition, ",e.msg),0}(r,t)?function(e,t,r){switch(e){case
I.ROAP.ROAP_STATE.INIT:return
}

	I.ROAP.ROAP_SIGNAL_RX_OFFER?I.ROAP.ROAP_STATE.WAIT_TX_ANSWER:t===I.ROAP.ROAP
_SIGNAL.TX_OFFER?I.ROAP.ROAP_STATE.WAIT_RX_ANSWER:e;case
I.ROAP.ROAP_STATE.WAIT_RX_OFFER: return e;case I.ROAP.ROAP_STATE.WAIT_RX_ANSWER:return

	I.ROAP.ROAP_SIGNAL_RX_ANSWER?r.mediaId?I.ROAP.ROAP_STATE.WAIT_TX_OK;(n.default.logger
.error("RoapStateMachine->handleTransition#Race Condition no mediaId,
continuing."),e):===I.ROAP.ROAP_SIGNAL_RX_OFFER?I.ROAP.ROAP_STATE.GLARE:e;case
I.ROAP.ROAP_STATE.WAIT_TX_OFFER: return e;case I.ROAP.ROAP_STATE.WAIT_TX_ANSWER:return

	I.ROAP.ROAP_SIGNAL_TX_OFFER?I.ROAP.ROAP_STATE.WAIT_RX_OK:e;case
I.ROAP.ROAP_STATE.WAIT_TX_OK: return

	I.ROAP.ROAP_SIGNAL_RX_OK?I.ROAP.ROAP_STATE.INIT:e;case
I.ROAP.ROAP_STATE.ERROR:return r===I.ROAP.ROAP_STATE.INIT;case
I.ROAP.ROAP_STATE.GLARE:return I.ROAP.ROAP_STATE.default: return e }))([i.e.t[i]]},methods:{onAfterStep:function(e){n.default.logger.log("RoapStateMachine->onAfterStep#fired!
State changed from "+e.from+" to "+e.to+" with transition "+e.transition+").]]]));t.default=1);r(eZ);var
rZ=n(function(e,t){Object.defineProperty(t,"__esModule",{value:!0});var
r,n=(r=eZ)&&r.__esModule?r:{default:r};var i={sessions:{},getSession:function(e){return
this.sessions[e]||(this.sessions[e]={}),this.sessions[e]},deleteSession:function(e){this.getSession(e)&&delete
this.sessions[e]},getSessionSequence:function(e,t){var r=this.getSession(e);return
r[t]||(r[t]={},r[t].state=n.default.createState()),r[t]},{key:"perform",value:function(e,t,r){var
rZ=n(function(e,t){Object.defineProperty(t,"__esModule",{value:!0});t.default=void 0;var
r=f(hT),n=f(zy),i=f($y),a=f(vT),o=f(mT),s=f(Pf),u=f(cJ),c=f(JJ),l=f(tZ);function
f(e){return e&&e.__esModule?e:{default:e}}var d=function(e){function t(e,i,o,s){(0,n.default)(
this,t);var u=(0,a.default)(this,(t.__proto__||(0,r.default)(t)).call(this,{},i));return
u.attr="e",u.options=1,u.roapOk=o,u.roapAnswer=s,u}return(0,o.default)(t),e,0,i.default(t),t["key":"perform",value:function(e,t,r){var
r=n= NSA-switch(e.state.t) case
I.ROAP.ROAP_STATE.WAIT_TX_ANSWER:c.default.shouldHandleMedia(t)&&&c.default.updatePeerConnection(t,e),then(function(r){n.roapAnswer({locustId:t.locusId,locusSelfId:t.locusInfo.self.id,mediaId:t.mediaId,sdps:r.seq:
"e.OFFER.correlationId"};c.default.handleRemoteDescription(t,e),then(function(t){c.default.setRemoteDescription(t,e),then(function(e){n.roapOk(e)})),break;case I.ROAP.ROAP_STATE.ERROR:u.default.logger.error("RoapHandler->perform#Error occurred during wait receive answer, continuing, "+e));break;case
I.ROAP.ROAP_STATE.WAIT_TX_OK:c.default.shouldHandleMedia(t)||c.default.setRemoteDescription(t,e),then(function(e){n.roapOk(e)}),break;case I.ROAP.ROAP_STATE.ERROR:u.default.logger.error("RoapHandler->perform#Roap State ERROR for session: "+e));break;case
I.ROAP.ROAP_STATE.GLARE:e.GLARE_OFFER.tieBreaker=e.GLARE_OFFER.tieBreaker||0,e.OFFER.tieBreaker=e.OFFER.tieBreaker||0,u.default.logger.warn("RoapHandler->perform#Roap State resolved the GLARE
condition.");e.GLARE_OFFER.tieBreaker=e.OFFER.tieBreaker?u.default.logger.log("RoapHandler->
perform#Roap State local offer won after GLARE.");u.default.logger.log("RoapHandler->perform#Roap State
remote offer won after GLARE.");e.state.step(I.ROAP.ROAP_SIGNAL.GLARE_RESOLVED,t,r),this.perform(e,t)) },"key":"execute",val
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```
E&&t.locusInfo.syncUrl&&((o=n.default.compareLocus(e.baseSequence,t.locusInfo.sequence))!==lJ.DELTAEVEN
T.LT&o!==lJ.DELTAEVENT.CF||(i=lJ.DELTAEVENT.CF)),e.baseSequence||i!==lJ.DELTAEVENT.EQ||e.fullStat
e.state!==lJ.LOCUS.STATE.INITIALIZING||0!==e.sequence.rangeStart||0!==e.sequence.rangeEnd||0!==e.sequen
c.entries.length||(i=lJ.DELTAEVENT.GT),i){case lJ.DELTAEVENT.LT:case
lJ.DELTAEVENT.CF:n.default.generateSyncDebugFlag(t,e),t.locusDesync=!1,t.needToGetFullLocus=!1;break;case
lJ.DELTAEVENT.GT:t.locusInfo.onDeltaLocus(e),t.locusDesync=!1,t.needToGetFullLocus=!1}return
i},syncMeeting:function(e,t){e&&e.locusInfo&&e.locusInfo.syncUrl&&e.locusInfo.fullState&&e.locusInfo.fullStat
e.state!==lJ.LOCUS.STATE.INACTIVE&&&meetingRequest.syncMeeting({syncUrl:t.syncUrl,desync:e.desync}),t
hen(function(t){e.locusInfo.onDeltaLocus(t.body)})):t.default=a});r(IZ);var
AZ=n(function(e,t){Object.defineProperty(t,"_esModule",{value:!0}),t.default=void 0:var
r=(y(H),n=(y(z),i=(y(v),t=(y(m),s=(y(S),u=(y(C),c=(y(d),l=(y(D),j=(y(p),d=(y(h),H,p=(y(v),h=(y(m),z,=
(y(g),m=(y(z),g=(y(I);function e(t){return e||e._esModule?{default:e}:var
A=(!(a.default)(this,t),var
u=(u.default)(this,(t.__proto__||(0,r.default)(t)).call(this));return
u.parsedLocus=statos;u.webex=o,u.emitChange=1,u.compareAndUpdateFlags=[],u.meetingId=s,u.updateMee
ting=e,u.conversationUrl=i.conversationUrl||null,u.created=i.created,u.mediaShares=i.mediaShares,u.parti
cipantsUrl=i.participantsUrl||null,u.replaces=i.replaces,u.aclUrl=i.aclUrl||null,u.baseSequence=i.baseSequence,
null,u.sequence=i.sequence||null,u.membership=i.membership||null,u.identities=i.identities,u.participants=i.part
cipants||null,u.updateControls(i.controls),u.updateLocusUrl(i.url),u.updateFullState(i.fullState),u.updateMeetingInf
o(i.info),u.updateSelf(i,self,i.participants),u.updateHostInfo(i.host),u.updateFullLocus().then(function(t){u.default.default(t,e),u.default.default(t)[{"key":"ini
tialSetup","value:function(t){g.default.updateWithDeltaLocus(t.Locus,(e.t):this.onFullLocus(e);this.emitChange=0}},{ke
y:"parse",value:function(e,t){return r=eventType;switch(u.default.logger.info("locusInfo->parse#received locus data:
"+r),r){case lJ.LOCUSEVENT.PARTICIPANT_JOIN:case lJ.LOCUSEVENT.PARTICIPANT_LEFT:case
lJ.LOCUSEVENT.CONTROLS_UPDATED:case lJ.LOCUSEVENT.PARTICIPANT_AUDIO_MUTED:case
lJ.LOCUSEVENT.PARTICIPANT_AUDIO_UNMUTED:case
lJ.LOCUSEVENT.PARTICIPANT_VIDEO_MUTED:case
lJ.LOCUSEVENT.PARTICIPANT_VIDEO_UNMUTED:case lJ.LOCUSEVENT.SELF_CHANGED:case
lJ.LOCUSEVENT.UPDATED:case
lJ.LOCUSEVENT.PARTICIPANT_CONTROLS_UPDATED:case
lJ.LOCUSEVENT.PARTICIPANT_ROLES_UPDATED:case
lJ.LOCUSEVENT.FLOOR_RELEASED:case
lJ.LOCUSEVENT.FLOOR_GRANTED:case
lJ.LOCUSEVENT.DIFFERENCE:case:break;case
lJ.LOCUSEVENT.FLOOR_RELEASED:case:
t.JEVEN.T.LT&0!==lJ.DELTAEVENT.CF,0!==lJ.DELTAEVENT.EQ,0!==e.sequence.rangeStart,0!==e.sequence.rangeEnd,0
===e.sequence.entries.length,0!==lJ.DELTAEVENT.GT,0){case lJ.DELTAEVENT.LT:case
lJ.DELTAEVENT.CF:n.default.generateSyncDebugFlag(t,e),t.locusDesync=!1,t.needToGetFullLocus=!1;break;case
lJ.DELTAEVENT.GT:t.locusInfo.onDeltaLocus(e),t.locusDesync=!1,t.needToGetFullLocus=!1}return
i},syncMeeting:function(e,t){e&&e.locusInfo&&e.locusInfo.syncUrl&&e.locusInfo.fullState&&e.locusInfo.fullStat
e.state!==lJ.LOCUS.STATE.INITIALIZING||0!==e.sequence.rangeStart||0!==e.sequence.rangeEnd||0!==e.sequence.entries.length,0!==lJ.DELTAEVENT.GT,0){case lJ.DELTAEVENT.LT:case
lJ.DELTAEVENT.CF:n.default.generateSyncDebugFlag(t,e),t.locusDesync=!1,t.needToGetFullLocus=!1;break;case
lJ.DELTAEVENT.GT:t.locusInfo.onDeltaLocus(e),t.locusDesync=!1,t.needToGetFullLocus=!1}return
i},syncMeeting:function(e,t){e&&e.locusInfo&&e.locusInfo.syncUrl&&e.locusInfo.fullState&&e.locusInfo.fullStat
e.state!==lJ.LOCUS.STATE.INITIALIZING||0!==e.sequence.rangeStart||0!==e.sequence.rangeEnd||0!==e.sequence.entries.length,0
```
dateMeetingInfo(e.info,e.self),this.updateDynamicShares(e.mediaShares),this.updateDynamicParticipantsUrl(e.participantsUrl),
this.updateDynamicReplace(e.replace),this.updateDynamicSelf(e.self,e.participants),this.updateDynamicLocusUrl(e.url),
this.updateDynamicBaseSequence(e.baseSequence),this.updateDynamicSequence(e.sequence),this.updateDynamicMemberShip(e.membership),
this.updateDynamicIdentifiers(e.identities),this.compareAndUpdate()}}
}{key:"getLocusPartner",value:function(e,t){return t&&r.identity!==t.identity&&(e.length<=2||t.type===lJ._USER_&&t.removed)}||this.partner=null}}
}{key:"isMeetingActive",value:function(){if(this.parsedLocus.fullState.type===lJ._CALL_){var e=this.getLocusPartner(this.participants,this.self);this.updateDynamicMeeting({partner:e}),this.fullState&&this.fullState.state===lJ.LOCUS.STATE.INACTIVE?(u.default.logger.warn("LocusInfo#isMeetingActive-> Call Ended, locus state is inactive."),l.default.postEvent({event:fJ.eventType.REMOTE_ENDED,meetingId:this.meetingId}),this.emitScoped({file:"locus-info",function:"isMeetingActive"},lJ.EVENTS.DESTROY_MEETING,{shouldLeave:!1})):e.state!==lJ.MEETING_STATE.STATES.LEFT||!this.parsedLocus.self||this.parsedLocus.self.state!==lJ.MEETING_STATE.STATES.DECLINED&&e.state!==lJ.MEETING_STATE.STATES.NOTIFIED&&e.state!==lJ.MEETING_STATE.STATES.IDLE||l.default.postEvent({event:fJ.eventType.REMOTE_ENDED,meetingId:this.meetingId}),this.emitScoped({file:"locus-info",function:"isMeetingActive"},lJ.EVENTS.DESTROY_MEETING,{shouldLeave:!1})):this.parsedLocus.fullState.type===lJ._MEETING_?this.fullState&&this.fullState.state===lJ.LOCUS.STATE.INACTIVE||this.fullState.state===lJ.LOCUS.STATE.TERMINATING?(l.default.postEvent({event:fJ.eventType.REMOTE_ENDED,meetingId:this.meetingId}),this.emitScoped({file:"locus-info",function:"isMeetingActive"},lJ.EVENTS.DESTROY_MEETING,{shouldLeave:!1})):this.parsedLocus.self.removed?(l.default.postEvent({event:fJ.eventType.REMOTE_ENDED,meetingId:this.meetingId}),this.emitScoped({file:"locus-info",function:"isMeetingActive"},lJ.EVENTS.DESTROY_MEETING,{shouldLeave:!1})):u.default.logger.warn("LocusInfo#isMeetingActive-> Meeting Type is unknown.")}}
}{key:"compareAndUpdate",value:function(){(this.compareAndUpdateFlags.compareSelfAndHost||this.compareAndUpdateFlags.compareHostAndSelf)&&this.compareSelfAndHost()}}
}{key:"compareSelfAndHost",value:function(){this.parsedLocus.self.selfIdentity===this.parsedLocus.host.hostId&&this.parsedLocus.self.moderator?this.emitScoped({file:"locus-info",function:"isMeetingActive"},lJ.EVENTS.DESTROY_MEETING,{shouldLeave:!1})):u.default.logger.warn("LocusInfo#isMeetingActive-> Meeting Type is unknown.")}}
}{key:"updateParticipants",value:function(e){this.emitScoped({file:"locus-info",function:"updateParticipants"})}}
}{key:"updateLocusInfo.UPDATE_PARTICIPANTS",value:function(e){this.emitScoped({file:"locus-info",function:"updateParticipants"})}}
}{key:"updateLocusControls",value:function(e){e&&!lJ._USER_?e&&this.parsedLocus.controls=null}:this.emitScoped({file:"locus-info",function:"updateConversationUrl"})}}
}{key:"updateConversationUrl",value:function(e){this.emitScoped({file:"locus-info",function:"isMeetingActive"})}}

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```javascript
CZ=nc(function(e,t){Object.defineProperty(t,"_esModule", {value:0!}))},t.default=function(){var r=c(f),n=c(hS),i=c(vS),a=c(hT),o=c(zy),s=c($y),u=c(vT),c=f(mT);function f(e){return e&&e.__esModule?e:{default:e}}var d=function(e){function t(){return(0,o.default)(this,t),(0,u.default)(this,(t.__proto__||Object.getPrototypeOf(t)).apply(this,arguments))}return(0,c.default)(t,e),Object.defineProperty(t,
```

**Note:** The text appears to be a part of a JavaScript code snippet, which seems to be related to a reconnection manager for a connected pharmacy system. The code includes various methods and properties, such as `updateSequence`, `updateMemberShip`, and `updateIdentifiers`, and it involves error handling for reconnection attempts. The snippet is written in a format that is typical for JavaScript libraries, focusing on object-oriented programming and error raising with `throw` and `catch` blocks.
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pants, e.self)}, this.sipUri && this.partner && this.type !== "I.CALL_" && this.setSipUri(this.partner.person.sipUrl || this.partner.person.emailAddress), [key: "setSipUri", value: function(e) {this.sipUri = e}], [key: "setRoapSeq", value: function(e) {var t = e.locus || this.mediaConnections, e = t.mediaConnections, this.locus = e.locus || this.url, this.locusId = e.locusId, this.selfId = e.selfId, this.mediaId = e.mediaId, t.hostId = t.hostId || this.hostId, this.hostId, this.localInfo, initialSetup(t)], [key: "setRemoteStream", value: function(e) {var t = this.e & e && e.ontrack = function(e) {p.default.logger.log("Meeting:index>setRemoteStream/ontrack#Event received for peerConnection: "+e)}; var r = e.streams[0]; t.mediaProperties.remoteStream = r, h.default.trigger(t, {file: "meeting/index", function: "setRemoteStream:pc.ontrack"}), J.EVENT_TRIGGERS.MEDIA_READY, [type: J.EVENT_TYPES.REMOTE_AUDIO, stream: x.default.createMediaStream([t.mediaProperties.remoteStream.getAudioTracks()[0]])], h.default.trigger(t, {file: "meeting/index", function: "setRemoteStream:pc.ontrack"}), J.EVENT_TRIGGERS.MEDIA_READY, [type: J.EVENT_TYPES.REMOTE_VIDEO, stream: x.default.createMediaStream([t.mediaProperties.remoteStream.getVideoTracks()[0]])], t.mediaProperties.remoteStream.getVideoTracks()[1] && h.default.trigger(t, {file: "meeting/index", function: "setRemoteStream:pc.ontrack"}), J.EVENT_TRIGGERS.MEDIA_READY, [type: J.EVENT_TYPES.REMOTE_SHARE, stream: x.default.createMediaStream([t.mediaProperties.remoteStream.getVideoTracks()[0]])]), [key: "unsetRemoteStream", value: function() {var t = this; m.default.stopStream(this.mediaProperties.remoteStream).then(function() {h.default.trigger(t, {file: "meeting/index", function: "closeRemoteStream"})}), [key: "setShareStream", value: function(e) {var t = C.default.getTrack(e), r = t.audioTrack, i = t.videoTrack, a = null; r && (a = r.getSettings(), this.mediaProperties.setMediaSettings("audio", {echoCancellation: a.echoCancellation, noiseSuppression: a.noiseSuppression}), p.default.logger.log("meeting/setLocalTracks: Audio settings.", JSON.stringify(this.mediaProperties.mediaSettings.audio))), i && (a = i.getSettings(), this.mediaProperties.setLocalVideoTrack(i), this.mediaProperties.setMediaSettings("video", {aspectRatio: a.aspectRatio, frameRate: a.frameRate, height: a.height, width: a.width})), p.default.logger.log("meeting/setLocalTracks: Video settings.", JSON.stringify(this.mediaProperties.mediaSettings.video))), h.default.trigger(this, {file: "meeting/index", function: "setLocalTracks"}), J.EVENT_TRIGGERS.MEDIA_READY, [type: J.EVENT_TYPES.LOCAL, stream: x.default.createMediaStream([this.mediaProperties.audioTrack, this.mediaProperties.videoTrack])]), [key: "setLocalShareTrack", value: function(e) {var t = this, r = null; if (e) {this.mediaProperties.setLocalShareTrack(C.default.getTrack(e).videoTrack); var i = this.mediaProperties.shareTrack; i && (r = i.getSettings(), this.mediaProperties.setMediaSettings("screen", {aspectRatio: r.aspectRatio, frameRate: r.frameRate, height: r.height, width: r.width, displaySurface: r.displaySurface, cursor: r.cursor})), p.default.logger.log("meeting/setLocalTracks: Screen settings.", JSON.stringify(this.mediaProperties.mediaSettings.screen)), i.onended = function() {t.wirelessShare? t.leave(): t.stopShare()}, h.default.trigger(this, {file: "meeting/index", function: "setLocalShareTrack"}), J.EVENT_TRIGGERS.MEDIA_READY, [type: J.EVENT_TYPES.LOCAL_SHARE, stream: e])}], [key: "closeLocalStream", value: function() {var e = this; return m.default.stopTracks(this.mediaProperties.audioTrack).then(function() {return m.default.stopTracks(this.mediaProperties.videoTrack).then(function() {return m.default.stopTracks(this.mediaProperties.shareTrack).then(function() {h.default.trigger(e, {file: "meeting/index", function: "closeLocalShare"}, J.EVENT_TRIGGERS.MEDIA_STOPPED, [type: J.EVENT_TYPES.LOCAL_SHARE])})}), [key: "unsetLocalVideoTrack", value: function() {this.mediaProperties.unsetLocalVideoTrack()}], [key: "unsetLocalVideoTrack", value: function() {this.mediaProperties.unsetLocalVideoTrack()}], [key: "unsetLocalVideoTrack", value: function() {this.mediaProperties.unsetLocalVideoTrack()}]);};}

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null
BZ); var VZ=n(function(e,t){Object.defineProperty(t, '__esModule', { value:!0 }); t.default=void 0;var r=h(NC),n=h(fI),i=h(_f),a=h(Pf),o=h(hT),s=h(vT),c=h(mT),l=h(f),f=h(kJ),d=h(aZ),p=h(BZ);function h(e){return e&&e.__esModule?e:{default:e } var v=function(e){function t(e,c){(0,s.default)(this,t);var h=(0,u.default)(this,(t.__proto__||[])(0,0.default)(t)).call(this,[c]);return h.namespace=lJ.MEETINGS,h.setup=function(){h.processedClusterResults=[],h.peerConnectionMap={},h.gather Reachability=function(h){h.setup();try {return window.localStorage.setItem(lJ.REACHABILITY.localStorage,(0,a.default)({})),h.reachabilityRequest.getClusters(),then(function(e){return h.performReachabilityCheck(e).then(function(e){return window.localStorage.setItem(lJ.REACHABILITY.localStorage,(0,a.default)(e))}).catch(function(e){return l.default.logger.error('Reachability->gatherReachability#Error in calling getClusters(): "+e,[]})catch(e){return l.default.logger.error('Reachability->gatherReachability#Error in accessing LocalStorage: "+e,[]})h.performReachabilityCheck=function(e){if(!e||!e.length)return i.default.resolve({});var t= []; return new i.default(function(r){h.getLocalSDPForClusters(e).then(function(e){e&&(0,n.default)(e).length&&e.localSDPList&h.peerConnectionMap[h.i.default.logger.info('Reachability->performReachabilityCheck#Local SDP is empty or has missing elements..returning'),r([])],h.peerConnectionMap=e.peerConnection,t=e.localSDPLSt,h.setRemoteOfferForEachCluster(t).then(function(e){r(e)})}).catch(function(e){l.default.logger.error('Reachability->performReachabilityCheck#Error in getLocalSDPForClusters: "+e,[])})].setRemoteOfferForEachCluster=function(e){var t=[];return new i.default(function(r){h.reachabilityRequest.remoteSDPForClusters(e).then(function(e){var n=e.answers;n&&n.length||(l.default.logger.info('Reachability->setRemoteOfferForEachCluster#Remote SDP is empty.'),h.cleanUpPeerConnections(h.peerConnectionMap),r([])],n).forEach(function(e){var i=e,i=o.clusterId;if(i&&i.sdp){var s=h.peerConnectionMap[i];h.setIceCallBackHandlers(s).then(function(e){if(e.clusterId=o,h.processedClusterResult s.push(e.clusterId)={start:e.iceStats.start,stop:e.iceStats.stop},h.processedClusterResults.length===n.length)var i=h.parseIceResultToReachabilityResult(t);l.default.logger.info('Reachability->setRemoteOfferForEachCluster#Returning reachability result"+(0,a.default)(i),r([])]})catch(function(e){l.default.logger.error('Reachability->setRemoteOfferForEachCluster#Error in setIceCallBackHandlers(): "+e,[]),h.cleanUpPeerConnections(h.peerConnectionMap),r([])]})}.setLocalSDPForClusters=function(e){var t=[],r=[],n= []; return new i.default(function(i,a){e.forEach(function(o){var s=o;f.default.createOffer(d.default.createPeerConnection()).then(function(a){n[o]=a;var o={sdp:a.sdp,clusterId:o};r.push(o),r.length===e.length&&(t.peerConnection=n,t.localSDPList=r,i(t))}).catch(function(e){l.default.logger.error('Reachability->setLocalSDPForClusters#Error in getLocalSDP : "+e,[])})].parseIceResultToReachabilityResult=function(e){if(!e||!(0,n.default)(e).length)return [];var t=[],i=0,a=0;void 0;try {for(var s,u=(0,r.default)(0,n.default)(e));!(i=(s.next())done);i=!0}{var c=s.value,l=[];if(e[c].start>0&&e[c].stop>0){l=[reachable:0, latencyInMilliseconds:e[c].stop-e[c].start,else l=[reachable:[]];t[c]={udp:[u]}]catch(e){a=0;throw e}finally {try {t[i]&&u.return(u)}finally {if(a)throw o}}try {t=h.cleanUpPeerConnections=function(e){var t=[];r=[],a=0;void 0;try {for(var o,s=(0,r.default)(0,n.default)(e));!(t=o.next())done);t=[]}{var u=o.value,c=[u],c&&l.default.logger.info('Reachability->cleanUpPeerConnections#Cleaning up peer connection created for cluster: "+a,c.close()])}catch(e){i=0,a=e}finally {try {t&&!c.return&&c.return()}finally {if(i)throw a}}]h.setIceCallBackHandlers=function(e){var t=null,r=[start:0,stop:0];return new i.default(function(n){function
i(t,r,i)\{t\&r\&\&(\text{window.clearTimeout}(r),r=void
0),e.close(),n,(\text{iceStats;}i)\}t=window.setTimeout(function(){\text{1.default.logger.warn("Reachability-
>iceCallBackHandler#"+h.clusterId+" ice handler timed
out.")},i([t,r],5e3),e.浓iceconnectionstatechange=function(){e\&\&(e.iceConnectionState==="J.ICE_STATE.CHEC
KING\&(t.start=\text{Date.now}());e.iceConnectionState==="J.ICE_STATE.CONNECTED\&\&(r.stop=\text{Date.now}());i(!0,t,
 r),e.iceConnectionState==="J.ICE_STATE.FAILED\&\&(i([t,r],r)))}.h.getClusters=function(){\text{return
h.reachabilityRequest.getClusters()}},h.reachabilityRequest=new
p.default({(c,\text{r})\rightarrow(new(\text{0.LatLngWebexPlugin}));t.default=\text{v}];\text{VZ});var
GZ=n(function(e,t){Object.defineProperty(t,"\_esModule",{\text{value}:\text{0}});t.default=\text{void 0};var
r=(e.f),n=(chT),i=(e.y),o=(e.vT),s=(e.mT),u=(e.cj);function c(e){\text{return
e\&\&_\_esModule?e:default(e)\}funtion
\text{t\}()\text{\{0.default}(this,t),\text{0.o.default}(this,t,\text{t,\_proto\_\_}\{\text{0.default}(t).\text{apply}(this,arguments)}\}\text{\{0.s.default
}(t,e),\text{0.a.default}(t,\text{\{key":"getActiveMeetings","value:function(){\text{var e=\text{this}
this.request(api:"J.API.LOCUS.resource:"+J RESOURCE.LOCO0).then(function(t){\text{return
\text{\{key:"determineRedirections","value:function(e)\{var t=\text{this}
\text{e\text{.remoteLocusClusterUrls\&\&.remoteLocusClusterUrls.length}\text{?\text{default}all(e\text{.remoteLocusClusterUrls}\text{.map(funcio
n(n)\rightarrow(new\text{0.HTTP_VERBS.GET}\text{.url:n,run\text{WhitelistedDomains}!:\text{0}}));\text{then(function(t){\text{return
\text{e\text{.loci}e\text{.loci\text{.concat(t\text{.body\text{.loci})\text{.e\text{.loci\text{.urls\text{.concat(t\text{.body\text{.loci})\text{.r\text{.default\text{.resolve}(e))\}.catch(function(e)\{\text{u\text{.default\text{.logger.error("MeetingRequest-\text{\_getActiveMeetings\}failed to get locus details from url: "+n+","reason: "+e)}\})))\text{then(function(t)}\text{\{}(r\text{.default\text{.resolve(e)})\text{.r\text{.default\text{.resolve(e)})}}\text{,t}\text{\{}(a\text{.N\text{.StatelessWebexPlugin}];t.default=\text{1});\text{r(\text{VZ});var
qZ=n(function(e,t){Object.defineProperty(t,"\_esModule",{\text{value}:\text{0}});t.default=\text{void 0};var
KZ=n(function(e,t){Object.defineProperty(t,"\_esModule",{\text{value}:\text{0}});t.default=\text{void 0};var
HZ=n(function(e,t){Object.defineProperty(t,"\_esModule",{\text{value}:\text{0}});t.default=\text{void 0};var
HZ=n(function(e,t){Object.defineProperty(t,"\_esModule",{\text{value}:\text{0}});t.default=\text{void 0};var

t.webex.internal.conversation.get(i,{participantAckFilter:"all",activitiesLimit:0}).then(function(e){try {for (var r=e.id,i=(0,cI.buildHydraRoomId)(r),a=e.participants.items.o=[{items:[]}],s=(0,cI.getHydraRoomType)(e.tags),u=t.webex.internal.me.id,c=e.tags.includes(cI.SDK_EVENT.INTERNAL.ACTIVITY_TAG.HIDDEN),l=0;l<a.length;l++)
    {var f=a[l],d=(id:(0,cI.buildHydraMembershipId)(f.entryUUID),roomId:i.personId:(0,cI.buildHydraPersonId)(f.entryUUID),personEmail:f.entryEmailAddress,f.entryEmailAddress.f.displayName.f.displayName.personOrgId:(0,cI.buildHydraOrgId)(f.orgId),isMonitor:!1,roomType:s);c&&d.personId===u&&d.isRoomHidden=c,“roomProperties”in f&&c&&“lastSeenActivityDate”in f.roomProperties&&d.lastSeenId=(0,cI.buildHydraMessageId)(f.roomProperties.lastSeenActivityUUID),d.lastSeenDate=f.roomProperties.lastActivityDate,”isModerator”in f.roomProperties&&d.isModerator=f.roomProperties.isModerator),o.items.push(d)
    n.default.resolve(o)}catch(e){return n.default.reject(e)}})})},remove:function(e){var t=e.id||e;return this.request({method:”DELETE”,service:”hydra”,resource:”memberships/”+t}).then(function(e){if(204!==e.statusCode)return e.body})},update:function(e){var t=e.id||e;return this.request({method:”PUT”,service:”hydra”,resource:”memberships/”+t,body:e}).then(function(e){return e.body})},updateLastSeen:function(e){var t=this,r={id:(0,cI.deconstructHydraId)(e.id).id},n=(0,cI.deconstructHydraId)(e.roomId),i={id:n.id,cluster:n.cluster};return(0,cI.ensureConvoAvailability)(this.webex).then(function(){return t.webex.internal.conversation.acknowledge(i,r).then(function(e){return{lastSeenId:(0,cI.buildHydraMessageId)(e.object.id),id:(0,cI.buildHydraMembershipId)(e.actor.entryUUID,e.target.id),personId:(0,cI.buildHydraPersonId)(e.actor.entryUUID),personEmail:e.actor.emailAddress||e.actor.entryEmail,personDisplayName:e.actor.displayName,personOrgId:(0,cI.buildHydraOrgId)(e.actor.orgId),roomId:(0,cI.buildHydraRoomId)(e.target.id),roomType:(0,cI.getHydraRoomType)(e.target.tags),isRoomHidden:!1,isMonitor:!1,created:e.published}})})},onWebexApiEvent:function(e){var t=this,n=e.data.activity;switch(n.verb){case cI.SDK_EVENT.INTERNAL.ACTIVITY_VERB.CREATE:n.object.participants.items.map(function(e){var r=(0,i.default)(n);return r.target=(0,i.default)(n.object),r.object=(0,i.default)(e),t.getMembershipEvent(r,cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.CREATED)}).forEach(function(e){e&&(o('membership “created” payload:
'+(0,r.default)(e)),t.trigger(cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.CREATED,e))});break;case cI.SDK_EVENT.INTERNAL.ACTIVITY_VERB.ADD:var a=this.getMembershipEvent(n,cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.CREATED);a&&(o('membership “created” payload:
’+(0,r.default)(a)),t.trigger(cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.CREATED,a));break;case cI.SDK_EVENT.INTERNAL.ACTIVITY_VERB.LEAVE:var s=this.getMembershipEvent(n,cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.DELETED);s&&(o('membership “deleted” payload:
’+(0,r.default)(s)),t.trigger(cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.DELETED,s));break;case cI.SDK_EVENT.INTERNAL.ACTIVITY_VERB.ADD_MODERATOR:case cI.SDK_EVENT.INTERNAL.ACTIVITY_VERB.REMOVE_MODERATOR:case cI.SDK_EVENT.INTERNAL.ACTIVITY_VERB.HIDE:var u=this.getMembershipEvent(n,cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.UPDATED);u&&(o('membership “updated” payload:
’+(0,r.default)(u)),t.trigger(cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.UPDATED,u));break;case cI.SDK_EVENT.INTERNAL.ACTIVITY_VERB.ACKNOWLEDGE:var c=this.getMembershipEvent(n,cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.SEEN);c&&(o('membership “updated” payload:
’+(0,r.default)(c)),t.trigger(cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.SEEN,c)))},getMembershipEvent:function(e){try {var r=(0,i.default)(this.eventEnvelope),n=void 0,a=void 0;return
};

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r = this.getRoomEvent(t, cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.CREATED); r && (h('room "created" payload: 
  '+'+(0, o.default)(r)), this.trigger(cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.CREATED, r)); break; case 
cI.SDK_EVENT.INTERNAL.ACTIVITY_VERB.UPDATE: var 
n = this.getRoomEvent(t, cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.UPDATED); n && (h('room "updated" payload: 
  '+'+(0, o.default)(n)), this.trigger(cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.UPDATED, n));
}, getRoomEvent: function (e, t) { try { var r = (0, l.default)(this.eventEnvelope), n = void 
0; if (r.event = t, r.data.created = e.published, r.actorId = (0, cI.buildHydraPersonId)(e.actor.entryUUID), t == cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.CREATED) n = cI.SDK_EVENT.INTERNAL.ACTIVITY_FIELD.OBJECT, r.data.creatorId = (0, cI.buildHydraPersonId)(e.actor.entryUUID), r.data.lastActivity = e.published; else if (!t == cI.SDK_EVENT.EXTERNAL.EVENT_TYPE.UPDATED) throw new Error("unexpected event type"); r = cI.SDK_EVENT.INTERNAL.ACTIVITY_FIELD.TARGET
return 
r.data.id = (0, cI.buildHydraRoomId)(e[n].id), r.data.type = (0, cI.getHydraRoomType)(e[n].tags), r.data.isLocked = e[n].tags.includes(cI.SDK_EVENT.INTERNAL.ACTIVITY_TAG.LOCKED), r; } catch (e) { return 
this.webex.logger.error("Unable to generate SDK event from mercury 'socket activity for rooms:" + t + " event: 
  "+e.message, null)); } version: "1.80.68" }); } default: v)); r(JZ), r(n(function (e, t) { Object.defineProperty(t, "__esModule" , {value: !0}); var 
r, n = (r = JZ) && &r._esModule ? r : (0, aN.registerPlugin)("rooms", n.default), t.default = n.default)); var 
ZZ = n(function (e, t) { Object.defineProperty(t, "__esModule", {value: !0}); var 
r = aN.WebexPlugin.extend({ create: function (e) { return 
this.request({ method: "POST", service: "hydra", resource: "teams", body: e }); return new aN.Page(e[0].webex)) }).update(function (e) { var t = e.id; return 
this.request({ method: "PUT", service: "hydra", resource: "teams" + t, body: e }); return new aN.Page(e[0].webex)) }).remove(function (e) { var t = e.id; return 
this.request({ method: "DELETE", service: "hydra", resource: "teams" + t, body: e }); return new aN.Page(e[0].webex)) }).update(function (e) { var t = e.id; return 
this.request({ method: "PUT", service: "hydra", resource: "webhooks" + t, body: e }); return new aN.Page(e[0].webex)) }).get(function (e) { var t = e.id; return 
this.request({ method: "POST", service: "hydra", resource: "webhooks" + t, body: e }); return new aN.Page(e[0].webex)) })

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No license file was found, but licenses were detected in source scan.

```json
{
  "version": 3,
  "sources": [
    "config.js"
  ],
  "names": [
    "hydra",
    "process",
    "env",
    "HYDRA_SERVICE_URL",
    "hydraServiceUrl",
    "credentials",
    "clientType",
    "device",
    "validateDomains",
    "ephemeral",
    "storage",
    "boundedAdapter",
    "storageConfig",
    "unboundedAdapter"
  ],
  "mappings": ";;;;;;AAIA;;;;;;kBAEe;AACbA,SAAOC,QAAQC,GAAR,CAAYC,iBAAZ,IAAiC,+BAD3B;AAEbC,mBAAiBH,QAAQC,GAAR,CAAYC,iBAAZ,IAAiC,+BAFrC,eAAa;eAACX,GAAY,AAADD,GAHA;AAAMbC,UAAQ:AACNC,qBAAiB,IADX;AAENC,eAAW;AAFL,GANK;AAUbC,WAAS;AA CPC,oBAAgBC,uBADT;AAEPC,sBAakBD;AAFX;AAVI,C,EANf",
  "file": "config.js",
  "sourcesContent": [
    "/*!
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 */

import storageConfig from './config-storage';

export default {
  hydra: process.env.HYDRA_SERVICE_URL || 'https://api.ciscospark.com/v1',
  hydraServiceUrl: process.env.HYDRA_SERVICE_URL || 'https://api.ciscospark.com/v1',
  credentials: {
    clientType: 'confidential'
  },
  device: {
    validateDomains: true,
    ephemeral: true
  },
  storage: {
    boundedAdapter: storageConfig,
    unboundedAdapter: storageConfig
  }
};
```

Found in path(s):
* /opt/cola/permits/1274516877_1645212795.75/0/webex-1-80-69-tgz/package/dist/config.js.map

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1274516877_1645212795.75/0/webex-1-80-69-tgz/package/README.md

### 1.1775 go-gin-prometheus 0.1.0

#### 1.1775.1 Available under license:

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1.1776 sisu-plexus 0.3.3-
6.module_el8.0.0+39+6a9b6e22
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1.1788 apicurio-registry-utils-streams

1.3.2.Final

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1.1790 esutils 2.0.3

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1.1791 woodstox-core 5.0.0

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  jar/com/ctc/wstx/msv/BaseSchemaFactory.java
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  jar/com/ctc/wstx/util/SymbolTable.java
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* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-jar/com/ctc/wstx/sw/NonNsStreamWriter.java
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* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-jar/com/ctc/wstx/msv/RelaxNGSchemaFactory.java
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* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-jar/com/ctc/wstx/evt/WstxEventReader.java
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* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-jar/com/ctc/wstx/sw/TypedStreamWriter.java
*/
jar/com/ctc/wstx/dtd/DTDTypingNonValidator.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/io/WstxInputSource.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/sw/XmlWriter.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/io/ISOLatinReader.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/sr/InputElementStack.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/dtd/DTDSubsetImpl.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/exc/WstxLazyException.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/io/EBCDICCodec.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
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jar/com/ctc/wstx/dtd/DTDValidator.java
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jar/com/ctc/wstx/sw/XmlWriter.java
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jar/com/ctc/wstx/io/ISOLatinReader.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/sr/BasicStreamReader.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/sr/TypedStreamReader.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/sr/AttributeCollector.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/dtd/MinimalDTDDValidator.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/dtd/MinimalDTDDReader.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/sr/TypedStreamReader.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/dtd/DTDSubsetImpl.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/sr/InputElementStack.java

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* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/io/WstxInputData.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/io/EBCDICCodec.java
* /opt/cola/permits/1151709055_1617968139.56/0/woodstox-core-5-0-0-sources-1-
jar/com/ctc/wstx/io/UTF8Reader.java
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1.1792 libnpm 3.0.1

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1.1793 byte-buddy 1.9.10
1.1794 wso2-carbon-consent-mgt-endpoint

2.0.18

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* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4.1.49-final-sources-jar/io/netty/handler/codec/socksx/PortUnificationServerHandler.java
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  jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
  jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
  jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
  jar/io/netty/handler/codec/socks/SocksCmdType.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
  jar/io/netty/handler/codec/socks/SocksMessageType.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
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* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
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* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
  jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
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* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/.compiler/JLong.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/.compiler/JCompType.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/Utils.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/.compiler/CGenerator.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/.compiler/CppGenerator.java
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* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/RecordReader.java
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  jar/org/apache/jute/compiler/generated/RccTokenManager.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-
  jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-
  jar/org/apache/jute/compiler/generated/Token.java
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  jar/org/apache/zookeeper/proto/SetSASLResponse.java
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  jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
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* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-
  jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-
  jar/org/apache/zookeeper/txn/ErrorTxn.java
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options {
STATIC=false;
}

PARSER_BEGIN(Rcc)
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 */

package org.apache.jute.compiler.generated;

import org.apache.jute.compiler.*;
import java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;
@SuppressWarnings("unused")
public class Rcc {
    private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
    private static String curDir = System.getProperty("user.dir");
    private static String curFileName;
    private static String curModuleName;

    public static void main(String args[]) {
        String language = "java";
        ArrayList<String> recFiles = new ArrayList<String>();
        JFile curFile=null;

        for (int i=0; i<args.length; i++) {
            if ("-l".equalsIgnoreCase(args[i]) ||
                "--language".equalsIgnoreCase(args[i])) {
                language = args[i+1].toLowerCase();
                i++;
            } else {
                recFiles.add(args[i]);
            }
        }

        if (!"c++".equals(language) && !"java".equals(language) && !"c".equals(language)) {
            System.out.println("Cannot recognize language:" + language);
            System.exit(1);
        }

        if (recFiles.size() == 0) {
            System.out.println("No record files specified. Exiting.");
            System.exit(1);
        }

        for (int i=0; i<recFiles.size(); i++) {
            curFileName = recFiles.get(i);
            File file = new File(curFileName);
            try {
                curFile = parseFile(file);
            } catch (FileNotFoundException e) {
                System.out.println("File "+recFiles.get(i)+" Not found.");
                System.exit(1);
            } catch (ParseException e) {
                System.out.println(e.toString());
                System.exit(1);
            }
            System.out.println(recFiles.get(i) + " Parsed Successfully";
            try {
                curFile.genCode(language, new File("."));
            } catch (IOException e) {
                System.out.println(e.toString());
                System.exit(1);
            }
        }
    }
}
public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
    curDir = file.getParent();
    curFileName = file.getName();
    FileReader reader = new FileReader(file);
    try {
        Rcc parser = new Rcc(reader);
        recTab = new Hashtable<String, JRecord>();
        return parser.Input();
    } finally {
        try {
            reader.close();
        } catch (IOException e) {
        }
    }
}

PARSER_END(Rcc)

SKIP :
{
    " "
    | \n
SPECIAL_TOKEN :
{
    "/" : WithinOneLineComment
}

<WithinOneLineComment> SPECIAL_TOKEN :
{
    <("\n" | \u | \r\n") : DEFAULT
}

<WithinOneLineComment> MORE :
{
    <~[]>
}

SPECIAL_TOKEN :
{
    "/#" : WithinMultiLineComment
}
JFile Input() :
{
  ArrayList<JFile> ilist = new ArrayList<JFile>();
  ArrayList<JRecord> rlist = new ArrayList<JRecord>();
  JFile i;
  ArrayList <JRecord>l;
}
}
JFile Include() : 
{
    String fname;
    Token t;
}

{<INCLUDE_TKN>
    t = <CSTRING_TKN>
    
    JFile ret = null;
    fname = t.image.replaceAll("^\", "").replaceAll("\$", "");
    File file = new File(curDir, fname);
    String tmpDir = curDir;
    String tmpFile = curFileName;
    curDir = file.getParent();
    curFileName = file.getName();
    try {
        FileReader reader = new FileReader(file);
        Rcc parser = new Rcc(reader);
        try {
            ret = parser.Input();
            System.out.println(fname + " Parsed Successfully");
        } catch (ParseException e) {
            System.out.println(e.toString());
            System.exit(1);
        }
        try {
            reader.close();
        } catch (IOException e) {
        }
    } catch (FileNotFoundException e) {
        System.out.println("File " + fname + " Not found.");
        System.exit(1);
    }
    curDir = tmpDir;
    curFileName = tmpFile;
    return ret;
}
ArrayList<JRecord> Module() :
{
    String mName;
    ArrayList<JRecord> rlist;
}
{
    mName = ModuleName()
    { curModuleName = mName; }
    rlist = RecordList()
    { return rlist; }
}

String ModuleName() :
{
    String name = "";
    Token t;
}
{
    t = <IDENT_TKN>
    { name += t.image; }
    ( <DOT_TKN>
    t = <IDENT_TKN>
    { name += "." + t.image; }
    )* 
    { return name; }
}

ArrayList<JRecord> RecordList() :
{
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JRecord r;
}
{
    ( r = Record()
    { rlist.add(r); }
    )+ 
    { return rlist; }
}

JRecord Record() :
{
    String name;
ArrayList<JField> flist = new ArrayList<JField>();
Token t;
JField f;
}

<RECORD_TKN>
t = <IDENT_TKN>
{ rname = t.image; }
<LBRACE_TKN>
(f = Field())
{ flist.add(f); }
<SEMICOLON_TKN>
)+
<RBRACE_TKN>
{
  String fqn = curModuleName + "." + rname;
  JRecord r = new JRecord(fqn, flist);
  recTab.put(fqn, r);
  return r;
}

JField Field() :
{
  JType jt;
  Token t;
}

  jt = Type()
  t = <IDENT_TKN>
  { return new JField(jt, t.image); }

JType Type() :
{
  JType jt;
  Token t;
  String rname;
}

  jt = Map()
  { return jt; }
  | jt = Vector()
  { return jt; }
  | <BYTE_TKN>
  { return new JByte(); }
  | <BOOLEAN_TKN>
```java
{ return new JBoolean(); }  
| <INT_TKN>
{ return new JInt(); }  
| <LONG_TKN>
{ return new JLong(); }  
| <FLOAT_TKN>
{ return new JFloat(); }  
| <DOUBLE_TKN>
{ return new JDouble(); }  
| <USTRING_TKN>
{ return new JString(); }  
| <BUFFER_TKN>
{ return new JBuffer(); }  
| rname = ModuleName()
{
if (rname.indexOf('.', 0) < 0) {
    rname = curModuleName + "." + rname;
}
JRecord r = recTab.get(rname);
if (r == null) {
    System.out.println("Type " + rname + " not known. Exiting.");
    System.exit(1);
}
return r;
}

JMap Map() :
{
    JType jt1;
    JType jt2;
}
{
    <MAP_TKN>
    <LT_TKN>
    jt1 = Type()
    <COMMA_TKN>
    jt2 = Type()
    <GT_TKN>
    { return new JMap(jt1, jt2); }
}

JVector Vector() :
{
    JType jt;
}
{
    <VECTOR_TKN>
```

1.1799 wso2-carbon-event-input-adapter-websocket-local 5.1.42

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1.1800 es-to-primitive 1.2.0

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1.1801 config-chain 1.1.13

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1.1802 python3-cffi-backend 1.12.2-1

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1.1803 openjdk-jre 1.8.0u292

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1.1.20

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 * Determines if the current OS matches the given OS
 * version.
 *
 * @param version the OS version to check for
 * @return true if the OS matches
 * @since 1.0
*/
1.1817 wso2-carbon-event-input-adapter-
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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                   "2 clause bsd", "simplified bsd license"},
        Header: "All rights reserved.

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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name:            "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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        Name: "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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`,
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`,
    }
}
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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: „}
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    Licenses["mit"] = License{
        Name:         "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `

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* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Route.java
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* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/MediaType.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/connection/RouteDatabase.java
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* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/cache/CacheStrategy.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/cache/InternalCache.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Request.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/cache/NamedRunnable.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/StatusLine.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http2/Http2.java

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* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Dns.java
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* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/cache/CacheRequest.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/ws/WebSocketReader.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/RealCall.java
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jar/okhttp3/internal/platform/ConscryptPlatform.java
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* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Call.java
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* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/RequestBody.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Protocol.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/Internal.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Credentials.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Interceptor.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/ws/WebSocketProtocol.java
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* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/tls/OkHostnameVerifier.java
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  jar/okhttp3/internal/http1/Http1Codec.java
* /opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/HttpCodec.java
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* /opt/cola/permits/1221463597_1635432552.78/0/plexus-archiver-4-2-1-sources-jar/org/codehaus/plexus/archiver/diags/TrackingArchiver.java
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* /opt/cola/permits/1221463597_1635432552.78/0/plexus-archiver-4-2-1-sources-jar/org/codehaus/plexus/archiver/bzip2/BZip2UnArchiver.java
* /opt/cola/permits/1221463597_1635432552.78/0/plexus-archiver-4-2-1-sources-jar/org/codehaus/plexus/archiver/gzip/GZipUnArchiver.java
* /opt/cola/permits/1221463597_1635432552.78/0/plexus-archiver-4-2-1-sources-jar/org/codehaus/plexus/archiver/Compressor.java
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* /opt/cola/permits/1221463597_1635432552.78/0/plexus-archiver-4-2-1-sources-jar/org/codehaus/plexus/archiver/bzip2/BZip2Compressor.java
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* /opt/cola/permits/1221463597_1635432552.78/0/plexus-archiver-4-2-1-sources-jar/org/codehaus/plexus/archiver/zip/ZipSymlinkResource.java
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* /opt/cola/permits/1221463597_1635432552.78/0/plexus-archiver-4-2-1-sources-jar/org/codehaus/plexus/archiver/zip/OffloadingOutputStream.java
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* /opt/cola/permits/1221463597_1635432552.78/0/plexus-archiver-4-2-1-sources-jar/org/codehaus/plexus/archiver/resources/PlexusIoVirtualFileResource.java
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* /opt/cola/permits/1221463597_1635432552.78/0/plexus-archiver-4-2-1-sources-jar/org/codehaus/plexus/archiver/diags/DelgatingArchiver.java
* /opt/cola/permits/1221463597_1635432552.78/0/plexus-archiver-4-2-1-sources-jar/org/codehaus/plexus/archiver/resources/PlexusIoVirtualSymlinkResource.java

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.1864 json-stream 1.3.5

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# Preconditions for Node.js

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## Installation
## Unit tests

```bash
npm test
```

## Overview

Precond provides a set of functions to verify arguments and state correctness. It lets you rewrite constructs like the following

```js
if (!this.isConnected) {
    throw new Error('Client should be connected before calling X.');
}
```

into a more compact and declarative check below.

```js
precond.checkState(this.isConnected, 'Client should be ...');
```

**Note that even though the throw statement is wrapped in a function, the call stack will still start from the calling function. So the previous examples would both produce the same stack trace.**

All arguments after the message will be used to format the actual error message that will be thrown.

The following precondition checks are provided:

- `checkArgument(value, [messageFormat, [formatArgs, ...]])`
- `checkState(value, [messageFormat, [formatArgs, ...]])`
- `checkIsDef(value, [messageFormat, [formatArgs, ...]])` -> value
- `checkIsDefAndNotNull(value, [messageFormat, [formatArgs, ...]])` -> value
- `checkIsString(value, [messageFormat, [formatArgs, ...]])` -> value
- `checkIsArray(value, [messageFormat, [formatArgs, ...]])` -> value
- `checkIsNumber(value, [messageFormat, [formatArgs, ...]])` -> value
- `checkIsBoolean(value, [messageFormat, [formatArgs, ...]])` -> value
- `checkIsFunction(value, [messageFormat, [formatArgs, ...]])` -> value
- `checkIsObject(value, [messageFormat, [formatArgs, ...]])` -> value
## API

### Static functions

#### precond.checkArgument(value, [messageFormat, [formatArgs, ...]])
- value: the value that is required to be truthy
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is true. Throws an `IllegalArgumentError` if value is false.

#### precond.checkState(value, [messageFormat, [formatArgs, ...]])
- value: the value that is required to be truthy
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is true. Throws an `IllegalStateException` if value is false.

#### precond.checkIsDef(value, [messageFormat, [formatArgs, ...]])
- value: the value that is required to be defined
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is defined (could be null). Throws an `IllegalArgumentError` if value is undefined. Returns the value of the value that was validated.

#### precond.checkIsDefAndNotNull(value, [messageFormat, [formatArgs, ...]])
- value: the value that is required to be defined and not null
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is defined and not null. Throws an `IllegalArgumentError` if value is undefined or null. Returns the value of the value that was validated.

#### precond.checkIsString(value, [messageFormat, [formatArgs, ...]])
- value: the value that is required to be a string
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template
Ensures that value is a string or a String object. Throws an `IllegalArgumentException` if value isn't a string. Returns the value of the value that was validated.

#### precond.checkIsArray(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be an array
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is an array. Throws an `IllegalArgumentException` if value isn't an array. Returns the value of the value that was validated.

#### precond.checkIsNumber(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be a number
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is a number. Throws an `IllegalArgumentException` if value isn't a number. Returns the value of the value that was validated.

#### precond.checkIsBoolean(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be a boolean
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is a boolean. Throws an `IllegalArgumentException` if value isn't a boolean. Returns the value of the value that was validated.

#### precond.checkIsFunction(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be a function
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is a function. Throws an `IllegalArgumentException` if value isn't a function. Returns the value of the value that was validated.

#### precond.checkIsObject(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be an object
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is an object. Throws an `IllegalArgumentError` if value isn't an object. Returns the value of the value that was validated.

### Class precond.IllegalArgumentException

Extends `Error` and is thrown to signal illegal arguments.

### Class precond.IllegalStateException

Extends `Error` and is thrown to signal that the program or object has reached an illegal state.

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1.1871 wso2-carbon-event-output-adapter-core 5.1.42
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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1.1890 httpcore-nio 4.4.10

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1.1893 koa 2.13.0

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1.1894 latencyutils 2.0.3

1.1895 arr-flatten 1.1.0

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jar/io/netty/handler/codec/dns/DnsCodecUtil.java
* /opt/cola/permits/1274596153_1645218626.01/0/netty-codec-dns-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
* /opt/cola/permits/1274596153_1645218626.01/0/netty-codec-dns-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
* /opt/cola/permits/1274596153_1645218626.01/0/netty-codec-dns-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
* /opt/cola/permits/1274596153_1645218626.01/0/netty-codec-dns-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsResponseDecoder.java

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1.1915 redis-parser 3.0.0

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1.1916 jetty-util 9.4.31.v20200723

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org.apache.tomcat:tomcat-jasper
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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1271008189_1644868648.98/0/ninja-metrics-4-0-2-sources-jar/ninja/metrics/InstrumentedMemcached.java
* /opt/cola/permits/1271008189_1644868648.98/0/ninja-metrics-4-0-2-sources-jar/ninja/metrics/MeteredInterceptor.java
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* /opt/cola/permits/1271008189_1644868648.98/0/ninja-metrics-4-0-2-sources-jar/ninja/metrics/InstrumentedCache.java
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* /opt/cola/permits/1271008189_1644868648.98/0/ninja-metrics-4-0-2-sources-jar/ninja/metrics/MetricsService.java

1.1934 liburiparser1 0.9.1-1

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1.1936 libunwind 1.2.1-10~deb10u1

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1.1937 readline-common 7.0-5

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases.
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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fields:
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1.1943 python-dateutil 2.7.3-3

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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The initial developer of the original code is Rainer Budde (http://www.speed-soft.de).

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GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
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the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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executable containing the modified Library. (It is understood
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c) If distribution of the work is made by offering access to copy
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d) Verify that the user has already received a copy of these
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Library" must include any data and utility programs needed for
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components (compiler, kernel, and so on) of the operating system on
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It may happen that this requirement contradicts the license
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author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.1961 readable-stream 3.6.0

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.
We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBUTIONS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

--------------------------------------------------------------------------

1.1964 wide-align 1.1.5
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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"
    "github.com/googleapis/golang-build-tools/protoc-gen-go_gapic"
)

compute "cloud.google.com/go/compute/apiv1"
compute "google.golang.org/genproto/googleapis/cloud/compute/v1"
func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See
        // https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    )

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get               []gax.CallOption
}
TestIamPermissions ([gax.CallOption
]

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
  return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...
gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
  return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
  // The http endpoint to connect to.
  endpoint string

  // The http client.
  httpClient *http.Client

  // The x-goog-* metadata to be sent with each request.
  xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
  httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
  if err != nil {
    return nil, err
  }
  c := &licenseCodesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
  }
  c.setGoogleClientInfo()

  return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }}, nil
}
func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)  
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicenseCode{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            return nil
        })
    }
    return resp, err
}
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl, _ := url.Parse(c.endpoint)
// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

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// TODO: Handle error.
}
def err => c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
    }
def err => c.Close()

req := &computepb.DeleteLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
    // TODO: Handle error.
    }
    err = op.Wait(ctx)
    if err != nil {
    // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
    }
def err => c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
    // TODO: Handle error.
    }
    // TODO: Use resp.
func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {

req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import {
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete           []gax.CallOption
    Get              []gax.CallOption
    GetIamPolicy     []gax.CallOption
    Insert           []gax.CallOption
    List             []gax.CallOption
    SetIamPolicy     []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *
LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...
gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...
gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if err != nil {
                return err
            }
            httpReq = httpReq.WithContext(ctx)
            httpReq.Header = headers
            httpRsp, err := c.httpClient.Do(httpReq)
            if err != nil {
                return err
            }
            defer httpRsp.Body.Close()

            if err = googleapi.CheckResponse(httpRsp); err != nil {
                return err
            }

            info := httpResp.(httpgrpc.response)
            resp := info.(gax.CallResult[computepb.Operation]).Get()
            return nil, err
        })
    }
    return resp, nil
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
}, opts...) 
if e != nil {
    return nil, e
}

op := &Operation{
    &globalOperationsHandle{
        c:       c.operationClient,
        proto:   resp,
        project: req.GetProject(),
    },
}

return op, nil

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if err != nil {
                return err
            }
            httpReq = httpReq.WithContext(ctx)
            httpReq.Header = headers
            httpRsp, err := c.httpClient.Do(httpReq)
            if err != nil {
                return err
            }
            buf, err := ioutil.ReadAll(httpRsp.Body)
            if err != nil {
                return err
            }
            if err := unm.Unmarshal(buf, resp); err != nil {
                return maybeUnknownEnum(err)
            }
        })

    return resp, nil
}
return err
}
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}
// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, _ := url.Parse(c.endpoint)
req.GetResource())
params := url.Values{}
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}
baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if err != nil {
return err

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httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defeat httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{
        "requestId": fmt.Sprintf("%v", req.GetRequestId())
    }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    return nil, e
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpResp.Body.Close()

        if err = googleapi.CheckResponse(httpResp); err != nil {
            return err
        }

        buf, err := ioutil.ReadAll(httpResp.Body)
        if err != nil {
            return err
        }

        if err := unm.Unmarshal(buf, resp); err != nil {
            return maybeUnknownEnum(err)
        }

        return nil
    }, opts...)
    op := &Operation{
        &globalOperationsHandle{
            c: c.operationClient,
            proto: resp,
            project: req.GetProject(),
        },
    }
    return op, nil
// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, _ := url.Parse(c.endpoint)
        params := url.Values{}
        if req != nil && req.Filter != nil {
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
        }
        if req != nil && req.ReturnPartialSuccess != nil {
        }
        baseUrl.RawQuery = params.Encode()

        // Build HTTP headers from client and context metadata.
        headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            return e
if err != nil {
    return err
}  
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}

def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, opts...
if e != nil {
    return nil, "", e
}

it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protjson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protjson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }

        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }

        if err := unm.Unmarshal(buf, resp); err != nil {
            return maybeUnknownEnum(err)
        }

        return nil
    })
```

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func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestIamPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestIamPermissionsLicenseRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &compute.TestIamPermissionsResponse{
        err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if err != nil {
                return err
            }
            httpReq = httpReq.WithContext(ctx)
            httpReq.Header = headers
            httpRsp, err := c.httpClient.Do(httpReq)
            if err != nil {
                return err
            }
            defer httpRsp.Body.Close()
            if err := googleapi.CheckResponse(httpRsp); err != nil {
                return err
            }
            buf, err := ioutil.ReadAll(httpRsp.Body)
            if err != nil {
                return err

            }
if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *compute.License.
type LicenseIterator struct {
    items    []*compute.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*compute.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*compute.License, error) {
    var item *compute.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}
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1.1970 jackson 1.9.12

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1.1971 kafka-oauth-keycloak-authorizer 0.9.0

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1.1972 maven-resolver-provider 3.5.4

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1.1974 url-parse-lax 1.0.0

1.1974.1 Available under license:

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1.1975 cpuid 1.3.1

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1.1976 mysql-community-client 8.0.18-1.el8

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

-----------------------------------------------------------------------------------

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.
HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssl.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) supplied the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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MySQL 8.0

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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Version 3.1, 31 March 2009

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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Licensing Information User Manual

MySQL Router 8.0

Introduction

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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1.1981 json-java 20171018

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1.1995 postgresql-11-postgis-2.5-scripts

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http-proxy-agent

=============

### An HTTP(s) proxy `http.Agent` implementation for HTTP

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

__Note:__ For HTTP proxy usage with the `https` module, check out [`node-https-proxy-agent`](https://github.com/TooTallNate/node-https-proxy-agent).

### Installation

Install with `npm`:

```bash
$ npm install http-proxy-agent
```

### Example

```js
var url = require('url');
var http = require('http');
var HttpProxyAgent = require('http-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `HttpProxyAgent` class with the proxy server information
var agent = new HttpProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
    console.log("response" event!, res.headers);
    res.pipe(process.stdout);
});
```

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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<!-$Id$ -->

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<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
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<li>Holders of <a href="http://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!</li>
<li><a href="http://www.grierforensics.com">Grier Forensics</a>, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.</li>
<li>TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muehlhaeuser.</li>
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<li>Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com">http://voxeolabs.com</a></li>
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People
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<li>Tito Pena <fortunato pena@adnovum.ch> - initial RC5 implementation</li>
<li>Michael Lee <yfl@064@mira.net> - initial RC6 implementation, MD2 implementation</li>
<li>Nuno Santos <nsantos@student.dei.uc.pt> - finding toString bug in certificate object.</li>
<li>Brett Sealey <bretts@064@mortbay.com> - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).</li>
<li>Victor A. Salaman <salaman@064@teknos.com> - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too
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<li>Eran Librach <eran@valicert.com> - spotting and fixing the classLoader bug that occurs if javax.crypto
and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).</li>
<li>Jonathan Knudsen <jonathan@LearningPatterns.com> - porting
information and restrictions when using the lightweight library with the
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<li>Markus Niedermann <markus.niedermann@softwired-inc.com> - porting
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MIDP environment.</li>
<li>Mike Benham <moxie@thoughtcrime.org> - detection and fixing of an
incorrect weak key in the DES key generation support classes. Suggestions
for simplifying DESeDeParameter objects. Optimisations for the Blowfish engine
and BufferedBlockCipher class.</li>
<li>Soren Hilmer <hilmer@mail.tele.dk> - initial implementation of
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<li>Uwe Guenther <uwe@csc.de> - detection and fixing of 3 incorrect semi-weak keys in the DES key
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<li>Markus Bradtke <mab@informatik.uni-kiel.de> - fixing of a logic
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<li>Waclaw Sierek <waclaw.sierek@tpg.pl> - fix to setOddParity in
the DESParameter class. Assistance with adding ordering to X509 names for
certificate generation, proper processing of byte strings in the ASN1
package, further simplifications and additional classes to improve pkcs7
support, bug fixes in CertPath API.</li>
<li>Ly-Na Phu <lyna.phu@init-consulting.de> - assistance in the
addition of ISO 9796-1 padding.</li>
<li>Stefan KöpSELL <sk13@mail.inf.tu-dresden.de> - making the jdk 1.1
version of the collections API available. For further details see
<li>Carmen Bastiaans <cbastiaa@microbits.com.au> - fixing the improper
null pointer problem in the setting of certificates in the PKCS12 key store.</li>
<li>Tomas Gustavsson <tomasg@primekey.se> - initial implementation of the AuthorityInformationAccess,
SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies,
V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName
class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes.
getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.</li>
<li>Eugen Kuleshov <euxx@hotmail.com> - optimisations for Blowfish, assistance with PKCS12/keytool
interoperability.</li>
<li>Megan Woods <meganwoods@sekurafile.com> - initial implementation of
ECIES.</li>
<li>Christian Geuer-Pollmann <geuerp@apache.org> -
adding IV's to the AESWrap implementations. Initial implementation of
DESeDeWrap.</li>
<li>Michael M@252;hle <michael@ mouling.de> - contributing the initial CertPath implementation and
compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>
<li>Michael Mansell <me@ michaelmansell.com> - fixing the parsing of the empty DER set in the ASN.1
library.</li>
<li>Eike Recker <eike.recker@#064;gmx.de> - fixing misspelling of provider reference for RSA/1 and RSA/2.</li>
Chris Southern <CSouthern@baltimore.com> - fixing misuse of specified provider in the PKCS10 certification request class.

Sidney Markowitz <sidney@sidney.com> - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.

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Martin Petraschek <e9526225@student.tuwien.ac.at> - fixing ASN1 tagging so tag values up to 30 are now supported.

Jess Garms <jgarms@yahoo.com> - fixing 112/168 key size bug for DESede key generation.

Mike Bremford <mike@big.faceless.org> - contributing the initial PKCS7 implementation.

Shankar Srinivasan <ssr002@yahoo.com> - S/MIME interoperability testing and debugging.

Stef Hoeben <siestef@scientist.net> - adding Montgomery multiplication to the BigInteger class.

Klaudiusz Ciosk <kciosk@max.com.pl> - improving the compatibility of the SMIME package with the Sun JCE.

Thomas Houtekier <Thomas.Houtekier@tectrade.net> - S/MIME testing and debugging. Interoperability with Biztalk.

Don Hillsberry <hillsber@diaclorp.com> - S/MIME testing and debugging.

Kazu Furuya <kfuruya@infotecia.co.jp> - fixing root certificate chaining bug in PKCS12 key store.

Jason Novotny <jn@myłow@lbl.gov> - initial work on the OpenSSL PEM processing.

Joel Hockey <joel.hockey@qsipayments.com> - initial work on the OpenSSL PEM processing.

John Steenbruggen <JohnS@geotrust.com> - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

Justin Chapweske <justin@chapweske.com> - ordering patch for Tiger message digest.

John Serafick <serafick@hotmail.com> - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.

Sascha Weinreuter <Sascha.Weinreuter@cit.de> - fixed SMIME saveChanges() bug.

Andre Wehnert <aw5@mail.inf.tu-dresden.de> - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.

Luigi Lo Iacono <lo_iacono@inf.tu-siegen.de> - adding SIC mode to the blockciphers in the provider.

Tim Sakach <tsakach@certivo.net> - SMIME v2 compatibility patches.

Marcus Povey <mpovey@brookes.ac.uk> - adding the PGP mode to the lightweight API and the provider.

Sebastian Clau&szlig; <sc2@inf.tu-dresden.de> - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza <nicolas.bielza@alligacom.com> - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.

Casey Marshall <rsdio@metastatic.org> - fixing the clone problem with Macs in the clean room JCE.
<li>Rick Zeldes <rick.zeldes@064.eds.com> - initial code for CMS/SMIME CompressedData.</li>
<li>Jarek Gawor <gawor@064.mcs.anl.gov> - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>
<li>Brett Neumeier <random@064.mnd.cx> - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>
<li>Graham Coles <graham.coles@064.retail-logic.com> - patch to isParityAdjusted in DESKeySpec.</li>
<li>Jorn von Kattchee <j.kattchee@064.seeburger.de> - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>
<li>Matteo Artuso <matartuso@064.libero.it> - picking up the possible overead in ASN1InputStream.</li>
<li>Julian Morrison <julian@064.extropy.demon.co.uk> - spotting the slow down in Diffie-Hellman key generation.</li>
<li>Elmar Sonnenschein <eso@064.esomail.de> - fix to long conversion in clean room SecureRandom.</li>
<li>Jorn Schwarze <JSchwarze@064.ulec.de> - Locale fix for the clean room JCE.</li>
<li>Bryan Lovquist <bkl@064.cps.com.au> - Other provider compatibility fixes for CMS signing.</li>
<li>Artem Portnoy <ArtSem_Portnoy@064.ibi.com> - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
<li>Michael Hausler <haeusler@ponton-consulting.de> - missing OID update for SHA1 with RSA Signature.</li>
<li>Johan Seland <johans@064.netfonds.no> - general toString for BigInteger class.</li>
<li>Johannes Nicolai <johannes.nicolai@064.novosec.com> - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>
<li>Marc Doberva <marc.doberva@064.ilex-si.com> - help in isolating the JSSE/BC RSA key issue.</li>
<li>Jan Dvorak <jan.dvorak@064.mathan.cz> - initial implementation of the light weight Null block cipher.</li>
<li>Joe Cohen <jcohen@064.threadsym.com> - converting the ArrayOutOfBoundsException in DERInputSteam into what it should have been.</li>
<li>Chris Long <aclong@064.cee.cmu.edu> - adding public key decoding to PEMReader.</li>
<li>Hes Siemelink <hes@064.izecom.com> - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>
<li>Stefan Puiu <stefanpuiuro@064.yahoo.com> - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>
<li>Kaiser Yang <kaiseryang@064.yahoo.com> - Finding BigInteger loop problem in prime generation.</li>
<li>Jiri Urbanec <jiri.urbanec@064.logicacmg.com> - patch to fix defect in DERBMPString.equals().</li>
<li>Justin Kolb <jkolb@064.pristx.com> - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.</li>
<li>Ralf Hauser <ralfhauser@064.gmx.ch> - patch to exception handling in PublicKeyRing. PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator.</li>
<li>Michal Dvorak <M_Dvorak@064.ilex-si.cz> - getNextUpdate patch for OCSP SingleResp.</li>
<li>Klaus Greve Fiorentini <Klaus@064.cpqd.com.br> - array fix in PGPPublicKeyEncSessionPacket.</li>
<li>Olivier Refalo <Olivier_Refalo@064.fpl.com> - null pointer exception fix for JDK 1.3 CMS-SignedData objects.</li>
<li>Mariusz Bandola <mariusz.bandola@064.cryptotech.com.pl> - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>
<li>Brien Oberstein <brien.oberstein@064.transacttools.net> - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility.</li>
<li>Ian Haywood <ian@064.haywood.bpa.nu> - addition of getSignatureType to PGPSignature.</li>
<li>Jonathan Edwards <s34gull@064.mac.com> - initial support for reading multiple rings from a PGP key file.
Andrew Thornton <andrew@064caret.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander <gl@064bos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.

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Francois Staes <fstaes@064netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed content info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer <wdittmer@064ces.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto <laperez@064banxico.org.mx> - patch to use of BitString in X.500 name.

James Wright <James_Wright@064harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.

Jim Ford <jim@064miruford.com> - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.

Michael Hausler <haeusler@064ponton-consulting.de> - extra aliases for provider.

Sai Pullabhotla <psai@064linoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller <joseph@064digitelweb.net.nz> - addition of ZeroBytePadding.

Lars <xyz@064sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen <jeroen@064vanvianen.nl> - the Signed and Encrypted mail example.

Jun Sun <JSun@064diversinett.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem <pduke@064email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva <filipe.silva@064wedocomconsulting.com> - patch to fix overread issue in BCPGInputStream.

Alpesh Parmar <alps@064linuxmail.org> - patch for class cast problem in PGPPublicKey.getSignatures().

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Breitenstrom Christian C.Breitenstrom@064t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko <zanotti@064cad.it> - patch to ordered equality test for X509Name.

Nicola Scendoni <nscendoni@064belpsi.it> - patch to add sorting to CertPath validation.

Ville Skytt&auml; <ville.skytt@064iki.fi> - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

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Miles Whiteley <Miles.Whiteley@064savvis.net> - "223" fix for BCPGInputStream new packets.

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Carlos Lozano <carlos@064evintia.com> - initial TSP implementation, patch to SignerInformation for
supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo <javi&#064javiciodewarp.org> - initial Mozilla PublicKeyAndChallenge classes.</li>
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<li>Sergey Bathin <Sergey_Batin&#064yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>
<li>Franck Leroy <Franck.Leroy&#064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuhiyo Yamakana <yammk&#0644jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>
<li>Nickolay Bolshakov <tyrex&#064reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.</li>
<li>Soren Hilmer <soren.hilmer&#064itetoenaion.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
<li>Steve Mitchell <mitchell&#0640#064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.</li>
<li>Dirk Eisner <D.Eisner&#064seeburger.de> - initial implementation of ISO 78164-4 padding.</li>
<li>Julien Pasquier <julienpasquier&#064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo <matartuso&#064libero.it> - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson <andrew.paterson&#0644#064burnsec.com> - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov <vladimir.molotkov&#064intel.com> - extensive provider exception handling compliance testing.</li>
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<li>Pavel Vassiliev <paulvas&#064gmail.com> - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman <tom&#0646#064nux.net> - addition of DES-EDC encryption for RSAPrivate keys to PEMWriter.</li>
<li>Lukasz Kowalczyk <lukasz.b.kowalczyk&#064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch <Arndt.Hasch&#064maxence.de> - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) <bernd.fix&#064credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.</li>
<li>David M. Lee <dmlee&#064Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon <md5&#064embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung <t2cung&#0646#064hotmail.com> - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz <cschultz&#0646#064gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.</li>
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<li>Joel Rees <rees&#0646#064ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute
certificates.</li>
<li>Francesc Sau <francesc.sau@#064partners.netfocus.es> - micro fix for tsp Accuracy class.</li>
<li>Larry Bugbee <larry.bugbee@#064mac.com> - initial ECNR implementation.</li>
<li>Remi Blancher <remi.blancher@#064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O'Rourke <brianorourke@#064gmail.com> - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier <andreas.schwier@#064cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-ED4 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>
<li>David Josse <david.josse@#064transacttools.net> - Patch for trailer function in version 2 signature packets.</li>
<li>Kishimoto Kazuhioko <kazu-k@#064hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>
<li>Lawrence Tan <lawntan@#064gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>
<li>Carlos Valiente <superdupont@#064gmail.com> - Addition of CRL writing to the PEMWriter class.</li>
<li>Keyon AG, Martin Christinan, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9fieldElement class.</li>
<li>Olaf Keller, <olaf.keller.bc@#064bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNaF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>
<li>J&ouml;rg Eichhorn <eichhorn@#064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>
<li>Karsten Ohme <pwdzerand@#064t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validator for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>
<li>Carlos Lozano Ruiz <carlos@#064tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.</li>
<li>John Alfred Prufrock <j.a.prufrock@#064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>
<li>Stefan Neusatz Guilhen <sneusatz@#064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>
<li>Marzio Lo Giudice <marzio.logiudice@#064gmail.com> - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.</li>
<li>Georg Lippoll <georg.lippold@#064gmx.de> - initial implementation of NaccacheStern cipher.</li>
<li>Chris Viles <chris_viles@#064yahoo.com> - fix to SignatureSubpacket critical bit setting.</li>
<li>Pasi Eronen <Pasi.Eronen@#064nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>
<li>Lijun Liao <lijun.liao@#064rub.de> - performance enhancements for SHA family of digests. Bug report and
patch for blank line handling in ArmoredInputStream.

Maria Ivanova <maria.ivanova@#064gmail.com> - support for tags > 30 in ASN.1 parsing.

Armin Haeberling <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder <mschilder@#064google.com> - main set of test vectors for Bleichenbacher’s forgery attack.

Xavier Le Vourch <xavier@#064brittanysoftware.com> - general code clean ups.

Erik Tews <e_tews@#064dco.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decodings.

Thomas Dixon <reikomusha@#064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis <info@#064frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim <rjoaquim@#064cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.

David Stacey <DStacey@#064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Maria Ivanova <maria.ivanova@#064gmail.com> - support for tags > 30 in ASN.1 parsing.

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Xavier Le Vourch <xavier@#064brittanysoftware.com> - general code clean ups.

Erik Tews <e_tews@#064dco.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decodings.

Thomas Dixon <reikomusha@#064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis <info@#064frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim <rjoaquim@#064cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.

David Stacey <DStacey@#064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
Matthew Stevenson <mavricknz@#064yahoo.com> - patch to constructor for CRMF CertSequence.

Gabriele Contini <gcontini@#064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude <roelof.naude@#064epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck <peck@#064signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay <lemaymd@#064lemaymd.com> - identified problem with EAX [#BJA-93].

Alex Dupre <alex@#064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90].

Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]

Michael Schoene <michael@#064sigrind-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga <ilarra@#064s21sec.com> fix to default partial packet generation in BCPGOutputStream.


Stefan Meyer <stefan.meyer@#064ewe.de> backport for PKIXCertPathValidator and SMIMESignedMailReviewer.


Rui Hodai <rui@#064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic <emir.bucalovic@#064mail.com> initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson <tobbe79@#064gmail.com> initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick <bouncycastle_pfitz@#064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson <henrik.andersson@#064gmail.com> addition of UniqueIssuerID to certificate generation.

Cagdas Cirit <cagdascirit@#064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.

Harakiri <harakiri_23@#064yahoo.com> datahandler patch for attached parts in SMIME signatures.

Pedro Henriques <pmahenriques@#064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimmeringer <job@#064kimmeringer.de> verbose mode for ASN1Dump, support for DERExternal.

Richard Farr <rfarr.se@#064gmail.com> initial SRP-6a implementation.

Thomas Castiglione <castiglione@#064au.ibm.com> patch to encoding for CRMF OptionalValidity.

Elisabetta Romani <eromani@#064sogei.it> patch for recognising multiple counter signatures.

Robin Lundgren <r737lundgren@#064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec <smormegil@#064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener <antener_a@#064gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat <hsrawat@#064yahoo.com> fix for BERConstructedOctetString.

Rolf Lindemann <lindeumann@#064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov <alextart.home@#064gmail.com> name look up patch for GOST-2001 parameters.

Mike Lyons <mlyons@#064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole <chris_h_cole@#064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.
<li>Tomas Krivanek <tomas@064attack.cz> added checking of Sender header to SignedMailValidator.</li>
<li>Michael <emfau@064t-online.de> correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin <trevor@064cryptography.com> addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kiløring <markus@064primekey.se> several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic <darionis@064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith <msmith@064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio <andrea.zilio@064gmail.com> fix for PEM password encryption of private keys.</li>
<li>Alex Birkett <alex@064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant <waynedgrant@064gmail.com> additional OIDs for PKCS10 and certificate generation support.</li>
<li>Frank Cornelis <info@064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Dittberner <jan@064dittberner.info> addHeader patch for SMIME generator.</li>
<li>Bob McGowen <boab.mcgoo@064btinternet.com> patch to support different content and mgf digests in PSS signing.</li>
<li>Ivo Matheis <matheis@064seeburger.de> fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrin <messche@064gmail.com> patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf <alfilmalf@064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.</li>
<li>Alfonso Massa <alfonso.massa@064insiel.it> contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo <gboccardo@064unimaticaspa.it> initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu <arnis@064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociński <J.Sikociinski@064gdzie.pl> addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolej <jhudolej@064gmail.com> JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten <liane.velten@064hjp-consulting.com> fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden <swillden@064google.com> additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev <akrachev@064gmail.com> added support for revocation signatures in OpenPGP.</li>
<li>Mickael Laiking <mickael.laiking@064keynectis.com> initial cut of EAC classes.</li>
<li>Tim Buktu <tbuktu@064hotmail.com> Initial implementation of NTRU signing and encryption.</li>
<li>Bernd <bernd@064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morishak <stein.inge.morishak@064BEKK.no> Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid <andreas.schmid@064tngtech.com> Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz <phil.steitz@064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Ignat Korchagin <ignat.korchagin@064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
<li>Petar Petrov <p.petrov@064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>Daniel Fitzpatrick <daniel.f.nwre@064gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
<li>Andy Neilson <Andy.Neilson@064quest.com> a further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw <xiao.xj@064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
Eleriseth <Eleriseth@#064WPECGLrYbi8Rlf6Y7Vzr2Lvd2EUVW99v3yNV3YRWSGfM> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.<li>
Kenny Root <kenny@#064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.<li>
Maarten Bodewes <maarten.bodewes@#064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.<li>
Philip Clay <pilf_b@#064yahoo.com> Initial implementation of J-PAKE.<li>
Brian Carlstrom <bdc@#064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.<li>
Samuel Lid&aelig;eacute;n Borell <samuel@#064primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.<li>
Sergio Demian Lerner <sergiolerner@#064certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.<li>
Tim Whittington <Tim.Whittington@#064orionhealth.com> patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.<li>
Marcus Lundblad <marcus.lundblad@#064primekey.se> patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.<li>
Andrey Zhozhin <zhozhin@#064xrm.ru> patch for override of TSP SignerInfo attributes.<li>
Sergey Tiunov <tiunov5555d@#064gmail.com> initial cut of DVCS classes.<li>
Damian Kolasa <fatfredyy@#064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.<li>
Ash Hughes <ashley.hughes@#064blueyonder.co.uk> patches for supporting PGPSignatureSubpacketVector.getPgetEncryptedSignatures().<li>
Daniel Hirscher <dev@#064daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.<li>
Daniele Ricci <daniele.athome@#064gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.<li>
Matti Aarnio <matti.aarnio@#064methics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.<li>
Babak Najafi <bnajafi@#064akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.<li>
Andrey Utkin <cindrhc@#064gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.<li>
Arnis Tartu <arnis@#064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.<li>
AxelVDB <axel-vdb@#064riseup.net> initial implementation of Shacal2.
- Roberto Tyley: further work on completing gradle build.
- Waldemar Dick: code improvement in x500 ASN.1 package.
- Sid Steward: code improvements to ASN1Boolean.
- Alex Klyubin: AlgorithmParameters check for EC key agreement.
- Jonathan Gillett: Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
- Andreas Reiter: Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
- Kieran Miller: initial implementation for RFC 5649 key wrap with padding.
- Oliver Ehli: Additional support for BSI plain ECDSA in the provider.
- Daniel Heldt: Initial support for encodable state message digests.
- Robert Bushman: Clean up of DirectKeySignature example.
- Maurice Aarts: updated to KDF generator to follow NIST SP 800-108.
- Franziskus Kiefer: initial implementation of Cramer-Shoup.
- KB Sriram: testing for odd encodings for PGP User Attribute Subpackets.
- Marco Schulze: Iterable support in OpenPGP API, code cleanup in OpenPGP API.
- Tobias Wich: Provided patch for TLS to work around servers sending Supported Elliptic Curves unexpected.
- Hauke Mehrtens: TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
- Daniel Zimmerman: Further key quality improvements to RSAKeyPairGenerator.
- Jens Kapitza: Iterable support in OpenPGP API, code cleanup in OpenPGP API.
- Johan Eklund: update to RFC 6960 for OCSPObjectIdentifiers.
- nikosn: Fix to encoding of EC private keys to ensure encoding matches order length.
- Axel von dem Bruch: Contributions to BCrypt/OpenBSDCrypt, original version of Blake2bDigest.
- Derek Atkins: Documentation fixes to X9ObjectIdentifiers.
- Peter Jr Halicky: Correction to notification/error message handling in SignedMailValidator.
- lartiguePierre: Fix for counter signature SID in CMSSignedData.
- Thomas Belot: initial CertPathLoopTest for demonstrating stack overflow issue.
- Rich DiCroce: Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
- Bjouml;rn Kautler: Refinements to cert path validation (authority key addition, certificate order preservation).
- Dominik Sch&uuml;rmann: method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
- Michael: initial fix for bitStrength issue for OpenPGP EC keys.
- Tobias Wagner: Fix SecureRandom handling in BcAsymmetricKeyWrapper
</ul>
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</html>

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package cloud

import (  
    "bytes"  
    "io/ioutil"  
    "os"  
    "path/filepath"  
    "strings"  
    "testing"
)

var sentinels = []string{  
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {  
    t.Parallel()  
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {  
        if err != nil {  
            return err  
        }  
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {  
            t.Errorf("Invalid file: %s", path)  
        }
    })
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbt/doc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
}
if err != nil {
    t.Fatal(err)
}

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-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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org.ow2.asm:asm

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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceReportingEventHandler.java
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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslatorTwoArg.java
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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/WorkerPool.java
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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/LiteBlockingWaitStrategy.java
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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/FixedSequenceGroup.java
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1.2035 libperl 5.28.1-6+deb10u1
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Files-Excluded-regen-configure: bin/*
Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was debianized by Brendan O'Dea <bod@debian.org> on
Thu, 17 Aug 2000 16:10:54 +1000.

Upstream Authors:

Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

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dist/Math-BigInt/*
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ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
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Julian Seward, jseward@bzip.org
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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This gmp package was built for Debian by

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.2054 keyutils 1.5.10 6.el8

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.2060 signal-exit 3.0.2

1.2060.1 Available under license:
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1.2061 urllib3 1.22
1.2061.1 Available under license:
# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnexionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnexionPool
  * Basic-authenticated HTTPSConnexionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnexionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBDhBFQ6b/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections
* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire
* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicholas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration
* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.
* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added `enforce_content_length` to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yglez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.2062 vim 8.0.1763 15.el8

1.2063 maven-dependency-tree 2.2
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1.2068 postgresql-hll 2.15.1-1.pgdg100+1

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src/heapsort.c
src/merge.c
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src/radixsort.c
src/setmode.c
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man/flopen.3
man/getpeereid.3
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src/expand_number.c
src/hash/sha512.h
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man/strtonum.3
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src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
man/strnstr.3
man/unvis.3
man/vis.3
man/wcslepy.3
src/getbsize.c
src/heapsort.c
src/merge.c
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src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
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1.2076 @babel/highlight 7.18.6

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2.module_el8.0.0+39+6a9b6e22

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1.2081 kingpin 2.2.6

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1.2083 dbus-python 1.2.4

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1.2092 commons-jxpath 1.3

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support.
that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.
Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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@appendixsubsec Preamble

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and:

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1.2103 is-accessor-descriptor 0.1.6

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1.2106 pflag 0.0.0-20151013200643-08b1a584251b

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1.2107 @babel/plugin-syntax-json-strings

7.8.3

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintau痴mann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(??)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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DRuntime: Runtime Library for the D Programming Language

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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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bzlib/libbzip2 version 1.0.6 of 6 September 2010

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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble
========

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

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* /opt/cola/permits/1269695498_1644574643.25/0/classgraph-4-8-117-sources-jar/io/github/classgraph/ScanResultObject.java
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* /opt/cola/permits/1269695498_1644574643.25/0/classgraph-4-8-117-sources-jar/io/github/classgraph/ClassRefOrTypeVariableSignature.java
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* /opt/cola/permits/1269695498_1644574643.25/0/classgraph-4-8-117-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/WebsphereTraditionalClassLoaderHandler.java
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* Hosted at: https://github.com/classgraph/classgraph
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Found in path(s):
* /opt/cola/permits/1151704994_1617966428.25/0/jetty-io-7-6-13-v20130916-sources-1-jar/about.html

* /opt/cola/permits/1151704994_1617966428.25/0/jetty-io-7-6-13-v20130916-sources-1-jar/org/eclipse/jetty/io/bio/StreamEndPoint.java
* /opt/cola/permits/1151704994_1617966428.25/0/jetty-io-7-6-13-v20130916-sources-1-jar/org/eclipse/jetty/io/ByteArrayBuffer.java
* /opt/cola/permits/1151704994_1617966428.25/0/jetty-io-7-6-13-v20130916-sources-1-jar/org/eclipse/jetty/io/AsyncEndPoint.java
* /opt/cola/permits/1151704994_1617966428.25/0/jetty-io-7-6-13-v20130916-sources-1-jar/org/eclipse/jetty/io/UncheckedPrintWriter.java
* /opt/cola/permits/1151704994_1617966428.25/0/jetty-io-7-6-13-v20130916-sources-1-jar/org/eclipse/jetty/io/SimpleBuffers.java
* /opt/cola/permits/1151704994_1617966428.25/0/jetty-io-7-6-13-v20130916-sources-1-jar/org/eclipse/jetty/io/SelectChannelEndPoint.java
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1.2153 mime-support 3.60

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* /opt/cola/permits/1266388583_1644245383.46/0/netty-example-4-1-71-final-jar/META-INF/maven/io.netty/netty-example/pom.xml
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Manifest-Version: 1.0
Implementation-Title: Netty/Example
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name:
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.example
Implementation-Version: 4.1.71.Final
Built-By: root
Bnd-LastModified: 1639059112249
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.barchart.udt;version="[2.3,3)";com.google.protobuf
;version="[2.6,3)";io.netty.bootstrap;version="[4.1,5)";io.netty.buffer
;version="[4.1,5)";io.netty.channel;version="[4.1,5)";io.netty.chan

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1.2164 libgpg-error 1.45-r0

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dist/ExtUtils-Command/*
dist/ExtUtils-Manifest/*
dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
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MySQL 8.0

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Version 3.1, 31 March 2009

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libssh v0.7.3

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Alexander Melnikov <alm@sibmail.ru>
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  * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead.
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* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
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* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris.
Andrew Paprocki <andrew@ishiboo.com>

* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

/* Written in 2016 by David Blackman and Sebastiano Vigna (vigna@acm.org) */

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1.2176 mysql-jdbc 8.0.18

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MySQL Connector/J 8.0

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In other cases, permission to use a particular library in non-free
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.2193 kerberos 1.15 1+deb9u1

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
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lib/libgss/g_sign.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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```bash
src/lib/gssapi
```

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lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
and the initial implementation of incremental propagation, including the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/krb5/error_tables.krb5.err`
- `kprop/kpropd_rpc.c`
- `kprop/kproplog.c`

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi` include the following files:

```
.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
```
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/prop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/krb5_err.et
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line
# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with '/*- ' and we don’t want to change them.
        if line != '' and line != '- ':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]*)( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Check filename comment if present.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\^\*|^\*\^\*|[^\*]+\^\*\^\*|\*[^\*]+\^\*\^\*, ', '', line)
        line = line.strip()
        if not in_comment and '/\* ' in line:
            (line, sep, comment_part) = line.partition('/\*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
in_comment = True
elif in_comment and "*/" not in line:
    comment.append(line.lstrip("*").lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition("*/")
    comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at, code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() !="":
    code_seen = True

ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./ '):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
.. _mitK5license:

MIT Kerberos License information
================================

.. toctree::
   :hidden:
   :hidden:

   copyright.rst

.. include:: notice.rst

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==========

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/* .*-mode: c; c-basic-offset: 4; indent-tabs-mode: nil .*- */
/* */

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1.2194 go 1.15.3

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1.2202 delayed-stream 1.0.0

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package types

import "time"

// FeatureType store features types
type FeatureType string

const (
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
    DEV = FeatureType("DEV")
    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID string `json:"arrayUUID,omitempty"
    ClusterID string `json:"clusterID,omitempty"
    CustomerID string `json:"customerID"
    CustomerName string `json:"customerName"
    Storage int `json:"storage"
    ValidUntil time.Time `json:"validUntil"
    LicenceType string `json:"licenceType"
    Features map[FeatureType]bool `json:"features"
    Unregistered bool `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key

type LicenceKeyContainer struct {
    Key string `json:"key"
}

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//
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type License struct {
  Name string `json:"name, omitempty"`
  URL  string `json:"url, omitempty"`
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored    = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed    = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses
)

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{% endpanel %}

{% panel style="info", title="TL;DR" %}
- Copy files to and from Containers in a cluster
{% endpanel %}

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

### Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

### Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
## Namespaces

Set the Pod namespace by prefixing the Pod name with `"<namespace>"`.

- `"<pod-namespace>/<pod-name>:<path>"`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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package storageos

ingo:

import (  
    "encoding/json"
    
    "github.com/storageos/go-api/types"
)

const (  
    // licenceAPIPrefix is a partial path to the HTTP endpoint.  
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.  
func (c *Client) Licence() (*types.Licence, error) {  
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})  
    if err != nil {  
        return nil, err  
    }  
    defer resp.Body.Close()  
    licence := &types.Licence{}  
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {  
        return nil, err  
    }  
    return licence, nil  
}
// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
    _, err := c.do("POST", licenceAPIPrefix, doOptions{
data: &types.LicenceKeyContainer{Key: licenceKey},
    })
    return err
}

// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

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tomb - support for clean goroutine termination in Go.

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package simulator

import {
  "github.com/vmware/govmomi/object"
  "github.com/vmware/govmomi/vim25/methods"
  "github.com/vmware/govmomi/vim25/mo"
  "github.com/vmware/govmomi/vim25/soap"
  "github.com/vmware/govmomi/vim25/types"
}

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
  LicenseKey: "00000-00000-00000-00000-00000",
  EditionKey: "eval",
  Name: "Evaluation Mode",
  Properties: []types.KeyAnyValue{
    {
      Key: "feature",
      Value: types.KeyValue{
        Key: "serialuri:2",
        Value: "Remote virtual Serial Port Concentrator",
      },
    },
    {
      Key: "feature",
      Value: types.KeyValue{
        Key: "dvs",
        Value: "vSphere Distributed Switch",
      },
    },
  }
}
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{ }
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:,...])
        }
    }
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody {
        for i := range m.Licenses {
            license := &m.Licenses[i]

            if req.LicenseKey != license.LicenseKey {
                continue
            }

            body.Res = new(types.UpdateLicenseLabelResponse)

            for j := range license.Labels {
                label := &license.Labels[j]

                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                    } else {
                        label.Value = req.LabelValue
                    }
                    return body
                }

                license.Labels = append(license.Labels, types.KeyValue {
                    Key:  req.LabelKey,
                    Value: req.LabelValue,
                })

                return body
            }

            body.Fault_ = Fault("", &types.InvalidArgument { InvalidProperty: "licenseKey"})
            return body
        }
    }
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
    if req.EntityId != Map.content().About.InstanceUuid {
        id := types.ManagedObjectReference {
            Type: "HostSystem",
            Value: req.EntityId,
        }

        if Map.Get(id) == nil {
            return body
        }
    }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment {
    {
        EntityId: req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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=tomb - support for clean goroutine termination in Go.

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>
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1.2209 jul-to-slf4j 2.0.0-alpha1

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 */

Found in path(s):
* /opt/cola/permits/1151381247_1617875212.14/0/jul-to-slf4j-2-0-0-alpha1-sources-2-
jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.2210 release-images-build-go-runner

v2.290.0
1.2210.1 Available under license:
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1.2211 retry 0.12.0

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1.2212 slice-ansi 0.0.4
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1.2213 selinux 2.9-5.el8
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## <summary>Polaris dbgd Policy Rules.</summary>

#######################################
## <summary>
##      Write dbgd /var/run socket file
## </summary>
## <param name="domain">

---

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## <summary>Domain allowed access. </summary>

```
interface(`polaris_dbgd_var_sock_write',
    gen_require(`
        type polaris_dbgd_t;
        type polaris_dbgd_var_run_t;
        type var_run_t;
    `)
    write_sock_files_pattern($1, var_run_t, polaris_dbgd_var_run_t)
    allow $1 polaris_dbgd_t:unix_stream_socket { connectto };
)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.if

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## <summary>Polaris cpp_stats Policy Rules.</summary>

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppstats.if

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# Map GNSS TTY to correct device context
/dev/ttyS1 -c gen_context(system_u:object_r:polaris_cabo_gnss_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.fc

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#
# March 2017, Victor Kamensky
policy_module(polarisnginx, 1.0);

gen_require('  
    type polaris_nginx_t;
')

polaris_btrace_data_manage(polaris_nginx_t)
polaris_chasfs_manage(polaris_nginx_t)
polaris_tldresolve_read(polaris_nginx_t)
polaris_tlddb_list_dirs(polaris_nginx_t)
polaris_cpld_read(polaris_nginx_t)
polaris_lua_read(polaris_nginx_t)
polaris_flashlib_read(polaris_nginx_t)
polaris_crft_data_manage(polaris_nginx_t)
polaris_ripc_sman_ui_serv_connect(polaris_nginx_t)
polaris_lua_read(polaris_nginx_t)
polaris_disk_harddisk_read_lnk(polaris_nginx_t)

allow polaris_nginx_t self:tcp_socket { bind create listen accept setopt getopt shutdown};
allow polaris_nginx_t self:capability2 block_suspend;
allow polaris_nginx_t self:capability { setgid setuid sys_resource };

polaris_lfts_dev_use(polaris_nginx_t)
logging_send_syslog_msg(polaris_nginx_t)
corenets_tcp_connect_http_port(polaris_nginx_t)
corenets_tcp_bind_generic_node(polaris_nginx_t)
corenets_tcp_bind_http_port(polaris_nginx_t)
corenets_tcp_connect_pkiserver_port(polaris_nginx_t)
# FIXME: add interface to allow bind to port 1025-65535
corenets_tcp_bind_all_ports(polaris_nginx_t)
# Allow the nginx to search/read the web servers config files
apache_read_config(polaris_nginx_t)
apache_search_config(polaris_nginx_t)
# allow read httpd_sys_content_t (/var/www/...)
apache_read_sys_content(polaris_nginx_t)

gen_require('  
    type httpd_var_run_t;
    type syslogd_var_run_t;
')
setattr_dirs_pattern(polaris/nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris/nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_files_pattern(polaris/nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_sock_files_pattern(polaris/nginx_t, httpd_var_run_t, httpd_var_run_t)
files_pid_filetrans(polaris/nginx_t, httpd_var_run_t, { file sock_file dir unix_stream_socket })

polaris_socketat_nsfs_read(polaris/nginx_t)
# socketat does setsockopt SO_VRF
allow polaris.nginx_t self:capability net_admin;
auth_use_nsswitch(polaris/nginx_t)

allow polaris.nginx_t tmp_t:dir create_dir_perms;
files_tmp_filetrans(polaris/nginx_t, httpd_log_t, file, "ngx_access.log")
files_tmp_filetrans(polaris/nginx_t, httpd_log_t, file, "ngx_error.log")
files_tmp_filetrans(polaris/nginx_t, httpd_log_t, file, "nginx.pid")
files_tmp_filetrans(polaris/nginx_t, httpd_log_t, file, "nginx.lock.accept")
files_tmp_filetrans(polaris/nginx_t, httpd_log_t, file, "nginx.lock.cookie_tbl")
files_tmp_filetrans(polaris/nginx_t, httpd_log_t, file, "nginx.lock.login_count")
filetrans_pattern(polaris/nginx_t, syslogd_var_run_t, httpd_log_t, file, "openresty.log")
filetrans_pattern(polaris/nginx_t, syslogd_var_run_t, httpd_log_t, file, "ngxcsrf.log")
filetrans_pattern(polaris/nginx_t, syslogd_var_run_t, httpd_log_t, file, "ngxtest.log")
create_dirs_pattern(polaris/nginx_t, httpd_log_t, httpd_log_t)
manage_files_pattern(polaris/nginx_t, httpd_log_t, httpd_log_t)
apache_read_log(polaris/nginx_t)
apache_write_log(polaris/nginx_t)

polaris_restconf_tmp_use(polaris/nginx_t)
dev_read_sysfs(polaris/nginx_t)

# dev/zram0 needs fs_t:filesystem getattr
ifdef(`quake_platform',`
fs_getattr_xattr_fs(polaris/nginx_t)
')

type polaris.nginx_tmp_t;
files_tmp_file(polaris.nginx_tmp_t)
manage_files_pattern(polaris.nginx_tmp_t, polaris.nginx_tmp_t, polaris.nginx_tmp_t)
manage_dirs_pattern(polaris.nginx_tmp_t, polaris.nginx_tmp_t, polaris.nginx_tmp_t)
files_tmp_filetrans(polaris.nginx_tmp_t, polaris.nginx_tmp_t, file, "nginx_aaa")
files_tmp_filetrans(polaris.nginx_tmp_t, polaris.nginx_tmp_t, file, "nginx_master")
files_tmp_filetrans(polaris.nginx_tmp_t, polaris.nginx_tmp_t, file, "nginx_session")
files_tmp_filetrans(polaris.nginx_tmp_t, polaris.nginx_tmp_t, file, "ciscosdwan.cfg")
files_tmp_filetrans(polaris.nginx_tmp_t, polaris.nginx_tmp_t, dir, "proxy_temp")
files_tmp_filetrans(polaris.nginx_tmp_t, polaris.nginx_tmp_t, dir, "client_temp")
files_tmp_filetrans(polaris.nginx_tmp_t, polaris.nginx_tmp_t, dir, "fastcgi_temp")
files_tmp_filetrans(polaris.nginx_tmp_t, polaris.nginx_tmp_t, dir, "scgi_temp")
files_tmp_filetrans(polaris.nginx_tmp_t, polaris.nginx_tmp_t, dir, "uwsgi_temp")
files_tmp_filetrans(polaris.nginx_tmp_t, polaris.nginx_tmp_t, dir, "pki")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "auth")

polaris_restconf_read(polaris_nginx_t)

#############################################################################
# webui_helper.sh/webui_helper_upgrade.sh
#############################################################################
polaris_process_domain_template(nginx_webui)
polaris_process_domain_template(nginx_webui_install)

polaris_nginx_exec_domain(polaris_nginx_webui_t, polaris_nginx_webui_exec_t)
polaris_nginx_exec_domain(polaris_nginx_webui_install_t, polaris_nginx_webui_install_exec_t)

corecmd_exec_bin(polaris_nginx_webui_t)
corecmd_exec_bin(polaris_nginx_webui_install_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_nginx_webui_t)
auth_use_nsswitch(polaris_nginx_webui_install_t)

#allow polaris_nginx_webui_t/polaris_nginx_webui_install_t access to nginx webui /tmp base folder
# /tmp/nginx/webui_tmp
manage_files_pattern(polaris_nginx_webui_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_files_pattern(polaris_nginx_webui_install_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)

#allow polaris_file_transfer_client_t to access nginx webui /tmp base folder
# /tmp/nginx/webui_tmp. We also need to allow chvrf to use the FIFO in cases
# where we use the VRF interface
gen_require("
    type polaris_file_transfer_client_t;
    type polaris_chvrf_t;
"
)
manage_files_pattern(polaris_file_transfer_client_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_fifo_files_pattern(polaris_file_transfer_client_t, polaris_nginx_t, polaris_nginx_t)
manage_fifo_files_pattern(polaris_chvrf_t, polaris_nginx_t, polaris_nginx_t)

#fts_client binary requires access to chassis, tdlresolve and cpld
polaris_tdlresolve_read(polaris_file_transfer_client_t)
polaris_chasfs_manage(polaris_file_transfer_client_t)
polaris_cpld_read(polaris_file_transfer_client_t, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)

gen_require("
    type polaris_file_transfer_client_exec_t;
"
)polaris_bexecute_domain(polaris_file_transfer_client_t, polaris_file_transfer_client_exec_t)

type polaris_fts_client_tmp_t;
files_tmp_file(polaris_fts_client_tmp_t)
polaris_fts_client_tmp_manage(polaris_file_transfer_client_t)

# on ultra /var/www directory created by systemd unit that runs /mount_packages.sh
# under unconfined_service_t domain
gen_require(
    type unconfined_service_t;
')
files_var_filetrans(unconfined_service_t, httpd_sys_content_t, dir, "www")

allow polaris_nginx_t self:capability dac_override;

# iox local mgr in webui connects to caf service on port 8098
corenets_connect_polaris_caf_api_port(polaris_nginx_t)

# IOx downloads the application package using network protocol (e.g http)
gen_require(
    type fifo_var_run_t;
')
allow polaris_file_transfer_client_t fifo_var_run_t:fifo_file read;

# webui connects to dbm backend service on port 9090
corenets_connect_polaris_wnc_mgrd_port(polaris_nginx_t)

# webui connects to poljvm service on port 9093
corenets_connect_polaris_poljvm_websocket_port(polaris_nginx_t)

# remote docker workflow
corenets_connect_us_cli_port(polaris_nginx_t)

# webui sw mgmt app which does install and smu, invokes webui helper shell
# scripts which inturn invoke installer scripts. Hence need to provide transition
# rule to polaris_install_engine_t domain
polaris_install_engine_domtrans(polaris_nginx_webui_install_t)
polaris_install_show_domtrans(polaris_nginx_webui_install_t)

# Allow pipe operations during install command invocation
polaris_nginx_manage_fifo_files(polaris_bexecute_t)
polaris_nginx_manage_fifo_files(polaris_code_verify_t)
polaris_nginx_manage_fifo_files(polaris_install_engine_t)
polaris_nginx_manage_fifo_files(polaris_install_show_t)
polaris_nginx_manage_fifo_files(rsync_t)

# During install-add via WebUI, code_sign_verify generates a file:map denial
# /usr/bin/code_sign_verify package
# /tmp/patch/smus/10_vwlce_apsp_ap3g3_17.6.bin/mount/C9800-CL-mono-patch.2021-01-11_11.31_radonep
require {
    type etc_runtime_t;
allow polaris_code_verify_t etc_runtime_t:file map;

# Provide sys_resource capability to webui install scripts for sys_pipe calls.
allow polaris_nginx_webui_install_t self:capability sys_resource;

# nginx/webui File-manager app provides bootflash file-mgmt facility.
# as part of this it needs RW access to bootflash.
# TODO: Bug CSCvp83328 to isolate the access to another utility, which
# can have its own domain and nginx_t can transition to it.
polaris_bootflash_manage(polaris_nginx_t)

# allow nginx to manage core files
polaris_core_file_manage(polaris_nginx_t)

# luajit module for nginx triggers execmem denial due to mprotect call.
# TODO: cdets CSCvp70095 is used to track this vulnerability in
# current nginx component.
allow polaris_nginx_t self:process execmem;

# FIXME : allow shell/binary execution
# Elevated privilege needs to be addressed
# Tracked by Bugid : CSCvp93448
corecmd_exec_bin(polaris_nginx_t)
corecmd_exec_shell(polaris_nginx_t)

#FIXME
# Need to re-evaluate these privileges
#Tracked by Bugid : CSCvp92908, CSCvt81963(fts_client)
polaris_file_transfer_client_domtrans(polaris_nginx_webui_install_t)

# nginx need access btrace fifo file:
polaris_use_btrace_fifo(polaris_nginx_t)
gen_require(`
    type proc_t;
`)
manage_files_pattern(polaris_nginx_t, polaris_nginx_t,polaris_nginx_t)
allow polaris_nginx_t proc_t:filesystem { associate };
# nginx needs access to /dev/stdout which is owned by pman
allow polaris_nginx_t polaris_pman_t:fifo_file open;

############################################################################
# aireos_translate_helper.sh
# Invokes a python library that converts aireos config to ewlc config.
############################################################################
type polaris_aireos_translator_scripts_t;
files_type(polaris_aireos_translator_scripts_t)
polaris_process_domain_template(nginx_webui_aireos_translator)
polaris_nginx_exec_domain(polaris_nginx_webui_aireos_translator_t,
polaris_nginx_webui_aireos_translator_exec_t)
allow polaris_nginx_t polaris_aireos_translator_scripts_t:dir { getattr open read search };
allow polaris_nginx_t polaris_aireos_translator_scripts_t:file { getattr ioctl open read };
allow polaris_nginx_t polaris_nginx_webui_aireos_translator_exec_t:file ioctl;
allow polaris_nginx_t self:process setfscreate;
files_list_var(polaris_nginx_t)

#########################################################
# ra_trace_webui_helper.sh
# Invokes mcp_trace_filter.sh to perform radio active tracing.
#########################################################
polaris_process_domain_template(nginx_webui_trace_filter)
polaris_nginx_exec_domain(polaris_nginx_webui_trace_filter_t, polaris_nginx_webui_trace_filter_exec_t)
corecmd_exec_bin(polaris_nginx_webui_trace_filter_t)
manage_files_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_dirs_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
auth_use_nsswitch(polaris_nginx_webui_trace_filter_t)
polaris_trace_filter_domtrans(polaris_nginx_webui_trace_filter_t)
polaris_nginx_manage_fifo_files(polaris_trace_filter_t)

#########################################################
# nginx_helper.sh
# nginx show command helper run by pman invoking curl
#########################################################
polaris_utility_domain_template(nginx_helper)
polaris_pman_entry(polaris_nginx_helper_t, polaris_nginx_helper_exec_t)

#allow execution of nginx_helper.sh
corecmd_exec_bin(polaris_nginx_helper_t)

#allow read of /etc/passwd
auth_use_nsswitch(polaris_nginx_helper_t)

#allow access to the tmp fifo file
polaris_use_btrace_fifo(polaris_nginx_helper_t)

# nginx_helper.sh reads from chasfs
polaris_chasfs_manage(polaris_nginx_helper_t)

gen_require(
    type polaris_curl_t;
)

# allow execution of /usr/bin/curl on the pkiserver port
polaris_curl_domtrans(polaris_nginx_helper_t)
corenet_tcp_connect_pkiserver_port(polaris_curl_t)
#allow curl to write into chasfs
polaris_chasfs_manage(polaris_curl_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.te
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#

## <summary>Polaris cpp_cdm Policy Rules.</summary>

### <summary>Allow access to semaphore with type polaris_cpp_cdm_t</summary>
### <param name="domain">
### Domain allowed access.
### </summary>

interface(`polaris_cpp_cdm_sem_use',`
    gen_require(`
        type polaris_cpp_cdm_t;
    `)
    allow $1 polaris_cpp_cdm_t:sem rw_sem_perms;
`)

### <summary>Allow access to shared memory with type polaris_cpp_cdm_t</summary>
### <param name="domain">
### Domain allowed access.
### </summary>

interface(`polaris_cpp_cdm_shm_use',`
    gen_require(`
        type polaris_cpp_cdm_t;
    `)
    allow $1 polaris_cpp_cdm_t:shm rw_shm_perms;
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#

### <summary>Polaris dmi_ndbmand Policy Rules.</summary>

############################
## <summary>
##      Work with NDBLOAD_LOCK_PATH.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface(`polaris_ndbload_lock_use`,
    gen_require(
        type polaris_dmi_ndbutil_lock_t;
        type tmp_t;
    )
    manage_files_pattern($1, tmp_t, polaris_dmi_ndbutil_lock_t)
    files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-load")
    files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-use")
)

############################
## <summary>
##      Manage polaris_ndbmand_ndbutil_t files
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface(`polaris_ndbmand_ndbutil_manage`,
    gen_require(
        type polaris_ndbmand_ndbutil_t;
        type tmp_t;
    )
    manage_files_pattern($1, tmp_t, polaris_dmi_ndbutil_lock_t)
    files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-load")
    files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-use")
)
type polaris_confd_ndbutil_lock_t;
  )
manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_ndbmand_ndbutil_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.if
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#
#
## <summary>Polaris sif_mgr Policy Rules.</summary>

########################################
## <summary>
##      Allow the specified domain able to read sif_mgr /tmp files.
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="object">
##      <summary>
##      File name in /tmp that the sif_mgr domain creates and other domains
##      access.
##      </summary>
## </param>
#
interface('polaris_sif_mgr_tmp_files_read',
    gen_require(
        type polaris_sif_mgr_tmp_t;
    ')
read_files_pattern($1, polaris_sif_mgr_tmp_t, polaris_sif_mgr_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.if
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#  
# March 2017, Victor Kamensky
## <summary>Polaris Chasfs Policy Rules.</summary>

# Chasfs policy

### <summary>Manage chasfs files</summary>

### <param name="domain">

Domain allowed access.

### </summary>

#rolebase/

interface('polaris_chasfs_manage',
  gen_require(
    type polaris_chasfs_t;
  )
  manage_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_link_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_fifo_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_sock_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)

  allow $1 polaris_chasfs_t:{file dir} watch;

  # chasfs contains a lot of weird permission files
  allow $1 self:capability dac_read_search;
)

### <summary>Read chasfs files</summary>

### <param name="domain">

Domain allowed access.

### </summary>

#rolebase/
# interface('polaris_chasfs_read',

```
gen_require('type polaris_chasfs_t;
')
```

```
list_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
read_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
read_lnk_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
read_fifo_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
read_sock_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
```

allow $1 polaris_chasfs_t:{file dir} watch;

```
# chasfs contains a lot of weird permission files
allow $1 self:capability dac_read_search;
```

```
#######################################
## <summary>
##     Manage chasync file(user_input_custom.xml)
## </summary>
## <param name="domain">
##      <summary>
##      getattr allowed access.
##      </summary>
## </param>
## <rolebase/>
#
```

```
interface('polaris_chasync_files_manage',

gen_require('type polaris_chasync_files_t;
')
```

```
manage_files_pattern($1, polaris_chasync_files_t, polaris_chasync_files_t)
```

```
#######################################
## <summary>
##      Watch read chasfs directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
```

```
interface('polaris_chasfs_watch_read',

gen_require('```
type polaris_chasfs_t;

allow $1 polaris_chasfs_t:dir watch_reads;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.if
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#

/dev/dev_lfts -c gen_context(system_u:object_r:polaris_lfts_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.fc
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## <summary>Polaris GR Manager Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.if
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#
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#

policy_module(polarisngwc, 1.0);

# chdrvmmmap device (MMAP Driver for ASIC Memory mapping)
type polaris_chdrvmmmap_device_t;
dev_node(polaris_chdrvmmmap_device_t)
## gettysburg_fpga device (/dev/gettysburg_dev1)
type polaris_gettysburg_fpga_device_t;
dev_node(polaris_gettysburg_fpga_device_t)

## dplr io memory mapping driver /dev/cisco/dplriomem
type polaris_dplr_iomem_mmapdrv_device_t;
dev_node(polaris_dplr_iomem_mmapdrv_device_t)

## /dev/shm/ngwc_shm shared memory
type polaris_ngwc_shm_t;
files_type(polaris_ngwc_shm_t)

## /dev/shm/ngwc_scc_shm shared memory
type polaris_ngwc_scc_shm_t;
files_type(polaris_ngwc_scc_shm_t)

## /dev/shm/iomd_to_fed_ptp_offload shared memory
type polaris_ngwc_itfpo_t;
files_type(polaris_ngwc_itfpo_t)

## /dev/shm/sdm shared memory
type polaris_sdm_shm_t;
files_type(polaris_sdm_shm_t)

## /dev/shm/i2c Sem00N quake semaphore
type polaris_quake_i2c_t;
files_type(polaris_quake_i2c_t)

## FPGA io memory mapping driver /dev/cisco/fpgaiomem
type polaris_fpga_iomem_mmapfpga_device_t;
dev_node(polaris_fpga_iomem_mmapfpga_device_t)

## Mapping permission for /dev/shm/<name>
ifdef(`quake_platform',`
  gen_require(
    type systemd_tmpfiles_t;
  )
  mmap_files_pattern(systemd_tmpfiles_t, polaris_quake_i2c_t, polaris_quake_i2c_t)
')

## In combined image we have several policies and we choose
## one to use in run-time, but file system is shared and
## labeled with different file_context files, so it is
## possible that we may have some labels that other policy
## does not understand for now just hard missing entries
ifdef(`nyquist_platform',`
  type polaris_cm_cc_exec_t;
  files_type(polaris_cm_cc_exec_t)
')
type polaris_cm_fp_exec_t;
files_type(polaris_cm_fp_exec_t)
type polaris_flashcheck_exec_t;
files_type(polaris_flashcheck_exec_t)
type polaris_emd_exec_t;
files_type(polaris_emd_exec_t)
type polaris_ngwc_isshow_exec_t;
files_type(polaris_ngwc_isshow_exec_t)

# Adding here as this unmount command is specific to Nyquist platform.
#/bin/cat9k_ssd_auth_cmds.sh
polaris_utility_domain_template(ssdUnmount)
corecmd_exec_bin(polaris_ssdUnmount_t)
storage_getattr_fixed_disk_dev(polaris_ssdUnmount_t)
fstools_domtrans(polaris_ssdUnmount_t)
mount_domtrans(polaris_ssdUnmount_t)
polaris_use_btrace_fifo(polaris_ssdUnmount_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_ssdUnmount_t)
polaris_chasfs_read(polaris_ssdUnmount_t)
polaris_cpld_read(polaris_ssdUnmount_t)

#Read /tmp/sw/boot files
polaris_boot_tmp_read(polaris_ssdUnmount_t)
# Allow read to btrace tmp files
polaris_btrace_tmppub_read(polaris_ssdUnmount_t)
# Allow getattr to tmpfs
fs_getattr_tmpfs(polaris_ssdUnmount_t)
# Allow read to ssd auth tmp files /tmp/ssd_blk_device created by udev
polaris_read_ssd_tmp_files(polaris_ssdUnmount_t)

# allow creation/access of temporary files created by bash such as
#/tmp/sh-thd-1499428203 etc
type polaris_ssdUnmount_tmp_t;
files_tmp_file(polaris_ssdUnmount_tmp_t)
files_tmp_filetrans(polaris_ssdUnmount_tmp_t, polaris_ssdUnmount_tmp_t, file)
manage_files_pattern(polaris_ssdUnmount_tmp_t, polaris_ssdUnmount_tmp_t, file)
allow polaris_ssdUnmount_tmp_t polaris_ssdUnmount_tmp_t:file { unlink };

#Allow nfs dir/file read
rpc_manage_nfs_state_data_dir(polaris_ssdUnmount_t)
rpc_manage_nfs_state_data(polaris_ssdUnmount_t)
#Allow read access to files on nfsd file system
fs_read_nfsd_files(polaris_ssdUnmount_t)
kernl_rw_rpc_syscall(polaris_ssdUnmount_t)
fs_getattr_xattr_fs(polaris_ssdUnmount_t)
# allow create/sendto/connect operations for logger
allow polaris_ssdUnmount_t self:unix_dgram_socket sendto;
allow polaris_ssdUnmount_t self:unix_dgram_socket create_socket_perms;
logging_create_devlog_dev(polaris_ssdUnmount_t)
logging_send_syslog_msg(polaris_ssdUnmount_t)
polaris_persistent_getattr(polaris_ssdUnmount_t)

#allow dir:search getattr read  for udev tmp files
#allow file:write open for udev tmp files
polaris_udev_tmp_manage(polaris_ssdUnmount_t)
gen_require(''
    type rsync_exec_t;
    type rsync_port_t;
')

#allow tcp_socket:name_connect for rsync_port_t
#polaris_ssdUnmount_t has superset privileges of rsync, so its good
#to run rsync in unmount domain. This is not the case everywhere. Please use
#corenet_tcp_connect_rsync_port if rsync needs to be run in its own domain
allow polaris_ssdUnmount_t rsync_port_t:tcp_socket name_connect;

#allow file:getattr exec read open map execute_no_trans for rsync_exec_t
allow polaris_ssdUnmount_t rsync_exec_t:file { execute execute_no_transgetattr map open read };
#allow dir:getattr for removable_t
polaris_getattr removable(polaris_ssdUnmount_t)
')

ifdef('passport_platform','
type polaris_auto_upgrade_server_rp_exec_t;
files_type(polaris_auto_upgrade_server_rp_exec_t)
type polaris_bt_logger_exec_t;
files_type(polaris_bt_logger_exec_t)
type polaris_cmm_exec_t;
files_type(polaris_cmm_exec_t)
type polaris_ngwc_plfm_mgr_exec_t;
files_type(polaris_ngwc_plfm_mgr_exec_t)
type polaris_sif_mgr_exec_t;
files_type(polaris_sif_mgr_exec_t)
type polaris_torch_exec_t;
files_type(polaris_torch_exec_t)
type polaris_xcvr_test_exec_t;
files_type(polaris_xcvr_test_exec_t)
type polaris_faked_exec_t;
files_type(polaris_faked_exec_t)
type polaris_emd_exec_t;
files_type(polaris_emd_exec_t)
type polaris_ngwc_ishow_exec_t;
files_type(polaris_ngwc_ishow_exec_t)
type polaris_gr_mgr_exec_t;
files_type(polaris_gr_mgr_exec_t)
type polaris_ioxss_rp_exec_t;
files_type(polaris_ioxss_rp_exec_t)
ifdef(`starfleet_platform',
    type polaris_xcvr_test_exec_t;
    files_type(polaris_xcvr_test_exec_t)
    type polaris_auto_upgrade_server_rp_exec_t;
    files_type(polaris_auto_upgrade_server_rp_exec_t)
    type polaris_bt_logger_exec_t;
    files_type(polaris_bt_logger_exec_t)
    type polaris_cmm_exec_t;
    files_type(polaris_cmm_exec_t)
    type polaris_ngwc_plfm_mgr_exec_t;
    files_type(polaris_ngwc_plfm_mgr_exec_t)
    type polaris_sif_mgr_exec_t;
    files_type(polaris_sif_mgr_exec_t);
    type polaris_torch_exec_t;
    files_type(polaris_torch_exec_t);
    )

type polaris_disk_ucode0_t;
    files_type(polaris_disk_ucode0_t);

type polaris_nplusm_power_file_t;
    polaris_pfile_type(polaris_nplusm_power_file_t)

    #permission for /ucode0
    optional_policy(
        gen_require(
            type polaris_periodic_t;
            )
        polaris_disk_ucode0_read_lnk(polaris_periodic_t)
        )

Found in path(s):
  */opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.te
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#

### <summary>Polaris cfgmgr Policy Rules.</summary>

# Write cfmgr /var/run socket file
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>

# interface('polaris_cfgmgr_var_sock_write',
    gen_require(' 
        type polaris_cfgmgr_t;
        type polaris_cfgmgr_var_run_t;
        type var_run_t;
    ')
    write_sock_files_pattern($1, var_run_t, polaris_cfgmgr_var_run_t)
    allow $1 polaris_cfgmgr_t:unix_stream_socket { connectto }
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.if
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#
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#

policy_module(polarisstackmgr, 1.0);

    gen_require(' 
        type polaris_stack_mgr_t;
    ')
    polaris_btrace_data_manage(polaris_stack_mgr_t)
polaris_crft_data_manage(polaris_stack_mgr_t)
polaris_chasfs Manage(polaris_stack_mgr_t)
polaris_tdlresolve_read(polaris_stack_mgr_t)
polaris_tdlldb_list_dirs(polaris_stack_mgr_t)
polaris_cpld_read(polaris_stack_mgr_t)
polaris_lua_read(polaris_stack_mgr_t)
polaris_flashlib_read(polaris_stack_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_stack_mgr_t)
polaris_db_tdlldb_dir_use(polaris_stack_mgr_t)

    # allow to send message to /dev/log
    logging_send_syslog_msg(polaris_stack_mgr_t)
allow polaris_stack_mgr_t self:capability { dac_override }

polaris_dyncfg_tmp_read(polaris_stack_mgr_t)

corecmd_exec_bin(polaris_stack_mgr_t)
corecmd_exec_shell(polaris_stack_mgr_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_stack_mgr_t)

# read /proc/cmdline
kernel_read_system_state(polaris_stack_mgr_t)

# open /dev/ttyS0 console in stack_console_write_init
term_use_unallocated_ttys(polaris_stack_mgr_t)

# on ngwc/vwlc FIPS code reads /tmp/hw_entropy
polaris_hw_entropy_use(polaris_stack_mgr_t)

# stackmgr runs mcp_trace_request.sh
polaris_trace_request_domtrans(polaris_stack_mgr_t)

# stack_mgr needs to be able to access /tmp/issu_stk/prst_sync_rld_info_prscd
polaris_issu_stack_tmp_manage(polaris_stack_mgr_t)

# may use mcp_chvrf.sh to access other nodes in system.
# Note that we do not actually need to transition to the chvrf domain, however
# a file descriptor leak can occur and the domain transition permission macro
# expands to allow polaris_chvrf_t to access the fifo
polaris_chvrf_domtrans(polaris_stack_mgr_t)

# Allow read on bootflash to be able to read reload_history
polaris_bootflash_read(polaris_stack_mgr_t)

# stackmgr tmp files
type polaris_stack_mgr_tmp_t;
files_tmp_file(polaris_stack_mgr_tmp_t)
files_tmp_filetrans(polaris_stack_mgr_t, polaris_stack_mgr_tmp_t, file, "ngwc_reload_reason")
manage_files_pattern(polaris_stack_mgr_t, polaris_stack_mgr_tmp_t, polaris_stack_mgr_tmp_t, polaris_stack_mgr_tmp_t)

allow polaris_stack_mgr_t self:capability sys_nice;
allow polaris_stack_mgr_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.te
No license file was found, but licenses were detected in source scan.
# January 2018, Manohar Hungund
#
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#
# polarisoctdplgrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoctdplgrp.fc
No license file was found, but licenses were detected in source scan.

#  
# February 2020, Victor Kamensky
#
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#
### <summary>Polaris cedge_start Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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define(`polaris_mqipc_service_server_aux',`dnl
type $1;
polaris_mqipc_type($1)
polaris_mqipc_$2_create_name($3'))

#define(`polaris_mqipc_service_server',`dnl
polaris_mqipc_service_server_aux(mqipc_label($1), mqipc_stem($1), process_label($2))dnl)

#define(`polaris_mqipc_service_client_aux',`dnl
polaris_mqipc_$2_use($3'))

#define(`polaris_mqipc_service_client',`dnl
polaris_mqipc_service_client_aux(mqipc_label($1), mqipc_stem($1), process_label($2))dnl)
define('polaris_mqipc_service_server_elastic_client',"

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_te.m4
No license file was found, but licenses were detected in source scan.

# # March 2017. Victor Kamensky # # Copyright (c) 2016-2020 by Cisco Systems, Inc. # # All rights reserved #

### <summary>Polaris polarisqfp Policy Rules.</summary>

########################################################################
### <summary>
###    Work (read, write, ioctl) with /dev/netmap device
### </summary>
### <param name="domain">
###    Domain allowed access.
### </param>
#
interface('polaris_netmap_dev_use',
    gen_require(
        type device_t;
        type polaris_netmap_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_netmap_device_t)
    read_chr_files_pattern($1, device_t, polaris_netmap_device_t)
    allow $1 polaris_netmap_device_tchr_file map;
')

########################################################################
### <summary>
###    Work (read, write, ioctl) with /dev/svc_eng_puntNN devices
### </summary>
### <param name="domain">
###    Domain allowed access.
### </param>
#
interface('polaris_svc_eng_punt_dev_use',
    gen_require(
        type device_t;
type polaris_sep_device_t;
)
write_chr_files_pattern($1, device_t, polaris_sep_device_t)
read_chr_files_pattern($1, device_t, polaris_sep_device_t)
)

#################################################################
## <summary>
##  Allow access to semaphore with type polaris_qfp_t
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
## </param>
#
interface('polaris_qfp_sem_use',
    gen_require(
        type polaris_qfp_t;
    )
    allow $1 polaris_qfp_t:sem rw_sem_perms;
    )

#################################################################
## Send messages to qfp unix datagram sockets.
## <summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## <param>
#
interface('polaris_qfp_dgram_send',
    gen_require(
        type polaris_qfp_t;
    )
    allow $1 polaris_qfp_t:unix_dgram_socket sendto;
    )

# CSR & C8KV infiniband devices in Azure
interface('polaris_infiniband_dev_use',
    gen_require(
        type device_t;
        type polaris_infiniband_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_infiniband_device_t)
read_chr_files_pattern($1, device_t, polaris_infiniband_device_t)
allow $1 polaris_infiniband_device_t:chr_file map;
')

##############################################################################
## <summary>
##   Execute iodbd.sh script in the polaris_iodb_t domain.
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed to transition.
##   </summary>
## </param>
#
interface('polaris_iodb_domtrans',`
   gen_require(`
       type polaris_iodb_t, polaris_iodb_exec_t;
   `)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_iodb_exec_t, polaris_iodb_t)
')

##############################################################################
## <summary>
##   Manage files and directories under /tmp/iodb
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
## <rolebase/>
#
interface('polaris_iodb_tmp_manage',`
   gen_require(`
       type polaris_iodb_tmp_t;
   `)

manage_files_pattern($1, polaris_iodb_tmp_t,polaris_iodb_tmp_t)
manage_dirs_pattern($1, polaris_iodb_tmp_t, polaris_iodb_tmp_t)

fs_getattr_tmpfs($1)
')

##############################################################################
## <summary>
##   Manage files and directories under /tmp/memif
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## <param>
## <rolebase/>
#
# interface('polaris_qfp_memif_manage',
  gen_require(
    type polaris_qfp_memif_t;
  )
  manage_files_pattern($1, polaris_qfp_memif_t, polaris_qfp_memif_t)
  manage_sock_files_pattern($1, polaris_qfp_memif_t, polaris_qfp_memif_t)
  gen_require(
    type tmp_t;
  )
  manage_dirs_pattern($1, { tmp_t polaris_qfp_memif_t }, polaris_qfp_memif_t)
  allow $1 polaris_qfp_memif_t:file map;
')

#<summary>
# polaris_qfp_log_manage
#<summary>
# <param name="filename">
# Name of the file being managed.
# </summary>
# <param>
# <rolebase/>
#
# interface('polaris_qfp_log_manage',
  type polaris_qfp_var_log_t;
  logging_log_file(polaris_qfp_var_log_t)
  logging_log_filetrans(polaris_qfp_t, polaris_qfp_var_log_t, file, $1)
  manage_files_pattern(polaris_qfp_t, var_log_t, polaris_qfp_var_log_t)
')

#<summary>
# Work (read, write, ioctl) with /dev/icp_adf_ctl and
# /dev/icp_dev_mem devices
#<summary>
# <param name="domain">
# Domain allowed access.
# </summary>
## </param>
#
interface('polaris_icp_dev_use',
gen_require('  
type device_t;
type polaris_icp_device_t;
')
  write_chr_files_pattern($1, device_t, polaris_icp_device_t)
  read_chr_files_pattern($1, device_t, polaris_icp_device_t)
  allow $1 polaris_icp_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.if
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#
# March 2017, Victor Kamensky
#
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#
/usr/binos/bin/.*linux_iosd.*ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)
/usr/binos/bin/mcpcc-lc-ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)
/tmp/boottime                          gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/boottooled                       gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/restconf(/.*)?                    gen_context(system_u:object_r:polaris_restconf_tmp_t,s0)
/tmp/netio0(/.*)?                      gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/nginx.conf                        gen_context(system_u:object_r:httpd_config_t,s0)
/bootflash/.geo(/.*)?                  gen_context(system_u:object_r:polaris_geodb_files_t,s0)
/harddisk/.geo(/.*)?                   gen_context(system_u:object_r:polaris_geodb_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisisosd.fc
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris cli_agent Policy Rules.</summary>
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

# polarisrogued file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.fc
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#
# July 2017, Victor Kamensky
#
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#

## <summary>Polaris MCP Platform Policy Rules.</summary>

################################################
## <summary>
##      Work (read, write, ioctl) with /dev/scooby
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_scooby_dev_use',`
  gen_require(`
    type device_t;
    type polaris_scooby_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_scooby_device_t)
  read_chr_files_pattern($1, device_t, polaris_scooby_device_t)
`)

################################################
## <summary>
## Work (read, write, ioctl) with /dev/spa[0123]

```c
interface('polaris_spa_dev_use',
    type device_t;
    type polaris_spa_device_t;
)
write_chr_files_pattern($1, device_t, polaris_spa_device_t)
read_chr_files_pattern($1, device_t, polaris_spa_device_t)
allow $1 polaris_spa_device_t:chr_file map;
```

## Work (read, write, ioctl) with /dev/htdp[0-9]*

```c
interface('polaris_htdp_dev_use',
    type device_t;
    type polaris_htdp_device_t;
)
write_chr_files_pattern($1, device_t, polaris_htdp_device_t)
read_chr_files_pattern($1, device_t, polaris_htdp_device_t)
```

## Work (read, write, ioctl) with /sys/devices/virtual/sys_platform

```c
interface('polaris_sysfs_platform_dev_use',
    type device_t;
    type polaris_sysfs_device_t;
)
write_chr_files_pattern($1, device_t, polaris_sysfs_device_t)
read_chr_files_pattern($1, device_t, polaris_sysfs_device_t)
```
gen_require(
    type polaris_sysfs_platform_t;
    )
    manage_files_pattern($1, polaris_sysfs_platform_t, polaris_sysfs_platform_t)
    )

####################################################
## <summary>
## Work (read, write, ioctl) with /dev/ds31408
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_ds31408_dev_use',`
    gen_require(
        type device_t;
        type polaris_ds31408_device_t;
    )
    rw_chr_files_pattern($1, device_t, polaris_ds31408_device_t)
    )

####################################################
## <summary>
## Allow access to /dev/cbdma
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_cbdma_dev_use',`
    gen_require(
        type device_t;
        type polaris_cbdma_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_cbdma_device_t)
    read_chr_files_pattern($1, device_t, polaris_cbdma_device_t)
    allow $1 polaris_cbdma_device_t:chr_file map;
    )

####################################################
## <summary>
## Allow access to /dev/cpp_htdp
## </summary>
## <param name="domain">


### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_cpp_htdp_dev_use',`
  gen_require('  
    type polaris_cpp_htdp_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_cpp_htdp_device_t)
  read_chr_files_pattern($1, device_t, polaris_cpp_htdp_device_t)
  allow $1 polaris_cpp_htdp_device_t:chr_file map;
' )

########################################################################
### <summary>
### Allow access to /dev/n2_device
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_n2_dev_use',`
  gen_require('  
    type device_t;
    type polaris_n2_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_n2_device_t)
  read_chr_files_pattern($1, device_t, polaris_n2_device_t)
' )

########################################################################
### <summary>
### Allow access to /dev/cy2213
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_cy2213_dev_use',`
  gen_require('  
    type device_t;
    type polaris_cy2213_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
  read_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
' )
write_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
read_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
')

########################################
## <summary>
##      Allow access to /dev/vega
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_vega_dev_use',
  gen_require(
    type device_t;
    type polaris_vega_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_vega_device_t)
  read_chr_files_pattern($1, device_t, polaris_vega_device_t)
')

########################################
## <summary>
##      Work (read, write, ioctl) with /dev/dash_fpga device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_dash_dev_mcp_use',
  gen_require(
    type device_t;
    type polaris_dash_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_dash_device_t)
  read_chr_files_pattern($1, device_t, polaris_dash_device_t)
  allow $1 polaris_dash_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.if
No license file was found, but licenses were detected in source scan.

dnl
Crankshaft (Overlord, Utah and Fugazi) Platform Max Bay Limits

max_bay_map_set(`rp', `per_bay', 3)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 3)

max_bay_ripc_map_set(`rp', `per_bay', 3)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 3)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/mcpmaps.m4
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# March 2017, Victor Kamensky
#
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#

policy_module(polarisiosd, 1.0);

gen_require(
    type polaris-iosd_t;
')

# mqipc manual, one that missing in platform tdl file

 ifdef(`nyquist_platform',
    gen_require(
        type polaris_bt_logger_iosd_mqipc_t;
    )
    # iosd may start first and create this mqipc channel
    polaris_mqipc_create_name(polaris_iosd_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)
')

polaris_btrace_data_manage_all(polaris_iosd_t)
polaris_chasfs_manage(polaris_iosd_t)
polaris_tdlresolve_read(polaris_iosd_t)
polaris_tldldb_list_dirs(polaris_iosd_t)
polaris CPLD_read(polaris_iosd_t)
polaris_lua_read(polaris_iosd_t)
polaris_flashlib_read(polaris_iosd_t)
polaris_crfst_data_manage_all(polaris_iosd_t)
optional_policy(" 
polaris_gnmib_gnoi_images_manage(polaris_iosd_t) ")
polaris_ripc_sman_ui_serv_connect(polaris_iosd_t)

polaris_db_tdlbd_dir_use(polaris_iosd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_iosd_t)

# allow iosd read/write via hostname <>
systemd_hostnamed_manage_config(polaris_iosd_t)

# creates /etc/et/1/resolv.conf via ip domain-name <> command
# creates /etc/et/vrf.VRFNAME via ip vfr VRFNAME command
# creates /etc/et/vrf.VRFNAME/resolv.conf via ip
# domain-name vrf VRFNAME <> command
gen_require(" 
    type net.conf_t;
")
files_etc_filetrans(polaris_iosd_t, net.conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_iosd_t, net.conf_t, file, "hosts")
files_etc_filetrans(polaris_iosd_t, net.conf_t, dir, "netns")
sysnet_manage_config(polaris_iosd_t)
sysnet_manage_config_dirs(polaris_iosd_t)

# for pluggable FS, allow iosd to access files on them.
polaris_getattr_removable(polaris_iosd_t)
polaris_removable_manage(polaris_iosd_t)
fs_read_removable_symlinks(polaris_iosd_t)

polaris_lsmpi_dev_use(polaris_iosd_t)
polaris_lsmpi_sysctl_read(polaris_iosd_t)
polaris_cfg_data_manage(polaris_iosd_t)
polaris_proc_rmonbifo_read(polaris_iosd_t)
polaris_icc_broken_relocations(polaris_iosd_t)

allow polaris_iosd_t self:capability { sys.nice chown fsetid sys.rawio dac.override dac.read.search ipc.lock };

gen_require(" 
    type httpd.config_t;
    type tmp.t;
")
# iosd creates /tmp/nginx.conf file
manage_files_pattern(polaris_iosd_t, tmp_t, httpd_config_t)
# transition nginx.conf into httpd_config_t
files_tmp_filetrans(polaris_iosd_t, httpd_config_t, file, "nginx.conf")
# RW access to /usr/binos/conf/nginx-conf/servers (utd feature)
manage_dirs_pattern(polaris_iosd_t, httpd_config_t, httpd_config_t)

#iosd create /tmp/nginx/cert/ca.cert
polaris nginx tmp manage(polaris_iosd_t)

# !!!LOOK AT ME!!! - we allow iosd to read raw memory
# dev_read_raw_memory(polaris_iosd_t)

polaris_flashlib_write(polaris_iosd_t)
polaris_nvram_manage(polaris_iosd_t)
polaris_persistent_manage(polaris_iosd_t)

# smu management in iosd (linked in via libbcrdu.so) accesses
# files created by the installer under /tmp/patch
polaris_install_tmp_read(polaris_iosd_t)

optional_policy('polaris_cpp_tmp_ifdev_use(polaris_iosd_t)
')
polaris_dyncfg_tmp_read(polaris_iosd_t)

# lsmpi_fetch_linux_ifindex tries to ioctl(skfd, SIOCGIFINDEX, &ifr) on
# non existent ethN interface, as result kernel triggers attempt to
# load kernel module that would correspond to such interface. Deny
# and don't audit iosd_t attempt to load kernel modules.
# LOOK AT ME: in long term we don't want iosd even try to load modules
# and we would actually would want to report and fail such
kernel_dontaudit_request_load_module(polaris_iosd_t)

# iosd calls nice function to change fast path priority (mcp_fastpath_thread_func)
allow polaris_iosd_t self:process setsched;

ifdef('crankshaft_family',
ifconfig_attach_tun_iface(polaris_iosd_t)
corenets rrw_tun_tap_dev(polaris_iosd_t)
')

ifdef('mcp_family',
ifconfig_attach_tun_iface(polaris_iosd_t)
corenets rrw_tun_tap_dev(polaris_iosd_t)
allow polaris_iosd_t polaris_iosd_t:tun_socket relabelfrom;
# on ultra iosd is figuring out parameters of interfaces of underlying hypervisors kvm, vmware, etc. See vxe_gethd_ifdb_scan
ifdef(`crankshaft_family',`
    dev_rw_sysfs(polaris_iosd_t)
    polaris_disk_objstore_manage(polaris_iosd_t)
')
ifdef(`vxe_family',`
    dev_read_sysfs(polaris_iosd_t)
    polaris_disk_objstore_manage(polaris_iosd_t)
    polaris_objstore_sem_use(polaris_iosd_t)
')
ifdef(`vwlc_platform',`
    polaris_disk_objstore_manage(polaris_iosd_t)
    optional_policy(`
        polaris_vwlc_grub_efi_use(polaris_iosd_t)
    ')
')
ifdef(`wlc_family',`
    dev_read_sysfs(polaris_iosd_t)
    polaris_tlscd_uds_manage(polaris_iosd_t)
    gen_require(`
        type polaris_tlscd_t;
    ')
    allow polaris_iosd_t polaris_tlscd_t:unix_dgram_socket sendto;
')
# on ing mcpcc-lc-ms reads /sys/devices/system/cpu/online
ifdef(`mcp_family',`
    dev_read_sysfs(polaris_iosd_t)
')
# neptune need to figure fan type by reading
# /sys/bus/platform/devices/nios/n2h_fan_ctrl_fan_tray_status
ifdef(`neptune_platform',`
    dev_read_sysfs(polaris_iosd_t)
')
# radium need to figure fan type by reading
# /sys/bus/platform/devices/nios/n2h_fan_ctrl_fan_tray_status
ifdef(`radium_platform',`
    dev_read_sysfs(polaris_iosd_t)
')
# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`quake_platform',`
    dev_read_sysfs(polaris_iosd_t)
')
# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`supernova_platform',`
    dev_read_sysfs(polaris_iosd_t)
# work with /tmp/boottime, /tmp/booted files: create/write

type polaris_iosd_tmp_files_t;
files_tmp_file(polaris_iosd_tmp_files_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, file, "boottime")
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, file, "booted")
create_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)

# allow polaris_iosd_t polaris_udev_tmp_files_t:dir { get attr open read search };
# allow polaris_iosd_t polaris_udev_tmp_files_t:file { open, read, write };
# LOOK AT ME (need to review write access with iosd team)
polaris_udev_tmp_manage(polaris_iosd_t)

# work with /tmp/restconf

type polaris_restconf_tmp_t;
files_tmp_file(polaris_restconf_tmp_t)
polaris_restconf_tmp_use(polaris_iosd_t)
files_tmp_filetrans(polaris_iosd_t, polaris_restconf_tmp_t, dir, "restconf")
filetrans_pattern(polaris_iosd_t, polaris_restconf_tmp_t, polaris_restconf_tmp_t, file)

# work with /tmp/netio0

files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, dir, "netio0")
# sockets and dirs created under /tmp/netio0
manage_dirs_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
manage_sock_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
allow polaris_iosd_t self:unix_dgram_socket create_socket_perms;

gen_require(
    type inetd_child_t;
    )
# sendto permission for /tmp/netio0/ttyC100
allow polaris_iosd_t inetd_child_t:unix_dgram_socket sendto;
polaris_socketat_nsfs_read(polaris_iosd_t)

# onep uses TIPC sockets see onep_tipc_transport_start
allow polaris_iosd_t self:socket { bind create listen accept get attr read ioctl getopt setopt };

# mcp_eobc_create_socket creates UDP socket for eobc
corenet_udp_bind_polaris_iosd_eobc_port(polaris_iosd_t)
gen_require(
    type node_t;
    )
allow polaris_iosd_t node_t:udp_socket node_bind;
allow polaris_iosd_t self:udp_socket { bind create ioctl setopt read write };

'}

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22267
# direct access to serial TTY devices like /dev/ttyS1
term_use_unallocated_ttys(polaris_iosd_t)

# on ultra cvac_load_config function tried to access cdrom0:/iosxe_config.txt
# and if exists read
ifdef('vxe_family';
fs_read_iso9660_files(polaris_iosd_t)
')
ifdef('wlc_family';
fs_read_iso9660_files(polaris_iosd_t)
')

# ifs_get_free_bytes invokes mcp_fs_statfs and eventually mcp_wrapper_statvfs
# with "/bootflash"...this needs attr access for "/
fs_getattr_xattr_fs(polaris_iosd_t)

# iosd works with cpp /dev/shm/cp_ifdev_shmem shared memory
optional_policy(
polaris_cpp_tmpfs_ifdev_rw(polaris_iosd_t)
')

# iosd reads/writes into grubenv for confreg
optional_policy(
polaris_grub_efi_use(polaris_iosd_t)
')

# when /bootflash or /harddisk are 100% full
allow polaris_iosd_t self:capability sys_resource;

# mcp_set_clock wants to call settimeofday
allow polaris_iosd_t self:capability sys_time;

# Need this for bluetooth to work. HCI library uses this
allow polaris_iosd_t self:capability net_raw;

ifdef('mcp_family';
polaris_obfl_data_read(polaris_iosd_t)
')

# iosd uses quack on mcp and crankshaft and ngwc
ifdef('mcp_family';
polaris_quack_dev_use(polaris_iosd_t)
')
ifdef('crankshaft_family';
polaris_quack_dev_use(polaris_iosd_t)
')
ifdef('ngwc_family';
polaris_quack_dev_use(polaris_iosd_t)
')
ifdef('qwlc_platform',
    polaris_quack_dev_use(polaris_iosd_t)
')
ifdef('katar_platform',
    polaris_quack_dev_use(polaris_iosd_t)
')
ifdef('mcp_family',
    polaris_spa_dev_use(polaris_iosd_t)
    polaris_sysfs_platform_dev_use(polaris_iosd_t)
')

# on lng write/ioctl into /dev/cpld-ha
# on vwlc ha scenario, iosd needs write access to /dev/cpld-ha
optional_policy(
    polaris_cpld_dev_use(polaris_iosd_t)
')

# deals with /dev/shm files semaphors; like uuid_sem semaphore
# created by btrace_get_uuid function
    type polaris_iosd_tmpfs_t;
    files_tmpfs_file(polaris_iosd_tmpfs_t)
    fs_tmpfs_filetrans(polaris_iosd_t, polaris_iosd_tmpfs_t, file)
    manage_files_pattern(polaris_iosd_t, tmpfs_t, polaris_iosd_tmpfs_t)
    optional_policy(
        polaris_IodB_tmp_manage(polaris_iosd_t)
    )

# on ngwc FIPS code reads /tmp/hw_entropy
# seems like iosd can delete the file as well
    polaris_hw_entropy_create(polaris_iosd_t)

    optional_policy(
        #on macallan iosd needs to access /dev/cpld
        polaris_cpld_dev_read(polaris_iosd_t)
    )

    # on tsn iosd needs write access to
    # sys/devices/platform/cpld/reg_rp_reset_button_status
    # sys/devices/platform/cpn-110-master DSR/DTR status
    ifdef('crankshaft_family',
        type polaris_quake_i2c_t;
        polaris_cpld_write(polaris_iosd_t)
        polaris_ggpio_dev_read_write(polaris_iosd_t)
    )
polaris_quake_i2c_manage(polaris_iosd_t)
')

ifdef(`katar_platform',
polaris_cpld_write(polaris_iosd_t)
')

# on tsn iosd needs access to /sys/devices/platform/moka_fpga
# /sys/devices/platform/moka_fpga/led_status
optional_policy('polaris_mokafpga_rw(polaris_iosd_t)
')

# iosd reads /tmp/iosd_level
polaris_lm_tmp_read(polaris_iosd_t)

# iosd needs manage_dirs, manage_files and manage_lnk
# permissions at "/tmp/ufs/lic0/<remote_ip>/*"
optional_policy('polaris_ncd_tmp_manage(polaris_iosd_t)
')

# access NFS mounted directories from other nodes or members
fs_getattr_nfs(polaris_iosd_t)

# mcp/mcprp/if_unix_se.c code works with /sys/devices/virtual/contdev
# files and /proc/net/dev
polaris_manage_contdev_dev(polaris_iosd_t)
kernell_read_network_state(polaris_iosd_t)

# iosd creates /tmp/iox_xml.dat file
optional_policy('polaris_iox_manage_tmp_files(polaris_iosd_t)
')

polaris_caf_var_run_files_manage(polaris_iosd_t)
container_read_lib_files(polaris_iosd_t)

# work with files like /tmp/rp/.shell_exec.5B1BF1D7648E21AEE3000002
# type polaris_iosd2iox_tmp_t:
files_tmp_file(polaris_iosd2iox_tmp_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosd2iox_tmp_t, file)
polaris_iosd2iox_tmp_manage(polaris_iosd_t)
# work with response
optional_policy('polaris_iox2iosd_tmp_manage(polaris_iosd_t)
')
polaris_sandbox_file_dir_list(polaris_iosd_t)

# lfts 2.0 iosd provides route information to kernel. it talks
# using generic netlink family socket. See iosd bsock_sar_netlink_process
# process
allow polaris_iosd_t self:netlink_generic_socket create_socket_perms;
allow polaris_iosd_t self:netlink_socket create_socket_perms;

# LOOK AT ME
# on nyquist iosd accesses files like lic0-2:/sanosync.data.readLock
# from saLockCheck function and it happens just right after lic0-2 was
# mounted over NFSv4. It seems that labels from remote node did not
# take an effect yet. For now allow access to dir and files that
# are not yet labeled.
ifdef(`nyquist_platform',
files_manage_isid_type_dirs(polaris_iosd_t)
files_manage_isid_type_files(polaris_iosd_t)
')

ifdef(`ngwc_family',
polaris_getattr_filesystem_disk_ucode(polaris_iosd_t)
#policy needed for accessing sys/bus/usb/drivers/usb/*/authorized
dev_rw_sysfs(polaris_iosd_t)
')

ifdef(`passport_platform',
polaris_cm_rp_tmp_manage(polaris_iosd_t)
')

polaris_lfts_dev_use(polaris_iosd_t)

# /dev/shm/vrf_shm access for show command
polaris_vrf_shm_manage(polaris_iosd_t)

# /dev/shm/sdm access
optional_policy(
polaris_sdm_shm_manage(polaris_iosd_t)
')

# iosd needs access to logging facility
logging_send_syslog_msg(polaris_iosd_t)

#iosd need access to /webui/*.odm files
polaris_read_webui_files(polaris_iosd_t)

# allow getting bins networking stats AF_NETLINK
allow polaris_iosd_t self:netlink_route_socket rw_netlink_socket_perms;
# confd needs to talk with IOSd via real linux udp snmp socket
allow polaris_iosd_t self:udp_socket { create_socket_perms recv_msg send_msg }; corenet_udp_bind_snmp_port(polaris_iosd_t)

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphor created by qfp process
ifdef(`vxe_family',`
opolaris_qfp_sem_use(polaris_iosd_t)
')
ifdef(`wlc_family',`
opolaris_qfp_sem_use(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenertun_tap_dev(polaris_iosd_t)
')

# lsmpi replacement punt/inject over domain sockets
ifdef(`vxe_family',`
opolaris_pi_uds_manage(polaris_iosd_t)
opolaris_qfp_dgram_send(polaris_iosd_t)
corenertun_tap_dev(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
')

# CSR when operating in VGA mode uses /dev/tty0 as the console for the system
# (including IOSD).IOSD setup scripts pass in the tty device(s) to use in the
# REAL_CONSOLE and REAL_AUX environment variables. IOSD configures the tty
# for its operation and hence need the capability.
allow polaris_iosd_t self:capability sys_tty_config;

# LOOK AT ME: hot patch upon a reboot requires execmem operation - which
# currently is not allowed. Remove the following policy when CSCvq59763
# has been completed.
allow polaris_iosd_t self:process execmem;

# /dev/epaN on qwlc/asr1k(mcp)
optional_policy(`
opolaris_epa_dev_use(polaris_iosd_t)
')

# /dev/qae_mem device access on overlord
optional_policy(`
opolaris_qae_dev_use(polaris_iosd_t)
')

# ioucon binary invoked on standby console attach.
polaris_ioucon_dgram_send(polaris_iosd_t)
# usb device requires read permissions.
kernel_read_debugfs(polaris_iosd_t)

# iosd requires access to /tmp/sv
ifdef(`ngwc_family',`
    polaris_sv_tmp_use(polaris_iosd_t)
    ifconfig_attach_tun_iface(polaris_iosd_t)
    corenet_rw_tun_tap_dev(polaris_iosd_t)
')

polaris_i2c_use(polaris_iosd_t)

# on CSR AWS deployment iosd needs read access to /dev/console
term_read_console(polaris_iosd_t)

# On vxe platforms the cloudint config is stored in /varied. We need
# to be able to read it.
ifdef(`vxe_family',`
    polaris_disk_varied_read(polaris_iosd_t)
')

# In stacked and ha setup secondary SUP bootflash and hardisk
# are mounted on active and is accessed by iosd.
polaris_getattr_bootflash(polaris_iosd_t)
polaris_getattr_harddisk(polaris_iosd_t)

# read access to /dev/random
dev_read_rand(polaris_iosd_t)

# Allow access of /tmp/maroon_stats files
polaris_maroon_data_manage_all(polaris_iosd_t)

#access to /dev/bp_async device on nanook platform
optional_policy(`
polaris_bp_async_dev_use(polaris_iosd_t)
')

#Permission for access file attribute to list the file info
polaris_caf_tmp_files_getattr(polaris_iosd_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_iosd_t)
polaris_tmp_tdldb_persist_setup(polaris_iosd_t)

# IOSCC needs access to /mnt/firmware for intelligent spa during bootup
polaris_firmware_read(polaris_iosd_t)
# On Sparrow platform: IOSd requires access to /dev/remap_mem0
# and /dev/usb_console for OOB management
# Also allows access to /dev/sparrow_psu and /dev/net/tun
# /dev/shm/sem_dev_i2c_0 sempaphor
ifdef('sparrow_platform',
    gen_require('type polaris_cm_cc_tmpfs_t;
                  
    polaris_remap_mem_dev_use(polaris_iosd_t)
    term_use_usb_ttys(polaris_iosd_t)
    polaris_sparrow_psu_dev_use(polaris_iosd_t)
    polaris_i2c_sem_manage(polaris_iosd_t)
    ifconfig_attach_tun_iface(polaris_iosd_t)
    corenet_rw_tun_tap_dev(polaris_iosd_t)
    mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
    )
)

# On Blackheart platform: /dev/shm/sem_dev_i2c_0 sempaphor
# Allow access to /tmp/udev/etc/udev/msata/udev-info and /dev/net/tun
# Allow access to /dev/remap_mem0 for alarm port
ifdef('blackheart_platform',
    gen_require('type polaris_cm_cc_tmpfs_t;
                  
    polaris_udev_access(polaris_iosd_t)
    polaris_remap_mem_dev_use(polaris_iosd_t)
    polaris_i2c_sem_manage(polaris_iosd_t)
    ifconfig_attach_tun_iface(polaris_iosd_t)
    corenet_rw_tun_tap_dev(polaris_iosd_t)
    mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cm_tmpfs_t)
    )
)

# handle /tmp/rp/.iosp_client_app token
type polaris_iosp_client_app_token_t;
files_tmp_file(polaris_iosp_client_app_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosp_client_app_token_t, file, ".iosp_client_app")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_app_token_t, polaris_iosp_client_app_token_t)

# handle /tmp/rp/.iosp_client_dmi token
type polaris_iosp_client_dmi_token_t;
files_tmp_file(polaris_iosp_client_dmi_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosp_client_dmi_token_t, file, ".iosp_client_dmi")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_dmi_token_t, polaris_iosp_client_dmi_token_t)

# handle /tmp/rp/.iosp_dmiauthd token
type polaris_dmiauthd_token_t;
files_tmp_file(polaris_dmiauthd_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_dmiauthd_token_t, file, ".iosp_dmiauthd")
manage_files_pattern(polaris_iosd_t, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)

# handle /tmp/rp/.iosp_gnmib token
type polaris_gnmib_token_t;
files_tmp_file(polaris_gnmib_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_gnmib_token_t, file, ".iosp_gnmib")
manage_files_pattern(polaris_iosd_t, polaris_gnmib_token_t, polaris_gnmib_token_t)
polaris_udev_tmp_watch(polaris_iosd_t)

# Interfaces needed for Aventus platform, allow access to
# /dev/shm/sem._dev_i2c_0 sempaphor
# /dev/usb/console for OOB management
# /dev/net/tun
# brctl process needs access to fifo_file
ifdef(`aventus_platform',`
gen_require(`
    type brctl_t;
    type polaris_pman_t;
    type polaris_cm_cc_tmpfs_t;
    type ifconfig_t;
    type polaris_i2c_device_t;
')
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
term_use_usb_ttys(polaris_iosd_t)
allow brctl_t polaris_pman_t:t fifo_file append;
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
allow ifconfig_t polaris_i2c_device_t:chr_file { read write };
')

# allow access and modify files in /tftp/inv directory
# TODO Need to revisit this for further analysis
ifdef(`mcp_family',`
gen_require(`
    type tftpdir_rw_t;
')
read_files_pattern(polaris_iosd_t, tftpdir_rw_t, tftpdir_rw_t)
')

# allow access and modify awips file in /bootflash
gen_require(`
type polaris_awips_signature_file_t;
')
filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
allow polaris_iosd_t polaris_awips_signature_file_t:file { write create read open getattr unlink};
# handle geodb file access
type polaris_geodb_files_t;
polaris_disk_type(polaris_geodb_files_t)
filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_geodb_files_t, dir, ".geo")
filetrans_pattern(polaris_iosd_t, polaris_disk_harddisk_t, polaris_geodb_files_t, dir, ".geo")
polaris_geodb_files_manage(polaris_iosd_t)

# handle /var/ip_local_port_range
type polaris_ip_linux_port_var_t;
files_tmp_file(polaris_ip_linux_port_var_t)
files_var_filetrans(polaris_iosd_t, polaris_ip_linux_port_var_t, file, "ip_local_port_range")

# linux_iosd-imag access to file /var/ip_local_port_range
manage_files_pattern(polaris_iosd_t, var_t, polaris_ip_linux_port_var_t)

# Allow access to /bootflash/certs
polaris_wlc_ap_cert_manage(polaris_iosd_t)

# command "ls" on /var/ip_local_port_range
gen_require(
    type polaris_shell_t;
')
allow polaris_shell_t polaris_ip_linux_port_var_t:file getattr;

# handling /boot/vcpu_template.txt or /csl_p_0/vcpu_template.txt file
# created by iosd by platform resource config command
type polaris_iosd_vcpu_t;
files_type(polaris_iosd_vcpu_t)
gen_require(
    type polaris_disk_csl_p_t;
    type polaris_disk_varied_t;
')
filetrans_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t, file, "vcpu_template.txt")
manage_files_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t)

# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_iosd_t)
fs_search_cgroup_dirs(polaris_iosd_t)
# for Dynamic Core Allocation IOSd needs write access to cpu sets/shares
ifdef(`crankshaft_family',
    fs_write_cgroup_files(polaris_iosd_t)
')

# sdwan_admintech_generate() creates admintech and admintech_trace files
gen_require(
    type polaris_admin_tech_data_t;
')
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin tech_data_t, file, "admin tech")
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin tech_data_t, file, "admin tech trace")
filetrans_pattern(polaris_iosd_t, polaris_chasfs_t, polaris_admin tech_data_t, file, "ios admin tech done")
filetrans_pattern(polaris_iosd_t, polaris_chasfs_t, polaris_admin tech_data_t, file, "ios admin tech request")
polaris_admin tech_data manage(polaris_iosd_t)
# with "/bootflash"...this needs attr to access for logfile
polaris_user_file_getattr(polaris_iosd_t)
allow polaris_iosd_t polaris_user_file_t:file { open unlink };
#================================================================================================
# petra platform
ifdef(’petra platform’,’
# iosd need access to petra fpga
polaris_iots_fpga_dev_use(polaris_iosd_t)
# iosd need access to memory devices
polaris_iots_tm_dev_use(polaris_iosd_t)
#allow map permission for /dev/shm/TM_A53_APIs
allow polaris_iosd_t polaris_iosd_tmpfs_t:file map;
#allow access to polaris_cm_rp_t sem
polaris_cm_rp_sem_use(polaris_iosd_t)
#allow access to userio
dev_rw_userio_dev(polaris_iosd_t)
allow polaris_iosd_t userio_device_t:chr_file { map };
#iosd need access to sysfs
dev_rw_sysfs(polaris_iosd_t)
allow polaris_iosd_t sysfs_t:file { create map };
dev_manage_sysfs_dirs(polaris_iosd_t)
# iosd need access to sdflash files image is stored
polaris_swipedrive_file_manage(polaris_iosd_t)
polaris_getattr_swipedrive(polaris_iosd_t)
#iosd need access to mmcbanked p3
gen_require(’
    type polaris_disk_recovery_t;
’)
allow polaris_iosd_t polaris_disk_recovery_t:filesystem getattr;
#iosd need access to mmcbanked p2
polaris_getattr_filesystem_disk_ucode(polaris_iosd_t)
# iosd need access to /dev/mvDmaDrv
polaris_mvDmaDrv_dev_use(polaris_iosd_t)
# iosd need access to /dev/mvIntDrv
polaris_mvIntDrv_dev_use(polaris_iosd_t)
#iosd need permission for LED
polaris_led_dev_use(polaris_iosd_t)
#iosd need access to rawip socket by initscripts/rc.d/init.d/iptables
allow polaris_iosd_t self:rawip_socket create_socket_perms;
#iosd needs access to /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_iosd_t)
#iosd need permission to /dev/rtc0 done via imsp_update_sw_hwclock()
dev_rw_realtime_clock(polaris_iosd_t)
')
# work with /tmp/usb-disable: create/write
type polaris_iosd_usb_disable_tmp_t;
files_tmp_file(polaris_iosd_usb_disable_tmp_t);
polaris_iosd_usb_disable_tmp_manage(polaris_iosd_t)

ifdef(`ngwc_family',`
  # SELINUX Mismatch warning when doing power redundancy configuration commands
  # Allow access /bootflash/nplusm-power
  polaris_nplusm_power_manage(polaris_iosd_t)
')

optional_policy(
    polaris_efi_files_list_dirs(polaris_iosd_t)
')

# work with /dev/shm/mq.-iosd_to_timingd
type polaris_iosd_timing_mqipc_t;
polaris_mqipc_type(polaris_iosd_timing_mqipc_t)
polaris_mqipc_create_name(polaris_iosd_t, polaris_iosd_timing_mqipc_t, iosd_to_timingd)

# watch /tmp
allow polaris_iosd_t tmp_t:dir watch;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.te
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#
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#
#
## <summary>Polaris oct_dp_log_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioctdplogrp.if
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#
### <summary>Polaris cedge Policy Rules.</summary>

#################################################################
### <summary>
### Manage /tmp/xml files and directories
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_cedge_xml_tmp_manage',
   gen_require(
      type polaris_cedge_xml_tmp_t;
   ')
   manage_dirs_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
   manage_files_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
   files_tmp_filetrans($1, polaris_cedge_xml_tmp_t, dir, "xml")

   allow $1 polaris_cedge_xml_tmp_t:dir { watch mounton; }
   allow $1 polaris_cedge_xml_tmp_t:file map;
')

#################################################################
### <summary>
### Manage /tmp/tmp files and directories
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_cedge_tmp_manage',
   gen_require(
      type polaris_cedge_tmp_t;
   ')
   manage_dirs_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
   manage_files_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
   files_tmp_filetrans($1, polaris_cedge_tmp_t, dir, "tmp")

')

#################################################################
### <summary>
### Manage /etc/viptela files and directories
```c
interface('polaris_cedge_etc_manage',
    gen_require('polaris_cedge_etc_t;
    }
    manage_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    manage_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    manage_lnk_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
)

interface('polaris_cedge_etc_read',
    gen_require('polaris_cedge_etc_t;
    }
    search_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    read_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    read_lnk_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
)

interface('polaris_cedge_etc_watch',
    gen_require('polaris_cedge_etc_t;
    }
    watch_cedge_etc_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    watch_cedge_etc_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    watch_cedge_etc_lnk_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
)
```

interface('polaris_cedge_etc_watch',
    gen_require(
        type polaris_cedge_etc_t;
    )
    allow $1 polaris_cedge_etc_t: { dir file } watch;
)

####################################################################
## <summary>
##      Read access /var/run/netns/* performed from vip_util_set_ns
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_set_ns',
    init_read_state($1)
    fs_read_nsfs_files($1)
    sysnet_manage_ifconfig_run($1)
)

####################################################################
## <summary>
##      Read access /proc/1/ns/net performed from vip_util_reset_ns
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_reset_ns',
    init_read_state($1)
)

####################################################################
## <summary>
##      Manage /dev/shm viptela files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_tmpfs_manage',
    ...)
gen_require(
    type polaris_cedge_tmpfs_t;
    type tmpfs_t;
')
fs_tmpfs_filetrans($1, polaris_cedge_tmpfs_t, file)
manage_files_pattern($1, tmpfs_t, polaris_cedge_tmpfs_t)
allow $1 polaris_cedge_tmpfs_t:file map;
')

######################################
## <summary>
##      Manage /tmp/.econfd2sysmgr-ipc files and directories
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_econfd2sysmgr_tmp_manage',
    gen_require(
        type polaris_econfd2sysmgr_tmpfs_t;
    ')
manage_dirs_pattern($1, polaris_econfd2sysmgr_tmpfs_t, polaris_econfd2sysmgr_tmpfs_t)
manage_files_pattern($1, polaris_econfd2sysmgr_tmpfs_t, polaris_econfd2sysmgr_tmpfs_t)
files_tmp_filetrans($1, polaris_econfd2sysmgr_tmpfs_t, dir, ".econfd2sysmgr-ipc")
allow $1 polaris_econfd2sysmgr_tmpfs_t:dir watch;
')

######################################
## <summary>
##      Manage /tmp/* labeled with polaris_vconfd_cert_tmp_t
##             for vconfd_script_upload_root_ca_crt_chain.sh to access
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_vconfd_cert_tmp_manage',
    gen_require(
        type polaris_vconfd_cert_tmpfs_t;
    ')
manage_dirs_pattern($1, polaris_vconfd_cert_tmpfs_t, polaris_vconfd_cert_tmpfs_t)
manage_files_pattern($1, polaris_vconfd_cert_tmpfs_t, polaris_vconfd_cert_tmpfs_t)
')
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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedge.if
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#
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#
#
##<summary>Polaris cpp_driver Policy Rules.</summary>

########################################
## <summary>
##      Allow access to semaphore with type polaris_cpp_driver_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface(`polaris_cpp_driver_sem_use',`
  gen_require(`
    type polaris_cpp_driver_t;
  `)
  allow $1 polaris_cpp_driver_t:sem rw_sem_perms;
`)

########################################
## <summary>
##      Allow access to shared memory with type polaris_cpp_driver_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface(`polaris_cpp_driver_shm_use',`
  gen_require(`
    type polaris_cpp_driver_t;
  `)
  allow $1 polaris_cpp_driver_t:shm rw_shm_perms;
`)

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### <summary>Polaris polarisautoupgrade Policy Rules.</summary>

```
###<summary>
### Execute auto-upgrade scripts in their own domain
###</summary>
### <param name="domain">
### Domain allowed access.
###</param>
### <rolecap/>
#
interface(`polaris_autoupgrade_domtrans',`
    gen_require(`
        type polaris_autoupgrade_t;
        type polaris_autoupgrade_exec_t;
    `)
)

domtrans_pattern($1, polaris_autoupgrade_exec_t, polaris_autoupgrade_t)
`
```

### <summary>
### Manage tmp files created by autoupgrade.
###</summary>
### <param name="domain">
### Domain allowed access.
###</param>
### <rolecap/>
#
interface(`polaris_autoupgrade_tmp_manage',`
    gen_require(`
        type polaris_autoupgrade_tmp_t;
    `)
)
manage_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_lnk_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_fifo_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_fifo_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
'

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#
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#

## <summary>Polaris CRFT Policy Rules.</summary>

# CRFT policy

## <summary>Allow read-only access to CRFT generated files</summary>

## <param name="domain">
# Domain allowed access.
## </param>

## <param name="file_type">
# File type of crft that corresponds to given domain.
## </param>

# interface('polaris_crft_data_read',
   gen_require(
      type polaris_crft_data_t;
      type polaris_crft_request_t;
      type polaris_crft_request_crft_t;
   )

read_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
polaris_disk_bootflash_read_lnk($1)
polaris_disk_harddisk_read_lnk($1)
read_files_pattern($1, polaris_crft_request_crft_t, polaris_crft_request_crft_t)
allow $1 polaris_crft_request_t:fifo_file { ioctl write ;}
')

### <summary>
## Manage crft persistent files
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
### <rolebase/>
#
interface('polaris_crft_data_manage',
  gen_require(
    type polaris_crft_data_t;
  )
manage_dirs_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
# Note: Based on dicussion with SElinux team, we need to call this
# out specifically here for lnk file access, as:
# - NGWC /harddisk -(symlink)-> /misc/scratch -(symlink)-> /mnt/sda3/user
polaris_disk_bootflash_read_lnk($1)
polaris_disk_harddisk_read_lnk($1)
allow $1 polaris_crft_data_t:file map;
')

### <summary>
## Manage crft files
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
### <rolebase/>
#
interface('polaris_crft_data_manage_all',
polaris_crft_data_manage($1)
  gen_require(
    attribute polaris_crft_data_domain;
    type polaris_crft_data_t;
  )
manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)
manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)
allow $1 polaris_crft_data_domain:file map;

#######################################
## <summary>
## Make the specified type usable as crft data file type.
## </summary>
## <param name="type">
## Type to be used for files.
## </param>
#
# interface('polaris_crft_data_type',
   files_type($1)
polaris_pfile_type($1)
gen_require(
   attribute polaris_crft_data_domain;
')
typeattribute $1 polaris_crft_data_domain;
')

#######################################
## <summary>
## Process to manage its own crft files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="file_type">
## File type of crft that corresponds to given domain.
## </param>
## <rolebase/>
#
# interface('polaris_crft_data_client',
   gen_require(
   type polaris_crft_data_t;
')
manage_dirs_pattern($1, polaris_crft_data_t, $2)
manage_files_pattern($1, polaris_crf_t, $2)
manage_link_files_pattern($1, polaris_crf_t, $2)
filetrans_pattern($1, polaris_crf_t, $2, file)
allow $1 $2:file map;
')

#######################################
## <summary>
## Process to manage its own crft files
## </summary>
## <param name="domain_stem">
## Steam of domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_crf_t_client_template',
  gen_require('attribute polaris_crf_t_data_domain;
type polaris_crf_t;
')
type polaris_$1_crf_t;
polaris_crf_t_type(polaris_$1_crf_t)
polaris_crf_t_client(polaris_$1_t, polaris_$1_crf_t)
')

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.if
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#
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#
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#
/usr/cpp/bin/cpp_ha_top_level_server -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_us_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vwl -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vwl_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.fc
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#

policy_module(polariscfg, 1.0);

#Cfg files policy

type polaris_cfg_data_t;
files_type(polaris_cfg_data_t)

gen_require(
   attribute polaris_extended_domain;
')

files_tmp_filetrans(polaris_extended_domain, polaris_cfg_data_t, dir, "cfg")

#cfg_sync.sh policy

polaris_utility_domain_template(cfg_sync)
polaris_bexecute_domain(polaris_cfg_sync_t, polaris_cfg_sync_exec_t)
polaris_boot_tmp_read(polaris_cfg_sync_t)
polaris_btrace_data_manage(polaris_cfg_sync_t)
polaris_chasfs_read(polaris_cfg_sync_t)
polaris_cpld_read(polaris_cfg_sync_t)
polaris_use_btrace_fifo(polaris_cfg_sync_t)
corecmd_exec_bin(polaris_cfg_sync_t)
auth_use_nsswitch(polaris_cfg_sync_t)
polaris_bootflash_read(polaris_cfg_sync_t)
polaris_nvram_manage(polaris_cfg_sync_t)
telnet_use_ptys(polaris_cfg_sync_t)

gen_require(
   type rsync_t;
')
rsync_entry_domtrans(polaris_cfg_sync_t, rsync_t)
allow rsync_t polaris_cfg_sync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t polaris_cfg_sync_t:fifo_file { write getattr }

logging_send_syslog_msg(polaris_cfg_sync_t)

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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
# polarisvxeipcbaseauto file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_fc.m4
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#

## <summary>Polaris cm_fp Policy Rules.</summary>

#########################################################
## <summary>
##	Execute cm_fp in the polaris_cm_fp_t domain.
## </summary>
## <param name="domain">
##<summary>
##Domain allowed to transition.
##</summary>
## </param>
#
interface('polaris_cm_fp_domtrans',
gen_require(''
type polaris_cm_fp_t, polaris_cm_fp_exec_t;
')
corecmd_search_bin($1)
### <summary>
### Allow the specified domain to manage cm_fp_tmp files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_cm_fp_tmp_manage',
    gen_require(
        
        type polaris_cm_fp_tmp_t;
        type tmp_t;
    )
)

manage_files_pattern($1, { polaris_cm_fp_tmp_t tmp_t }, polaris_cm_fp_tmp_t)

### <summary>
### Create objects in /tmp with a polaris_cm_fp_tmp_t type using a type_transition.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_cm_fp_tmp_filetrans',
    gen_require(
        
        type polaris_cm_fp_tmp_t;
    )
    files_tmp_filetrans($1, polaris_cm_fp_tmp_t, file, "octeon-remote-lock-pci:0")
)

### <summary>
### Allow access to semaphore with type polaris_cm_fp_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
## <param name="domain">
## Domain allowed access.
## </param>

### <summary>
### Allow access to /dev/hkp with type polaris_cm_fp_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

### <summary>
### Allow access to shared memory with type polaris_cm_fp_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

### <summary>
### Allow access to /dev/hkp with type polaris_cm_fp_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.if
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#  
# August 2017, Shawn Lu  
#  
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#  
# polarisifmgr file contexts place holder  

Found in path(s):  
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#  
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#  
### <summary>Polaris crankshaft Platform Policy Rules.</summary>  

######################################################  
### <summary>  
### Work (read, write, ioctl) with /dev/linux-(user|kernel)-bde devices  
### </summary>  
### <param name="domain">  
### <summary>  
### Domain allowed access.  
### </summary>  
### </param>  
#  
interface(`polaris_bde_dev_use',`  
gen_require(`  
    type device_t;  
type polaris_bde_device_t;  
`)  
write_chr_files_pattern($1, device_t, polaris_bde_device_t)  
read_chr_files_pattern($1, device_t, polaris_bde_device_t)  
allow $1 polaris_bde_device_t:chr_file map;  
`)  

######################################################  
### <summary>  
### Work (read, write, ioctl) with /dev/dash_fpga device  
### </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_dash_dev_use',
  gen_require(
    type device_t;
    type polaris_dash_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_dash_device_t)
  read_chr_files_pattern($1, device_t, polaris_dash_device_t)
  allow $1 polaris_dash_device_t:chr_file map;
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/huron_fpga device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_huron_dev_use',
  gen_require(
    type device_t;
    type polaris_huron_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_huron_device_t)
  read_chr_files_pattern($1, device_t, polaris_huron_device_t)
  allow $1 polaris_huron_device_t:chr_file map;
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/dplr_sumatra
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_sumatra_doppler_dev_use',
  gen_require(
    type device_t;
    type polaris_sumatra_doppler_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
  read_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
  allow $1 polaris_sumatra_doppler_device_t:chr_file map;
')
type device_t;
  type polaris_sumatra_doppler_device_t;

')
write_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
read_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
allow $1 polaris_sumatra_doppler_device_t:chr_file map;
')

###############################
## <summary>
## Work (open, read, write, ioctl) with /dev/sirius_fpga device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_sirius_fpga_dev_use`,
gen_require(`
  type device_t;
type polaris_siriusfpga_device_t;
')
  rw_chr_files_pattern($1, device_t, polaris_siriusfpga_device_t);
')

###############################
## <summary>
## Work (read, write, ioctl) with /dev/nios device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_nios_dev_use`,
gen_require(`
  type device_t;
type polaris_nios_device_t;
')
  write_chr_files_pattern($1, device_t, polaris_nios_device_t)
  read_chr_files_pattern($1, device_t, polaris_nios_device_t)
')

###############################
## <summary>
## Work (read, write, ioctl) with /dev/qae_mem device
## </summary>

## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
      Domain allowed access.
      </summary>
</param>
#
interface('polaris_qae_dev_use',`
gen_require(`
        type device_t;
type polaris_qae_device_t;
')
        write_chr_files_pattern($1, device_t, polaris_qae_device_t)
        read_chr_files_pattern($1, device_t, polaris_qae_device_t)
')

######################################
## <summary>
## Read mokafpga files in /sys/devices/platform directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_mokafpga_read',`
gen_require(`
        type polaris_sysfs_mokafpga_t;
type sysfs_t;
')
        read_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
        list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
')

######################################
## <summary>
## Read/Write mokafpga files in /sys/devices/platform directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_mokafpga_rw',`
gen_require(`
        type polaris_sysfs_mokafpga_t;
type sysfs_t;
)

rw_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
)

######################################
## <summary>
## Work (read, write, ioctl) with /dev/moka_fpga
## </summary>
##<param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_mokafpga_dev_use',
  gen_require(
    type device_t;
    type polaris_mokafpga_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
  read_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
)

######################################
## <summary>
## Work (read, write, ioctl) with /dev/nim_dm_0_1 and
## /dev/nim_dm devices
## </summary>
##<param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_nim_dm_dev_use',
  gen_require(
    type device_t;
    type polaris_nim_dm_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
  read_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
  allow $1 polaris_nim_dm_device_t:chr_file map;
  allow $1 device_t:chr_file map;
)
## <summary>
##      Execute a domain transition to run load_usbnet.sh.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_load_usbnet_domtrans',`
    gen_require(`
        type polaris_load_usbnet_t, polaris_load_usbnet_exec_t;
    `)
    domtrans_pattern($1, polaris_load_usbnet_exec_t, polaris_load_usbnet_t)
`)

## <summary>
##      Label and allow access to i2c semaphore files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_i2c_sem_manage',`
    gen_require(`
        type tmpfs_t;
        type polaris_cm_cc_tmpfs_t;
    `)
    manage_files_pattern($1, tmpfs_t, polaris_cm_cc_tmpfs_t)
    mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
`)

## <summary>
## Work (read, write, ioctl) with /dev/bp_async device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_bp_async_dev_use',`
gen_require(
    type device_t;
    type polaris_bp_async_device_t;
')
write_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
read_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
allow $1 polaris_bp_async_device_t:chr_file map;
')

#############################
## <summary>
##      Label and allow access to i2c semaphore files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_udev_access',`
    gen_require(
        type tmpfs_t;
        type polaris_udev_tmp_files_t;
    ')
    manage_files_pattern($1, tmpfs_t, polaris_udev_tmp_files_t)
')

#############################
## <summary>
## Work (read, write, ioctl) with /dev/sparrow_psu device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_sparrow_psu_dev_use',`
generate_require(
    type device_t;
    type polaris_sparrow_psu_device_t;
')
write_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)
read_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)
')

#############################
## <summary>
## Work (read, write, ioctl) with /dev/nutella_fpga device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_nutella_fpga_dev_use',
    gen_require('    type device_t;
    type polaris_nutella_fpga_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)
')

########################################################################
## Read and write to qcqmi devices.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_qcqmi_dev_use',
    gen_require('    type device_t, qcqmi_device_t;
    ')
    rw_chr_files_pattern($1, device_t, qcqmi_device_t)
')

########################################################################
## Work (read, write, ioctl) with /dev/sm_nim_adpt device files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sm_nim_adpt_dev_use',
    gen_require('    type device_t;
    type polaris_sm_nim_adpt_device_t;
write_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
read_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
allow $1 polaris_sm_nim_adpt_device_t:chr_file map;

")

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/dio-*
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
#interface('polaris_dio_dev_use',`
   gen_require(`
   type device_t; 
   type polaris_dio_device_t;
   `)
write_chr_files_pattern($1, device_t, polaris_dio_device_t)
read_chr_files_pattern($1, device_t, polaris_dio_device_t)
allow $1 polaris_dio_device_t:chr_file map;
`)

######################################
## <summary>
##      Read /dev/dio-*
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
#interface('polaris_dio_dev_read',`
   gen_require(`
   type device_t; 
   type polaris_dio_device_t;
   `)
read_chr_files_pattern($1, device_t, polaris_dio_device_t)
`)

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/ttyNMEA* and /dev/ttyTunNMEA*
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
#interface('polaris_dio_dev_tty',`
   gen_require(`
   type device_t; 
   type polaris_dio_device_t;
   `)
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_tty_NMEA_dev_use',
    gen_require('`
        type device_t;
        type polaris_tty_NMEA_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
    read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
    allow $1 polaris_tty_NMEA_device_t:chr_file map;
`)

######################################
### <summary>
### Read /dev/ttyNMEA* and /dev/ttyTunNMEA*
### </summary>
### </param>
#
interface('polaris_tty_NMEA_dev_read',
    gen_require('`
        type device_t;
        type polaris_tty_NMEA_device_t;
    `)
    read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
`)

######################################
### <summary>
### Work (read, write, ioctl) with /dev/nim_phy
### </summary>
### </param>
#
interface('polaris_nim_phy_dev_use',
    gen_require('`
        type device_t;
`)}
type polaris_nim_phy_device_t;
')
    rw_chr_files_pattern($1, device_t, polaris_nim_phy_device_t)
    allow $1 polaris_nim_phy_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.if
No license file was found, but licenses were detected in source scan.

dnl
dnl July 2020, Victor Kamensky
dnl
dnl Copyright (c) 2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl c8kv Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 3)
max_bay_ripc_map_set(`fp', `global', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/c8kvmaps.m4
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#
#
# /bootflash labels
/bootflash(/.*)?  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?  gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\pub  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /objstore/ for hybrid TAM access
/objstore(/.*)? gen_context(system_u:object_r:polaris_disk_objstore_t,s0)
/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# not really a license file stored by iosd during platform resource config command
/csl_p_0/vcpu_template.txt gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)

# nvram devices
/dev/booflash2 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/booflash3 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda2 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda3 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/linux-user-bde -c gen_context(system_u:object_r:polaris_bde_device_t,s0)
/dev/linux-kernel-bde -c gen_context(system_u:object_r:polaris_bde_device_t,s0)
/dev/dash_fpga -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc0 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc1 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc2 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc3 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_nios -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/huron_fpga -c gen_context(system_u:object_r:polaris_huron_device_t,s0)
/dev/dplr_sumatra -c gen_context(system_u:object_r:polaris_sumatra_doppler_device_t,s0)
/dev/nios -c gen_context(system_u:object_r:polaris_nios_device_t,s0)
/dev/qae_mem -c gen_context(system_u:object_r:polaris_qae_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0.csr -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_ring -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem_page -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# moka fpga
/dev/moka_fpga -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)
/dev/moka_fpga_cc -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)
# for load usbnet module
/usr/binos/conf/load_usbnet.sh -- gen_context(system_u:object_r:polaris_load_usbnet_exec_t:s0)

/dev/nim_dm -c gen_context(system_u:object_r:polaris_nim_dm_device_t:s0)
/dev/nim_dm_0_1 -c gen_context(system_u:object_r:polaris_nim_dm_device_t:s0)

/dev/nim_phy -c gen_context(system_u:object_r:polaris_nim_phy_device_t:s0)

# file-system on blackheart/sparrow
# /crashinfo is symbolic link to /flash1
/crashinfo gen_context(system_u:object_r:polaris_disk_crashinfo_t:s0)

# /flash is symbolic link to /flash1
/f lash gen_context(system_u:object_r:polaris_disk_bootflash_t:s0)

# /flash0 NVRAM
/flash0(/.*)? gen_context(system_u:object_r:polaris_nvram_file_t:s0)

# /flash1 Bootflash
/flash1(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t:s0)
/flash1/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t:s0)
/flash1/geo(/.*)? gen_context(system_u:object_r:polaris_geodb_files_t:s0)
/flash1/USWAP(/.*)? gen_context(system_u:object_r:polaris_uswap_files_t:s0)
/flash1/dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t:s0)
/flash1/debug.conf -- gen_context(system_u:object_r:polaris_debug_conf_t:s0)
/flash1/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t:s0)
/flash1/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t:s0)
/flash1/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t:s0)
/flash1/installer(/.*)? gen_context(system_u:object_r:polaris_disk_install_t:s0)
/flash1/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t:s0)
/flash1/ssh/ssh_host.*_key.pub gen_context(system_u:object_r:sshd_key_t:s0)
/flash1/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t:s0)

# /flash3 OBFL
/flash3(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t:s0)
/flash3/OBFL(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t:s0)

# harddisk
/vol/harddisk(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t:s0)
/mnt/msata(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t:s0)

# for usage by IOx
/vol/usb1(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t:s0)
/dev/shm/seml_.dev_i2c_0 gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t:s0)
/dev/shm/seml_.dev_i2c_1 gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t:s0)
/dev/shm/seml_.dev_i2c_2 gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t:s0)
# Nvram symlink on Aventus platform
/aventus_config/nvram

# Nvram symlink on Cabo platform
/cabo_config/nvram

# Device applicable to Betelgeuse platform
/dev/sirius_fpga

# Device applicable to Nanook platform
/dev/bp_async -c

# Device applicable to Sparrow platform
/dev/remap_mem0 -c
/dev/sparrow_psu -c
/dev/dio-upstream -c
/dev/dio-[1-4] -c
/dev/ttyNMEA[0-1] -c
/dev/ttyTunNMEA[0-1] -c

# Device applicable to Nutella platform
/dev/nutella_fpga -c

# Only qcqmi0 and qcqmi1 are generated for Telit/SWI modems
/dev/qcqmi0 -c
/dev/qcqmi1 -c

# SM NIM Adapter Switzer-CC device files
/dev/sm_nim_adpt_fpga_1 -c
/dev/sm_nim_adpt_nim_oir_1_0 -c
/dev/sm_nim_adpt_nim_oir_1_1 -c
/dev/sm_nim_adpt_fpga_2 -c
/dev/sm_nim_adpt_nim_oir_2_0 -c
/dev/sm_nim_adpt_nim_oir_2_1 -c

# CLI: show platform hardware msata
/usr/binos/bin/msata_info.sh
/tmp/sata_status

# Memory blocks and gpp for Nutella platform
/dev/mmcblk0gp0p1 -c
/gpp

# CLI: show platform hardware slot p[x] fan eeprom
/usr/binos/conf/mcp_fan_eeprom_cmd.sh
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.fc
No license file was found, but licenses were detected in source scan.

policy_module(polariscmfp, 1.0);

gen_require("  
    type polaris_cm_fp_t;
'
)

polaris_btrace_data_manage(polaris_cm_fp_t)
polaris_crf_t_data_manage(polaris_cm_fp_t)
polaris_chasfs_man(polaris_cm_fp_t)
polaris_tdlresolve_read(polaris_cm_fp_t)
polaris_tddb_list_dirs(polaris_cm_fp_t)
polaris_cpld_read(polaris_cm_fp_t)
polaris_flashlib_read(polaris_cm_fp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cm_fp_t)
polaris_cpld_dev_use(polaris_cm_fp_t)
polaris_proc_rmonbifo_read(polaris_cm_fp_t)
polaris_obfl_data_read(polaris_cm_fp_t)
polaris_persistent_list_dirs(polaris_cm_fp_t)
polaris_chasync_files_manage(polaris_cm_fp_t)

# cman_fp creates /tmp/cpp_anon_db file, instead of adding it to polaris_cpp_domain
# let us just grant access to cpp tmp files
polaris_cpp_tmp_files_use(polaris_cm_fp_t, "cpp_anon_db")
# on 1ng works with /dev/cpp
polaris_cpp_dev_use(polaris_cm_fp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_fp_t)

# on ultra read eeprom through i2c
# type=AVC msg=audit(1479556298.842:11): avc: denied {getattr} for pid=5464 comm="cman_fp"
path="/sys/devices/i2c-0/i2c-1/1-0056/eeeprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_fp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# type=AVC msg=audit(1479556298.842:12): avc: denied { read write } for pid=5464 comm="cman_fp"
name="eeprom" dev="sysfs" ino=25556 scontext=system_u:system_r:polaris_cm_fp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_cm_fp_t)

polaris_icc_broken_relocations(polaris_cm_fp_t)

allow polaris_cm_fp_t self:udp_socket { create ioctl }

# cman_fp can start dyncfg_setup.sh, allow its transition to dynfg_t type
polaris_dynfg_domtrans(polaris_cm_fp_t)

# on 1ng cman_fp write into /bootflash/crypto/octeon_pci_console_dev0_20170723_075412.log
polaris_bootflash_manage(polaris_cm_fp_t)

polaris_disk_harddisk_read_lnk(polaris_cm_fp_t)

# write to devices like this /proc/bus/pci/04/00.0
kernel_read_system_state(polaris_cm_fp_t)
kernl_writeproc_files(polaris_cm_fp_t)

# cm_fp tmp files like /tmp/octeon-remote-lock-pci:0
type polaris_cm_fp_tmp_t;
files_tmp_file(polaris_cm_fp_tmp_t)
polaris_cm_fp_tmp_filetrans(polaris_cm_fp_t)
polaris_cm_fp_tmp_manage(polaris_cm_fp_t)
# besides /tmp/octeon-remote-lock-pci:0 all other files in /tmp
# are ours
files_tmp_filetrans(polaris_cm_fp_t, polaris_cm_fp_tmp_t, file)

# LOOK AT ME: raw memory write access
ifdef(`mcp_family',`
polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh55517)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in dopler SDK remove after
# CSCvm34516 is fixed using CSCvm34630
ifdef(`starfleet_platform',`
polaris_dev_mem_use(polaris_cm_fp_t)
')
"show platform hardware slot F0 eobc interface standby rmon" leads to
ioctl() call from cmlib_get_eobc_drv_info().
kernel_request_load_module(polaris_cm_fp_t)

# needed for "show platform hardware slot F0 eobc interface standby rmon"
kernel_read_network_state(polaris_cm_fp_t)

# on RP2/RP3 linecard cyan init happens within cm
ifdef(`mcp_family',`
polaris_dyncfg_setup(polaris_cm_fp_t)
')

allow polaris_cm_fp_t self:capability dac_override;
polaris_obfl_data_manage(polaris_cm_fp_t)

allow polaris_cm_fp_t self:netlink_route_socket rw_netlink_socket_perms;

ifdef(`ngwc_family',`
# cmfp_asic_mmap_func() function in cmfp module uses
#/dev/chdrvmmmap for asic memory mapping
polaris_chdrvmmmap_dev_use(polaris_cm_fp_t)

# on macallan cman_fp needs access to /dev/cisco/dplriomem
# for mappin dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_cm_fp_t);

# on macallan iomd needs access to /dev/cisco/fpgaiomem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapfpga_dev_use(polaris_cm_fp_t);
')

optional_policy(`
# Allow /dev/dmammap access
polaris_dmammap_dev_use(polaris_cm_fp_t)
')

# on starfleet need access to
#/sys/device/platform/cpld/reg_fan_control
polaris_cpld_write(polaris_cm_fp_t)

# /dev/shm/sdm access
optional_policy(`
polaris_sdm_shm_manage(polaris_cm_fp_t)
')

logging_send_syslog_msg(polaris_cm_fp_t)
optional_policy(`
polaris_epa_dev_use(polaris_cm_fp_t)
')

optional_policy(`
polaris_astro_dev_use(polaris_cm_fp_t)
')

optional_policy(`
polaris_cpp_il_dev_use(polaris_cm_fp_t)
')

optional_policy(`
polaris_dash_dev_use(polaris_cm_fp_t)
')

optional_policy(`
polaris_cpp_cavium_dma_map(polaris_cm_fp_t)
')

optional_policy(`
polaris_aikido_dev_use(polaris_cm_fp_t)
')

optional_policy(`
polaris_sirius_fpga_dev_use(polaris_cm_fp_t)
')

optional_policy(`
polaris_serdes_asic_key_tmp_manage(polaris_cm_fp_t)
')

type polaris_hkp_device_t;
dev_node(polaris_hkp_device_t)

optional_policy(`
polaris_spa_dev_use(polaris_cm_fp_t)
')

optional_policy(`
# access /dev/hkp
polaris_hkp_dev_use(polaris_cm_fp_t)

polaris_n2_dev_use(polaris_cm_fp_t)
polaris_cy2213_dev_use(polaris_cm_fp_t)
polaris_ddr_dev_use(polaris_cm_fp_t)
polaris_vega_dev_use(polaris_cm_fp_t)
')

polaris_firmware_read(polaris_cm_fp_t)

# allow access to /csl_p_0/vcpu_template.txt
polaris_iosd_vcpu_read(polaris_cm_fp_t)

# allow Cabo access to i2c semaphores
ifdef(`cabo_platform',`
  polaris_i2c_sem_manage(polaris_cm_fp_t)
')

ifdef(`sumatra_platform',`
  # access huron fpga on sumatra
  polaris_huron_dev_use(polaris_cm_fp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.te
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#
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#
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#
#
# polarisezmancc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.fc
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#
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#
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#
policy_module(polarisripc, 1.0);

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisripc.te
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#
#
# polarisripc file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisripc.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl divert(-1)

include(`polaris_process.m4')
include(`polaris_process_fc.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_fc.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_fc.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_fc.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',"")
define(`polaris_cipc_service_server',"")

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_fc.m4
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#  
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#

policy_module(polarisstorage, 1.0);

###############################################################################
# Persistent storage policy
###############################################################################
attribute polaris_disk;

# Default disk types

type polaris_disk_bootflash_t;
polaris_disk_type(polaris_disk_bootflash_t)

type polaris_disk_varied_t;
polaris_disk_type(polaris_disk_varied_t)

type polaris_disk_harddisk_t;
polaris_disk_type(polaris_disk_harddisk_t)

type polaris_disk_csl_p_t;
polaris_disk_type(polaris_disk_csl_p_t)

type polaris_disk_csl_s_t;
polaris_disk_type(polaris_disk_csl_s_t)

type polaris_disk_objstore_t;
polaris_disk_type(polaris_disk_objstore_t)

type polaris_disk_crashinfo_t;
polaris_disk_type(polaris_disk_crashinfo_t)

type polaris_disk_license_t;
polaris_disk_type(polaris_disk_license_t)

type polaris_disk_ucode_t;
polaris_disk_type(polaris_disk_ucode_t)

type polaris_disk_recovery_t;
polaris_disk_type(polaris_disk_recovery_t)

type polaris_disk_config_t;
polaris_disk_type(polaris_disk_config_t)

# Persistent files types
type polaris_system_report_t;
polaris_pfile_type(polaris_system_report_t)

type polaris_core_file_t;
polaris_pfile_type(polaris_core_file_t)

type polaris_debug_conf_t;
polaris_pfile_type(polaris_debug_conf_t)

type polaris_packages_conf_t;
polaris_pfile_type(polaris_packages_conf_t)

type polaris_grub_efi_t;
polaris_pfile_type(polaris_grub_efi_t)

# we label .ssh files residing on persistent storage as ssh_home_t
# and sshd_key_t
#
# below statement could/should be moved into ssh te file?
gen_require(
    type ssh_home_t;
type sshd_key_t;
')
polaris_disk_type(ssh_home_t)
polaris_disk_type(sshd_key_t)

# handling /bootflash directory - created by systemd unit, note normally
# something will be mounted on top of it, but in some cases like RP2 line
# cards it will be ramfs directory.
gen_require(
    type root_t;
type unconfined_service_t;
')
filetrans_pattern(unconfined_service_t, root_t, polaris_disk_bootflash_t, dir, "bootflash")

# nfds accesses different persistent storage directories and it needs getattr
gen_require(
    type nfds_t;
')
polaris_persistent_getattr(nfsd_t)

# on qwlc /misc/scratch symbolic link created by systemd-tmpfile, but then
# removed and recreated by harddisk mount systemd unit
gen_require('  
type unconfined_service_t;
  type mnt_t;
')
filetrans_pattern(unconfined_service_t, mnt_t, polaris_disk_bootflash_t, lnk_file, "scratch")

gen_require('  
type polaris_confd_t;
  type tmp_t;
')
filetrans_pattern(polaris_confd_t, tmp_t, polaris_packages_conf_t, file, "packages.conf")

# first time creation of /bootflash/core directory
gen_require('  
type initrc_t;
  type init_t;
')
filetrans_pattern({initrc_t init_t unconfined_service_t}, {polaris_disk_bootflash_t polaris_disk_harddisk_t} ,
polaris_core_file_t, dir, "core")

gen_require('  
type init_t;
')
files_tmp_filetrans(init_t, polaris_packages_conf_t, file, "packages.conf")

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.te
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#
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#
/usr/binos/conf/run_ioxn_gsd_ha.sh -- gen_context(system_u:object_r:polaris_gsd_rp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsrcdrp.fc
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#

/usr/cpp/bin/cpp_sp_svr -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svrLedp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_usLedp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_vwlc -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_vwlcLedp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.fc
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#

## <summary>Polaris Btrace Policy Rules.</summary>

# Btrace policy

### <summary>Manage btrace auxilary files</summary>

### <param name="domain">

### <summary>Domain allowed access.</summary>

### </param>

### <rolebase/>

# interface(`polaris_btrace_data_manage',

gen_require(`
type polaris_btrace_base_t;
type polaris_btrace_tmpfs_t;
type tmpfs_t;
`)`

manage_dirs_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)
# work with cache files and dirs under /tmp/tmppub, like /tmp/tmppub/libs_cache
polaris_btrace_tmppub_manage($1)

fs_tmpfs_filetrans($1, polaris_btrace_tmppub_t, file, "oper_uuid_shm")
manage_files_pattern($1, tmpfs_t, polaris_btrace_tmppub_t)
allow $1 polaris_btrace_tmppub_t:file map;
'}

#######################################
## <summary>
##      Manage temporary (not yet persistent) btrace files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#    interface('polaris_btrace_data_manage_all',
#
polaris_btrace_data_manage_all($1)

gen_require(
    attribute polaris_btrace_data_domain;
    type polaris_btrace_base_t;
')

manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
manage_lnk_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
allow $1 polaris_btrace_data_domain:file map;

# create temporary files in trace directory
manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)
manage_lnk_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)

# watch btrace data directory for changes
allow $1 polaris_btrace_base_t:dir watch;
')

#######################################
## <summary>
##      Manage btrace persistent files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <rolebase/>
#
# interface('polaris_btrace_persistent_data_read',
gen_require(''
    type polaris_btrace_data_t;
')

search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
read_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
')

####################################################################
## <summary>
##      Search btrace persistent files
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <rolebase/>
#
# interface('polaris_btrace_persistent_data_search',
gen_require(''
    type polaris_btrace_data_t;
')

manage_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
manage_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
')

####################################################################
## <summary>
##      Read btrace persistent files
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <rolebase/>
search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
)

#########################################################
## <summary>
##      Search tracelogs directions in bootflash, harddisk or crashinfo
## directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_btrace_search_tracelogs',`
gen_require(`
    type polaris_disk_harddisk_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_crashinfo_t;
')

    search_dirs_pattern($1, polaris_disk_harddisk_t, polaris_btrace_data_t)
    search_dirs_pattern($1, polaris_disk_bootflash_t, polaris_btrace_data_t)
    search_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_btrace_data_t)
)

#########################################################
## <summary>
##      Manage btrace boot level config files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_btrace_lvl_config_manage',`
 gen_require(`
    type polaris_btrace_lvl_config_t;
    type polaris_btrace_data_t;
')

    manage_dirs_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
    manage_files_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
    filetrans_pattern($1, polaris_btrace_data_t, polaris_btrace_lvl_config_t, dir, "level_config")
polaris_btrace_search_tracelogs($1)

polaris_disk_bootflash_read_lnk($1)
polaris_disk_harddisk_read_lnk($1)
polaris_disk_crashinfo_read_lnk($1)

')

###############################################################
##<summary>
## Read ldb_tmp btrace meta data files
##</summary>
##<param name="domain">
##<summary>
## Domain allowed access.
##</summary>
##</param>
##<rolebase/>
#
interface('polaris_btrace_ldb_tmp_read',
  gen_require(''
  type polaris_ldb_tmp_t;
  ')

  read_files_pattern($1, polaris_ldb_tmp_t, polaris_ldb_tmp_t)
')

###############################################################
##<summary>
## Read and write all btrace or pman fifo file, used as
## standard input/output.
##</summary>
##<param name="domain">
##<summary>
## Domain allowed access.
##</summary>
##</param>
##<rolecap/>
#
interface('polaris_use_btrace_fifo',
  gen_require(''
  type polaris_fifo_stdout_t;
  ')

  allow $1 polaris_fifo_stdout_t:fifo_file { rw_term_perms lock append create unlink getattr };

# For pmanlite, allow pmans grand-children to be able to operate on
# pipe created by pman.
polaris_use_pman_fifo($1)
')

'**************************************************************************************************
## <summary>
## Execute create_luid_file_db in the its domain.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
# interface('polaris_create_ldb_domtrans',
#    gen_require(
#      type polaris_create_ldb_t, polaris_create_ldb_exec_t;
#    )
#)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_create_ldb_exec_t, polaris_create_ldb_t)
')

'**************************************************************************************************
## <summary>
## Make the specified type usable as btrace data file type.
## </summary>
## <param name="type">
## <summary>
## Type to be used for files.
## </summary>
## </param>
#
# interface('polaris_btrace_data_type',
#    files_type($1)
#    gen_require(
#      attribute polaris_btrace_data_domain;
#    )
#    typeattribute $1 polaris_btrace_data_domain;
#)

'**************************************************************************************************
## <summary>
## Process to manage its own btrace files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </summary>
manage_files_pattern($1, polaris_btrace_base_t, $2)
manage_lnk_files_pattern($1, polaris_btrace_base_t, $2)
filetrans_pattern($1, polaris_btrace_base_t, $2, { file lnk_file })

# all clients check for /tmp/rp/trace/publish/timed/enabled control
# file presence, created by btman, may need its own type
getattr_files_pattern($1, polaris_btrace_base_t, polaris_btman_bt_t)

allow $1 $2:file map;

interface('polaris_btrace_data_client_template','
attribute polaris_btrace_data_domain;
type polaris_btrace_base_t;
')

type polaris_$1_bt_t;

topolis_btrace_data_type(polaris_$1_t, polaris_$1_bt_t)
Find in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.if
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# July 2017, Victor Kamensky
policy_module(polaristamsrp, 1.0);

gen_require('  
    type polaris_tams_rp_t;
')

polaris_btrace_data_manage(polaris_tams_rp_t)
polaris_crft_data_manage(polaris_tams_rp_t)
polaris_chasfs_manage(polaris_tams_rp_t)
polaris_tdlresolve_read(polaris_tams_rp_t)
polaris_tdldb_list_dirs(polaris_tams_rp_t)
polaris_flashlib_read(polaris_tams_rp_t)
polaris_cpld_read(polaris_tams_rp_t)

polaris_ripc_sman_ui_serv_connect(polaris_tams_rp_t)

policy_module(polarisiomd, 1.0);

gen_require('  
    type polaris_iomd_t;
')

polaris_btrace_data_manage(polaris_iomd_t)
polaris_crft_data_manage(polaris_iomd_t)
polaris_chasfs_manage(polaris_iomd_t)
polaris_tdlresolve_read(polaris_iomd_t)
polaris_tdldb_list_dirs(polaris_iomd_t)
polaris_flashlib_read(polaris_iomd_t)

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22324
polaris_ripc_sman_ui_serv_connect(polaris_iomd_t)

polaris_db_tldb_dir_use(polaris_iomd_t)

polaris_dyncfg_tmp_read(polaris_iomd_t)

optional_policy(
    polaris_spa_dev_use(polaris_iomd_t)
)

# allow objstore access
polaris_disk_objstore_read(polaris_iomd_t)

polaris_ngio_dev_use(polaris_iomd_t)

# deals with /dev/shm files semaphors; like uuid_sem semaphore
# created by btrace_get_uuid function
type polaris_iomd_tmpfs_t;
files_tmpfs_file(polaris_iomd_tmpfs_t)
fs_tmpfs_filetrans(polaris_iomd_t, polaris_iomd_tmpfs_t, file)
manage_files_pattern(polaris_iomd_t, tmpfs_t, polaris_iomd_tmpfs_t)
# sem_open through where_is_shmfs does stat on /dev/shm
fs_getattr_tmpfs(polaris_iomd_t)

#allow /dev/i2c device file
polaris_i2c_use(polaris_iomd_t)

ifdef(`ngwc_family',`

# On Macallan platforms the following api call from iomd process,
# ngmodslot_is_upper_sup_present() does a read access of /dev/cpld
polaris_cpld_dev_read(polaris_iomd_t)
polaris_cpld_dev_use(polaris_iomd_t)

#allow cpp tmp file
polaris_cpp_tmp_files_use(polaris_iomd_t)

# In Macallan cards which use Doppler ASIC,
# IOMD module uses ngmod_doppler_mmap() api to get hold of
# MMapped Asic address. As part of the operation it uses
# /dev/chdrvmmmap device.
polaris_chdrvmmmap_dev_use(polaris_iomd_t)

# IOMD module invokes ASIC Scan functionality
# and calls asic_register_intr_handler () , which
# needs to access the doppler MSI devices
# /dev/lsi/Slot[0-9]*/Doppler[0-9]/Group[0-9]
polaris_dplr_dev_use(polaris_iomd_t)

# but above still not enough at some point

# device like /dev/hsi/Slot8/Doppler0/Group0 still
# considered as device_t, not clear need to look a bit more
dev_read_generic_chr_files(polaris_iomd_t)

# on macallan iomd needs access to /dev/cisco/dplriomem
# for mapping dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_iomd_t);

# IOMD calls ngmod_obfl_errmssg_app_init() to initialize
# OBFL.
polaris_obfl_data_manage(polaris_iomd_t)

# IOMD fast path code invokes ngmod_fastpath_thread_func(),
# which increases the scheduler priority.
allow polaris_iomd_t self:capability sys_nice;
allow polaris_iomd_t self:process setsched;

# on macallan iomd needs access to /dev/cisco/fpgaiomem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapfpga_dev_use(polaris_iomd_t);

optional_policy(
    # ASIC related mmap code in IOMD needs to acces PCI scan related
    # rescan shm mutex
    polaris_cm_cc_tmpfs_manage(polaris_iomd_t)
)

# both utah and macallan text relocations in libccpp_common_os.so
ifdef('crankshaft_family',
polaris_icc_broken_relocations(polaris_iomd_t)
# Nightwatch switch module needs to access the doppler devices
polaris_dplr_dev_use(polaris_iomd_t)
dev_read_generic_chr_files(polaris_iomd_t)
allow polaris_iomd_t self:capability sys_nice;
allow polaris_iomd_t self:process setsched;
)

optional_policy(
    # Allow /dev/dmammap access
    polaris_dmammap_dev_use(polaris_iomd_t)
)

optional_policy(
    # on starfleet access gettysburg_fpga
    polaris_gettysburg_fpga_dev_use(polaris_iomd_t)
)

type polaris_iomd_tmp_t;
files_tmp_file(polaris_iomd_tmp_t)
manage_dirs_pattern(polaris_iomd_tmp_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_files_pattern(polaris_iomd_tmp_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_fifo_files_pattern(polaris_iomd_tmp_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)

# on macallan MRVL88X5113_DRV_PRINT macro outputs into /tmp/mrvl88x5113.log file
files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, file, "mrvl88x5113.log")

logging_send_syslog_msg(polaris_iomd_t)

ifdef(`ngwc_family',`
# from in115050_test_app_thread_create in
# drivers/userspace/inphi/dev_ephy_in115050/src/dev_ephy_in115050.c
# For macallan in115025_test_app_thread_create in
# drivers/userspace/inphi/dev_ephy_in115025/src/dev_ephy_in115025.c
files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, dir, "test_inphi")

# In case of starfleet fixed the following module creates folder in /tmp
# /drivers/userspace/mrvl_phy/dev_ephy_mrvl88ec808/src/dev_ephy_m88ec808.c
files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, dir, "test_mrvlphy")

#allow access to /tmp/serdes_asic_key_dir as this path is used both by
#cman_fp for programming DPP serdes and IOMD for programming n/w serdes
optional_policy(`
polaris_serdes_asic_key_tmp_manage(polaris_iomd_t)
')

#Doppler E mac creates lockfiles with names following
#the pattern /tmp/nug_asic_key_dir/nug_asic_key_[0-9]_[0-9]_[0-9]
files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, dir, "nug_asic_key_dir")

#Doppler ES mac creates lockfiles with names following
#the pattern /tmp/rmt_asic_key_dir/rmt_asic_key_[0-9]_[0-9]_[0-9]
files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, dir, "rmt_asic_key_dir")

# from etopus_spawn_serdes_tool_thread in
# binos/platforms/ngwc/doppler_sdk/drivers/serdes/Vendor/src/etopus_serdes.c
files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, dir, "test_etp")

#on starfleet access /dev/cpld, in iomd_starfleet_create_mmap()
polaris_cpld_dev_use(polaris_iomd_t)
'

optional_policy(`
polaris_ngwc_itfpo_manage(polaris_iomd_t)
')
# ngio device
type polaris_ngio_device_t;
dev_node(polaris_ngio_device_t)

#For NGIO modules iomd uses netlink socket (via backplane switch)
allow polaris_iomd_t self:netlink_socket { bind create };

ifdef(`sumatra_platform`,
#on Sumatra access /dev/cpld from iomd
polaris_cpld_dev_use(polaris_iomd_t)
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_iomd_t)
polaris_sumatra_doppler_dev_use(polaris_iomd_t)

#access SERDES /tmp/serdes_asic_key_dir/*
polaris_serdes_asic_key_tmp_manage(polaris_iomd_t)

# access /dev/huron_fpga
polaris_huron_dev_use(polaris_iomd_t)

# manage "sysctl_i2c.lck"
gen_require(
     type polaris_cm_rp_tmp_t;
)
files_tmp_filetrans(polaris_iomd_t, polaris_cm_rp_tmp_t, file, "sysctl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_iomd_t)

# comm="iomd" kmod="netdev-bp246"
kernel_request_load_module(polaris_iomd_t)

# work with /sys/devices/i2c-15/15-0076/...
dev rw_sysfs(polaris_iomd_t)

)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define(`polaris_lipc_service_server_many',
    `ifelse($3, ``,
        polaris_lipc_create_name(dollarsone, $1, "$2"),
        polaris_lipc_create_name(dollarsone, $1, "$2-b\$3")
    )
)
define(`polaris_lipc_service_server',`dnl

ifelse($3, 0, `polaris_lipc_create_name(dollarsone, $1, "$2")', `polaris_lipc_service_server_many($1, $2, eval($3 - 1))'))

define(`polaris_lipc_service_server_aux',`dnl

########################################
## <summary>
##	Create $2 lipc chanell.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
## </summary>
## </param>
## <param name="server">
##	<summary>
##	Domain of owner of lipc channel.
## </summary>
## </param>
## <infoflow type="none"/>
#
interface(``polaris_lipc_$1_create_name'',``
gen_require(`
type $2;
'
$3
"
")

########################################
## <summary>
##	Write $2 lipc chanell.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
## </summary>
## </param>
## <param name="server">
##	<summary>
##	Domain of owner of lipc channel.
## </summary>
## </param>
## <infoflow type="none"/>
#
interface(``polaris_lipc_$1_write'',``
gen_require(`
type $2;
'
')
polaris_lipc_write(dollarsone, $2, dollarstwo)
"
')

')

define(`polaris_lipc_service_server',`dnl
polaris_lipc_service_server_aux(lipc_stem($1), lipc_label($1),
polaris_lipc_service_server_many(lipc_label($1), $5, max_scope_map($3, $4, $2)))

define('polaris_lipc_service_client', ')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_if.m4
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# # March 2017, Victor Kamensky
# # Copyright (c) 2017-2021 by Cisco Systems, Inc.
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#

policy_module(polarisncd, 1.0);

gen_require(' type polaris_ncd_t;
')

# allow ntcp transition in its own domain when started by ncd
ntp_domtrans_ntpdate(polaris_ncd_t)

corecmd_exec_bin(polaris_ncd_t)
corecmd_exec_shell(polaris_ncd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_ncd_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ncd_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ncd_t)

# work with /tmp files (/tmp/ncd)
type polaris_ncd_tmp_t;
files_tmp_file(polaris_ncd_tmp_t)
manage_dirs_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)
manage_files_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)
manage_fifo_files_pattern(polaris_ncd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, file)

# create /tmp/ncd and /tmp/etc/ncd_work_dir directories
gen_require(' type polaris_etc_t;
)

manage_dirs_pattern(polaris_ncd_t, { tmp_t polaris_etc_t }, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, dir, "ncd")
# /tmp/etc/ncd_work_dir
filetrans_pattern(polaris_ncd_t, polaris_etc_t, polaris_ncd_tmp_t, dir, "ncd_work_dir")

# work with /tmp/ncd/inot_fifo
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, fifo_file, "inot_fifo")
manage_fifo_files_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)

# allow sntp to read out fifo file
gen_require(
    type ntpd_t;
)
read_fifo_files_pattern(ntpd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)

# work with /tmp/ufs directory. the ufs directory can be created
# by both polaris_ncd_t and udev_t subjects (depending upon platform
# logic)
gen_require(
    type udev_t;
    type unconfined_service_t;
)
files_tmp_filetrans( { polaris_ncd_t udev_t unconfined_service_t }, polaris_ncd_tmp_t, dir, "ufs")

polaris_btrace_data_manage(polaris_ncd_t)
polaris_chasfs_manage(polaris_ncd_t)
polaris_cpld_read(polaris_ncd_t)
polaris_proc_rmonbifo_read(polaris_ncd_t)
polaris_rmonbifo_tmp_read(polaris_ncd_t)
polaris_boot_tmp_read(polaris_ncd_t)
polaris_disk_crashinfo_getattr(polaris_ncd_t)
polaris_disk_bootflash_read_lnk(polaris_ncd_t)
polaris_flashlib_lock(polaris_ncd_t)
polaris_flashlib_read(polaris_ncd_t)
polaris_read_debug_conf(polaris_ncd_t)
polaris_read_packages_conf(polaris_ncd_t)
brctl_domtrans(polaris_ncd_t)
sysnet_domtrans_ifconfig(polaris_ncd_t)

# ncd.sh invokes ifup which in turn is calling dhclient
sysnet_domtrans_dhcpc(polaris_ncd_t)

type polaris_ncd_etc_t;
files_config_file(polaris_ncd_etc_t)
gen_require(
    attribute domain;
files_etc_filetrans(domain, polaris_ncd_etc_t, file, "mount_data")
manage_dirs_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)
manage_files_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)

# runs exportsfs command
rpc_read_exports(polaris_ncd_t)
rpc_write_exports(polaris_ncd_t)
rpc_manage_nfs_state_data_dir(polaris_ncd_t)
rpc_manage_nfs_state_data(polaris_ncd_t)
fs_rw_nfsd_fs(polaris_ncd_t)
kernal_rw_rpc_sysctls(polaris_ncd_t)
fs_getattr_xattr_fs(polaris_ncd_t)

# reloads xinetd@/tmp/etc/xinetd.conf.consolidated.service and
# systemctl reload xinetd_brelay@eobc.service
systemd_exec_systemctl(polaris_ncd_t)
systemd_reload_all_services(polaris_ncd_t)
systemd_status_all_unit_files(polaris_ncd_t)

polaris_chvrf_domtrans(polaris_ncd_t)

# ncd process calls ifconfig and route and mcp_chvrf

gen_require(')
    type polaris_chvrf_t;
')
sysnet_domtrans_ifconfig(polaris_chvrf_t)
allow polaris_chvrf_t self:capability net_admin;
allow polaris_chvrf_t self:udp_socket { create ioctl };
allow polaris_ncd_t self:process setpgid;

polaris_persistent_getattr(polaris_ncd_t)

# access to /etc/sysconfig/network-scripts
sysnet_read_config(polaris_ncd_t)

fs_getattr_tmpfs(polaris_ncd_t)

# manage file under /tmp/etc/ncd_work_dir

gen_require(')
    type initrc_tmp_t;
    type initrc_t;
')
filetrans_pattern(polaris_ncd_t, initrc_tmp_t, polaris_ncd_tmp_t, dir, "ncd_work_dir")
polaris_ncd_tmp_manage(polaris_ncd_t)

# /tmp/root/loopback is created by initrc_t but managed by ncd.sh.
# dynamic label directory "/tmp/root/loopback" as polaris_ncd_tmp_t
files_tmp_filetrans(initrc_t, polaris_ncd_tmp_t, dir, "loopback")

# flashutil has wrong file permission
allow polaris_ncd_t self:capability { dac_override sys_resource }

# access to /tmp/etc/xinetd.conf.consolidated
init_read_script_tmp_files(polaris_ncd_t)

allow polaris_ncd_t self:capability net_admin;

# search/getattr of /tmp/udev/etc/udev
polaris_udev_tmp_list_dirs(polaris_ncd_t)

# ncd calls mount to handle nfs directories
mount_domtrans(polaris_ncd_t)

#rsync_exec(polaris_ncd_t)
gen_require(
    type rsync_t;
    type rsync_tmp_t;
)
rsync_entry_domtrans(polaris_ncd_t, rsync_t)
allow rsync_t polaris_ncd_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t polaris_ncd_t:fifo_file write;
# PLEASE LOOK AT ME: problably /tmp/rp/active_epoch deserves its own type
# /tmp/rp/active_epoch on its way to /tmp/chassis/local/rp/chasfs/rp/0/0/epoch
manage_files_pattern(polaris_ncd_t, rsync_tmp_t, rsync_tmp_t)

# creates files under /tmp/udev/etc/udev/
polaris_udev_tmp_manage(polaris_ncd_t)
allow polaris_ncd_t self:process setfscreate;

# run /sbin/hwclock in its own domain
clock_domtrans(polaris_ncd_t)
# stdin file descriptor leak when hwclock started
gen_require(
    type hwclock_t;
)
allow hwclock_t polaris_ncd_tmp_t:fifo_file read;

ifdef(`ngwc_family',`

polaris_getattr_filesystem_disk_ucode(polaris_ncd_t)
`
)

# update /tmp/etc/xinetd.conf.consolidated file
polaris_etc_append(polaris_ncd_t)

# ncd.sh adds entries to /etc/exports file
gen_require(`
    type etc_t;
append_files_pattern(polaris_ncd_t, etc_t, etc_t)

# create and write into /tmp/unifiedfs/unifiedfs_log
manage_files_pattern(polaris_ncd_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)

polaris_ncd_rpcinfo_net(polaris_ncd_t)

# accessing /mnt/usb0
fs_search_removable(polaris_ncd_t)
polaris_getattr removable(polaris_ncd_t)
polaris_getattr removable(polaris_ufs_helper_t)

# ncd.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
# write/create to "/sys/module/nfs/parameters/nfs4_unique_id"
dev_rw_sysfs(polaris_ncd_t)
dev_manage_sysfs_dirs(polaris_ncd_t)
gen_require(`
    type sysfs_t;
`)
create_files_pattern(polaris_ncd_t, sysfs_t, sysfs_t)

# ps needs access to proc_t
kernel_read_system_state(polaris_ncd_t)

# send signal to ntpd
ntp_signal(polaris_ncd_t)

# ncd.sh executes hostname
hostname_exec(polaris_ncd_t)

# ncd.sh runs mcp_trace_request.sh
polaris_trace_request_domtrans(polaris_ncd_t)

# handling /usr/binos/conf/iosd_console_attach.sh
polaris_utility_domain_template(console_attach)
polaris_bexecute_domain(polaris_console_attach_t, polaris_console_attach_exec_t)
corecmd_exec_bin(polaris_console_attach_t)
auth_use_nsswitch(polaris_console_attach_t)

# execute ping over liin: usr/binos/conf/mcp_chvrf.sh liin /bin/ping -c 1 -w 300 192.168.1.6
polaris_chvrf_domtrans(polaris_console_attach_t)
# from chvrf.sh code executes ping command

gen_require('  type polaris_chvrf_t;
  ')
netutils_domtrans_ping(polaris_chvrf_t)
# send sigchld when it is done

gen_require('  type ping_t;
  ')
allow ping_t polaris_console_attach_t:process sigchld;

polaris_boot_tmp_read(polaris_console_attach_t)
polaris_btrace_data_manage(polaris_console_attach_t)
polaris_chasfs_read(polaris_console_attach_t)
polaris_cpld_read(polaris_console_attach_t)
polaris_disk_bootflash_search(polaris_console_attach_t)
polaris_disk_crashinfo_getattr(polaris_console_attach_t)
polaris_ncd_tmp_read(polaris_console_attach_t)
polaris_ncd_debug_conf(polaris_console_attach_t)
polaris_rmonbifo_tmp_read(polaris_console_attach_t)
polaris_use_btrace_fifo(polaris_console_attach_t)

# read /proc/cmdline
kernel_read_system_state(polaris_console_attach_t)

# read /tmp/myhostname file
polaris_hm_tmp_read(polaris_console_attach_t)

telnet_use_ptys(polaris_console_attach_t)

allow polaris_console_attach_t self:capability sys_resource;
allow polaris_console_attach_t self:process setrlimit;

# getty starts /usr/binos/conf/iosd_console_attach.sh through brelay

gen_require('  type getty_t;
  ')
polaris_bconsole_domtrans(getty_t)

# console_attach.sh start btelnet.sh over chvrf and bexecute

gen_require('  type polaris_bexecute_t;
  ')
allow polaris_bexecute_t polaris_console_attach_t:process sigchld;
corennet_tcp_connect_telnetd_port(polaris_bexecute_t)

# handling /usr/binos/conf/unifiedfs/unifiedfs_helper.sh
polaris_utility_domain_template(ufs_helper)

corecmd_exec_bin(polaris_ufs_helper_t)
aUTH_use_nsswitch(polaris_ufs_helper_t)

# rsync calls unifiedfs_helper.sh
gen_require(
    type rsync_t;
    )
polaris_ufs_helper_domtrans(rsync_t);

# unifiedfs_helper.sh calls mount to handle nfs directories
mount_domtrans(polaris_ufs_helper_t)

# creates files under /tmp/udev/etc/udev/
polaris_udev_tmpmanage(polaris_ufs_helper_t)

polaris_disk_bootflash_search(polaris_ufs_helper_t)
polaris_ncd_tmpmanage(polaris_ufs_helper_t)
polaris_ncd_etc_read(polaris_ufs_helper_t)

# stat over /tmp/ufs/crashinfo/10.1.1.1
polaris_disk_crashinfo_getattr(polaris_ufs_helper_t)

# unifiedfs_helper.sh creates /tmp/unifiedfs and manages underlying dirs
type polaris_ufs_tmp_t;
files_tmp_file(polaris_ufs_tmp_t)
files_tmp_filetrans(polaris_ufs_helper_t, polaris_ufs_tmp_t, { file } dir )
manage_dirs_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_lnk_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)

# Required for /tmp/unifiedfs access on vWLC
ifdef( `vwlc_platform',
    files_tmp_filetrans(unconfined_service_t, polaris_ufs_tmp_t, dir, "unifiedfs")
)'

polaris_netc_rpcinfo_net(polaris_ufs_helper_t)
polaris_persistent_getattr(polaris_ufs_helper_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_ufs_helper_t)

# ncd.sh read, search, open, creates, add_name and writes to /proc/hanet/tun_local_ip
gen_require(
    type polaris_hanet_proc_t;
    type proc_t;
manage_files_pattern(polaris.ncd.t, polaris.hanet.proc.t, polaris.hanet.proc.t)
allow polaris.hanet.proc.t proc.t:filesystem associate;

allow polaris.ufs.helper.t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.te
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dnl
May 2018, Manohar Hungund
dnl
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dnl
Starfleet Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 5)
max_bay_map_set(`fp', `per_bay', 5)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 6)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 6)
max_bay_ripc_map_set(`fp', `global', 1)

In elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/m4/starfleetmaps.m4
No license file was found, but licenses were detected in source scan.

# November 2020, Christine Hwang
#
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#

# Map BBU TTY to correct device context
/dev/ttyS2                       -c gen_context(system_u:object_r:polaris_bbu_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.fc

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# February 2018, Manohar Hungund
#
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#

## <summary>Polaris ACT2 Chip Device Access Policy Rules.</summary>
#
# ACT2 Chip Driver policy
#
## <summary>
## Work (read, write, ioctl) with /dev/act2
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_act2_dev_use',
  gen_require(`
    type device_t;
type polaris_act2_device_t;
  `)
  read_chr_files_pattern($1, device_t, polaris_act2_device_t)
  write_chr_files_pattern($1, device_t, polaris_act2_device_t)
)
Create /tmp/hw_entropy file. Certain platforms save entropy from main board ACT-2 chip in this file.

@summary

Domain allowed access.

@summary

Domain allowed access.

@summary

Use /tmp/hw_entropy file. For some reason, iosd opens file in rw mode, not clear why it couldn't just read it. Certain platforms save entropy from main board ACT-2 chip in this file.

@summary

Domain allowed access.

@summary

Read /tmp/hw_entropy file.

@summary
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_hw_entropy_read',
  gen_require('  
    type polaris_hw_entropy_t;
  ')
  
  read_files_pattern($1, tmp_t, polaris_hw_entropy_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisact2.if
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#
# April 2017, Victor Kamensky
#
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#

policy_module(polarisdmindbmand, 1.0);

gen_require('  
  type polaris_dmi_ndbmand_t;
  ')

polaris_btrace_data_manage(polaris_dmi_ndbmand_t)
polaris_crft_data_manage(polaris_dmi_ndbmand_t)
polaris_chasfs_manage(polaris_dmi_ndbmand_t)
polaris_tdlresolve_read(polaris_dmi_ndbmand_t)
polaris_tdldb_list_dirs(polaris_dmi_ndbmand_t)
polaris_cpld_read(polaris_dmi_ndbmand_t)
polaris_flashlib_read(polaris_dmi_ndbmand_t)
polaris_ripc_sman_ui_serv_connect(polaris_dmi_ndbmand_t)
polaris_db_tdldb_dir_use(polaris_dmi_ndbmand_t)

# work with NDBLOAD_LOCK_PATH
  type polaris_dmi_ndbutil_lock_t;
  files_tmp_file(polaris_dmi_ndbutil_lock_t)
polaris_ndbload_lock_use(polaris_dmi_ndbmand_t)

optional_policy('
allow polaris_dmi_ndbmand_t self:capability { dac_override dac_read_search sys_resource };

logging_send_syslog_msg(polaris_dmi_ndbmand_t)

# create ndbutil directory under /var/lock
polaris_confnd_ndbutil_create(polaris_dmi_ndbmand_t)

polaris_ndbutil_lock_template(polaris_dmi_ndbmand_t, ndbmand, ".l.schema_use.ndbmand")

polaris_confnd_shared_schema_watch(polaris_dmi_ndbmand_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.te
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#
# February 2020, Victor Kamensky
#
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#

policy_module(polarisomp, 1.0);

gen_require(`
  type polaris_omp_t;
`)

polaris_chasfs_manage(polaris_omp_t)
polaris_cpld_read(polaris_omp_t)
polaris_flashlib_read(polaris_omp_t)
polaris_tdlresolve_read(polaris_omp_t)
polaris_ripc_sman_ui_serv_connect(polaris_omp_t)
polaris_db_tdldb_dir_use(polaris_omp_t)

logging_send_syslog_msg(polaris_omp_t)

# vconfd_load_shared_schemas
polaris_confnd_shared_schema_read(polaris_omp_t)
# omp_daemon_init calls posix_sysconf
dev_read_sysfs(polaris_omp_t)

# reads /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset cpus
fs_read_cgroup_files(polaris_omp_t)

# vip_util_set_fd_limits set files limits
allow polaris_omp_t self:process setrlimit;

# omp connects to omp listener tcp port 17900
corenets_tcp_connect_polaris_omp_port(polaris_omp_t)
# vip_util_reset_ns opens /proc/1/ns/net
polaris_cedge_reset_ns(polaris_omp_t)
# vip_util_set_ns opens /var/run/etns/*
polaris_cedge_set_ns(polaris_omp_t)

#omp_peer_active_connect() binds to OMP address
corenets_tcp_bind_generic_node(polaris_omp_t)
allow polaris_omp_t self:tcp_socket { bind connect create getopt setopt };

# omp starts worker thread under CPU affinity
allow polaris_omp_t self:process setsched;

# connects to ttm unix domain socket in msgq_connect_timer
polaris_ttm_var_sock_write(polaris_omp_t)
# connects to ftm unix domain socket in msgq_connect_timer
polaris_ftm_var_sock_write(polaris_omp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomp.te
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#

## <summary>Polaris htx Policy Rules.</summary>

#################################################################
## <summary>
##      Manage polaris_htx_iox_tmp_t in /tmp/HTX-IOX.
## </summary>
## <param name="domain">

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```c
## Domain allowed access.
## </summary>
## </param>
interface('polaris_htx_iox_tmp_manage',
    gen_require(
        type polaris_htx_iox_tmp_t;
    
    )
manage_files_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)
manage_sock_files_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)
manage_dirs_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)

allow $1 polaris_htx_iox_tmp_t:dir watch;

allow $1 polaris_htx_iox_tmp_t:file map;
')

Send messages to htx unix datagram sockets.

```
```
interface('polaris_htx_dgram_send',
    gen_require(
        type polaris_htx_t;
    
    )
allow $1 polaris_htx_t:unix_dgram_socket sendto;
')

Work (read, write, ioctl) with /dev/sppi_memif device

```
```
interface('polaris_sppi_memif_dev_use',
    gen_require(
        type device_t;
type polaris_sppi_memif_device_t;

write_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)
read_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)

#######################################
## <summary>
## Work with /tmp/HTX-IOX/.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_htx_use_client_socket',
  gen_require(
    type polaris_htx_t;
  )
  allow $1 polaris_htx_t:unix_stream_socket connectto;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.if
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#
# July 2017, Victor Kamensky
#
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#

policy_module(polarisesgtamcfg, 1.0);

gen_require(
  type polaris_esg_tam_cfg_t;
)

polaris_btrace_data_manage(polaris_esg_tam_cfg_t)
polaris_chasfs_manage(polaris_esg_tam_cfg_t)
polaris_tdlresolve_read(polaris_esg_tam_cfg_t)
polaris_tddlb_list_dirs(polaris_esg_tam_cfg_t)
polaris_flashlib_read(polaris_esg_tam_cfg_t)

polaris_cpld_read(polaris_esg_tam_cfg_t)
allow polaris_esg_tam_cfg_t self:capability net_admin;
# handle /tmp/tam_cfg_done
type polaris_tam_tmp_t;
files_tmp_file(polaris_tam_tmp_t)
files_tmp_filetrans(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, dir, "tam_cfg_done")
manage_files_pattern(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, polaris_tam_tmp_t)
gen_require(
    type tmp_t;
')
manage_dirs_pattern(polaris_esg_tam_cfg_t, tmp_t, polaris_tam_tmp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.te
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#
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#
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#

policy_module(polarisfmanfp, 1.0);

gen_require(
    type polaris_fman_fp_t;
')
polaris_btrace_data_manage(polaris_fman_fp_t)
polaris_crft_data_manage(polaris_fman_fp_t)
polaris_chasfs_manage(polaris_fman_fp_t)
polaris_tdlresolve_read(polaris_fman_fp_t)
polaris_tdlodb_list_dirs(polaris_fman_fp_t)
polaris_cpld_read(polaris_fman_fp_t)
polaris_lua_read(polaris_fman_fp_t)
polaris_flashlib_read(polaris_fman_fp_t)
polaris_ripc_sman_ui_serv_connect(polaris_fman_fp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_fp_t)

#mqipc manual, one that missing in platform tdl file
#mq ipc manual, one that missing in platform tdl file

# mq.-iosd-thr-fmanrp-R0:0
# mq.-iosd-thr-fmanrp-1.R0:0
type polaris_iosd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_thr_fmanrp_mqipc_t)

# mq.-mobilityd-thr-fmanrp-1:R0:0
type polaris_mobilityd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_mobilityd_thr_fmanrp_mqipc_t)

# mq.-smd-thr-fmanrp-1:R0:0
type polaris_smd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_smd_thr_fmanrp_mqipc_t)

# mq.-wncd_0-thr-fmanrp-1:R0:0
type polaris_wncd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncd_thr_fmanrp_mqipc_t)

# mq.-wncmgrd_0-thr-fmanrp-1:R0:0
type polaris_wncmgrd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncmgrd_thr_fmanrp_mqipc_t)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-1:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-2:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-3:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-4:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-5:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-6:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-7:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-8:R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thrfmanrp_mqipc_t, mobilityd-thrfmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thrfmanrp_mqipc_t, mobilityd-thrfmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thrfmanrp_mqipc_t, mobilityd-thrfmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thrfmanrp_mqipc_t, mobilityd-thrfmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thrfmanrp_mqipc_t, mobilityd-thrfmanrp-R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thrfmanrp_mqipc_t, smd-thrfmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thrfmanrp_mqipc_t, smd-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thrfmanrp_mqipc_t, smd-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thrfmanrp_mqipc_t, smd-thrfmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thrfmanrp_mqipc_t, smd-thrfmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thrfmanrp_mqipc_t, smd-thrfmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thrfmanrp_mqipc_t, smd-thrfmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thrfmanrp_mqipc_t, smd-thrfmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thrfmanrp_mqipc_t, smd-thrfmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thrfmanrp_mqipc_t, smd-thrfmanrp-R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thrfmanrp_mqipc_t, wncmgrd-thrfmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thrfmanrp_mqipc_t, wncmgrd-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thrfmanrp_mqipc_t, wncmgrd-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thrfmanrp_mqipc_t, wncmgrd-thrfmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thrfmanrp_mqipc_t, wncmgrd-thrfmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thrfmanrp_mqipc_t, wncmgrd-thrfmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thrfmanrp_mqipc_t, wncmgrd-thrfmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thrfmanrp_mqipc_t, wncmgrd-thrfmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thrfmanrp_mqipc_t, wncmgrd-thrfmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thrfmanrp_mqipc_t, wncmgrd-thrfmanrp-R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-4:R0:0)

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polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-R1:0)

optional_policy(
  polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_2-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_2-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_3-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_3-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_4-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_4-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_5-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_5-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_6-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_6-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_7-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_7-thr-fmanrp-2:R0:0)
)
polaris_cpld_dev_use(polaris_fman_fp_t)

# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_fman_fp_t)
polaris_cpp_tmp_files_use(polaris_fman_fp_t)

optional_policy(
polaris_cpp_dev_use(polaris_fman_fp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_fman_fp_t)
)
polaris_persistent_manage(polaris_fman_fp_t)
polaris_icc_broken_relocations(polaris_fman_fp_t)

allow polaris_fman_fp_t self:capability dac_override;
allow polaris_fman_fp_t self:capability2 block_suspend;

# when /bootflash or /harddisk are 100% full
allow polaris_fman_fp_t self:capability sys_resource;

# write to devices like this /proc/bus/pci/04/00.0
kernel_read_system_state(polaris_fman_fp_t)
kernell_write_proc_files(polaris_fman_fp_t)
ifdef(`mcp_family',`
  polaris_cm_fp_tmp_filetrans(polaris_fman_fp_t)
polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
')

# LOOK AT ME: raw memory write access
ifdef(`mcp_family',`
  polaris_dev_mem_use(polaris_fman_fp_t)
')

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
  polaris_dev_mem_use(polaris_fman_fp_t)
')
polaris_dyncfg_tmp_read(polaris_fman_fp_t)

# /dev/qae_mem device access on overlord
optional_policy(`
  polaris_qae_dev_use(polaris_fman_fp_t)
')

# access to /dev/icp_XXX device on crankshaft platforms
optional_policy(`
    polaris_icp_dev_use(polaris_fman_fp_t)
')

# on qwlc work with /tmp/octeon-remote-lock-pci:0
ifdef(`qwlc_platform',`
  polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
')

ifdef(`katar_platform',`
  polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
')

optional_policy(`
  #fman-fp creates tmp files in acl-mgmt workflow.
polaris_fman_acl_iptbl_tmp_file(polaris_fman_fp_t)
')
polaris_iosd_vcpu_read(polaris_fman_fp_t)

# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_fman_fp_t)
fs_search_cgroup_dirs(polaris_fman_fp_t)
optional_policy(
  # Access /dev/cbdma
  polaris_cbdma_dev_use(polaris_fman_fp_t)
)

# Access /dev/n2_device
polaris_n2_dev_use(polaris_fman_fp_t)
')
polaris_cpp_tmpfs_manage(polaris_fman_fp_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

### <summary>Polaris wncmgrd Policy Rules.</summary>

########################################################################
### <summary>
### Read access to /bootflash/NACert.pem
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_read_icap_cert_file',
  gen_require(
    type polaris_icap_cert_t;
  )
  allow $1 polaris_icap_cert_t:file read_file_perms;
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.fc
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# polariskeyman file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.fc
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# polarisnvram file contexts place holder

# /3pa staff
/3pa/usr/(.*)?lib64/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/usr/(.*)?lib/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/(.*)?lib64/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/(.*)?lib/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/us/sbin/(.*)?bin/(.*)? -- gen_context(system_u:object_r:bin_t,s0)
/3pa/us/bin/libvirt_lxc -- gen_context(system_u:object_r:virtd_lxc_exec_t,s0)
/usr/lib/libvirt/libvirt_lxc -- gen_context(system_u:object_r:virtd_lxc_exec_t,s0)
/usr/sbin/libvirt_lxc -- gen_context(system_u:object_r:virtd_lxc_exec_t,s0)
/3pa/sbin/virtd -- gen_context(system_u:object_r:virtd_exec_t,s0)
/3pa/sbin/virtlogd -- gen_context(system_u:object_r:virtlogd_exec_t,s0)
/3pa/sbin/virsh -- gen_context(system_u:object_r:virsh_exec_t,s0)
/3pa/sbin/qemu.* -- gen_context(system_u:object_r:qemu_exec_t,s0)
/usr/binos/conf/libvirtd.sh -- gen_context(system_u:object_r:virtd_initrc_exec_t,s0)
/3pa/etc/libvirt/(.*)? -- gen_context(system_u:object_r:virt_etc_t,s0)
/3pa/etc/logrotate.d/(.*)? -- gen_context(system_u:object_r:etc_t,s0)

# should go into contrib/telnet.fc?
/usr/binos/sbin/in.telnetd -- gen_context(system_u:object_r:telnetd_exec_t,s0)

# load_crash_kernel.sh loads crash kernel - it should be executable
/crashkernel/load_crash_kernel.sh -- gen_context(system_u:object_r:bin_t,s0)

# /etc/lablogin.sh is executed during telnet login over management port
# it should be executable. Also having shell_exec_t label will allow it
# to transition into unconfined domain
/etc/lablogin.sh -- gen_context(system_u:object_r:shell_exec_t,s0)

# /etc/init.d/*functions files should be actually in bin_t domain, the same
# as /etc/init.d/functions. Note using /etc/rc.d/init.d/ instead of
# /etc/init.d/ because we have substitution rule in file_contexts.subs_dist
/etc/rc.d/init.d/binos_functions -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/binos_functions-pd -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/chasxml_functions -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/common-utility-functions -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/rh-functions -- gen_context(system_u:object_r:bin_t,s0)

# tftp directories
/tftp-d gen_context(system_u:object_r:tftpdir_rw_t,s0)
/tftp/*gen_context(system_u:object_r:tftpdir_rw_t,s0)

# /tmp/sw
/tmp/sw  -d gen_context(system_u:object_r:tmp_t,s0)
/tmp/rp  -d gen_context(system_u:object_r:tmp_t,s0)
/tmp/fp  -d gen_context(system_u:object_r:tmp_t,s0)
/tmp/cc  -d gen_context(system_u:object_r:tmp_t,s0)

# /tmp/etc
/tmp/etc  -d gen_context(system_u:object_r:polaris_etc_t,s0)

# /tmp/sv
/tmp/sv  -d gen_context(system_u:object_r:polaris_sv_tmp_t,s0)

# firmware files
/firmware(/.*)? gen_context(system_u:object_r:polaris_firmware_t,s0)
/upgrade(/.*)? gen_context(system_u:object_r:polaris_firmware_t,s0)
/golden(/.*)? gen_context(system_u:object_r:polaris_firmware_t,s0)
# CC card fpd files mark it as usr_t for now
/fpd(/.*)? -- gen_context(system_u:object_r:polaris_firmware_t,s0)

/tmp/debug\conf  -l gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/var/ODM/ios_core.p7b -- gen_context(system_u:object_r:etc_t,s0)

/dev/ddr  -c gen_context(system_u:object_r:polaris_ddr_device_t,s0)
/dev/i2c-[0-9]*  -c gen_context(system_u:object_r:polaris_i2c_device_t,s0)
# interpreter for CRDL 32bit IOSD setup proper memory map
/usr/binos/bin/crdl_mini_loader gen_context(system_u:object_r:ld.so_t,s0)

# firmware package mount point on asr1k platforms
/usr/binos/bin/crdl_mini_loader gen_context(system_u:object_r:ld.so_t,s0)

# Nutella EFI folder
/bootflash/EFI gen_context(system_u:object_r:efi_files_t,s0)

# for cat9k platform
/mnt/sd3/user/.USWAP gen_context(system_u:object_r:uswap_files_t,s0)

# for wlc awips feature
/bootflash/awips.json gen_context(system_u:object_r:awips_signature_file_t,s0)

# for wlc iot-gw feature to access /bootflash/certs dir
/bootflash/certs -d gen_context(system_u:object_r:ap_cert_file_t,s0)

# for curl - and allowing ip netns exec X curl
/usr/bin/curl --gen_context(system_u:object_r:curl_exec_t,s0)

# Katar WLC needs access to /tmp/ldwm_envelope
/tmp/ldwm_envelope -- gen_context(system_u:object_r:ldwm_envelope_tmp_t,s0)

# CLI: show platform software tech-support
/usr/binos/conf/platform_tech_support.sh -- gen_context(system_u:object_r:tech_support_exec_t,s0)
# Tamlib debug file
/bootflash/tamlib_dbg_log -- gen_context(system_u:object_r:polaris_tamlib_dbg_file_t,s0)

# crypsetup - some platforms copy crypsetup in /bin
/bin/cryptsetup -- gen_context(system_u:object_r:lvm_exec_t,s0)
/usr/bin/cryptsetup -- gen_context(system_u:object_r:lvm_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define(`polaris_process', `')

dnl

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_if.m4
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#
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#
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#

policy_module(polarisiptbl, 1.0);

########################################################################
# iptbl.sh manual
########################################################################

polaris_process_domain_template(iptbl)

corecmd_exec_bin(polaris_iptbl_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_iptbl_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_iptbl_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_id_so(polaris_iptbl_t)

# work with /tmp files
type polaris_iptbl_tmp_t;
files_tmp_file(polaris_iptbl_tmp_t)
manage_dirs_pattern(polaris_iptbl_tmp_t, tmp_t, polaris_iptbl_tmp_t)
manage_files_pattern(polaris_iptbl_tmp_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
manage_fifo_files_pattern(polaris_iptbl_tmp_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
files_tmp_filetrans(polaris_iptbl_tmp_t, polaris_iptbl_tmp_t, { file dir })

allow polaris_iptbl_t self:capability sys_resource;
allow polaris_iptbl_t self:process setpgid;

polaris_btrace_data_manage(polaris_iptbl_t)
polaris_cpfd_read(polaris_iptbl_t)
polaris_chasfs_manage(polaris_iptbl_t)
polaris_boot_tmp_read(polaris_iptbl_t)
polaris_rmonbifo_tmp_read(polaris_iptbl_t)
polaris_rmonbifo_getattr(polaris_iptbl_t)
polaris_rmonbifo_read(polaris_iptbl_t)
polaris_disk_crashinfo_getattr(polaris_iptbl_t)

# execute /etc/init.d/iptables in its own domain
iptables_initrc_domtrans(polaris_iptbl_t)

# LOOK AT ME iptbl.sh puts symbolic links into /sbin directory
# need to fix manifest instead, so it will be static
gen_require('type bin_t;')
manage_lnk_files_pattern(polaris_iptbl_t, bin_t, bin_t)

modutils_domtrans_insmod(polaris_iptbl_t)
iptables_domtrans(polaris_iptbl_t)

# iptbl.sh calls /etc/init.d/iptables restart and that needs
# read /proc/pid/net/ip_tables_names file
kernel_read_network_state(polaris_iptbl_t)
# creates /var/lock/subsys/iptables
type polaris_iptables_lock_t;
files_lock_file(polaris_iptables_lock_t)
manage_files_pattern(polaris_iptbl_t, polaris_iptables_lock_t, polaris_iptables_lock_t)
files_lock_filetrans(polaris_iptbl_t, polaris_iptables_lock_t, file)

# needs access to /run/netns as part of chvrf invocation
fs_read_nsfs_files(polaris_iptbl_t)
# iptbl.sh invokes iptable command which runs in iptables_t label and needs
# access to meta files created by iptbl.sh with label polaris_iptbl_tmp_t
allow iptables_t polaris_iptbl_tmp_t:fifo_file read_file_perms;
allow iptables_t polaris_iptbl_tmp_t:file read_file_perms;

# Allow /tmp/ufs/bootsflash & /tmp/ufs/harddisk read access
ifdef(`vwlc_platform',`
optional_policy(
polaris_ncd_tmp_read(polaris_iptbl_t)
')
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.te
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#

/usr/bin/bhytoolsd -- gen_context(system_u:object_r:polaris_bhytoolsd_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.fc
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#
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#
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#

policy_module(polarisautoupgrade, 1.0);

gen_require(
    type polaris_autoupgrade_t;
')

corecmd_exec_bin(polaris_autoupgrade_t)
corecmd_exec_shell(polaris_autoupgrade_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_autoupgrade_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_autoupgrade_t)
# allow to read /proc/meminfo
kernel_read_system_state(polaris_autoupgrade_t)

allow polaris_autoupgrade_t self:capability { sys_resource dac_override }
allow polaris_autoupgrade_t self:process setpgid;

polaris_tldldb_list_dirs(polaris_autoupgrade_t)

polaris_btrace_data_manage(polaris_autoupgrade_t)
polaris_chasfs_manage(polaris_autoupgrade_t)
polaris_cpld_read(polaris_autoupgrade_t)
polaris_proc_rmonbifo_read(polaris_autoupgrade_t)
polaris_rmonbifo_tmp_read(polaris_autoupgrade_t)
polaris_boot_tmp_manage(polaris_autoupgrade_t)
polaris_read_debug_conf(polaris_autoupgrade_t)
polaris_disk_crashinfo_getattr(polaris_autoupgrade_t)

type polaris_autoupgrade_tmp_t;
files_tmp_file(polaris_autoupgrade_tmp_t)
# /tmp/etc/installer
gen_require(
    type polaris_etc_t;
)
filetrans_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t, dir, "installer")
manage_fifo_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_dirs_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t)
manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)

# Allow access to bootflash
polaris_bootflash_read(polaris_autoupgrade_t)

# Allow access to packages.conf
polaris_read_packages_conf(polaris_autoupgrade_t)

# needs to run pidof
dev_read_sysfs(polaris_autoupgrade_t)
kernl_read_system_state(polaris_autoupgrade_t)
domain_read_domain_state(polaris_autoupgrade_t)

# send syslog
logging_send_syslog_msg(polaris_autoupgrade_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_autoupgrade_t)
gen_require(
    type rsync_t;
)
allow rsync_t polaris_autoupgrade_t:process sigchld;

# /tmp/ufs/crashinfo access
optional_policy('polaris_ncl_tmp_read(polaris_autoupgrade_t)')

# autoupgrade script in case of HA setup invokes brelay to trigger install of stand-by
polaris_bexecute_domtrans(polaris_autoupgrade_t)

polaris_flashlib_lock(polaris_autoupgrade_t)
polaris_flashlib_read(polaris_autoupgrade_t)
polaris_disk_install_read(polaris_autoupgrade_t)
polaris_install_engine_domtrans(polaris_autoupgrade_t)

#add transition to create /var/installer by autoupgrade
type polaris_autoupgrade_var_t;
files_tmp_file(polaris_autoupgrade_var_t)
files_var_filetrans(polaris_autoupgrade_t, polaris_autoupgrade_var_t, {file dir})
gen_require('
    type polaris_autoupgrade_exec_t;
')

#add transition to create /var/installer/auto_upgrade_helper.sh by autoupgrade
filetrans_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_exec_t, file, "auto_upgrade_helper.sh")
manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_var_t)
manage_dirs_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_var_t)

#add transition to create files/dir in /tmp
files_tmp_filetrans(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, {file dir})

# access to /tmp/installer
polaris_install_tmp_manage(polaris_autoupgrade_t)
fs_getattr_tmpfs(polaris_autoupgrade_t)

# access to /tmp/rsync_log_dir
polaris_manage_rsync_tmplog_dir(polaris_autoupgrade_t)

# access to /harddisk link (accessed by flashutil and rotee call)
polaris_disk_harddisk_read_lnk(polaris_autoupgrade_t)
rsync_entry_domtrans(polaris_chvrf_t, rsync_t)

gen_require('
    type polaris_autoupgrade_t;
    type polaris_autoupgrade_exec_t;
rsync_entry_domtrans(polaris_autoupgrade_t, rsync_t)
polaris_bexecute_domain(polaris_autoupgrade_t, polaris_autoupgrade_exec_t)

fs_getattr_xattr_fs(polaris_autoupgrade_t)

# auto_upgrade_helper.sh creates /var/installer/auto_upgrade_helper.sh
allow polaris_autoupgrade_t polaris_autoupgrade_exec_t:file { create setattr write }

# rsync operations for members and standby rps on autoupgrade
gen_require(
    type rsync_port_t;
')
allow polaris_autoupgrade_t rsync_port_t:tcp_socket name_connect;

# rsync requires to relabel /var/installer/auto_upgrade_helper.sh on standby
gen_require(
    type var_t;
')
allow rsync_t var_t:file relabelfrom;
allow rsync_t polaris_autoupgrade_exec_t:file relabelto;

# access to /vol/harddisk/*.pkg
polaris_getattr_file_harddisk(polaris_autoupgrade_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_autoupgrade_t)
polaris_getattr_file_harddisk(polaris_autoupgrade_t)

# auto_upgrade_client.sh access to "/tmp/sw/rp/0/0/rp_base/mount/bin/cut"
polaris_issu_tmp_files_read(polaris_autoupgrade_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.te
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#
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#
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#
/usr/bin/os/conf/run_ioxn_caf.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)
/usr/bin/os/conf/iox_reset.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)
ifdef('nyquist_platform',

/usr/bin/os/conf/standby_ioxcfg.sh -- gen_context(system_u:object_r:polaris_sioxcd_rp_exec_t,s0)
/tmp/app_host(/.*)? gen_context(system_u:object_r:polaris_sioxcd_rp_tmp_t,s0)
/mnt/sd3/iox_alt_hdd.dsk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir(/.*)? gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/caf(/.*)? gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/guest_share(/.*)?

ifdef('passport_platform',

/flash1/iox_alt_hdd.dsk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/flash1/iox_alt_hdd_mount_dir(/.*)? gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/caf(/.*)? gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/guest_share(/.*)?

gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/flash1/user/gs_script/sss(/.*)? gen_context(system_u:object_r:polaris_iox_ss_disk_t,s0)
/usr/bin/os/conf/standby_ioxcfg.sh gen_context(system_u:object_r:polaris_sioxcd_rp_exec_t,s0)
/tmp/app_host(/.*)? gen_context(system_u:object_r:polaris_sioxcd_rp_tmp_t,s0)

')

# All possible accesses from /bootflash/iox_alt_hdd_mount_dir (iox_polaris.conf)
/bootflash/iox_alt_hdd.dsk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/bootflash/iox_alt_hdd_mount_dir(/.*)?

gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/bootflash/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/bootflash/iox_alt_hdd_mount_dir/caf(/.*)? gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/bootflash/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/bootflash/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)?

# All the possible IOX guestshell_dir from iox_polaris.conf
/guestshell(/.*)?(/.*)\.sh gen_context(system_u:object_r:polaris_guestshell_exec_t,s0)
/guestshell(/.*)? gen_context(system_u:object_r:polaris_guestshell_t,s0)

# All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf
/bootflash/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.if

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#

## <summary>Polaris cmm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.fc

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# polarisplogd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.fc

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#  
# March 2017, Victor Kamensky  
#  
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#  
## <summary>Polaris cmm Policy Rules.</summary>
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dnl

dnl April 2018, Victor Kamensky

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dnl divert(-1)

include(`polaris_process.m4')
include(`polaris_process_if.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_if.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_if.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_if.m4')


dnl Stub out non existent one
define(`polaris_websocket_service_server',`')
define(`polaris_cipc_service_server',`')

include(`polaris_max_scope.m4')

dlv(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
## <summary>Polaris Platform IPC Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_if.m4

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#
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#
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#

/tmp/.lndbutil-loadgen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)
/tmp/.lndbutil-use gen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)
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#
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#

/dev/cpp_vxe_rsrc -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_dev_info -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_kipc -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)

/dev/octeon_device -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_pdma -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/i95_[0-9]* -c gen_context(system_u:object_r:polaris_i95_device_t,s0)

/dev/shm/cpp_.* -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/seml.cpp_.* -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/seml.CPP_.* -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/seml.CGMP_SHM_SEM -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/cpp_ucode_dram -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/cpp_sbs_shm -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)

/mnt/huge/cpp_ucode_dram -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)

/tmp/cpp_ifdev_rep -p gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/tmp/cpp_ifdev_req -p gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/tmp/cpp_anon_db -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)

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# December 2019, Victor Kamensky
#
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#

policy_module(polarisservicemgr, 1.0);

gen_require("
type polaris_service_mgr_t

polaris_btrace_data_manager(polaris_service_mgr_t)
polaris_crft_data_manager(polaris_service_mgr_t)
polaris_chasfs_manager(polaris_service_mgr_t)
polaris_cpld_read(polaris_service_mgr_t)
polaris_flashlib_read(polaris_service_mgr_t)
polaris_lua_read(polaris_service_mgr_t)
polaris_tdlresolve_read(polaris_service_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_service_mgr_t)
polaris_db_tdlldb_dir_use(polaris_service_mgr_t)

# Use REPM MQIPC for replication
polaris_repm_peer_mqipc_manage(polaris_service_mgr_t)

# watches of /tmp/[rp|fp|cc]/pvp/process_state directory
polaris_process_state_watch(polaris_service_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisservicemgr.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarispvp, 1.0);

polaris_process_domain_template(pvp)

# transition to pman domain, once pman is invoked by pvp
polaris_pman_domtrans(polaris_pvp_t)

corecmd_exec_bin(polaris_pvp_t)
corecmd_exec_shell(polaris_pvp_t)
# can execute hostname in pvp domain
hostname_exec(polaris_pvp_t)
# can execute process in polaris domain
polaris_exec(polaris_pvp_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_pvp_t)
# allow to get getattr of /proc file system during find over it
kernel_getattr_proc(polaris_pvp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_pvp_t)

# all to read sysctl files in /proc directory
kernel_read_all_sysctls(polaris_pvp_t)

# work with /tmp files
  type polaris_pvp_tmp_t;
  files_tmp_file(polaris_pvp_tmp_t)
  manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_pvp_tmp_t)
  manage_files_pattern(polaris_pvp_t, tmp_t, polaris_pvp_tmp_t)
  manage_fifo_files_pattern(polaris_pvp_t, tmp_t, polaris_pvp_tmp_t)
  files_tmp_filetrans(polaris_pvp_t, tmp_t, polaris_pvp_tmp_t, { file dir })
  filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, dir, "pvp")

# /tmp/silent_roll_select.log handling on Macallan
filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, file, "silent_roll_select.log")

# work with /tmp/[rp|fp|cc]/pvp/process_state files
  type polaris_process_state_t;
  files_tmp_file(polaris_process_state_t)
  manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_process_state_t)
  manage_files_pattern(polaris_pvp_t, tmp_t, polaris_process_state_t)
  filetrans_pattern(polaris_pvp_t, tmp_t, polaris_process_state_t, dir, "process_state")

# LOOK AT ME now all polaris process can change each other process
# state. Need to fix it with more process specific labels in case
# when polaris_domain_process becomes template.
gen_require(
    "attribute polaris_domain;
"
)polaris_pvp_manage_process_state_files(polaris_domain)

allow polaris_pvp_t self:capability sys_resource;

# readlink access to /proc/<pid>/fd/0 triggers sys_ptrace capability need
allow polaris_pvp_t self:capability { sys_ptrace };

dmidecode_domtrans(polaris_pvp_t)

#on some ngwc pvp has to code-sign-verify silent roll packages
ifdef(`ngwc_family',`n
   polaris_code_verify_domtrans(polaris_pvp_t)
')

polaris_btrace_data_manage_all(polaris_pvp_t)
polaris_chasfs_manage(polaris_pvp_t)
polaris_cpld_read(polaris_pvp_t)
polaris_cpld_write(polaris_pvp_t)
polaris_proc_rmonbifo_read(polaris_pvp_t)
polaris_rmonbifo_tmp_read(polaris_pvp_t)
polaris_tdlldb_list_dirs(polaris_pvp_t)
polaris_boot_tmp_read(polaris_pvp_t)
polaris_read_debug_conf(polaris_pvp_t)

# LOOK AT ME pvp.sh runs find over /proc. Needs access
# to state of all processes
domain_read_all_domains_state(polaris_pvp_t)

# pvp.sh can call logger command
logging_send_syslog_msg(polaris_pvp_t)

# should it not be moved to dmidecode module or better
# change script to call dmidecode with stdin redirected
# from /dev/null (i.e dmidecode < /dev/null)

   gen_require(`
       type dmidecode_t;
   ')
polaris_pvp_stdin_read(dmidecode_t)

# read pman tmp files
polaris_pman_read_tmp_files(polaris_pvp_t)

#allow polaris_pvp_t polaris_udev_tmp_files_t:dir { getattr search };
polaris_udev_tmp_list_dirs(polaris_pvp_t)

   gen_require(`
       type initrc_t;
       type init_t;
   ')
   #init_script_tmp_filetrans(initrc_t, polaris_pvp_tmp_t, file, "iosd_memory_share")
   files_tmp_filetrans({ initrc_t init_t }, polaris_pvp_tmp_t, file, "iosd_memory_share")
   polaris_systemd_tmpfiles_tmp_filetrans(polaris_pvp_tmp_t, dir, "max_elastic_bays")

# direct access to serial TTY devices like /dev/ttyS1
term_write_unallocated_ttys(polaris_pvp_t)

# For Cabo, allow access to GNSS device
ifdef(`cabo_platform',
  polaris_cabo_gnss_dev_use(polaris_pvp_t)
)

#![ on ultra pvp calls hv_ttyprobe utility to figure out what terminal
# to use as console, and this one need read access to terminal. There is
# no separate macro for read only. But since we granting write to everyone
# let use 'use' which means read/write
ifdef(`vxe_family',
  term_use_unallocated_ttys(polaris_pvp_t)
)
ifdef(`wlc_family',
  term_use_unallocated_ttys(polaris_pvp_t)
)
# pvp's linux_iosd_image_env.sh will check /dev/ttyUSB* ports with hv_ttyprobe too.
term_use_usb_ttys(polaris_pvp_t)

# allow access and modify files in /tftp directory, cannot use tftp_manage_rw_content
# since it does not cover link files
gen_require(`
  type tftpdir_rw_t;
  manage_dirs_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
  manage_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
  manage_lnk_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
)

# ASR1K modular platforms create /tftp/inv/inventory_$fru_$slot.bin
# /tftp/inv is not a softlink but a directory for asr1k Modular platforms.
# So it needs a file transition to polaris_chasfs_t for accessing it.
ifdef(`mcp_family',
  filetrans_pattern(domain, tftpdir_rw_t, polaris_chasfs_t, dir, "inv")
)
# on ultra platform hv_ttyprobe utility that runs under polaris_pvp_t label
# checks for existence of /boot/ttyS0_ignore file; and since /boot is symlink
# to /varied it need dir search permission over polaris_disk_varied_t
ifdef(`vxe_family',
  polaris_disk_varied_search(polaris_pvp_t)
)
ifdef(`wlc_family',
  polaris_disk_varied_search(polaris_pvp_t)
)

# pvp.sh calls cp utility with -a option that should preserve files
# attributes as result cp needs to perform set_process_security_ctx call
# which in turns calls setfscreatecon
allow polaris_pvp_t self:process setfscreate;

# pvp.sh calls pidof utility and it needs read access to sysfs_t
# When resetting a partner, pvp writes to the PCIe switch global
# reset register using the i2c driver, which is also sysfs_t
# LOOK AT ME should we create a new type for the PCIe switch reg
dev_rw_sysfs(polaris_pvp_t)

# wants to execute /bin/dmesg
dmesg_domtrans(polaris_pvp_t)

# wants to read from /tmp/rp/pvp/work/inot_fifo
gen_require('    
    type dmesg_t;
')
rw_fifo_files_pattern(dmesg_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)

# wants to write into /bootflash/.prst_sync
polaris_persistent_manage(polaris_pvp_t)

# pvp tried to find all execept hman polaris process with
# `find /tmp/rp/process -name *.pid ! -name *hman* -printf %p` command
# should be able to read pman tmp files
polaris_pman_read_tmp_files(polaris_pvp_t)

# on way down pvp.sh call 'workon.sh rp 0 rotate force' so we
# need to transition and run it in btrace_rotate domain
polaris_btrace_rotate_domtrans(polaris_pvp_t)

# on way down pvp.sh checks for *.TEMP_IN_PROGRESS in /misc/scratch/core
# need to be able read /misc/scratch link
polaris_disk_bootflash_read_lnk(polaris_pvp_t)

# implode.sh things, should we run them in its own domain?

# removes /etc/exports, create a new empty one and runs 'exportfs -ua'
# this action also needs kernel_rw_rpc_sysctls to flush
files_manage_etc_files(polaris_pvp_t)

gen_require('    
    type exports_t;
')
allow polaris_pvp_t exports_t:file delete_file_perms;
rpc_write_exports(polaris_pvp_t)
rpc_manage_nfs_state_data(polaris_pvp_t)
kernel_rw_rpc_sysctls(polaris_pvp_t)

# calls 'systemctl reboot'
systemd_start_power_services(polaris_pvp_t)

# pvp on 1ng attempts to rm readonly fpd firmware file, not sure why
polaris_firmware_getattr(polaris_pvp_t)

# pvp reads /tmp/iosd_level
polaris_lm_tmp_read(polaris_pvp_t)
allow polaris_pvp_t self:capability dac_override;

# in some image pvp needs to monut /tmp/rdldb, in other images
# it got mount by chasfs_boottime.sh systemd unit
polaris_rdldb_manage_dirs(polaris_pvp_t)
mount_domtrans(polaris_pvp_t)

# in some cases pvp script creates /tmp/xx/process directory
polaris_pman_tmp_filetrans(polaris_pvp_t, dir, "process")
polaris_pman_manage_tmp_files(polaris_pvp_t)

# on ngwc pvp creates /flash1/NVRAM directory
gen_require(
    type polaris_nvram_file_t;
    type root_t;
')
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "flash1")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)

# obtain access to rommon vars which live in flashlib
polaris_flashlib_read(polaris_pvp_t)
polaris_flashlib_write(polaris_pvp_t)

# on ngwc platforms pvp creates a /obfl_cc directory and soft links it
# to the correct vbd device
ifdef(`ngwc_family',`
    gen_require(
        type polaris_obfl_data_t;
        type root_t;
    ')
    filetrans_pattern(polaris_pvp_t, root_t, polaris_obfl_data_t, dir, "obfl_cc")
')

# on ngwc platforms pvp needs to be able to determine if the the vbd devices
# exist. The types may be slightly different depending on whether the cc's
# device node is managed by udev or not
ifdef(`ngwc_family',`
    dev_getattr_generic_blk_files(polaris_pvp_t)
    storage_getattr_fixed_disk_dev(polaris_pvp_t)
    udev_read_db(polaris_pvp_t)
')

# on ngwc platforms pvp soft links the /tmp/sw/cc_srdriver/<slot> directory
# to the correct silent roll software package via vbd_sr_app_init()
ifdef(`ngwc_family',`
# on blackheart pvp creates /blackheart_config directory
ifdef(`blackheart_platform',`
    gen_require(`
        type polaris_nvram_file_t;
        type root_t;
    `)
    filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "blackheart_config")
    manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
    `)

# on sparrow pvp creates /sparrow_config directory
ifdef(`sparrow_platform',`
    gen_require(`
        type polaris_nvram_file_t;
        type root_t;
    `)
    filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "sparrow_config")
    manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
    `)

# on Aventus pvp creates /aventus_config directory
ifdef(`aventus_platform',`
    gen_require(`
        type polaris_nvram_file_t;
        type root_t;
    `)
    filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "aventus_config")
    manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
    fs_manage_configfs_files(polaris_pvp_t)
    `)

# on utah for cc and on 1ng cyan_init.sh is executed by pvp
polaris_dyncfg_domtrans(polaris_pvp_t)
# should it not be moved to cyan module or better
# change script to call cyan_init.sh with stdin redirected
# from /dev/null (i.e cyan_init.sh < /dev/null)
ifdef(`utah_platform',`
    gen_require(`
        type polaris_dyncfg_t;
    `)
    polaris_pvp_stdin_read(polaris_dyncfg_t)
    `)

# mktmpfd checks /tmp file system attributes
fs_getattr_tmpfs(polaris_pvp_t)

optional_policy(`
# pvp on nyquist ls /tmp/ufs/crashinfo
polaris_ncd_tmp_read(polaris_pvp_t)
')

# transition to polaris_load_usbnet_t, once load_usbnet.sh is invoked by pvp
# crankshaft platforms need access to configfs
ifdef('crankshaft_family',
polaris_load_usbnet_domtrans(polaris_pvp_t)
gen_require('  
      type configfs_t;
')
allow polaris_pvp_t configfs_t:dir getattr;
')

# runs rsync -ptgoDLq /bootflash/installer/issu_crash/fru_crash rsync://rp0-0/bootflash/installer/...
rsync_entry_type(polaris_pvp_t)

ifdef('ngwc_family',
polaris_chvrf_domtrans(polaris_pvp_t)
gen_require('  
      type rsync_t;
')
allow rsync_t polaris_pvp_t:process sigchld;

# pvp_tmp file descriptor leaks into mcp_chvrf.sh
gen_require('  
      type polaris_chvrf_t;
      type polaris_pvp_tmp_t;
')
allow polaris_chvrf_t polaris_pvp_tmp_t:fifo_file { ioctl read };
')

# statfs64 over /tmp
fs_getattr_xattr_fs(polaris_pvp_t)
polaris_tdlresolve_read(polaris_pvp_t)
corenet_tcp_connect_rsync_port(polaris_pvp_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pvp_t)

# runs over /proc/
kernell_read_network_state_symlinks(polaris_pvp_t)

# work with mounts
mount_domtrans(polaris_pvp_t)
optional_policy('pvp.sh may mark or clear bits in /proc/exiting_bays
polaris_RW_exiting_bays(polaris_pvp_t)
')

optional_policy('container_runtime_domtrans(polaris_pvp_t)
')

# LOOK AT ME /usr/binos/conf/dockerd_env.sh not only sets environment
# it also does quite a bit of action in context of pvp when it got
# sourced before dockerd start
optional_policy('fs_getattr_all_fs(polaris_pvp_t)
files_getattr_all_dirs(polaris_pvp_t)
fs_read_nsfs_files(polaris_pvp_t)
container_manage_config_files(polaris_pvp_t)
polaris_caf_files_read(polaris_pvp_t)
# creates /var/log/docker/docker.log
logging_manage_generic_logs(polaris_pvp_t)
gen_require('type var_log_t;
')
allow polaris_pvp_t var_log_t:dir create;
')

# support uswap feature.
# pvp script create and deletes
# the /bootflash/uswap/... folder.
type polaris_uswap_files_t;
files_type(polaris_uswap_files_t)
polaris_pfile_type(polaris_uswap_files_t)
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_uswap_files_t, dir, ".USWAP")
manage_dirs_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_lnk_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)

# support for pvp to create /harddisk/.CRFT directory
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_crft_data_t, dir, ".CRFT")

# Support SAI
type polaris_pvp_sai_t;
files_tmp_file(polaris_pvp_sai_t)
filetrans_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t, dir, "sai_process")
manage_dirs_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)
# all processes controlled by pchort require access to sai files
gen_require('
attribute polaris_domain;
')
polaris_pvp_read_sai_files(polaris_domain)

ifdef('ngwc_family',
  # ngmod_vbd_handle_mount@.service started by pvp on macallan
  systemctl_config_generic_services(polaris_pvp_t)
')

type polaris_pvp_var.run_t;
files_pid_file(polaris_pvp_var.run_t)
gen_require(')
  type var.run_t;
')
manage_files_pattern(polaris_pvp_t, var.run_t, polaris_pvp_var.run_t)
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var.run_t, file, ".uswap_clr_rp")
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var.run_t, file, ".uswap_clr_fp")
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var.run_t, file, ".uswap_clr_cc")

# watch over /tmp/rp/pvp/control
allow polaris_pvp_t polaris_pvp_tmp_t:dir watch;

## permissions required during shutdown

# implode.sh 'systemctl reboot' uses dbus
dbus_system_bus_client(polaris_pvp_t)

# and checks reboot.target
systemd_status_power_services(polaris_pvp_t)

# writes sysctl_i2c.lck file
gen_require(')
  type polaris_cm_rp_tmp_t;
')
files_tmp_filetrans(polaris_pvp_t, polaris_cm_rp_tmp_t, file, "sysctl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_pvp_t)

# journalctl and ifconfig are used when gathering logs during a punt-inject # crash
journalctl_domtrans(polaris_pvp_t)
sysnet_domtrans_ifconfig(polaris_pvp_t)
# and allow it to write to our shutdownlog
gen_require(')
  type ifconfig_t;
')
polaris_btrace_data_manage_all(ifconfig_t)

# implode.sh checks ip interfaces before ifconfig
polaris_socketat_nsfs_read(polaris_pvp_t)

# cedge uses logrotate
polaris_ripc_confid_ipc_connect(polaris_pvp_t)
# logrotate perms
polaris_confid_var_log_manage(polaris_pvp_t)
allow polaris_pvp_t self:capability { chown fowner }
# var_lib stuff
files_manage_urandom_seed(polaris_pvp_t)

# vconfd_script_admin_tech.sh is invoked by pvp.sh. This requires a domain
# transition from pvp to admin tech context.
polaris_admin_tech_domtrans(polaris_pvp_t)

## systemreport related permissions
# pd_info collection when triggering systemreport
# fdisk permissions
storage_raw_read_fixed_disk( polaris_pvp_t );
fstools_manage_entry_files( polaris_pvp_t);
fstools_exec( polaris_pvp_t );
polaris_common_device_read(polaris_pvp_t)
# dmesg writes to pd_info path
write_files_pattern(dmesg_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t )
gen_require(
  type admin_home_t;
')
# top creates/writes dir /.config
allow polaris_pvp_t admin_home_t:dir { add_name create write };
# drop-caches
kernel_rw_vm_sysctls( polaris_pvp_t );

# systemreport collection reads all sorts of files
# but also deletes those files afterwards...
logging_manage_audit_log(polaris_pvp_t)

# report collects maroon data
polaris_maroon_data_manage_all(polaris_pvp_t);
polaris_tdlresolve_manage(polaris_pvp_t);

# collect udev log
polaris_udev_tmp_manage(polaris_pvp_t)

init_status(polaris_pvp_t);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.te
dnl

dnl April 2018, Victor Kamensky

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dnl define(`ripc_stem', `translit(patsubst($1, `-ripc$', `'), `-', `_'))
dnl define(`ripc_label', `format(`polaris_%s_ripc_port_t', ripc_stem($1)))

dnl Ripc Type Map: track that type declations unique
dnl define(`ripc_type_map', `defn(format(``ripc_type_map[%s]'', `$1')))
dnl define(`ripc_type_map_set', `define(format(``ripc_type_map[%s]'', `$1'), `$2'))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc.m4

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#
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#

policy_module(polarisquack, 1.0);

# Quack Driver policy

found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polarisquack.te

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#
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#

# Polaris lua files
/lua/(.*)?/(.*)_lua --gen_context(system_u:object_r:polaris_lua_file_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.fc
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#
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#
/tmp/sw/cfg(/.*)?  gen_context(system_u:object_r:polaris_cfg_data_t,s0)
/usr/binos/conf/cfg_sync.sh -- gen_context(system_u:object_r:polaris_cfg_sync_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.fc
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#
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#
/var/log/dmi(/.*)?       gen_context(system_u:object_r:polaris_dmi_var_log_t,s0)
/tmp/stream-parsers(/.*)?     gen_context(system_u:object_r:polaris_dmi_parser_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmioptdatamgrd.fc
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#
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#

## <summary>Polaris container Policy Rules.</summary>

############################################################
##<summary>
##	Creates types and rules for a basic polaris container process domain.
## </summary>
##<param name="stem">
##<summary>
##	Stem for the domain. Name is contrstructed as polaris_stem_container_t
## </summary>
##</param>
#
#template('polaris_container_domain_template',
  gen_require(
    type svirt_sandbox_file_t;
    type virt_lxc_var_run_t;
    attribute sandbox_net_domain;
    attribute svirt_sandbox_domain;
    bool virt_sandbox_use_sys_admin;
    bool virt_sandbox_use_mknod;
    bool virt_sandbox_use_all_caps;
    bool virt_sandbox_use_netlink;
  )

type polaris$_1_container_t, svirt_sandbox_domain;
domain_type(polaris$_1_container_t)
domain_user_exemption_target(polaris$_1_container_t)
mls_rangetrans_target(polaris$_1_container_t)
mcs_constrained(polaris$_1_container_t)
role system_r types polaris$_1_container_t;

logging_send_syslog_msg(polaris$_1_container_t)

kernel_read_system_state(polaris$_1_container_t)
kernl_read_all_proc(polaris$_1_container_t)

  virt_default_capabilities(polaris$_1_container_t)
type attribute polaris$_1_container_t sandbox_net_domain;
dontaudit polaris_$1_container_t self:capability fsetid;
dontaudit polaris_$1_container_t self:capability2 block_suspend;
allow polaris_$1_container_t self:process { execstack execmem };
manage_chr_files_pattern(polaris_$1_container_t, svirt_sandbox_file_t, svirt_sandbox_file_t)
kernal_load_module(polaris_$1_container_t)

  tunable_policy('virt_sandbox_use_sys_admin',
      allow polaris_$1_container_t self:capability sys_admin;
  )

  tunable_policy('virt_sandbox_use_mknod',
      allow polaris_$1_container_t self:capability mknod;
  )

  tunable_policy('virt_sandbox_use_all_caps',
      allow polaris_$1_container_t self:capability all_capability_perms;
      allow polaris_$1_container_t self:capability2 all_capability2_perms;
  )

  tunable_policy('virt_sandbox_use_netlink',
      allow polaris_$1_container_t self:netlink_socket create_socket_perms;
      allow polaris_$1_container_t self:netlink_tcpdiag_socket create_netlink_socket_perms;
      allow polaris_$1_container_t self:netlink_kobject_uevent_socket create_socket_perms;
  ,
      logging_dontaudit_send_audit_msgs(polaris_$1_container_t)
  )

allow polaris_$1_container_t virt_lxc_var_run_t:dir list_dir_perms;
allow polaris_$1_container_t virt_lxc_var_run_t:file read_file_perms;

kernel_read_irq_sysctls(polaris_$1_container_t)
kernel_read_messages(polaris_$1_container_t)

dev_read_sysfs(polaris_$1_container_t)
dev_read_mtrr(polaris_$1_container_t)
dev_read_rand(polaris_$1_container_t)
dev_read_urand(polaris_$1_container_t)

files_read_kernel_modules(polaris_$1_container_t)

  # Do we actually need these?
  fs_mount_cgroup(polaris_$1_container_t)
  fs_manage_cgroup_dirs(polaris_$1_container_t)
  fs_manage_cgroup_files(polaris_$1_container_t)
  # Needed for docker
  fs_unmount_xattr_fs(polaris_$1_container_t)

  auth_use_nsswitch(polaris_$1_container_t)
optional_policy(`
    rpm_read_db(polaris_$1_container_t)
  `)

logging_send_syslog_msg(polaris_$1_container_t)

tunable_policy(`virt_sandbox_use_audit',`
    logging_send_audit_msgs(polaris_$1_container_t)
  `)

userdom_use_user_ptys(polaris_$1_container_t)

optional_policy(`
    # allow vman to kill lxc container process
    # on shutdown where vman destroys container-related
    # stuff after a timeout period
    polaris_vman_kill_process(polaris_$1_container_t)
  `)

# copied from polariscommon.if. If the label is added in
# in permissive map, the below interface will make permissive
ifelse(permissive_domain(polaris_$1_container_t), polaris_$1_container_t,
  `polaris_permissive_domain_setup(polaris_$1_container_t)',
  confined_domain(polaris_$1_container_t), polaris_$1_container_t, ``,
  `polaris_domain_maybe_unconfined(polaris_$1_container_t)''
  `)

####################################################
## <summary>
##	Creates types and rules for a basic
##	polaris KVM container process domain.
##
## </summary>
## <param name="stem">
##<summary>
##Stem for the domain. Name is constructed as polaris_stem_container_t
##</summary>
## </param>
#
template(`polaris_kvm_domain_template',`
  gen_require(`
    attribute virt_domain;
    type svirt_image_t;
  `)
  `)

  # for now, things are same as polaris_container_domain_template
  polaris_container_domain_template($1)
typeattribute polaris_$1_container_t virt_domain;

# allow {map} of svirt_image_t needed by VWAAS similar to svirt
allow polaris_$1_container_t svirt_image_t: { file blk_file } map;

')

#########################################
## <summary>
##      Read Sandbox Files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_sandbox_file_read', `
gen_require(`
    type svirt_sandbox_file_t;
')
read_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
read_lnk_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
list_dirs_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
')

#########################################
## <summary>
##      Read Sandbox Files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_sandbox_file_dir_list', `
gen_require(`
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    type svirt_sandbox_file_t;
')
list_dirs_pattern($1, { svirt_sandbox_file_t polaris_disk_bootflash_t polaris_disk_harddisk_t },
svirt_sandbox_file_t)
optional_policy(`
gen_require(`
    type polaris_iox_alt_hdd_files_t;
')
list_dirs_pattern($1, polaris_iox_alt_hdd_files_t, svirt_sandbox_file_t)
')
')

#######################################
## <summary>
##      Getattr of Sandbox Files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_sandbox_file_getattr',
    gen_require(''
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type svirt_sandbox_file_t;
    ')
getattr_files_pattern($1, { svirt_sandbox_file_t polaris_disk_bootflash_t polaris_disk_harddisk_t }, svirt_sandbox_file_t)
optional_policy(''
    gen_require(''
        type polaris_iox_alt_hdd_files_t;
    ')
getattr_files_pattern($1, polaris_iox_alt_hdd_files_t, svirt_sandbox_file_t)
')

#######################################
## <summary>
##      Normal restricted permission to execute utd (snort) container
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_utd_container',
    allow $1 self:netlink_generic_socket client_stream_socket_perms;
')

#######################################
## <summary>
##      Allow domain transition
## </summary>
# interface('polaris_iox_container_domtrans',
    #
    gen_require(
        type polaris_iox_container_t;
        type container_file_t;
    )
    domain_transition_pattern($1, container_file_t, polaris_iox_container_t)
)

#########################################
### <summary>
### Allow watch on container files
### </summary>
### <param name="domain">
###   <summary>
###       Domain allowed access.
###   </summary>
### </param>
#
# interface('polaris_iox_container_watch',
  #
  gen_require(
      type tmpfs_t;
      type container_file_t;
  )
  allow $1 container_file_t:{ dir file lnk_file} watch;
  allow $1 tmpfs_t:{ dir file lnk_file} watch;
)

#########################################
### <summary>
### Send messages to utdl container unix datagram sockets.
### </summary>
### <param name="domain">
###   <summary>
###       Domain allowed access.
###   </summary>
### </param>
#
# interface('polaris_utdl_container_dgram_send',
  #
  gen_require(
      type polaris_utdl_container_t;
  )
allow $1 polaris_utdl_container_t:unix_dgram_socket sendto;

####################################################################
## <summary>
## Allow unix stream socket connect
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_waas_stream_connect',
   gen_require(
       type polaris_waas_container_t;
   )
   allow $1 polaris_waas_container_t:unix_stream_socket connectto;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.if
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#
# March 2017, Victor Kamensky
#
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#
/tmp/.flashlock -- gen_context(system_u:object_r:polaris_flashlib_lock_t,s0)
/tmp/flashdev.log -- gen_context(system_u:object_r:polaris_flashlib_log_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.fc
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#
# Oct 2020, Xin Xiang
#
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#
# dma map devices
/dev/dmammap -c gen_context(system_u:object_r:polaris_dmammap_device_t,s0)
# /dev/dma_nw is introduced by Nightwatch switch module on ESG routing platform
/dev/dma_nw -c gen_context(system_u:object_r:polaris_dmammap_device_t,s0)

# dplr interrupt devices
/dev/dplr_intrpt -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

# /dev/dplr_nw is introduced by Nightwatch switch module on ESG routing platform
/dev/dplr_nw -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

# e.g., /dev/msi/Slot8/Doppler0/Group0
/dev/msi/Slot[0-9]*/Doppler[0-9]* -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)
/dev/msi/Slot[0-9]*/Doppler[0-9]*(/.*)? -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdoppler.fc
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# March 2017, Victor Kamensky
#
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#
## <summary>Polaris ncd Policy Rules.</summary>
########################################
## Make the specified domain able to manage tmp file created by ncd.sh like /tmp/etc/ncd_work_dir
## <param name="type">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_ncd_tmp_manage',
  gen_require(
    type polaris_ncd_tmp_t;
  )
  manage_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
  manage_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
  manage_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
  )
########################################
## <summary>
## Make the specified domain able to read tmp file created by
## ncd.sh like /tmp/ufs/crashinfo
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface('polaris_ncd_tmp_read',
  gen_require(
    type polaris_ncd_tmp_t;
  ')
  list_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
  read_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
  read_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
')

########################################
## <summary>
## Make the specified domain able to read etc file created by
## ncd.sh like /etc/conf/unifiedfs/mount_data
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface('polaris_ncd_etc_read',
  gen_require(
    type polaris_ncd_etc_t;
  ')
  read_files_pattern($1, polaris_ncd_etc_t, polaris_ncd_etc_t)
')

########################################
## <summary>
## Execute a domain transition to run ncd.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_ncd_domtrans',

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22386
gen_require(
    type polaris_ncd_t, polaris_ncd_exec_t;
)

domtrans_pattern($1, polaris_ncd_exec_t, polaris_ncd_t)
)

########################################################################
## <summary>
## Execute a domain transition to run unifiedfs_helper.sh.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_ufs_helper_domtrans',
    gen_require(
        type polaris_ufs_helper_t, polaris_ufs_helper_exec_t;
    )
)

domtrans_pattern($1, polaris_ufs_helper_exec_t, polaris_ufs_helper_t)
)

########################################################################
## <summary>
## Run rpcinfo in a domain, grant proper network permissions.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_ncd_rpcinfo_net',
    corenet_tcp_bind_generic_node($1)
    corenet_tcp_bind_all_rpc_ports($1)
    corenet_tcp_connect_all_rpc_ports($1)
    corenet_tcp_connect_unreserved_ports($1)
    allow $1 self:tcp_socket [ bind connect getattr getopt setopt ];

    corenet_udp_bind_generic_node($1)
    corenet_udp_bind_all_rpc_ports($1)
    allow $1 self:udp_socket [ bind create getattr getopt setopt ];

    corenet_tcp_connect_portmap_port($1)
ifdef(`passport_platform',`
  # invoked rpcinfo which connects to port 2049 (nfs server)
  # port is incorrectly labelled due to falling in range of TDL define
  # of IOSd gold ripc service
  polaris_ripc_iosd_gold_connect($1)
')

ifdef(`starfleet_platform',`
  # invoked rpcinfo which connects to port 2049 (nfs server)
  # port is incorrectly labelled due to falling in range of TDL define
  # of IOSd gold ripc service
  polaris_ripc_iosd_gold_connect($1)
')

ifdef(`bigbang_platform',`
  # nfs server port 2049 is labelled as ripc-emd_ui_port_t based on TDL define
  polaris_ripc_emd_ui_connect($1)
')

')

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.if
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#
# July 2017, Victor Kamensky
#
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#

policy_module(polariscppcdm, 1.0);

gen_require(' 
  type polaris_cpp_cdm_t;
')

polaris_btrace_data_manage(polaris_cpp_cdm_t)
polaris_crft_data_manage(polaris_cpp_cdm_t)
polaris_chasfs_manage(polaris_cpp_cdm_t)
polaris_tdlresolve_read(polaris_cpp_cdm_t)
polaris_tdldb_list_dirs(polaris_cpp_cdm_t)
polaris_cpld_read(polaris_cpp_cdm_t)
polaris_flashlib_read(polaris_cpp_cdm_t)
polaris_cpp_tmp_files_use(polaris_cpp_cdm_t)
# works with /dev/cpp_dev_info and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_cdm_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_cdm_t)

polaris_icc_broken_relocations(polaris_cpp_cdm_t)

allow polaris_cpp_cdm_t self:capability net_admin;

# get attributes of /dev/shm from glibc where_is_shmfs function
fs_getattrib_tmpfs(polaris_cpp_cdm_t)

polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cdm_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
  polaris_dev_mem_use(polaris_cpp_cdm_t)
')

# overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
# when initializing the CPP DMAP library.
optional_policy(
  polaris_cpp_cavium_dma_map(polaris_cpp_cdm_t)
')

optional_policy(
  polaris_cbdma_dev_use(polaris_cpp_cdm_t)
')
polaris_cpld_dev_use(polaris_cpp_cdm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.te
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#
# August 2017, Victor Kamensky
#
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#

## <summary>Polaris bsm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.if
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#
# March 2017, Victor Kamensky
#
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#

/obfl -l gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/obfl0 -l gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/tmp/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.fc
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#
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#
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#

/dev/cpld -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-ha -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-misc-int -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-fp -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-cc -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.fc
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dnl

dnl January 2021, Vaibhav Lade
dnl
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dnl
dnl VPCGW Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_UEMGR, 7)
max_elastic_map_set(`cc', `elastic', BPROC_UEMGR, 7)
max_elastic_map_set(`fp', `elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set(“rp’, ‘elastic’, BPROC_UEMGR, 7)
max_elastic_ripc_map_set(“cc’, ‘elastic’, BPROC_UEMGR, 7)
max_elastic_ripc_map_set(“fp’, ‘elastic’, BPROC_UEMGR, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vpcgwmaps.m4
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

## <summary>Polaris gsd_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdrp.if
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#
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#

policy_module(polarisoctdplogrp, 1.0);

gen_require(
    type polaris_oct_dp_log_rp_t;
)

polaris_btrace_data_manage(polaris_oct_dp_log_rp_t)
polaris_chasfs_manage(polaris_oct_dp_log_rp_t)
polaris_tdlresolve_read(polaris_oct_dp_log_rp_t)
polaris_tdldb_list_dirs(polaris_oct_dp_log_rp_t)
polaris_cpld_read(polaris_oct_dp_log_rp_t)
polaris_flashlib_read(polaris_oct_dp_log_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_oct_dp_log_rp_t)

# direct access to serial TTY devices
# (octeon_dp_logger needs to acces /dev/ttyDASH7)
term_open_unallocated_ttys(polaris_oct_dp_log_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoctdplogrp.te

No license file was found, but licenses were detected in source scan.

# June 2020, Manu Roy
#
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#

### <summary>Polaris iotswitch Policy Rules.</summary>
#
#
### Work (read, write, ioctl) with /dev/petra-fpga device
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_iots_fpga_dev_use',`
    gen_require(`
    type device_t;
    type polaris_iots_fpga_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
    allow $1 polaris_iots_fpga_device_t:chr_file map;
    ')

### Work (read, write, ioctl) with /dev/tm
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_iots_tm_dev_use',`
    gen_require(`
    type device_t;
    type polaris_iots_tm_device_t;
    ')

write_chr_files_pattern($1, device_t, polaris_iots_tm_device_t)
read_chr_files_pattern($1, device_t, polaris_iots_tm_device_t)
allow $1 polaris_iots_tm_device_t:chr_file map;
')

####################################################################

## <summary>
##      Allow access to semaphore with type polaris_cm_rp_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>

#
interface('polaris_cm_rp_sem_use',
    gen_require(
        type polaris_cm_rp_t;
    )
    allow $1 polaris_cm_rp_t:sem rw_sem_perms;
')

####################################################################

## <summary>
##      Allow access to semaphore with type polaris_iots_mvDmaDrv_device_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>

#
interface('polaris_mvDmaDrv_dev_use',
    gen_require(
        type device_t;
        type polaris_iots_mvDmaDrv_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t)
    read_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t)
    allow $1 polaris_iots_mvDmaDrv_device_t:chr_file map;
')

####################################################################

## <summary>
##      Allow access to semaphore with type polaris_iots_mvIntDrv_device_t
## </summary>
## <param name="domain">
##      <summary>
### Domain allowed access.

```
interface(`polaris_mvIntDrv_dev_use',`
    gen_require`
        type device_t;
        type polaris_iots_mvIntDrv_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)
    read_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)
`)
```

### Manage iots swipedrive files

```
interface(`polaris_swipedrive_file_manage',`
    gen_require`
        type polaris_iots_swipedrive_file_t;
    `)
    manage_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
    manage_lnk_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
    manage_dirs_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
`)
```

### Get the attributes of an swipe drive filesystem.

```
interface(`polaris_getattr_swipedrive',`
    gen_require`
        type polaris_iots_swipedrive_file_t;
    `)
```
allow $1 polaris_iots_swipedrive_file_t:filesystem getattr;
')

# Allow access to semaphore with type polaris_iots_led_device_t
# </summary>
# <param name="domain">
#  Domain allowed access.
# </summary>
#
interface('polaris_led_dev_use',

  gen_require(''
    type device_t;
    type polaris_iots_led_device_t;
  ')

  write_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
  read_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.if
No license file was found, but licenses were detected in source scan.

# # December 2019, Victor Kamensky
#
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#
#
## <summary>Polaris fnf_agg Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
#
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#
#
## <summary>Polaris TDLResolve Policy Rules.</summary>
## TDLresolve policy

### Open tdlresolve files

```plaintext
interface('polaris_tdlresolve_read',
  gen_require(''
    type polaris_tdlresolve_t;
  ')
  read_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  read_lnk_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  list_dirs_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  allow $1 polaris_tdlresolve_t:file map;
  gen_require(''
    type polaris_global_service_t;
  ')
  read_files_pattern($1, polaris_global_service_t, polaris_global_service_t)
  allow $1 polaris_global_service_t:file map;
)
```

### Manage tdlresolve files

```plaintext
interface('polaris_tdlresolve_manage',
  gen_require(''
    type polaris_tdlresolve_t;
  ')
  manage_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  manage_lnk_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  manage_dirs_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
)```
allow $1 polaris_tdlresolve_t:file map;
gen_require(''
type polaris_global_service_t;'')
manage_files_pattern($1, polaris_global_service_t, polaris_global_service_t)
allow $1 polaris_global_service_t:file map;
')

#######################################
## <summary>
## Watch tdlresolve directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface(`polaris_tdlresolve_watch',`
gen_require(''
type polaris_tdlresolve_t;'')
allow $1 polaris_tdlresolve_t:dir watch;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.if
No license file was found, but licenses were detected in source scan.

#
# September 2018, Anubha Balani
#
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#
/tmp/maroon_stats -d	gen_context(system_u:object_r:polaris_maroon_base_t,s0)
# zram devices
/dev/zram[0-9]* -b gen_context(system_u:object_r:polaris_zram_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.fc
No license file was found, but licenses were detected in source scan.

#
# July 2020, Victor Kamensky
#
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#

policy_module(polarishtx, 1.0);

gen_require(`
    type polaris_htx_t;
`)
polaris_chasfs_read(polaris_htx_t)
polaris_cpld_read(polaris_htx_t)
polaris_tdlresolve_read(polaris_htx_t)
polaris_ripc_sman_ui_serv_connect(polaris_htx_t)

logging_send_syslog_msg(polaris_htx_t)

# LOOK AT ME uses shell and mkdir just to create /tmp/HTX-IOX directory
# should be single mkdir system call, in fact even this may not
# be needed since it is created by system-tempfiles
corecmd_exec_shell(polaris_htx_t)
corecmd_exec_bin(polaris_htx_t)
auth_use_nsswitch(polaris_htx_t)

call posix_sysconf that opens /sys/devices/system/cpu/online
dev_read_sysfs(polaris_htx_t)

# create threads
allow polaris_htx_t self:process setsched;
allow polaris_htx_t self:capability sys_nice;

optional_policy(
    polaris_qfp_dgram_send(polaris_htx_t)
`)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_htx_t)

type polaris_htx_iox_tmp_t;
files_tmp_file(polaris_htx_iox_tmp_t)
polaris_htx_iox_tmp_manage(polaris_htx_t)

# htx logs files like /tmp/nwaas_log_sslproxy.log
type polaris_htx_tmp_t;
files_tmp_file(polaris_htx_tmp_t)
files_tmp_filetrans(polaris_htx_tmp_t, polaris_htx_tmp_t, file)
manage_files_pattern(polaris_htx_t, polaris_htx_tmp_t, polaris_htx_tmp_t, polaris_htx_tmp_t)
# handle /dev/shm/tcpproxy_debug shm

type polaris_htx_tmpfs_t;
files_tmpfs_file(polaris_htx_tmpfs_t)
fs_tmpfs_filetrans(polaris_htx_t, polaris_htx_tmpfs_t, file)
fs_getattr_tmpfs(polaris_htx_t)
gen_require(
    type tmpfs_t;
)

')
manage_files_pattern(polaris_htx_t, tmpfs_t, polaris_htx_tmpfs_t)
allow polaris_htx_t polaris_htx_tmpfs_t:file map;

# work with /tmp/memif
optional_policy(
    polaris_qfp_memif_manage(polaris_htx_t)
')

# sppi_memif
type polaris_sppi_memif_device_t;
dev_node(polaris_sppi_memif_device_t)
polaris_sppi_memif_dev_use(polaris_htx_t)

# packet_socket uinet_if_sppi_channel_init
allow polaris_htx_t self:packet_socket { create_socket_perms recv_msg send_msg};
allow polaris_htx_t self:capability net_raw;

# read and write /bootflash/cacert-ssl.pem
polaris_bootflash_manage(polaris_htx_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris nginx Policy Rules.</summary>

########################################
## <summary>
##      Allow domain to be started by nginx with
##      transition into specific service domain.
## </summary>
## <param name="domain">
## <summary>
## Type to be used to run utility.
## </summary>
## </param>
## <param name="entry_point">
## <summary>
## Type of the program to be used as an entry point to this domain.
## </summary>
## </param>

interface('polaris_nginx_exec_domain',
    gen_require('    
    type polaris_nginx_t;
  ')
)

domtrans_pattern(polaris_nginx_t, $2, $1)
)

########################################
## <summary>
##      Execute mcp_trace_filter script in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_trace_filter_domtrans',
    gen_require('    
    type polaris_trace_filter_t, polaris_trace_filter_exec_t;
  ')
)

domtrans_pattern($1, polaris_trace_filter_exec_t, polaris_trace_filter_t)
)

########################################
## <summary>
##      Execute file transfer client in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_file_transfer_client_domtrans',
    gen_require('    
    type polaris_file_transfer_client_t, polaris_file_transfer_client_exec_t;
  ')
)
domtrans_pattern($1, polaris_file_transfer_client_exec_t, polaris_file_transfer_client_t)
)

#######################################
## <summary>
##      Allow others to perform pipe operations on nginx files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to perform the operation
##      </summary>
## </param>
#
interface(`polaris_nginx_manage_fifo_files',
    gen_require(
        type polaris_nginx_t;
        type $1;
    ')
)
manage_fifo_files_pattern($1, polaris_nginx_t, polaris_nginx_t)
')

#######################################
## <summary>
##      Allow the specified domain to manage polaris_nginx_tmp_t files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_nginx_tmp_manage',
    gen_require(
        type polaris_nginx_tmp_t;
    ')
)
manage_files_pattern($1, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
files_tmp_filetrans($1, polaris_nginx_tmp_t, file, "ca.cert")
')

#######################################
## <summary>
##      Manage polaris_fts_client_tmp_t in /tmp/fts_client.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_fts_client_tmp_manage',
    gen_require(
        type polaris_fts_client_tmp_t;
    ')
)
manage_files_pattern($1, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
fts_client_filetrans($1, polaris_fts_client_tmp_t, file, "ca.cert")
')
## <summary>
Domain allowed access.
</summary>

```c
interface('polaris_fts_client_tmp_manage',
    gen_require(
        type polaris_fts_client_tmp_t;
    ')
)  
manage_files_pattern($1, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
manage_dirs_pattern($1, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.if

No license file was found, but licenses were detected in source scan.

```
# February 2020, Victor Kamensky
#
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#
```

## <summary>Polaris cedgetanman Policy Rules.</summary>

```
# Read cedge tanman files and fifo_file. I.e
#/tmp/tan/tan_evt_fifo
#</summary>

```c
interface('polaris_cedge_tanman_tmp_manage',
    gen_require(
        type polaris_cedge_tanman_tmp_t;
    ')
)  
read_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
read_fifo_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.if
No license file was found, but licenses were detected in source scan.

# November 2017, Victor Kamensky
#
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#

# polarisgnmib file contexts place holder
/flash1/gNOI_iosxe_*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
/bootflash/gNOI_iosxe_*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
/mnt/sd3/user/gNOI_iosxe_*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.fc
No license file was found, but licenses were detected in source scan.

# November 2020, Christine Hwang
#
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#

## <summary>Polaris bbu Policy Rules.</summary>

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/ttyS2
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_bbu_dev_use',`
  gen_require(`
    type device_t;
    type polaris_bbu_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_bbu_device_t)
  read_chr_files_pattern($1, device_t, polaris_bbu_device_t)
  allow $1 polaris_bbu_device_t:chr_file map;
`)

Found in path(s):
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris polarsirevbacktimer Policy Rules.</summary>

### <summary>Polaris polarsirevbacktimer Policy Rules.</summary>

### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_rbtimer_bootflash_manage',
gen_require(
    type polaris_disk_bootflash_t;
    type polaris_rbtimer_bootflash_t;
    )
manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t)
manage_files_pattern($1, polaris_rbtimer_bootflash_t, polaris_rbtimer_bootflash_t)
filetrans_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t, dir, ".rollback_timer")
')

Found in path(s):

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.if

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris keyman Policy Rules.</summary>

Found in path(s):

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

## <summary>Polaris polarisoom Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.if
No license file was found, but licenses were detected in source scan.

# July 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/install_engine.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_assist.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_helper.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/sw_upload_svc.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/provision.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/issu_helper.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/issu/issu_check.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/packtool.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_boottime.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/vconfd_script_upgrade\script -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/issu_client_comp.py -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_selinux.sh -- gen_context(system_u:object_r:polaris_install_selinux_exec_t,s0)
/usr/bin/os/conf/install_show.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_issu_show.py -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/vconfd_script_show_installerfs.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/calcsha.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/C9800-Wireless_startup_script.sh -- gen_context(system_u:object_r:polaris_install_wireless_exec_t,s0)
/usr/bin/os/conf/C9800-Wireless_stop_script.sh -- gen_context(system_u:object_r:polaris_install_wireless_exec_t,s0)
The following labels are specific to hot patch a SMUs shared objects using .so files). For cold patch files, the patch is subset of a package (it has the same structure) and therefore regular labeling rules will be in effect.

# The SMU hot patch directory hierarchy should look as follows:

# /RP.<ARCH>/<process>/patch(s)
# /FP.<ARCH>/<process>/patch(s)
# /CC.<ARCH>/<process>/patch(s)

# bundlee image/subpkg labeling

# Found in path(s):
policy_module(polarisepcwsliaison, 1.0);

gen_require('  
    type polaris_epc_ws_liaison_t;
')

polaris_btrace_data_manage(polaris_epc_ws_liaison_t)
polaris_crft_data_manage(polaris_epc_ws_liaison_t)
polaris_chasfs Manage(polaris_epc_ws_liaison_t)
polaris_ldresolve_read(polaris_epc_ws_liaison_t)
polaris_ldldb_list_dirs(polaris_epc_ws_liaison_t)
polaris_cpld_read(polaris_epc_ws_liaison_t)
polaris_flashlib_read(polaris_epc_ws_liaison_t)
polaris_ripc_sman_ui_serv_connect(polaris_epc_ws_liaison_t)

allow polaris_epc_ws_liaison_t self:capability { dac_override };

# tshark invoked by epc_ws_liaison needs to map /etc/passwd file.
auth_map_passwd(polaris_epc_ws_liaison_t)

# access to execute /sbin/tshark
corecmd_exec_bin(polaris_epc_ws_liaison_t)

# dumpcap needs access to net dir in sysfs
dev_read_sysfs(polaris_epc_ws_liaison_t)

# comm="dumpcap" kmod="net-pf-16-proto-12"
kerneldontaudit_request_load_module(polaris_epc_ws_liaison_t)

# write pcap files to /bootflash
polaris_bootflash_manage(polaris_epc_ws_liaison_t)

# epc_ws liaison and ngwc-fed pipe interaction
polaris_fed_shm_file_read(polaris_epc_ws_liaison_t)

# for pluggable FS, allow epc liaison to access files on them.
polaris_removable_manage(polaris_epc_ws_liaison_t)
# tshark and dumpcap runtime requirements
allow polaris_epi ws liaison_t self:capability { netraw setgid setuid net_admin };  
allow polaris_epi ws liaison_t self:netlink_netfilter_socket create;  
allow polaris_epi ws liaison_t self:netlink_route_socket { bind create getattr nlmsg_read };  
allow polaris_epi ws liaison_t self:packet_socket { bind create ioctl map setopt };  
allow polaris_epi ws liaison_t self:process setcap;  
allow polaris_epi ws liaison_t self:unix_dgram_socket { create ioctl };  
allow polaris_epi ws liaison_t self:udp_socket { create ioctl };  

# /tmp/lsn.log and /tmp/epc_ws (WS_TMP_FOLDER)
type polaris_epi ws liaison_tmp_t;  
files_tmp_file(polaris_epi ws liaison_tmp_t)  
files_tmp_filetrans(polaris_epi ws liaison_t, polaris_epi ws liaison_tmp_t, { file dir })  
manage_dirs_pattern(polaris_epi ws liaison_t, polaris_epi ws liaison_tmp_t, polaris_epi ws liaison_tmp_t)  
manage_files_pattern(polaris_epi ws liaison_t, polaris_epi ws liaison_tmp_t, polaris_epi ws liaison_tmp_t)  
manage_fifo_files_pattern(polaris_epi ws liaison_t, polaris_epi ws liaison_tmp_t)  

﻿# CLI: show platform software wireshark show
polaris_utility_domain_template(wireshark_show)
polaris_bexecute_domain(polaris_wireshark_show_exec_t)  
polaris_chasfs_manage(polaris_wireshark_show_t)  
corecmd_exec_bin(polaris_wireshark_show_t)  

# map /etc/passwd
auth_map_passwd(polaris_wireshark_show_t)  

# open, read, getattr pcap files
polaris_bootflash_read(polaris_wireshark_show_t)  

# write into pipe that smand created for us with popen
polaris_smand_use_fifo(polaris_wireshark_show_t)  
corecmd_exec_shell(polaris_wireshark_show_t)  

# sys file /sys/devices/system/cpu/online
dev_read_sysfs(polaris_wireshark_show_t)  

# tshark and dumpcap runtime requirements
allow polaris_wireshark_show_t self:capability { setgid setuid net_admin };  
allow polaris_wireshark_show_t self:netlink_netfilter_socket create;  
allow polaris_wireshark_show_t self:netlink_route_socket { bind create getattr nlmsg_read };  
allow polaris_wireshark_show_t self:process setcap;  
allow polaris_wireshark_show_t self:udp_socket { create ioctl };
allow polaris_wireshark_show_t self:unix_dgram_socket { create ioctl }

#dumpcap needs access "/tmp/epc_ws/wif_to_ts_pipe" fifo file
polaris_epc_ws_liaison_fifo_read(polaris_wireshark_show_t)

# comm="dumpcap" kmod="net-pf-16-proto-12"
kernel_request_load_module(polaris_wireshark_show_t)

# /tmp/*.pcapng
type polaris_wireshark_show_tmp_t;
files_tmp_file(polaris_wireshark_show_tmp_t)
files_tmp_filetrans(polaris_wireshark_show_t, polaris_wireshark_show_tmp_t, file)
polaris_wireshark_show_tmp_manage(polaris_wireshark_show_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.te
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#
# June 2020 , Manu Roy
#
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#

policy_module(polarisiotswitch, 1.0);

# petra fpga device (/dev/petra-fpga)
type polaris_iots_fpga_device_t;
dev_node(polaris_iots_fpga_device_t)

# petra DMA ASIC driver (/dev/mvDmaDrv)
type polaris_iots_mvDmaDrv_device_t;
dev_node(polaris_iots_mvDmaDrv_device_t)

# petra Interrupt Asic driver (/dev/mvIntDrv)
type polaris_iots_mvIntDrv_device_t;
dev_node(polaris_iots_mvIntDrv_device_t)

# petra tm device (/dev/tm)
type polaris_iots_tm_device_t;
dev_node(polaris_iots_tm_device_t)

# petra tm device (/dev/mmcblk1p1))
type polaris_iots_swipedrive_device_t;
dev_node(polaris_iots_swipedrive_device_t)
type polaris_iots_swipedrive_file_t;
files_type(polaris_iots_swipedrive_file_t)
dev_associate(polaris_iots_swipedrive_file_t)

# LED device (/dev/spidev0.0)
type polaris_iots_led_device_t;
dev_node(polaris_iots_led_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.te
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# March 2017, Victor Kamensky
#
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#

### <summary>Polaris psd Policy Rules.</summary>

###################################################################
### <summary>
###   Read polaris_restconf_t files, effectively files
### under /tmp/restconf
### </summary>
### <param name="domain">
###   Domain allowed access.
### </param>
#
interface('polaris_restconf_read',
  gen_require(
    type polaris_restconf_t;
  )
read_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
read_lnk_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
list_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t)
')

###################################################################
### <summary>
###   Manage polaris_restconf_t files, effectively files
### under /tmp/restconf
### </summary>
### <param name="domain">
###   <summary>

---

**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22410**
interface('polaris_restconf_manage',
    gen_require('polaris_restconf_t; 
    manage_files_pattern($1, polaris_restconf_t, polaris_restconf_t) 
    manage_link_files_pattern($1, polaris_restconf_t, polaris_restconf_t) 
    manage_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t) 
    ')
)

interface('polaris_ncsshd_keys_manage',
    gen_require('polaris_ncsshd_keys_t; 
    manage_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t) 
    manage_link_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t) 
    manage_dirs_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t) 
    ')
)

interface('polaris_psd_tmp_read',
    gen_require('polaris_psd_tmp_t;
    manage_files_pattern($1, polaris_psd_tmp_t, polaris_psd_tmp_t) 
    manage_link_files_pattern($1, polaris_psd_tmp_t, polaris_psd_tmp_t) 
    manage_dirs_pattern($1, polaris_psd_tmp_t, polaris_psd_tmp_t) 
    ')
)
read_files_pattern($1, polaris_psd_tmp_t, polaris_psd_tmp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisspsd.if
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#

## <summary>Polaris smd Policy Rules.</summary>

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.if
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dnl
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dnl
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dnl
define(`polaris_process_aux_full',``
polaris_process_domain_template($1)
``)

define(`polaris_process_aux',``
ifelse(process_type_map($1), `', `polaris_process_aux_full($1)')
``)

define(`polaris_process',``
polaris_process_aux(process_stem($1))
``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_te.m4
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#
# April 2017, Victor Kamensky
#
policy_module(polarisdmINCSShdmgmt, 1.0);

gen_require(
    type polaris_dmi_ncsshd_mgmt_t;
')

polaris_btrace_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_chasfs_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_tdlresolve_read(polaris_dmi_ncsshd_mgmt_t)
polaris_tdlldb_list_dirs(polaris_dmi_ncsshd_mgmt_t)
polaris_flashlib_read(polaris_dmi_ncsshd_mgmt_t)

corenent_tcp_bind_generic_node(polaris_dmi_ncsshd_mgmt_t)
allow polaris_dmi_ncsshd_mgmt_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write }
allow polaris_dmi_ncsshd_mgmt_t self:udp_socket { get attr create connect read write }
allow polaris_dmi_ncsshd_mgmt_t self:cap_users { sys_admin net_bind_service }

type polaris_dmi_ncsshd_mgmt_var_run_t;
files_pid_file(polaris_dmi_ncsshd_mgmt_var_run_t)
manage_dirs_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t)
files_pid_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, { file dir })

# access /var/log/lastlog, /var/log/btmp
type polaris_dmi_ncsshd_mgmt_var_log_t;
logging_log_file(polaris_dmi_ncsshd_mgmt_var_log_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, polaris_dmi_ncsshd_mgmt_var_log_t)
logging_log_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, file, "lastlog")
logging_log_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, file, "btmp")

polaris_dmi_ncsshd_fwd_dgram_send(polaris_dmi_ncsshd_mgmt_t)

corenent_tcp_bind_polaris_dmi_ncsshd_mgmt_port(polaris_dmi_ncsshd_mgmt_t)
# ncsshd allows user-defined port with: netconf-yang ssh port <port_no>
corenent_tcp_bind_all_ports(polaris_dmi_ncsshd_mgmt_t)

auth_use_nsswitch(polaris_dmi_ncsshd_mgmt_t)
# assign following capabilities needed by sshd
allow polaris_dmi_ncsshd_mgmt_t self:capability { net_admin setgid sys_resource setuid sys_chroot kill];
allow polaris_dmi_ncsshd_mgmt_t self:process setrlimit;

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#
ncshd requests pseudo terminal when netconf session is set up without explicitly specifying the subsystem name, such as netconf.
allow polaris_dmi_ncsshd_mgmt_t self:capability { chown fowner fsetid };
term_setattr_generic_ptys(polaris_dmi_ncsshd_mgmt_t)
term_getattr_ppty_fs(polaris_dmi_ncsshd_mgmt_t)
term_use_generic_ptys(polaris_dmi_ncsshd_mgmt_t)
term_use_ptmx(polaris_dmi_ncsshd_mgmt_t)

# enable to read cpld file "/sys/devices/platform/cpld/board_vtype"
polaris_cpld_read(polaris_dmi_ncsshd_mgmt_t)
# for sshd needs access network interface resource
allow polaris_dmi_ncsshd_mgmt_t self:netlink_route_socket r_netlink_socket_perms;

# calls socketat server_listen at mgmt/dmi/ncsshd/src/sshd.c
polaris_socketat_nsfs_read(polaris_dmi_ncsshd_mgmt_t)
polaris_lfts_dev_use(polaris_dmi_ncsshd_mgmt_t)
corecmd_exec_bin(polaris_dmi_ncsshd_mgmt_t)

logging_send_syslog_msg(polaris_dmi_ncsshd_mgmt_t)
# TODO : revisit below statement when addressing initrc_exec_t denial
polaris_rmonbifo_tmp_read(polaris_dmi_ncsshd_mgmt_t)

# allow access to /tmp/sw/cfg and /tmp/sw/boot
polaris_boot_tmp_read(polaris_dmi_ncsshd_mgmt_t)
polaris_cfg_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_dmi_dmiauthd_dgram_send(polaris_dmi_ncsshd_mgmt_t)

corenet_tcp_connect_polaris_netconf_interceptor_port(polaris_dmi_ncsshd_mgmt_t);
# This fixes runin.sh related denials. Refer to auth.c file which invokes bshell.
polaris_bexecute_domtrans(polaris_dmi_ncsshd_mgmt_t);

# This fixes authorized keys access related denials.
polaris_ncsshd_authorized_keys_read(polaris_dmi_ncsshd_mgmt_t);

# This fixes denials related to interceptor files.
polaris_interceptor_manage(polaris_dmi_ncsshd_mgmt_t);

# This fixes denials related to netconf_callhome executable
gen_require('    type polaris_confd_t;
')
allow polaris_dmi_ncsshd_mgmt_t polaris_confd_t:tcp_socket { getattr getopt setopt };

# This fixes denials related to route, scp, chvrf command executables
# { read open getattr } operations are allowed on route command
# { search open } operations are allowed on scp command
# { read open execute execute_no_trans } operations are allowed on chvrf command
kernel_read_network_state(polaris_dmi_ncsshd_mgmt_t)

optional_policy(')
# allows access to /tmp/xml/Intf dir and files
polaris_cedge_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_cedge_xml_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
')
# This fixes denials related to ifconfig executable
# { execute read open execute_no_trans map getattr } operations are allowed
sysnet_domtrans_ifconfig(polaris_dmi_ncsshd_mgmt_t)

# This fixes access denials related to confd checking ncsshd_mgmt proc info
# /proc/<ncsshd pid>/
read_files_pattern(polaris_confd_t, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)
read_lnk_files_pattern(polaris_confd_t, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)

# allows access for admin-tech generation from vManage
polaris_admin_tech_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_bootflash_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_cfg_data_t
polaris_cfg_data_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_boot_tmp_t
polaris_boot_tmp_read(polaris_dmi_ncsshd_mgmt_t)

# allow to watch /var/run/netns and list dir
polaris_watch_netns(polaris_dmi_ncsshd_mgmt_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgmt.te
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#
#
## <summary>Polaris polarispman Policy Rules.</summary>

####################################################################
## <summary>
## Make the specified program domain accessable
## from the pman.
// <summary>
// <param name="domain">
// The type of the process to transition to.
// </summary>
// </param>

// <param name="entrypoint">
// The type of the file used as an entrypoint to this domain.
// </summary>
// </param>

interface('polaris_pman_entry',
    gen_require(
        type polaris_pman_t;
        type polaris_gdb_t;
    ))

domtrans_pattern(polaris_pman_t, $2, $1)
domtrans_pattern(polaris_gdb_t, $2, $1)

    allow polaris_gdb_t $1:process { ptrace signal sigstop };
')

############################################################################
// <summary>
// Execute a domain transition to run pman.
// </summary>
// </summary>

interface('polaris_pman_domtrans',
    gen_require(
        type polaris_pman_t, polaris_pman_exec_t;
    ))
domtrans_pattern($1, polaris_pman_exec_t, polaris_pman_t)
'

############################################################################
// <summary>
// Read pman temporary files and directories in /tmp.
// </summary>
// </summary>
## Domain allowed access.

```c
interface('polaris_pman_read_tmp_files',
          gen_require('type polaris_pman_tmp_t;

    read_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
    list_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
')
```

Manage pman temporary files and directories in /tmp.

```c
interface('polaris_pman_manage_tmp_files',
          gen_require('type polaris_pman_tmp_t;

    manage_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
    manage_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
')
```

Create an object in the polaris_pman_tmp directories.

```c
interface('polaris_pman_object',
          gen_require('type polaris_pman_tmp_t;

    create_object($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
')
```
## The name of the object being created.
## </summary>
## </param>
#
interface('polaris_pman_tmp_filetrans',
gen_require('
type polaris_pman_tmp_t;
')
files_tmp_filetrans($1, polaris_pman_tmp_t, $2, $3)
')

#########################################################
## <summary>
## Check existence (getattr) of pman btrace file (i.e polaris_pman_bt_t)
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_pman_bt_getattr',
gen_require('
type polaris_pman_bt_t;
type polaris_btrace_base_t;
')
getattr_files_pattern($1, polaris_btrace_base_t, polaris_pman_bt_t)
')

#########################################################
## <summary>
## Read and write to pmanlite fifo file, used as stdout/stderr.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_use_pman_fifo',
gen_require(''
type polaris_pman_t;
')
allow $1 polaris_pman_t:fifo_file { rw_fifo_file_perms };
policy_module(polariswncmgrd, 1.0);

gen_require(
    type polaris_wncmgrd_t;
)

polaris_btrace_data_manage(polaris_wncmgrd_t)
polaris_chasfs_manage(polaris_wncmgrd_t)
polaris_tdlresolve_read(polaris_wncmgrd_t)
polaris_tdlldb_list_dirs(polaris_wncmgrd_t)
polaris_cpil_read(polaris_wncmgrd_t)
polaris_lua_read(polaris_wncmgrd_t)
polaris_flashlib_read(polaris_wncmgrd_t)
polaris_rpc_sman_ui_serv_connect(polaris_wncmgrd_t)
polaris_db_tdlldb_dir_use(polaris_wncmgrd_t)

#allow setrlimit
allow polaris_wncmgrd_t self:process setrlimit;
allow polaris_wncmgrd_t self:capability sys_resource;
allow polaris_wncmgrd_t self:capability dac_override;

allow polaris_wncmgrd_t self:tcp_socket { shutdown };

#allow wncmgrd UDP socket operations
allow polaris_wncmgrd_t self:udp_socket { bind getattr setopt };
corenets_udp_bind_generic_node(polaris_wncmgrd_t)

#allow wncmgrd module to do ioctl,open,read,write operations on char file
polaris_lfts_dev_use(polaris_wncmgrd_t)

# it use tcp port 9090 and9091(polaris_wnc_mgrd_port)
corenets_tcp_bind_polaris_wnc_mgrd_port(polaris_wncmgrd_t)
# For ewlc, wncd and wcncmgrd needs access to files under /mnt/images/...these
# are related to AccessPoint images
# # wncmgrd calls ewlc_get_ap_sw_version() to open/read
# /tmp/sw/0/0/wp_wlc/mount/mnt/images/ap.pri/version.info
# call-chain: main -> ewlc_app_context_init -> wncd_evlib_app_init_cb ->
# ewlc_capwapac_lib_init -> capwapac_init_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wcncmgrd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_wcncmgrd_t)

polaris_tmp_tldlbpersist_setup(polaris_wcncmgrd_t)

logging_send_syslog_msg(polaris_wcncmgrd_t)

# bind CAPWAP control and data
corenets_udp_bind_polaris_capwap_ctr_port(polaris_wcncmgrd_t)
corenets_udp_bind_polaris_capwap_data_port(polaris_wcncmgrd_t)

# wcncmgrd accessing NA certificate to push to AP
type polaris_icap_cert_t;
polaris_pfile_type(polaris_icap_cert_t)

#wncmgrd receives the certificate file from IOSd via IPC
#and writes to /bootflash for ICap feature
#and hence requires access.
gen_require(
  type polaris_icap_cert_t;
  ')
filetrans_pattern(polaris_wcncmgrd_t, polaris_disk_bootflash_t, polaris_icap_cert_t, file, "NACert.pem")
allow polaris_wcncmgrd_t polaris_icap_cert_t:file { write create read open getattr unlink };

#allow tcp connection from http port for awips file download
#from DNAC
corenets_tcp_connect_http_port(polaris_wcncmgrd_t)

#allow read/write/mmap access to awips file
gen_require(
  type polaris_awips_signature_file_t;
  ')
filetrans_pattern(polaris_wcncmgrd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
allow polaris_wcncmgrd_t polaris_awips_signature_file_t:file { map write create read open getattr unlink };

#allow read access to resolv.conf
sysnet_read_config(polaris_wcncmgrd_t)
#ewlc_capwap_dgram_srvr_create_raw_send_socket() creates a socket
    #creates sll.sll_family = AF_PACKET;
    #sll.sll_ifindex = dgram_io_desc->lfts_ifindex;
    #sll.sll_protocol = htons(ETH_P_ALL);

    allow polaris_wncmgrd_t self:packet_socket { create_socket_perms setopt }
    allow polaris_wncmgrd_t self:rawip_socket { create_socket_perms setopt ioctl }

    allow polaris_wncmgrd_t self:capability net_raw;
    corenet_raw_bind_generic_node(polaris_wncmgrd_t)

    gen_require(
        type port_t;
    )
    allow polaris_wncmgrd_t port_t:rawip_socket name_bind;

    # allow tmp symlinks
    fs_read_tmpfs_symlinks(polaris_wncmgrd_t)
    # allow tmp file read
    polaris_install_tmp_read(polaris_wncmgrd_t)

    Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.te
No license file was found, but licenses were detected in source scan.

    #
    # March 2017, Victor Kamensky
    #
    # Copyright (c) 2016-2020 by Cisco Systems, Inc.
    # All rights reserved
    #
    ## <summary>Polaris NVRAM Policy Rules.</summary>

    ###################################################################
    # NVRAM policy
    ###################################################################

    ###################################################################
    ## <summary>
    ## Manage nvram files (location varies by platform)
    ## </summary>
    ## <param name="domain">
    ## <summary>
    ## Domain allowed access.
    ## </summary>
    ## </param>
## <rolebase/>
#
interface('polaris_nvram_manage',
  gen_require(
    type polaris_nvram_file_t;
    type device_t;
  )
)
manage_blk_files_pattern($1, device_t, polaris_nvram_file_t)
manage_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
manage_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')

#################################################################
## <summary>
##      Read nvram files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_nvram_read',
  gen_require(
    type polaris_nvram_file_t;
    type device_t;
  )
)
read_blk_files_pattern($1, device_t, polaris_nvram_file_t)
read_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
read_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')

#################################################################
## <summary>
##      getattr for nvram files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_nvram_getattr',
  gen_require('}
type polaris_nvram_file_t;
    type device_t;
')

        getattr_blk_files_pattern($1, device_t, polaris_nvram_file_t)
    getattr_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
    getattr_link_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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# All rights reserved
#

/usr/cpp/bin/cpp_stats_svr -- gen_context(system_u:object_r:polaris_cpp_stats_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppstats.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#

policy_module(polarisoom, 1.0);

polaris_process_domain_template(oom)

corecmd_exec_bin(polaris_oom_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_oom_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_oom_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_oom_t)
allow polaris_oom_t self:capability sys_resource;
allow polaris_oom_t self:process setpgid;

polaris_btrace_data_manage(polaris_oom_t)
polaris_chasfs_manage(polaris_oom_t)
polaris_cpld_read(polaris_oom_t)
polaris_boot_tmp_read(polaris_oom_t)
polaris_read_debug_conf(polaris_oom_t)
polaris_disk_crashinfo_getattr(polaris_oom_t)
polaris_rmonbifo_tmp_read(polaris_oom_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.te

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

# /mnt/sd1 edison and nyquist
/mnt/sd1(/.*)?  gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/mnt/sd1/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd1/system-report_.*/tar.gz  gen_context(system_u:object_r:polaris_system_report_t,s0)

# /mnt/sd3 edison and nyquist
/mnt/sd3(/.*)?  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/mnt/sd3/user/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/mnt/sd3/user/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd3/user/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd3/user/.ssh(/.*)?  gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/.ssh/ssh_host.*_key.pub  gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/.ssh/ssh_host.*_key  gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/nvram_config --  gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/mnt/sd3/user/debug.conf --  gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/mnt/sd3/user/packages.conf  gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/mnt/sd3/user/dbpersist(/.*)?  gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/mnt/sd3/user/installer(/.*)?  gen_context(system_u:object_r:polaris_disk_install_t,s0)
/mnt/sd3/user/rollback_timer(/.*)?  gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/mnt/sd3/user/kernel/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/mnt/sd3/user/sys_report(/.*)?  gen_context(system_u:object_r:polaris_chasync_files_t,s0)

# /mnt/sd4 nyquist
/mnt/sd4(/.*)?  gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /mnt/sd5 edison and nyquist
ifdef(`edison_platform',`
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd8
/mnt/sd8(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)

# /mnt/sd9
/mnt/sd9(/.*)? gen_context(system_u:object_r:polaris_disk_recovery_t,s0)
')

ifdef(`nyquist_platform',`
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)
#unmount script used ny Nyquist platform
/bin/cat9k_ssd_unmount.sh gen_context(system_u:object_r:polaris_ssd_unmount_exec_t,s0)
')

ifdef(`quake_platform',`
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)
')

# /crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles
/crashinfo gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)

# /flash is symbolic link to /mnt/sd3/user
/flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /lic0 is symbolic link to /mnt/sd4
/lic0 gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /lic1 is symbolic link to /mnt/sd5
/lic1 gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /ngwc_config/nvram is symbolic link to /mnt/sd3/user
/ngwc_config/nvram gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# /flash1 is macallan
/flash1(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/flash1/user/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
# gettysburg_dev1 device
/dev/gettysburg_dev[0-9]* -c gen_context(system_u:object_r:polaris_gettysburg_fpga_device_t,s0)

# types that might be packages label by other policy
ifdef(`nyquist_platform',
/usr/bin/os/bin/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)
/usr/bin/os/bin/cman_fp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/bin/os/bin/cmcc -- gen_context(system_u:object_r:polaris_cm_cc_exec_t,s0)
')
ifdef(`passport_platform',
/usr/bin/os/bin/platform_mgr -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_exec_t,s0)
/usr/bin/os/bin/xcvr_test -- gen_context(system_u:object_r:polaris_xcvr_test_exec_t,s0)
/usr/bin/os/bin/sif_mgr -- gen_context(system_u:object_r:polaris_sif_mgr_exec_t,s0)
/usr/bin/os/bin/cmm -- gen_context(system_u:object_r:polaris_cmm_exec_t,s0)
/usr/bin/os/bin/bt_logger -- gen_context(system_u:object_r:polaris_bt_logger_exec_t,s0)
/usr/bin/os/bin/torchd -- gen_context(system_u:object_r:polaris_torch_exec_t,s0)
/usr/bin/os/bin/swift_sampled -- gen_context(system_u:object_r:polaris_faked_exec_t,s0)
')

# PLEASE LOOK AT ME: why this file in /etc/init.d?
/etc/rc.d/init.d/cat9k_fpgahelper_funcs.sh -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/cat9k_kr_helper.sh -- gen_context(system_u:object_r:bin_t,s0)

# symbolic links in /platform-specific directory
/platform-specific/gryphon -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/gryphon_lite -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/prometheus -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/skyfox -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/vulcan -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/intrepid -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/martion -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/farscape -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/borg -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/scorpion -l gen_context(system_u:object_r:root_t,s0)

# /dev/cisco/dplriomem device, Generic Memory map driver for mapping doppler IO memory to userspace
/dev/cisco/dplriomem -c gen_context(system_u:object_r:polaris_dplr_iomem_mmapdrv_device_t,s0)

/vol/disk0(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /appstore_hd is symbolic link to /vol/disk0
/appstore_hd -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /appstore_flash is symbolic link to /flash1
/appstore_flash -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /rp_srdrv is symbolic link to /flash6/DPU
/rp_srdrv -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /init is symbolic link to /lib/systemd/systemd
/init -l gen_context(system_u:object_r:init_exec_t,s0)
# /install is symbolic link to /flash1/INSTALL
# /install -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /disk0 is symbolic link to /vol/disk0
#/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# provide relabeling rules for /platform-specific/personality file
# otherwise, they cause conflicting specifications error during relabeling
/platform-specific/bigbang/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/nyquist/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/passport/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/starfleet/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/intrepid/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/martian/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/farscape/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/borg/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/imperial/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/jura/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/bigbang/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/nyquist/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/passport/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/starfleet/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/intrepid/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/martian/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/farscape/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/borg/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/imperial/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/jura/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/bigbang/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/nyquist/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/passport/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/starfleet/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/intrepid/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/martian/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/farscape/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/borg/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/scorpion/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/imperial/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/jura/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/intrepid/usr/binos/bin/*?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/martian/usr/binos/bin/*?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/farscape/usr/binos/bin/*?   gen_context(system_u:object_r:bin_t,s0)
/platform-specific/borg/usr/binos/bin/*?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/scorpion/usr/binos/bin/*?   gen_context(system_u:object_r:bin_t,s0)
/platform-specific/imperial/usr/binos/bin/*?   gen_context(system_u:object_r:bin_t,s0)
/platform-specific/jura/usr/binos/bin/*?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/bigbang/bin/*?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/nyquist/bin/*?      gen_context(system_u:object_r:bin_t,s0)
/platform-specific/passport/bin/*?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/starfleet/bin/*?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/intrepid/bin/*?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/martian/bin/*?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/farscape/bin/*?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/borg/bin/*?      gen_context(system_u:object_r:bin_t,s0)
/platform-specific/scorpion/bin/*?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/imperial/bin/*?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/jura/bin/*?      gen_context(system_u:object_r:bin_t,s0)
/platform-specific/bigbang/etc/selinux/*?       gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/nyquist/etc/selinux/*?       gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/passport/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/starfleet/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/intrepid/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/martian/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/farscape/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/borg/etc/selinux/*?       gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/scorpion/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/imperial/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/jura/etc/selinux/*?       gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/quake1/etc/selinux/*?        gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/quake2/etc/selinux/*?        gen_context(system_u:object_r:default_context_t,s0)

# /objstore/.swtam for hybrid TAM access
/objstore/*?       gen_context(system_u:object_r:polaris_disk_objstore_t,s0)
/platform-specific/bigbang/etc/selinux/*?       gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/nyquist/etc/selinux/*?       gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/passport/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/starfleet/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/intrepid/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/martian/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/farscape/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/borg/etc/selinux/*?       gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/scorpion/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/imperial/etc/selinux/*?      gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/jura/etc/selinux/*?       gen_context(system_u:object_r:default_context_t,s0)
# on pangea/bigbang platforms /dev/NVRAM block device is accessed
# by flashlib in iosd. It stores rommon vars
ifdef(`bigbang_platform',
    /dev/NVRAM -b gen_context(system_u:object_r:polaris_flashlib_device_t)
    # /mnt/sd6
    /mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)
')

/vol/usb1(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/mnt/vbd[a-j]2(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/tmp/fpga_upgrade gen_context(system_u:object_r:polaris_fpga_upgrade_tmp_t,s0)

# /ucode0 9300 silent roll
/ucode0(/.*)? gen_context(system_u:object_r:polaris_disk_ucode0_t,s0)

# /dev/cisco/fpgaiomem device, Generic Memory map driver for mapping FPGA IO memory to userspace
/dev/cisco/fpgaiomem -c gen_context(system_u:object_r:polaris_fpga_iomem_mmapfpga_device_t,s0)

# nplusm-power file is located in /bootflash and needs to be accessed by cman-rp/IOSd
/flash1/user/nplusm-power gen_context(system_u:object_r:polaris_nplusm_power_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.fc
No license file was found, but licenses were detected in source scan.

#
# June 2020, Cuiyan Ma
#
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#
/usr/binos/conf/issu_comp_check.sh -- gen_context(system_u:object_r:polaris_issu_comp_check_exec_t,s0)
/tmp/boottime_comp_check_tree_other_rp -d gen_context(system_u:object_r:polaris_issu_comp_check_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisisssucompcheck.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#

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#

### <summary>Polaris repm Policy Rules.</summary>

######################################
## <summary>
##      Manage /tmp/replications files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_repm_tmp_manage',`
    gen_require(`
        type polaris_repm_tmp_t;
    `)
    manage_files_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)
    manage_dirs_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)
`)

######################################
## <summary>
##      Manage /dev/shm/mq.-repm_peer_mq/ files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_repm_peer_mqipc_manage',`
    gen_require(`
        type polaris_repm_peer_mqipc_t;
    `)
    manage_files_pattern($1, polaris_repm_peer_mqipc_t, polaris_repm_peer_mqipc_t)
    allow $1 polaris_repm_peer_mqipc_t:file map;
    polaris_mqipc_create_name_dir($1, polaris_repm_peer_mqipc_t, repm_peer_mq)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.if
No license file was found, but licenses were detected in source scan.

dnl
define(`mqipc_interface_map', `defn(format(``mqipc_interface_map[%s]', `$1'))')
define(`mqipc_interface_map_set', `define(format(``mqipc_interface_map[%s]', `$1'), `$2')')

define(`polaris_mqipc_service_server_many',
  `ifelse($3, `',
          polaris_mqipc_create_name(dollarsone, $1, $2),
          polaris_mqipc_create_name(dollarsone, $1, $2-b$3)
  `ifelse($3, 0, `polaris_mqipc_create_name(dollarsone, $1, $2)', `polaris_mqipc_service_server_many($1, $2,
          eval($3 - 1))')'))

define(`polaris_mqipc_service_server_aux_full', `dnl
  #################################################################
  ## <summary>
  ##	Create $2 mqipc channel.
  ## </summary>
  ## <param name="domain">
  ##	<summary>
  ##	Domain allowed access.
  ##	</summary>
  ## </param>
  ## <infoflow type="none"/>
  
  interface(``polaris_mqipc_$1_create_name'',
           gen_require(`
              type $2;
          ')$3,)')

  #################################################################
  ## <summary>
  ##	Use $2 mqipc channel.
  ## </summary>
  ## <param name="domain">
  ##	<summary>
  ##	Domain allowed access.
  ##	</summary>
  ## </param>
  ## <infoflow type="none"/>
  
  interface(``polaris_mqipc_$1_use'',
             gen_require(`
                type $2;
            ')$3,)')
type $2;
')

polaris_mqipc_use(dollarsone, $2)
"')

define(`polaris_mqipc_service_server_aux',`
ifelse(mqipc_interface_map($1), `', `polaris_mqipc_service_server_aux_full($1, $2, $3))'
mqipc_interface_map_set($1, 1)
')

define(`polaris_mqipc_service_server',`dnl
polaris_mqipc_service_server_aux(mqipc_stem($1), mqipc_label($1),
    polaris_mqipc_service_server_many(mqipc_label($1), $5, max_scope_map($3, $4, $2)))')

define(`polaris_mqipc_service_client',``)

define(`polaris_mqipc_service_server_elastic_client',`dnl
polaris_mqipc_service_server_aux(mqipc_stem($1), mqipc_label($1),
    polaris_mqipc_service_server_many(mqipc_label($1), $5, max_scope_map($4, elastic, $3)))')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_if.m4
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2019 by Cisco Systems, Inc.
# # All rights reserved
#
/dev/lsmpi -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app0 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app1 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app2 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/tmp/pi(/.*)? gen_context(system_u:object_r:polaris_pi_uds_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.fc
No license file was found, but licenses were detected in source scan.

# # November 2020, Christine Hwang
# # Copyright (c) 2017-2021 by Cisco Systems, Inc.
policy_module(polarisbbu, 1.0);

gen_require('  
  type polaris_bbu_t;
')

polaris_btrace_data_manage(polaris_bbu_t)
polaris_chasfs_manage(polaris_bbu_t)
polaris_tdlresolve_read(polaris_bbu_t)
polaris_cpld_read(polaris_bbu_t)

polaris_ripc_sman_ui_serv_connect(polaris_bbu_t)

# Allow I2C Usage
polaris_i2c_use(polaris_bbu_t)
polaris_i2c_sem_manage(polaris_bbu_t)

# Allow sysfs read for platform ID
dev_list_sysfs(polaris_bbu_t)

# Allow bbu to access NVRAM for /flash0/bbu
fs_getattr_tmpfs(polaris_bbu_t)
polaris_nvram_manage(polaris_bbu_t)

# Allow logger which is used for syslog messages
allow polaris_bbu_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_bbu_t)

# tty BBU device
type polaris_bbu_device_t;
dev_node(polaris_bbu_device_t)

polaris_bbu_dev_use(polaris_bbu_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
# # Copyright (c) 2020 by Cisco Systems, Inc.
# # All rights reserved
# <summary>Polaris dmi_ports_fetch Policy Rules.</summary>

########################################
# <summary>
#      Execute a domain transition to run dmi_ports_fetch.
# </summary>
# <param name="domain">
#      <summary>
#      Domain allowed to transition.
#      </summary>
# </param>
#
interface('polaris_dmi_ports_fetch_domtrans',
    gen_require(
        type polaris_dmi_ports_fetch_t, polaris_dmi_ports_fetch_exec_t;
    ')
)

domtrans_pattern($1, polaris_dmi_ports_fetch_exec_t, polaris_dmi_ports_fetch_t)
')

# Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiportsfetch.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2020 by Cisco Systems, Inc.
# # All rights reserved
#

policy_module(polariscliagent, 1.0);

gen_require(' 
    type polaris_cli_agent_t;
')

polaris_btrace_data_manage(polaris_cli_agent_t)
polaris_crft_data_manage(polaris_cli_agent_t)
polaris_chasfs_manage(polaris_cli_agent_t)
polaris_tdlresolve_read(polaris_cli_agent_t)
polaris_tdldb_list_dirs(polaris_cli_agent_t)
polaris_cpld_read(polaris_cli_agent_t)
polaris_flashlib_read(polaris_cli_agent_t)
polaris_ripc_sman_ui_serv_connect(polaris_cli_agent_t)
polaris_db_tdldb_dir_use(polaris_cli_agent_t)
polaris_libciutil_build_config_directory(polaris_cli_agent_t)

# cli_agent /var/run pid file
type polaris_cli_agent_var_run_t;
files_pid_file(polaris_cli_agent_var_run_t)
manage_files_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
manage_dirs_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
files_pid_filetrans(polaris_cli_agent_t, polaris_cli_agent_var_run_t, { file dir })

polaris_cfg_data_manage(polaris_cli_agent_t)

# Provide sys_resource capability as well for sys_pipe calls
allow polaris_cli_agent_t self:capability { dac_override sys_resource };

logging_send_syslog_msg(polaris_cli_agent_t)

#DB persistence
polaris_tdlldbpersist_setup(polaris_cli_agent_t)
polaris_tmp_tdlldb_persist_setup(polaris_cli_agent_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
#
policy_module(polarisflashlib, 1.0);

########################################################################################################
# Flashlib policy (infra/flashlib)
########################################################################################################
type polaris_flashlib_lock_t;
files_type(polaris_flashlib_lock_t)

gen_require('attribute polaris_extended_domain;
')

# /tmp/.flashlock file is used as flashlib lock
gen_require('type init_t;
')
files_tmp_filetrans({ init_t polaris_extended_domain }, polaris_flashlib_lock_t, file, "flashlock")

type polaris_flashlib_log_t;
files_type(polaris_flashlib_log_t)

gen_require(`
    attribute polaris_extended_domain;
')

# /tmp/flashdev.log file is used as flashlib to log
files_tmp_filetrans(polaris_extended_domain, polaris_flashlib_log_t, file, "flashdev.log")

# /dev/shm/flash_shm shared memory
type polaris_flash_shm_t;
files_type(polaris_flash_shm_t)

gen_require(`
    attribute polaris_domain;
    type tmpfs_t;
')
filetrans_pattern(polaris_domain, tmpfs_t, polaris_flash_shm_t, file, "flash_shm")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.te
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#
# July 2017, Victor Kamensky
#
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#
## <summary>Polaris CPLD Policy Rules.</summary>

########################################################################
# Quack Driver policy
########################################################################

########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/quack
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## <param>
interface('polaris_quack_dev_use',
    gen_require(
        type device_t;
        type polaris_quack_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_quack_device_t)
    read_chr_files_pattern($1, device_t, polaris_quack_device_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.if
No license file was found, but licenses were detected in source scan.

# # October 2017, Victor Kamensky 
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#

## <summary>Polaris wstatsd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.if
No license file was found, but licenses were detected in source scan.

dnl
dnl Mar 2020, Manu Roy 
dnl
dnl Copyright (c) 2020 by Cisco Systems, Inc.
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dnl
dnl Petra Platform Max Bay Limits
max_bay_map_set(`rp`, `per_bay`, 0)
max_bay_map_set(`cc`, `per_bay`, 0)
max_bay_map_set(`fp`, `per_bay`, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/petramaps.m4
No license file was found, but licenses were detected in source scan.
policy_module(polariswstatsd, 1.0);

gen_require(
    type polaris_wstatsd_t;
    ')
polaris_btrace_data_manage(polaris_wstatsd_t)
polaris_crft_data_manage(polaris_wstatsd_t)
polaris_chasfs_manage(polaris_wstatsd_t)
polaris_tdlresolve_read(polaris_wstatsd_t)
polaris_tdlldb_list_dirs(polaris_wstatsd_t)
polaris_cpld_read(polaris_wstatsd_t)
polaris_lua_read(polaris_wstatsd_t)
polaris_flashlib_read(polaris_wstatsd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wstatsd_t)
polaris_db_tdlldb_dir_use(polaris_wstatsd_t)

allow polaris_wstatsd_t self:capability dac_override;
allow polaris_wstatsd_t self:udp_socket { bind setopt getattr };
corenet_udp_bind_generic_node(polaris_wstatsd_t)
corenet_udp_bind_polaris_capwap_data_port(polaris_wstatsd_t)
polaris_socketat_nsfs_read(polaris_wstatsd_t)
polaris_lfts_dev_use(polaris_wstatsd_t)
polaris_tdlldbpersist_setup(polaris_wstatsd_t)
polaris_tmp_tdlldbPersist_setup(polaris_wstatsd_t)
logging_send_syslog_msg(polaris_wstatsd_t)
#allow to read /etc/passwd
auth_use_nsswitch(polaris_wstatsd_t)

#this is being given for process to execute tar
corecmd_exec_bin(polaris_wstatsd_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.te
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
#
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# All rights reserved
policy_module(polarisfnfagg, 1.0);

gen_require(
    type polaris_fnf_agg_t;
    
    polaris_btrace_data_manage(polaris_fnf_agg_t)
polaris_crft_data_manage(polaris_fnf_agg_t)
polaris_chasfs_read(polaris_fnf_agg_t)
polaris_tdlresolve_read(polaris_fnf_agg_t)
polaris_lua_read(polaris_fnf_agg_t)
polaris_flashlib_read(polaris_fnf_agg_t)
polaris_cpld_read(polaris_fnf_agg_t)
polaris_ripc_sman_ui_serv_connect(polaris_fnf_agg_t)
polaris_db_tdlldb_dir_use(polaris_fnf_agg_t)

allow polaris_fnf_agg_t self:capability { dac_override dac_read_search };

type polaris_fnf_agg_tmp_t;
files_tmp_file(polaris_fnf_agg_tmp_t)
files_tmp_filetrans(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, dir, "fnf_agg")
manage_files_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_t)
manage_dirs_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_t)

# allow sending files over HTTP
corenent_tcp_connect_http_port(polaris_fnf_agg_t)
sysnet_read_config(polaris_fnf_agg_t)

# allow UDP connection for punting fnf records
allow polaris_fnf_agg_t self:udp_socket { create_socket_perms recv_msg };
corenent_udp_bind_generic_node(polaris_fnf_agg_t)

# allow punting on routers/ewlc where lfts is being used
polaris_lfts_dev_use(polaris_fnf_agg_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.te
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#
# March 2017, Victor Kamensky
#
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#

### <summary>Polaris VXE Platform Policy Rules.</summary>

```c
interface('polaris_objstore_sem_use',

    gen_require('type polaris_objstore_sem_t;
    ')
allow $1 polaris_objstore_sem_t:sem rw_sem_perms;
mmap_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
manage_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
')

####################################
## <summary>
## Work (read, write, ioctl) with /dev/vda1 device
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_grub_efi_use',

    gen_require('type polaris_grub_efi_t;
    ')
write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

####################################
## <summary>
## Search /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_grub_efi_search',

    gen_require('type polaris_grub_efi_t;
    ')
search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')
```

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22442
### <summary>
### Read VXE install info files
### </summary>
### <param name="domain">
###     <summary>
###             Domain allowed access.
###     </summary>
### </param>
#
# interface('polaris_vxeinstall_info_read',
  gen_require(`
  type polaris_vxeinstall_info_t;
`)
read_files_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)
list_dirs_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)
`)

### <summary>
### Read /dev/vda1 device the efi partition
### </summary>
### <param name="domain">
###     <summary>
###             Domain allowed access.
###     </summary>
### </param>
#
# interface('polaris_grub_info_read',
  gen_require(`
  type polaris_grubver_t;
  type polaris_grub_bios_t;
  type polaris_grub_efi_t;
`)
read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
`)

### <summary>
### Manage /dev/vda1 device the efi partition
### </summary>
### <param name="domain">
###     <summary>
### Domain allowed access.

```c
# interface('polaris_grubcfg_manage',
  gen_require(
    type polaris_grub_bios_t;
    type polaris_grub_efi_t;
  ')
manage_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
manage_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
manage_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
manage_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')
```

### Manage regular files/directories under /varied/grub

- CSR manages files in legacy grub disk location
- Also allow run `readlink -f /dev/bootflash`

```c
# interface('polaris_legacy_grub_manage',
  gen_require(
    type boot_t;
    type fixed_disk_device_t;
  ')
manage_files_pattern($1, boot_t, boot_t)
manage_dirs_pattern($1, boot_t, boot_t)
storage_getattr_fixed_disk_dev($1)
')
```

### Work (read, write, ioctl) with /dev/hanet

- Hanet driver used by vpcgw platform of VXE family

```c
# interface('polaris_hanet_manage',
  gen_require(
    type hanet_t;
    type fixed_disk_device_t;
  ')
manage_files_pattern($1, hanet_t, hanet_t)
manage_dirs_pattern($1, hanet_t, hanet_t)
storage_getattr_fixed_disk_dev($1)
')
```
ifdef(`vpcgw_platform',`
interface(`polaris_hanet_dev_use',`
gen_require(`
    type device_t;
type polaris_hanet_device_t;
`)
    write_chr_files_pattern($1, device_t, polaris_hanet_device_t)
    read_chr_files_pattern($1, device_t, polaris_hanet_device_t)
`)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/bins/conf/pman.sh -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/usr/bin/pman -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/bin/gdbserver -- gen_context(system_u:object_r:polaris_gdb_exec_t,s0)
/usr/bin/gdbserver -- gen_context(system_u:object_r:polaris_gdb_exec_t,s0)
/tmp/pman_ports(/.*)? gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/fp/process(/.*)? gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/rp/process(/.*)? gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/vxe_ucode_image gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/wlc_ucode_image gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/utah_ucode_image gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/fugazi_ucode_image gen_context(system_u:object_r:polaris_pman_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Macallan Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 9)
max_bay_map_set(`fp', `per_bay', 9)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 10)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 10)
max_bay_ripc_map_set(`fp', `global', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/macallanmaps.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisissustack, 1.0);

gen_require(
    type polaris_issu_stack_t;
')
corecmd_exec_bin(polaris_issu_stack_t)
corecmd_exec_shell(polaris_issu_stack_t)
# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_issu_stack_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_issu_stack_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_issu_stack_t)

# work with /tmp files (/tmp/issu_stk)
type polaris_issu_stack_tmp_t;
files_tmp_file(polaris_issu_stack_tmp_t)
manage_dirs_pattern(polaris_issu_stack_tmp_t, tmp_t, polaris_issu_stack_tmp_t)
manage_files_pattern(polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
manage_fifo_files_pattern(polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
files_tmp_filetrans(polaris_issu_stack_tmp_t, file)
files_tmp_filetrans(polaris_issu_stack_tmp_t, dir, "issu_stk")

allow polaris_issu_stack_tmp_t self:capability sys_resource;

polaris_btrace_data_manage(polaris_issu_stack_tmp_t)
polaris_chasfs_manage(polaris_issu_stack_tmp_t)
polaris_cpld_read(polaris_issu_stack_tmp_t)
polaris_proc_rmonbifo_read(polaris_issu_stack_tmp_t)
polaris_rmonbifo_tmp_read(polaris_issu_stack_tmp_t)
polaris_boot_tmp_read(polaris_issu_stack_tmp_t)
polaris_tdlresolve_read(polaris_issu_stack_tmp_t)
polaris_disk_crashinfo_getattr(polaris_issu_stack_tmp_t)

allow polaris_issu_stack_tmp_t self:capability dac_override;

polaris_read_debug_conf(polaris_issu_stack_tmp_t)
polaris_flashlib_read(polaris_issu_stack_tmp_t)

allow polaris_issu_stack_tmp_t self:process setpgid;

# modify tdlresolve epoch
polaris_tdlresolve_manage(polaris_issu_stack_tmp_t)

#rsync_exec(polaris_issu_stack_tmp_t)
gen_require('r
    type rsync_t;
')
rsync_entry_domtrans(polaris_issu_stack_tmp_t, rsync_t)
allow rsync_t polaris_issu_stack_tmp_t:self:process sigchld;

# execute rsync over over eobc: /usr/binos/conf/mcp_chvrf.sh eobc rsync
polaris_chvrf_domtrans(polaris_issu_stack_t)
# from chvrf.sh code executes rsync command
gen_require('
    type polaris_chvrf_t;
  ')
rsync_entry_domtrans(polaris_chvrf_t, rsync_t)
# LOOK AT ME: issu_stack.sh leaks fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
manage_fifo_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
write_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)

polaris_install_engine_domtrans(polaris_issu_stack_t)
# LOOK AT ME: isse_stack.sh leak fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
gen_require('
    type polaris_install_engine_t;
  ')
read_fifo_files_pattern(polaris_install_engine_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)

polaris_install_tmp_read(polaris_issu_stack_t)
# access /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_issu_stack_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_issu_stack_t)

# reads /tmp/remote_sw_verinfo.txt
gen_require('  
    type rsync_tmp_t;
  ')
read_files_pattern(polaris_issu_stack_t, rsync_tmp_t, rsync_tmp_t)

# watch over /tmp/tdlresolve/work
polaris_tdlresolve_watch(polaris_issu_stack_t)

# issu_stack.sh access to epoch_merge.lua,epoch_endpoint_update.lua
polaris_lua_read(polaris_issu_stack_t)

# issu_stack.sh access to /tmp/rsync_log_dir
polaris_manage_rsync_tmplog_dir(polaris_issu_stack_t)

# issu_stack.sh access to epoch_merge.lua which merges epoch files, local.epoch and inryterchassis/.epcioh file
#luajit/usr/binos/conf/epoch_merge.lua--base-file/tmp/tdlresolve/epoch_dir/local.epoch
#--merge-file/tmp/tdlresolve/work/inter
allow polaris_issu_stack_t self:process execmem;
#access to /tmp/installer/
polaris_install_tmp_manager(polaris_issu_stack_t)

#access to /tmp/ufs/harddisk
polaris_ncd_tmp_read(polaris_issu_stack_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_stack_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.te
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#
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#
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#

policy_module(polarislmpi, 1.0);

#############################################################################
# Polaris lsmpi
#############################################################################

type polaris_lsmpi_device_t;
dev_node(polaris_lsmpi_device_t)

# note polaris_sysfs_contdev_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

# punt/inject working through unix domain sockets
type polaris_pi_uds_t;
files_tmp_file(polaris_pi_uds_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislmpi.te
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#
# May 2017, Victor Kamensky
#
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#

## <summary>Polaris mdt_pubd Policy Rules.</summary>
# March 2017, Victor Kamensky

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policy_module(polarisemd, 1.0);

gen_require('{
    type polaris_emd_t;
}

polaris_btrace_data_manage(polaris_emd_t)
polaris_crft_data_manage(polaris_emd_t)
polaris_chasfs_manage(polaris_emd_t)
polaris_tdlresolve_read(polaris_emd_t)
polaris_tdlldb_list_dirs(polaris_emd_t)
polaris_cpld_read(polaris_emd_t)
polaris_flashlib_read(polaris_emd_t)
polaris_ripc_sman_ui_serv_connect(polaris_emd_t)
polaris_cpld_dev_use(polaris_emd_t)
devo_read_sysfs(polaris_emd_t)
polaris_obfl_data_manage(polaris_emd_t)
polaris_persistent_read(polaris_emd_t)

allow polaris_emd_t self:capability dac_override;

ifdef('mcp_family',
polaris_scooby_dev_use(polaris_emd_t)
# read/write /sys/bus/i2c/drivers/pca9544/2-0077/reg_control and others
devo_getattr_sysfs_fs(polaris_emd_t)
devo_rw_sysfs(polaris_emd_t)
')

logging_send_syslog_msg(polaris_emd_t)

ifdef('qwlc_platform',
# on qwlc read eeprom through i2c like /sys/devices/i2c-12/12-0050/eeprom
devo_rw_sysfs(polaris_emd_t)
devo_getattr_sysfs_fs(polaris_emd_t)
#sparrow needs access to /dev/i2c*
ifdef(`sparrow_platform',`
gen_require(`
    type polaris_cm_cc_tmpfs_t;
')
polaris_i2c_use(polaris_emd_t)
polaris_i2c_sem_manage(polaris_emd_t)
mmap_files_pattern(polaris_emd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

ifdef(`katar_platform',`
dev_rw_sysfs(polaris_emd_t)
dev_getattr_sysfs_fs(polaris_emd_t)
')

# emd creates udp socket
allow polaris_emd_t self:udp_socket create_socket_perms;

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.te

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#
# March 2017, Victor Kamensky
#
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#
#
## <summary>Polaris polarisdroputil Policy Rules.</summary>

##################################################
## <summary>
##      Manage droputils temporary files and directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_droputil_manage_tmp_files',`
gen_require(`
    type polaris_droputil_tmp_t;
')
manage_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
read_link_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)

')

########################################################################
## <summary>
## Watch droputil_tmp directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_droputil_tmp_watch',
gen_require(''
type polaris_droputil_tmp_t;
')
allow $1 polaris_droputil_tmp_t:dir watch;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.if
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#
# March 2017, Victor Kamensky
#
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#
/tmp/iosd_level -- gen_context(system_u:object_r:polaris_lm_tmp_t,s0)
/tmp/stack_apcount -- gen_context(system_u:object_r:polaris_lm_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define('polaris_ripc_service_server',``)
define('polaris_ripc_service_client',``)
dnl

dnl December 2018, Victor Kamensky

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dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

# Sep 2020, Sridhar C
#
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#

policy_module(polaristlscd, 1.0);

gen_require(
    type polaris_tlscl_t;
    type net_conf_t;
')

polaris_btrace_data_manage(polaris_tlscl_t)
polaris_chasfs_manage(polaris_tlscl_t)
polaris_tdlresolve_read(polaris_tlscl_t)
polaris_tdlldb_list_dirs(polaris_tlscl_t)
polaris_lua_read(polaris_tlscd_t)
polaris_flashlib_read(polaris_tlscd_t)
polaris_chasfs_read(polaris_tlscd_t)
polaris_cpld_read(polaris_tlscd_t)
polaris_db_tdlldb_dir_use(polaris_tlscd_t)

# Related to vrf support of the socket
polaris_lfts_dev_use(polaris_tlscd_t)
polaris_socketat_nsfs_read(polaris_tlscd_t)
polaris_vrf_shm_manage(polaris_tlscd_t)

# TLSCd reads TCP/UDP ports open in VRF_GLOBAL for packet forwarding
# to IOSd or BinOS applications.
kernel_read_net_sysctls(polaris_tlscd_t)
kernel_read_network_state(polaris_tlscd_t)
kernel_search_network_sysctls(polaris_tlscd_t)
allow polaris_tlscd_t net_conf_t:dir search;
allow polaris_tlscd_t net_conf_t:file { getattr open read watch };

# UDS related sockets are:
#/tmp/tlscd/iosd_to_tlscd_0_socket
#/tmp/tlscd/tlscd_to-iosd_0_socket
# IOSd and TLSCd exchange packet over these UDS socket, allow create/bind
type polaris_tlscd_uds_t;
files_tmp_file(polaris_tlscd_uds_t)
polaris_tlscd_uds_manage(polaris_tlscd_t)
polaris_iosd_dgram_send(polaris_tlscd_t)
allow polaris_tlscd_t self:unix_dgram_socket { bind create };

# Tunnel and TLS TCP connection related related
corenets_rw_tun_tap_dev(polaris_tlscd_t)
allow polaris_tlscd_t self:tun_socket create;
corenets_tcp_connect_all_ports(polaris_tlscd_t)

# errmsg
logging_send_syslog_msg(polaris_tlscd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlscd.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
define(`polaris_database_aux',`dnl
type $1:
polaris_tldldb_type($1)
')

define('polaris_database',
dnl
polaris_database_aux(database_label($1))
')

define('polaris_database_process_aux_full',
dnl
gen_require('"
  type $2;
"
polaris_db_tldldb_$1_use($2)
')

define('polaris_database_process_aux',
dnl
ifelse(database_use_map($1, $2), 'polaris_database_process_aux_full($1, $2)')
dnl
database_use_map_set($1, $2, 1)
')

define('polaris_database_process',
dnl
polaris_database_process_aux(database_stem($1), process_label($2))
dnl
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_te.m4
No license file was found, but licenses were detected in source scan.

# January 2021, Gabriel Lee, Shawn Liu
#
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#
### <summary>Polaris ezmanage Policy Rules.</summary>
interface('polaris_ezmanage_domtrans',
    gen_require(
        type polaris_ezmanage_t, polaris_ezmanage_exec_t;
    ')
)

domtrans_pattern($1, polaris_ezmanage_exec_t, polaris_ezmanage_t)
')

#######################################
## <summary>
##  Read files under polaris_ezmanage_file_t label
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
## </param>
#
interface('polaris_manage_ezmanage_files',
    gen_require(
        type polaris_ezmanage_file_t;
    ')
)

manage_files_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
read_lnk_files_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
manage_dirs_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
')

########################################
## <summary>
##  Manage files under polaris_ezmanage_var_run_t label
## </summary>
## <param name="domain">
##<summary>
## Domain allowed access.
##</summary>
##</param>
##<rolecap/>
#
interface('polaris_manage_ezmanage_var_run_files',
    gen_require(
        type polaris_ezmanage_var_run_t;
    ')
)

manage_sock_files_pattern($1, polaris_ezmanage_var_run_t, polaris_ezmanage_var_run_t);
')

Found in path(s):
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# February 2020, Victor Kamensky
#
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#

policy_module(polariscedge, 1.0);

# /tmp/xml handling
type polaris_cedge_xml_tmp_t;
files_tmp_file(polaris_cedge_xml_tmp_t)

# PLEASE LOOK AT ME very strange choice of directory name
# /tmp/tmp/ handling
type polaris_cedge_tmp_t;
files_tmp_file(polaris_cedge_tmp_t)

# /etc/viptela handling
type polaris_cedge_etc_t;
files_config_file(polaris_cedge_etc_t)

# /dev/shm handling
type polaris_cedge_tmpfs_t;
files_tmpfs_file(polaris_cedge_tmpfs_t)

# /tmp/.econfd2sysmgr-ipc handling
type polaris_econfd2sysmgr_tmp_t;
files_tmp_file(polaris_econfd2sysmgr_tmp_t)

# vconfd_script_reboot.sh policy
polaris_vconfd_domain_template(vconfd_reboot)

# vconfd_script_if_reset.sh policy
polaris_vconfd_domain_template(vconfd_ifreset)

# vconfd_script_get_config.sh policy
polaris_vconfd_domain_template(vconfd_cfg)

# performs 'rm /tmp/xml/Pfr/Pfr-1600801323.xml.gz'....but, do not know where
polaris_cedge_tmp_manage(polaris_vconfd_history_t)

# performs 'ls -rt /tmp/xml/UtdUrlf-IOX' etc.
polaris_cedge_xml_tmp_manage(polaris_vconfd_history_t)

# vconfd_script_manage_list_stats.sh performs operations on
# /tmp/vconfd/stats.XXXXXX
polaris_vconfd_tmp_manage(polaris_vconfd_history_t)

################################################################################
# software policy
polaris_vconfd_domain_template(vconfd_software)

# nms policy
polaris_vconfd_domain_template(vconfd_nms)

# device policy
polaris_vconfd_domain_template(vconfd_device)

# internal policy
polaris_vconfd_domain_template(vconfd_reset)

# cert policy
polaris_vconfd_domain_template(vconfd_cert)

################################################################################
# csr policy
polaris_vconfd_domain_template(vconfd_csr)

# vconfd_script_show_csr.sh invokes vlog
# /bin/sh vlog ....
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - create/connect unix_dgram_socket
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_vconfd_csr_t)
corecmd_exec_bin(polaris_vconfd_csr_t)

# reads /usr/share/viptela/server.csr
polaris_bootflash_read(polaris_vconfd_csr_t)

################################################################################
# serial vsmart-upload vedge-upload policy
polaris_vconfd_domain_template(vconfd_serialnum)

# crash policy
polaris_vconfd_domain_template(vconfd_crash)

# aaa policy
polaris_vconfd_domain_template(vconfd_aaa)

# container policy
polaris_vconfd_domain_template(vconfd_contr)

# iox policy
polaris_vconfd_domain_template(vconfd_iox)

# utd policy
polaris_vconfd_domain_template(vconfd_utd)

# geo policy
polaris_vconfd_domain_template(vconfd_geo)

# vconfd_script_vnping.sh, vconfd_script_vping.sh, vconfd_script_vtraceroute.sh
# scripts policy
polaris_vconfd_domain_template(vconfd_net)

# runs ip command
sysnet_domtrans_ifconfig(polaris_vconfd_net_t)
# runs confd_cmd
corecmd_exec_bin(polaris_vconfd_net_t)

polaris_confnd_connect(polaris_vconfd_net_t)

# /tmp/ polaris_vconfd_cert_t handling
type polaris_vconfd_cert_tmp_t;
files_tmp_file(polaris_vconfd_cert_tmp_t)
files_tmp_filetrans(polaris_vconfd_cert_t, polaris_vconfd_cert_tmp_t, { file dir })
polaris_vconfd_cert_tmp_manage(polaris_vconfd_cert_t)

# permit access to polaris_vconfd_cert_t
allow polaris_vconfd_cert_t self:capability { chown dac_override };

logging_send_syslog_msg(polaris_vconfd_cert_t)

corecmd_sbin_entry_type(polaris_vconfd_cert_t)
corecmd_shell_entry_type(polaris_vconfd_cert_t)

fs_read_nsfs_files(polaris_vconfd_cert_t)
logging_create_devlog_dev(polaris_vconfd_cert_t)

# to access the /bootflash: as the cert is stored in /bootflash:
# IOS cert related CLIs can create/store the certs in /bootflash with any
# file name(s), so allow generic access to bootflash.
polaris_bootflash_manage(polaris_vconfd_cert_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vconfd_cert_t)
polaris_cedge_reset_ns(polaris_vconfd_cert_t)

# needed for accessing /tmp/chassis/local/tp/chasfs/midplane/chassis_model
polaris_chasfs_read(polaris_vconfd_cert_t)

#access to /etc/viptela
gen_require(')
    type polaris_nginx_t;
')
polaris_cedge_etc_manage(polaris_nginx_t)

# For "confd_cmd", allow polaris_vconfd_cert_t, which is not a Binos process,
# to access polaris_confd_ipc_ripc_port_t.
polaris_ripc_confd_ipc_connect(polaris_vconfd_cert_t)

# permit to access /var/run/netns/default
sysnet_manage_ifconfig_run(polaris_vconfd_cert_t)

# vconfd_script_show_root_ca_cert.sh performs operations on
# /tmp/vconfd/root_cert.XXXXXX
polaris_vconfd_tmp_manage(polaris_vconfd_cert_t)
fs_getattr_tmpfs(polaris_vconfd_cert_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedge.te
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#

###<summary>Polaris CPLD Policy Rules.</summary>

##############################################################################
# CPLD Driver policy
##############################################################################

##############################################################################
###<summary>
### Read cpld files in /sys directory
### </summary>
###<param name="domain">
### <summary>
### Domain allowed access.
interface('polaris_cpld_read',
    gen_require(
        type polaris_sysfs_cpld_t;
        type sysfs_t;
    ')
    read_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
    # genfscon statement specifically excludes symbolic links from
    # genfscon path specific entries. To workaround, let us allow
    # to follow sysfs_t symbolic links
    allow $1 sysfs_t:lnk_file { read getattr };
    list_dirs_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
')

interface('polaris_cpld_write',
    gen_require(
        type polaris_sysfs_cpld_t;
        type sysfs_t;
    ')
    manage_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
    manage_dirs_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
    # genfscon statement specifically excludes symbolic links from
    # genfscon path specific entries. To workaround, let us allow
    # to follow sysfs_t symbolic links
    allow $1 sysfs_t:lnk_file { read getattr };
interface('polaris_cpld_dev_use',
    type device_t;
    type polaris_cpld_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_cpld_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
    allow $1 polaris_cpld_device_t:chr_file map;
')

'### <summary>
### Work (read,ioctl) with /dev/cpld
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

interface('polaris_cpld_dev_read',
    gen_require(
        type device_t;
        type polaris_cpld_device_t;
    )
    read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.if
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#
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#

policy_module(polariscrankshaft, 1.0);

# spa devices i.e sys_platform_module_1ng
type polaris_sp_device_t;
dev_node(polaris_sp_device_t)

# htdp device
type polaris_htdp_device_t;  
dev_node(polaris_htdp_device_t)

# bde device (/dev/linux-user-bde)  
type polaris_bde_device_t;  
dev_node(polaris_bde_device_t)

# dash fpga device (/dev/dash_fpga)  
type polaris_dash_device_t;  
dev_node(polaris_dash_device_t)

# nios device (/dev/nios)  
type polaris_nios_device_t;  
dev_node(polaris_nios_device_t)

# qae device (/dev/qae_mem)  
type polaris_qae_device_t;  
dev_node(polaris_qae_device_t)

# moka fpga device (/dev/moka_fpga)  
type polaris_mokafpga_device_t;  
dev_node(polaris_mokafpga_device_t)

# sirius fpga device (/dev/sirius_fpga)  
type polaris_siriusfpga_device_t;  
dev_node(polaris_siriusfpga_device_t)

# moka nim device (/dev/nim_dm*)  
type polaris_nim_dm_device_t;  
dev_node(polaris_nim_dm_device_t)

# /dev/bp_async device on nanook platform  
type polaris_bp_async_device_t;  
dev_node(polaris_bp_async_device_t)

# /dev/sparrow_psu device on sparrow platform  
type polaris_sparrow_psu_device_t;  
dev_node(polaris_sparrow_psu_device_t)

# /dev/nutella_fpga device on nutella platform  
type polaris_nutella_fpga_device_t;  
dev_node(polaris_nutella_fpga_device_t)

# /dev/huron_fpga on Sumatra platform  
type polaris_huron_device_t;  
dev_node(polaris_huron_device_t)

# /dev/dplr_sumatra on Sumatra platform
type polaris_sumatra_doppler_device_t;
device_node(polaris_sumatra_doppler_device_t)

# /tmp/sata_status for mSATA
type polaris_sata_status_tmp_t;
files_tmp_file(polaris_sata_status_tmp_t)

# TSN tsn_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_NGWC_FED - crankshaft_platform.tdl refers it but
# tsn_platform.tdl does not contain such definition.
ifdef(`tsn_platform',`
type polaris_ngwc_fed_t;
')

# Supernova supernova_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_FM_RP - crankshaft_platform.tdl refers it but
# supernova_platform.tdl does not contain such definition.
ifdef(`supernova_platform',`
type polaris_fman_rp_t;
')

# Nanook
# The Nanook platform does not support SDWAN and so the SDWAN processes are not
# defined in the nanook_platform.tdl. However, it uses the database_def's from
# the crankshaft_platform.tdl, which do have the SDWAN databases. So we need to
# add the processes to the SELinux policy
ifdef(`nanook_platform',`
type polarisCfgmgr_t;
type polarisExp_t;
type polarisDbgd_t;
type polarisFpm_t;
type polarisFtm_t;
type polarisOmp_t;
type polarisSdavc_proxy_t;
type polarisTtm_t;
type polarisVdaemon_t;
type polarisHtx_t;
')

# load_usbnet policies start
# /usr/bin/os/conf/load_usbnet.sh is invoked to load usb network driver module
# kernel/drivers/net/usb/usbnet.ko for TSN.

polaris_process_domain_template(load_usbnet)

# allow polaris_load_usbnet_t access to execute programs in system bin dirs, load
# usbnet.ko for USB network interface for TSN and allow read access
# to /sys/class/net and /proc/cmdline
# LOOK AT ME: /tmp/rp/pvp/work/inot_fifo inotifywait fd leak to child
corecmd_exec_bin(polaris_load_usbnet_t)
modutils_exec_insmmod(polaris_load_usbnet_t)
modutils_list_module_config(polaris_load_usbnet_t)
modutils_read_module_config(polaris_load_usbnet_t)
sysnet_manage_config_dirs(polaris_load_usbnet_t)
polaris_pyp_stdin_read(polaris_load_usbnet_t)
files_read_kernel_modules(polaris_load_usbnet_t)
dev_rw_sysfs(polaris_load_usbnet_t)
kernell_read_system_state(polaris_load_usbnet_t)

# stdout inherited from unconfined_service that might call it
polaris_unconfined_service_fifo_file_manage(polaris_load_usbnet_t)

# handle /tmp/load_usbnet_intf
type polaris_load_usbnet_tmp_t;
files_tmp_file(polaris_load_usbnet_tmp_t)
files_tmp_filetrans(polaris_load_usbnet_t, polaris_load_usbnet_tmp_t, file)
manage_files_pattern(polaris_load_usbnet_t, polaris_load_usbnet_tmp_t, polaris_load_usbnet_tmp_t)

# allow read of /etc/passwd
# allow map permission
# passwd_file_t:file { getattr open read };
auth_map_passwd(polaris_load_usbnet_t)

########################################################################
# load_usbnet policies end
########################################################################

########################################################################
# CLI: show platform hardware msata <status/info>
########################################################################
ifdef(`crankshaft_family',`
gen_require(`
    type polaris_sysfs_ggpio_t;
    type polaris_msata_info_t;
')
polaris_utility_domain_template(msata_info)
polaris_bexecute_domain(polaris_msata_info_t, polaris_msata_info_exec_t)
# need write for pipes like "pipe:[70623]"
corecmd_exec_bin(polaris_msata_info_t)
# need write/getattr for pipes like "pipe:[71322]"
polaris_cmmp_use_fifo(polaris_msata_info_t)
fstools_domtrans(polaris_msata_info_t)
# allow use of mSATA device
polaris_nvram_manage(polaris_msata_info_t)
# allow self
allow polaris_msata_info_t self:capability sys_rawio;
allow polaris_msata_info_t self:process setfscreate;
# allow /usr/shin/smartctl to access /sys/devices/platform/cpn-110-master/
# cpn-110-master:config-space/f2540000.sata/ata2/host1/scsi_host/host1/proc_name and
# /sys/devices/platform/cpn-110-master/cpn-110-master:config-space/f2540000.sata/
# ata2/host1/target1:0:0
read_files_pattern(polaris_msata_info_t, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
dev_list_sysfs(polaris_msata_info_t)
# allow smartctl to access to /dev/sda to determine its lifetime
storage_raw_read_fixed_disk(polaris_msata_info_t)

# CLI: show platform hardware slot p[x] fan eeprom
polaris_utility_domain_template(smart_fan)
polaris_bexecute_domain(polaris_smart_fan_t, polaris_smart_fan_exec_t)
# allow /ls command
corecmd_exec_bin(polaris_smart_fan_t)
# allow read of /etc/passwd
auth_map_passwd(polaris_smart_fan_t)
# allow read of /sys/devices/platform/nios/*
dev_read_sysfs(polaris_smart_fan_t)
# need write/getattr access for pipes like "pipe:[86004]"
polaris_cmmp_use_fifo(polaris_smart_fan_t)

# sumatra and sparrow platforms need map access for "show platform hardware msata status | lifetime"
auth_map_passwd(polaris_msata_info_t)
)

ifdef(`sumatra_platform',`
# During "show platform hardware msata status | lifetime" - msata_info.sh accesses /tmp/sata_status
files_tmp_filetrans(polaris_msata_info_t, polaris_sata_status_tmp_t, file)
manage_files_pattern(polaris_msata_info_t, polaris_sata_status_tmp_t, polaris_sata_status_tmp_t, polaris_sata_status_tmp_t)
')

******************************************************************************
# show platform hardware msata end
******************************************************************************

#type for /dev/qcqmiX
type qcqmi_device_t;
dev_node(qcqmi_device_t);

# sm_nim_adpt device (/dev/sm_nim_adpt_xxx )
type polaris_sm_nim_adpt_device_t;
dev_node(polaris_sm_nim_adpt_device_t)

# dio device
type polaris_dio_device_t;
dev_node(polaris_dio_device_t)

# tty NMEA device
type polaris_tty_NMEA_device_t;
dev_node(polaris_tty_NMEA_device_t)

# memory blocks and gpp on Nutella-XE platform
type polaris_nutella_memory_block_p7_t;
dev_node(polaris_nutella_memory_block_p7_t)

type polaris_nutella_memory_block_p1_t;
dev_node(polaris_nutella_memory_block_p1_t)

type polaris_nutella_memory_block_boot_t;
dev_node(polaris_nutella_memory_block_boot_t)

type polaris_nutella_gp0_t;
dev_node(polaris_nutella_gp0_t)

type polaris_nutella_gpp_t;
dev_node(polaris_nutella_gpp_t)

# nim device (/dev/nim_phy)
type polaris_nim_phy_device_t;
dev_node(polaris_nim_phy_device_t)

type polaris_cwan_svr_var_run_t;
files_pid_file(polaris_cwan_svr_var_run_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.te
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#

## <summary>Polaris epc_ws_liaison Policy Rules.</summary>

interface('polaris_epc_ws_liaison_tmp_read',
gen_require(`
    type polaris_epc_ws_liaison_tmp_t;
`)
read_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
`)

############################################################################
## <summary>
##      Allow to open, write, add_name and write /tmp/epc_ws/fed_to_wif_pipe file.
##      Allow to create and write /tmp/epc_ws dir.
## </summary>
## <param name="domain">
##      <summary>
##      epc_ws_liaison and ngwc-fed fifo_file interaction.
##      </summary>
## </param>
#
interface(`polaris_epc_ws_liaison_fifo_manage',`
    gen_require(`
        type polaris_epc_ws_liaison_tmp_t;
    `)
    manage_dirs_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
    manage_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
`)

############################################################################
## <summary>
##      Allow to open, read "/tmp/epc_ws/wif_to_ts_pipe" fifo file.
## </summary>
## <param name="domain">
##      <summary>
##      epc_ws_liaison and dumpcap fifo_file interaction.
##      </summary>
## </param>
#
interface(`polaris_epc_ws_liaison_fifo_read',`
    gen_require(`
        type polaris_epc_ws_liaison_tmp_t;
    `)
    read_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
`)

############################################################################
## <summary>
##      Allow to write, create, unlink "/tmp/*.pcapng" temporary files.
## </summary>
## <param name="domain">
##      <summary>
##      polaris_wireshark_show fifo_file interaction.
##      </summary>
## </param>
#
interface(`polaris_wireshark_show_tmp_manage',`
   gen_require(`
       type polaris_wireshark_show_tmp_t;
    ')
   manage_files_pattern($1, polaris_wireshark_show_tmp_t, polaris_wireshark_show_tmp_t)
')
########################################
## <summary>
##	Create, read, and write temporary files.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
##</summary>
## </param>
#
interface(`polaris_epc_ws_liaison_tmp_file',`
   gen_require(`
       type polaris_epc_ws_liaison_tmp_t;
    ')
   files_tmp_filetrans($1, polaris_epc_ws_liaison_tmp_t, dir, "epc_ws")
')

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.if
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policy_module(polariscxp, 1.0);

gen_require(`
   type polaris_cxp_t;
')
polaris_chasfs_read(polaris_cxp_t)
polaris_cpld_read(polaris_cxp_t)

---

**Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 22469**
logging_send_syslog_msg(polaris_cxp_t)

# vconfd_load_shared_schemas
polaris_conf_shared_schema_read(polaris_cxp_t)

corecmd_exec_bin(polaris_cxp_t)
corecmd_exec_shell(polaris_cxp_t)
auth_use_nsswitch(polaris_cxp_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_cxp_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_cxp_t)

#/var/run/cxp dir and pid
type polaris_cxp_var_run_t;
files_pid_file(polaris_cxp_var_run_t)
manage_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_dirs_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_sock_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
files_pid_filetrans(polaris_cxp_t, polaris_cxp_var_run_t, { file dir sock_file })
polaris_ttm_var_sock_write(polaris_cxp_t)

# vip_execute_nowait uses setpgid
allow polaris_cxp_t self:process setpgid;

# cexp may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_cxp_t)

# Allow /usr//cxpd manages /usr/binos/conf/global.service.conf and
# /tmp/tdlresolve/
polaris_tdlresolve_manage(polaris_cxp_t)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.te
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#
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#
#
/usr/binos/conf/viptela-start.sh -- gen_context(system_u:object_r:polaris_cedge_start_exec_t,s0)
dnl

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dnl
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dnl
divert(-1)

include(`polaris_process.m4')

include(`polaris_database_db.m4')
include(`polaris_database_db_te.m4')

include(`polaris_max_scope.m4')

divert(0)dnl

#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformdbauto, 1.0);

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#

### <summary>Polaris vman Policy Rules.</summary>

#########################################################################
### <summary>
###  Read files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
### </summary>
### <param name="domain">
###  Domain allowed access.
### </param>
# interface('polaris_vman_tmp_read',
    gen_require(
        type polaris_vman_tmp_t;
    )
    read_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
    )

#############################################################
## <summary>
##      Write files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_vman_tmp_write',
    gen_require(
        type polaris_vman_tmp_t;
    )
    write_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
    )

#############################################################
## <summary>
##      Manage dir/files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_vman_tmp_manage',
    gen_require(
        type polaris_vman_tmp_t;
    )
    manage_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
    manage_dirs_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
    )

#############################################################
## <summary>
##      Read files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/) 
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_vman_read',
    gen_require('  
    type polaris_disk_vman_t;
    ')
read_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
read_lnk_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
list_dirs_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
')

#######################################
## <summary>
##      List files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_vman_dir_list',
    gen_require('  
    type polaris_disk_vman_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    ')
list_dirs_pattern($1, { polaris_disk_vman_t polaris_disk_bootflash_t polaris_disk_harddisk_t },
polaris_disk_vman_t)
')

#######################################
## <summary>
##      Operate on @vman_domain_socket unix socket. Look at
## vman_clnt_msg_transport_init function in vman_clnt_msg_uds.c
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_vman_use_client_socket',
    gen_require('  
    ')}
type polaris_vman_t;
)
allow $1 polaris_vman_t:unix_stream_socket connectto;
)

#######################################
## <summary>
##      Manage /tmp/xml/
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_vman_log_files_manage',`
  optional_policy(`
    gen_require(`
      type polaris_vman_log_t;
    )

    manage_files_pattern($1, polaris_vman_log_t,polaris_vman_log_t)
    manage_dirs_pattern($1, polaris_vman_log_t, polaris_vman_log_t)
  )
)

#######################################
## <summary>
##      Read files of type polaris_var_vman_t (e.g., /var/virtual-instance)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vman_var_read',`
  gen_require(`
    type polaris_var_vman_t;
  )

  list_dirs_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
  read_files_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
)

#######################################
## <summary>
## <summary>
##      Write into fifo file created by vman, typical case when
##      vman starts script under popen in different domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolecap/>
#
interface('polaris_vman_use_fifo',
    gen_require(
        type polaris_vman_t;
    ')
    read_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
    write_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
')

#################################################################
## <summary>
##      Check existence (getattr) of vman btrace file (i.e
## polaris_vman_bt_t)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_vman_bt_getattr',
    gen_require(
        type polaris_vman_bt_t;
        type polaris_btrace_base_t;
    ')
    getattr_files_pattern($1, polaris_btrace_base_t, polaris_vman_bt_t))

#################################################################
## <summary>
##      Allow domain to write to pipes connected to virtlogd_t.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vman_virtlog_allow',
  gen_require(
    type virtlogd_t;
  )
)

#allow domain to write to pipes
allow $1 virtlogd_t:fifo_file rw_inherited_fifo_file_perms;

#allow virtlogd_t to search dirs /var/log/libvirt/qemu
logging_search_logs(virtlogd_t)

########################################
## <summary>
##      Allow polaris_vman_t to kill process from domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vman_kill_process',
  gen_require(
    type polaris_vman_t;
  )
  allow polaris_vman_t $1:process sigkill;
)

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  */opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.if
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#
# August 2017, Victor Kamensky
#
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#
## <summary>Polaris tws Policy Rules.</summary>

###################################################################
##<summary>
##     Allow the specified domain to manage KGV data files
##     I.e /tmp/package_biv_sums.
## </summary>
## <param name="domain">

### <summary>
Domain allowed access.
### </summary>
### </param>
#
```
interface('polaris_kgv_data_manage',
        gen_require(
            type polaris_kgv_data_t;
        ')

manage_files_pattern($1, polaris_kgv_data_t, polaris_kgv_data_t)
allow $1 polaris_kgv_data_t:file map;
')
```

### <summary>
Execute a domain transition to run code_sign_verify
### </summary>
### <param name="domain">
### <summary>
Domain allowed to transition.
### </summary>
### </param>
#
```
interface('polaris_code_verify_domtrans',
        gen_require(
            type polaris_code_verify_t, polaris_code_verify_exec_t;
        ')

domtrans_pattern($1, polaris_code_verify_exec_t, polaris_code_verify_t)
')
```

### <summary>
Execute a domain transition to the polaris_hw_upgrade
### </summary>
### <param name="domain">
### <summary>
Domain allowed to transition.
### </summary>
### </param>
#
```
interface('polaris_hw_upgrade_domtrans',
        gen_require(
            type polaris_hw_upgrade_t, polaris_hw_upgrade_exec_t;
        ')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_hw_upgrade_exec_t, polaris_hw_upgrade_t)

')

########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/aikido device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_aikido_dev_use',
  gen_require(`
    type device_t;
    type polaris_aikido_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_aikido_device_t)
  read_chr_files_pattern($1, device_t, polaris_aikido_device_t)
')

########################################################################
## <summary>
## Execute a domain transition to the polaris_rom_upgrade
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_rom_upgrade_domtrans',
  gen_require(`
    type polaris_hw_upgrade_t, polaris_rom_upgrade_exec_t;
  ')
  corecmd_search_bin($1)
  domtrans_pattern($1, polaris_rom_upgrade_exec_t, polaris_rom_upgrade_t)
')

########################################################################
## <summary>
## Write into fifo file created during rommon_upgrade
## </summary>
## <param name="domain">
##<summary>
## Domain allowed access.
## </summary>
## </param>
## <rolecap/>
#
interface('polaris_rom_upgrade_use_fifo',
gen_require(
type polaris_rom_upgrade_t;
')

    write_fifo_files_pattern($1, polaris_rom_upgrade_t, polaris_rom_upgrade_t)
')

#########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/scansta device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_scansta_dev_use',
gen_require(
type device_t;
type polaris_scansta_device_t;
')

    write_chr_files_pattern($1, device_t, polaris_scansta_device_t)
    read_chr_files_pattern($1, device_t, polaris_scansta_device_t)
')

Found in path(s):
* /opt/cola/permissions/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/tmp/*.chasfs(/.*)? gen_context(system_u:object_r:polaris_chasfs_t:s0)

/tmp/chassis/local/*.chasfs(/.*) gen_context(system_u:object_r:polaris_chasfs_t:s0)
/tmp/chassis gen_context(system_u:object_r:polaris_chasfs_t:s0)
/tmp/chassis(/.*) gen_context(system_u:object_r:polaris_chasfs_t:s0)
/tmp/*.chasync(/*)?: gen_context(system_u:object_r:polaris_chasync_tmp_t,s0)
/vol/harddisk/sys_report(/*)?: gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/vol/harddisk/fp_cc_crash(/*)?: gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/var/log/chasync(/*)?: gen_context(system_u:object_r:polaris_chasync_log_t,s0)

/usr/binos/conf/chasync.sh -- gen_context(system_u:object_r:polaris_chasync_exec_t,s0)

# real path is /etc/init.d/chasfs_boottime.sh but we need to add rc.d because
# in file_contexts.subs_dist we have substitute rule for /etc/init.d/
/etc/rc.d/init.d/chasfs_boottime.sh -- gen_context(system_u:object_r:polaris_chasfs_boottime_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/tmp/.CRDU_COMMAND_PIPE gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
/tmp/.CRDU_RESPONSE_PIPE gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)

/usr/binos/conf/trans_ports_helper.sh -- gen_context(system_u:object_r:polaris_trans_ports_helper_exec_t,s0)
/usr/binos/conf/trans_stats_helper.sh -- gen_context(system_u:object_r:polaris_trans_stats_helper_exec_t,s0)
/usr/binos/conf/mcp_disk_oir.sh -- gen_context(system_u:object_r:polaris_disk_oir_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarissmand, 1.0);

gen_require(`
    type polaris_smand_t;
    type polaris_smand_exec_t;
`)

polaris_btrace_data_manage(polaris_smand_t)
polaris_crft_data_manage(polaris_smand_t)
polaris_chasfs_manage(polaris_smand_t)
polaris_tdlresolve_read(polaris_smand_t)
polaris_tdlldb_list_dirs(polaris_smand_t)
polaris_cpld_read(polaris_smand_t)
polaris_lua_read(polaris_smand_t)
polaris_flashlib_read(polaris_smand_t)

polaris_send_signal_to_bexecute(polaris_smand_t)
polaris_ripc_sman_ui_serv_connect(polaris_smand_t)
polaris_db_tdlldb_dir_use(polaris_smand_t)

type polaris_crdu_pipe_tmp_t;
files_tmp_file(polaris_crdu_pipe_tmp_t)

files_tmp_filetrans(polaris_smand_t, polaris_crdu_pipe_tmp_t, fifo_file, ".CRDU_COMMAND_PIPE")
files_tmp_filetrans(polaris_smand_t, polaris_crdu_pipe_tmp_t, fifo_file, ".CRDU_RESPONSEPIPE")
polaris_smand_crdu_pipe_manage(polaris_smand_t)

# work with /tmp/sman files

type polaris_smand_tmp_t;
files_tmp_file(polaris_smand_tmp_t)
manage_dirs_pattern(polaris_smand_t, polaris_smand_tmp_t, polaris_smand_tmp_t)
manage_files_pattern(polaris_smand_t, polaris_smand_tmp_t, polaris_smand_tmp_t)
files_tmp_filetrans(polaris_smand_t, polaris_smand_tmp_t, { file dir })

# allow read of /etc/group
auth_use_nsswitch(polaris_smand_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_smand_t)

# allow objstore access
polaris_disk_objstore_read(polaris_smand_t)

# on edison smand shares sysv semaphore with iosd, why sem got initrc_t label
# is not clear.
gen_require(`
type initrc_t;
`)
allow polaris_smand_t initrc_t:sem { read write unix_write associate }

# why smand needs all these capability?
allow polaris_smand_t self:capability { dac_override chown fsetid }
allow polaris_smand_t self:capability2 block_suspend;
allow polaris_smand_t self:capability sys_resource;
# on edison smand wants to read /proc/mtd which is proc_t
# type=AVC msg=audit(1478481219.216:6): avc: denied { read } for pid=5410 comm="smand" name="mtd"
dev="proc" ino=4026535811 scontext=u0system_r.polaris_smand_t:s0
tcontext=u0object_r:proc_t:s0 tclass=file
# try to drop it latter
kernel_read_system_state(polaris_smand_t)

# on edison silent roll package is still in iso format
# type=AVC msg=audit(1478497356.229:7): avc: denied { getattr } for pid=5816 comm="smand"
path="/tmp/sw/mount/cat3k_caa-srdriver.2016-11-06_21.10_kamensky.SSA.pkg/usr/binos/lib64" dev="loop7"
ino=3456 scontext=u0system_r.polaris_smand_t:s0 tcontext=u0object_r:iso9660_t:s0 tclass=dir
gen_require('type iso9660_t;')
    allow polaris_smand_t iso9660_t:dir { search getattr; }

polaris_dyncfg/tmp_read(polaris_smand_t)

corecmd_exec_shell(polaris_smand_t)

# CLI "Show install issu history" invokes /usr/binos/conf/install_issu_show.py which
# needs /usr/bin/python3(bin file) execution
corecmd_exec_bin(polaris_smand_t)

# smand execute install_show.sh in its own domain need read results
polaris_install_show_tmp_read(polaris_smand_t)

# during boot issu_boottime.sh calls smand to obtain some information
gen_require('')
type unconfined_service_t;
    )
domtrans_pattern(unconfined_service_t, polaris_smand_exec_t, polaris_smand_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# ioctl(fd, SIOCGIFADDR, &ifr); on "system" interface name, which normally
# does not exist in Polaris platforms
kernel_dontaudit_request_load_module(polaris_smand_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# statfs64 for /flash directory
fs_getattr_xattr_fs(polaris_smand_t)
polaris_disk_bootflash_read_lnk(polaris_smand_t)
polaris_disk_bootflash_search(polaris_smand_t)

gen_require('')
type rsync_t;
    )
# upon exec rsync inherits smand's stdout/stderr fifo files
allow rsync_t polaris_smand_t:fifo_file write;

gen_require(
    type polaris_bshell_t;
')
polaris_chasfs_read(polaris_bshell_t)
polaris_tdlresolve_read(polaris_bshell_t)

# bshell memory logs related
type polaris_memmon_tmp_files_t;
files_tmp_file(polaris_memmon_tmp_files_t)
files_tmp_filetrans(unconfined_service_t, polaris_memmon_tmp_files_t, dir, "memmon_logs")
## give bshell permissions
manage_files_pattern(polaris_bshell_t, polaris_memmon_tmp_files_t, polaris_memmon_tmp_files_t)

# sman needs to access gnmib gnoi images
optional_policy(
    polaris_gnmib_gnoi_images_read(polaris_smand_t)
')

# CLI "Show install issu history" access to "/bootflash/.installer/install_issu_history"
# and "/tmp/show_install_output.txt"
polaris_install_engine_domtrans(polaris_smand_t)
polaris_install_show_domtrans(polaris_smand_t)

# xcopy_script gets called for xcopy RPC data model
polaris_xcopy_script_domtrans(polaris_smand_t)

# "sh ip ports" CLI policies, execute trans_ports_helper.sh script
polaris_utility_domain_template(trans_ports_helper)
# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_ports_helper_exec_t, polaris_trans_ports_helper_t)
#binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_ports_helper_t)
# execute "tail" command
corecmd_exec_bin(polaris_trans_ports_helper_t)
corecmd_exec_shell(polaris_trans_ports_helper_t)
polaris_proc_fd_all_getattr(polaris_trans_ports_helper_t)
# getattr all polaris_domain
domain_getattr_all_domains(polaris_trans_ports_helper_t)
# run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_ports_helper_t)
fs_read_nsfs_files(polaris_trans_ports_helper_t)

# Lsof options tcp reads /proc/net/raw
kernel_read_network_state(polaris_trans_ports_helper_t)
# Is access to /proc/3792/fd/6 triggers sys_ptrace capability
allow polaris_trans_ports_helper_t self:capability { sys_ptrace };

# allow file and directory read and execute permission checks
allow polaris_trans_ports_helper_t self:capability dac_read_search;

# map /etc/passwd
auth_use_nsswitch(polaris_trans_ports_helper_t)

type polaris_trans_ports_tmp_t;
files_tmp_file(polaris_trans_ports_tmp_t)
# create /tmp/trans_ports_tmp and /tmp/trans_ports_result
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_tmp")
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_result")
polaris_trans_ports_tmp_manage(polaris_trans_ports_helper_t)
# smand open and unlinks /tmp/trans_ports_tmp
polaris_trans_ports_tmp_manage(polaris_smand_t)
#
# =
# "show platform software kernel ..." CLI executes trans_stats_helper.sh. Need domain
# transition
#
polaris_utility_domain_template(trans_stats_helper)
# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_stats_helper_exec_t, polaris_trans_stats_helper_t)
#binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_stats_helper_t)
#execute lsof in helper script
corecmd_exec_bin(polaris_trans_stats_helper_t)
corecmd_exec_shell(polaris_trans_stats_helper_t)
auth_use_nsswitch(polaris_trans_stats_helper_t)
# lsof reads /proc/*/fd/* attributes
polaris_proc_fd_all_getattr(polaris_trans_stats_helper_t)
# lsof options tcp reads /proc/net/ raw
kernel_read_network_state(polaris_trans_stats_helper_t)

# lsof reads /proc/locks
kernel_read_system_state(polaris_trans_stats_helper_t)

# lsof readmnt
fs_read_nfsfs_files(polaris_trans_stats_helper_t)

# ls access to /proc/3792/fd/6 triggers sys_ptrace capability
# and dac_read_search as well.
allow polaris_trans_stats_helper_t self:capability { sys_ptrace dac_read_search };

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22484
type polaris_trans_stats_tmp_t;
f_files_tmp_file(polaris_trans_stats_tmp_t)
# create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output
f_files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp")
f_files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp.1")
polaris_trans_stats_tmp_manage(polaris_trans_stats_helper_t)
# smand open and unlinks /tmp/trans_tmp
polaris_trans_stats_tmp Manage(polaris_smand_t)

# run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_stats_helper_t)

#
================================================================================================
===============
# CLI "request platform hardware filesystem harddisk: offline | online" which runs mcp_disk_oir.sh

polaris_utility_domain_template(disk_oir)
polaris_bexecute_domain(polaris_disk_oir_t, polaris_disk_oir_exec_t)

#execute lsof
corecmd_exec_bin(polaris_disk_oir_t)

# This is a CLI script that access types and /proc/pid/fd/*
polaris_proc_fd_all_getattr(polaris_disk_oir_t)

# access sysctl_rpc_t
kernel_read_rpc_sysctls(polaris_disk_oir_t)

# reads /proc/net/*
kernel_read_network_state(polaris_disk_oir_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_disk_oir_t)

# lsol readmnt
fs_read_nsfs_files(polaris_disk_oir_t)

#inherits stdin/stdout of pty opened by telnetd
telnet_use_ptys(polaris_disk_oir_t)

allow polaris_disk_oir_t self:capability [ dac_read_search sys_nice sys_rawio ];
allow polaris_disk_oir_t self:process { setfscreate setsched };

# execute lvm commands
lvm_domtrans(polaris_disk_oir_t)
"lsof -nP" read /dev/sda1 (/csl_p_0) and other operations when disk is destroyed.
storage_manage_fixed_disk(polaris_disk_oir_t)

# access /tmp/chassis/cpld/chasfs
polaris_chasfs_read(polaris_disk_oir_t)

# cat /tmp/chassis/cpld/chasfs/platform_type'
polaris_cpld_read(polaris_disk_oir_t)

#/bin/rm -rf /tmp/udev/etc/udev/harddisk'
fs_getattr_tmpfs(polaris_disk_oir_t)

# access /tmp/udev/etc/udev/harddisk'
polaris_udev_tmp_manage(polaris_disk_oir_t)

#/bin/mkmdir -p /tmp/udev_cache/harddisk
files_tmp_filetrans(polaris_disk_oir_t, polaris_udev_tmp_files_t, dir, "udev_cache")

# systemctl start handle_mount@vol-harddisk.service, communiate with sysemd
systemd_exec_systemctl(polaris_disk_oir_t)

# mount /dev/harddisk1 /vol/harddisk
mount_domtrans(polaris_disk_oir_t)

# read /proc/cmdline
kernel_read_all_proc(polaris_disk_oir_t)

# systemd service start/stop: /lib/systemd/system/handle_mount@.service
systemd_config_generic_services(polaris_disk_oir_t)

# /sbin/hdparm -S 0 /dev/sdb, execute hdparm in its own domain
fstools_domtrans(polaris_disk_oir_t)

ifdef(`crankshaft_family',`
    gen_require(
        type device_t;
        type udev_t;
    )

    filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
    filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
    manage_lnk_files_pattern(polaris_disk_oir_t, fixed_disk_device_t)

    # /dev/harddisk may be labeled with device_t. The "unlink" AVC denail will be fixed when it is labeled correctly

    # allow /bin/dd to access /dev/nvme in blk_file
dev_nvme_blk_files_manage(polaris_disk_oir_t)

    # allow /bin/cat to access /tmp/nim_xxd_present
    gen_require(
        type polaris_cmrp_nim_xxd_tmp_t;
        ...
read_files_pattern(polaris_disk_oir_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

#watches of /tmp/[rp|fp|cc]/pvp/process_state directory
polaris_process_state_watch(polaris_smand_t)

ifdef(`petra_platform`,
#allow access to polaris_cm_rp sem
polaris_cm_rp_sem_use(polaris_smand_t)
#allow access to /flash12/moncfg/cfg.dat
polaris_swipedrive_file_manage(polaris_smand_t)
#allow access to /flash6/moncfg/cfg.dat
polaris_nvram_read(polaris_smand_t)
')
dmesg_domtrans(polaris_smand_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.te
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# pci rescan shm file
/dev/shm/rescan_shm          gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris mobilityd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.if
No license file was found, but licenses were detected in source scan.

# September 2018, Anubha Balani
#
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#

policy_module(polarismemory, 1.0);

# Polaris memory: libmaroon and such

attribute polaris_maroon_data_domain;

type polaris_maroon_base_t;
files_type(polaris_maroon_base_t)

typeattribute polaris_maroon_base_t polaris_maroon_data_domain;

gen_require(
    attribute polaris_extended_domain;
')

files_tmp_filetrans(polaris_extended_domain, polaris_maroon_base_t, dir, "maroon_stats")

type polaris_zram_device_t;
dev_node(polaris_zram_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.te
No license file was found, but licenses were detected in source scan.

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# polarisemd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.fc
No license file was found, but licenses were detected in source scan.
## <summary>Polaris nif_mgr Policy Rules.</summary>

### <param name="domain">
* Domain allowed access.
### </param>

```
interface('polaris_sv_tmp_use',
    gen_require(
        type polaris_sv_tmp_t,
        type tmp_t;
    )

manage_dirs_pattern($1, tmp_t, polaris_sv_tmp_t)
manage_files_pattern($1, polaris_sv_tmp_t, polaris_sv_tmp_t)
allow $1 polaris_sv_tmp_t:dir watch;
')
```

### <summary>
* This is to allow creation and write to
dooppler_sesa file under proc
### </summary>

```
interface('polaris_proc_sesa_create_write',
    gen_require(
        type polaris_proc_sesa_t;
    )

manage_dirs_pattern($1, tmp_t, polaris_proc_sesa_t)
manage_files_pattern($1, polaris_pros_sesa_t, polaris_proc_sesa_t)
allow $1 polaris_proc_sesa_t:dir watch;
')
```
setattr_files_pattern($1, polaris_proc_sesa_t, polaris_proc_sesa_t)
rw_files_pattern($1, polaris_proc_sesa_t, polaris_proc_sesa_t)
}

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.if
No license file was found, but licenses were detected in source scan.

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#

/usr/bin/os/conf/btdecode -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/bin/os/conf/bttail -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/bin/os/conf/mcp_trace_filter.sh -- gen_context(system_u:object_r:polaris_trace_filter_exec_t,s0)
/usr/bin/os/conf/mcp_trace_request.sh -- gen_context(system_u:object_r:polaris_trace_request_exec_t,s0)
/usr/bin/os/bin/create_luid_file_db -- gen_context(system_u:object_r:polaris_create_ldb_exec_t,s0)
/tmp/btrace_luids_file.cdb.tmp -- gen_context(system_u:object_r:polaris_ldb_tmp_t,s0)
/tmp/btrace_luids_file.cdb -- gen_context(system_u:object_r:polaris_ldb_tmp_t,s0)
/tmp/cc/0/trace(/.*)? gen_context(system_u:object_r:polaris_btrace_base_t,s0)
/tmp/cc/0/trace/fifo(/.*)? gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)
/tmp/fp/trace(/.*)? gen_context(system_u:object_r:polaris_btrace_base_t,s0)
/tmp/fp/trace/fifo gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)
/tmp/fp/trace/fifo(/.*)? gen_context(system_u:object_r:polaris_fifo_stdout_t,s0)
/tmp/rp/trace(/.*)? gen_context(system_u:object_r:polaris_btrace_base_t,s0)
/tmp/rp/trace/fifo gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)
/tmp/rp/trace/fifo(/.*)? gen_context(system_u:object_r:polaris_fifo_stdout_t,s0)
/dev/shm/sem/uuid_sem gen_context(system_u:object_r:polaris_btrace_tmpfs_t,s0)
/dev/shm/oper_uuid_shm gen_context(system_u:object_r:polaris_btrace_tmpfs_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.fc
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#
# September 2017, Victor Kamensky
#
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#

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22490
policy_module(polarisdbgd, 1.0);

gen_require(`
    type polaris_dbgd_t;
`)
polaris_chasfs_read(polaris_dbgd_t)
polaris_tdlresolve_read(polaris_dbgd_t)
polaris_cpfd_read(polaris_dbgd_t)

logging_send_syslog_msg(polaris_dbgd_t)

# vcond_load_shared_schemas
polaris_confd_shared_schema_read(polaris_dbgd_t)

# /var/run/dbgd socket and pid
type polaris_dbgd_var_run_t;
files_pid_file(polaris_dbgd_var_run_t)
manage_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)
manage_sock_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)
files_pid_filetrans(polaris_dbgd_t, polaris_dbgd_var_run_t, { file sock_file })
polaris_vdaemon_var_sock_write(polaris_dbgd_t)

# dbgd may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_dbgd_t)
## <summary>Polaris JVM Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.if

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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.te
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.te

No license file was found, but licenses were detected in source scan.

#
# December 2018, Victor Kamensky
#
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#

policy_module(polarisezmancc, 1.0);

gen_require(''
    type polaris_ezman_cc_t;
')

polaris_chasfs_read(polaris_ezman_cc_t)
polaris_cpld_read(polaris_ezman_cc_t)
polaris_tdlresolve_read(polaris_ezman_cc_t)
polaris_ripc_sman_ui_serv_connect(polaris_ezman_cc_t)

allow polaris_ezman_cc_t self:capability dac_override;

polaris_ooh_evfc_dev_use(polaris_ezman_cc_t)
# LOOK AT ME by some reason relabeling of /dev/ezlkm
# device files does not work
dev_rw_generic_chr_files(polaris_ezman_cc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.te

No license file was found, but licenses were detected in source scan.

#
# Oct 2020, Xin Xiang
#
policy_module(polarisdoppler, 1.0);

# doppler interrupt device
type polaris_dplr_device_t;
dev_node(polaris_dplr_device_t)

# dma mmap device
type polaris_dmammap_device_t;
dev_node(polaris_dmammap_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdoppler.te
No license file was found, but licenses were detected in source scan.

# Nov 2020, Swati Kumari
#
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#

## <summary>Polaris PTPD Policy Rules.</summary>

### <summary>Work (read, write, ioctl) with /dev/blzi_fpga</summary>

interface(`polaris_blzi_dev_use',`
    gen_require(
        type device_t;
        type polaris_blzi_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_blzi_device_t)
    read_chr_files_pattern($1, device_t, polaris_blzi_device_t)
    allow $1 polaris_blzi_device_t:chr_file map;
    )

Found in path(s):
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

## <summary>Polaris cpp_cp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.if
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# March 2017, Victor Kamensky
#
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#

policy_module(polariscppdriver, 1.0);

gen_require("
    type polaris_cpp_driver_t;
"
)
polaris_btrace_data_manage(polaris_cpp_driver_t)
polaris_crft_data_manage(polaris_cpp_driver_t)
polaris_chasfs_manage(polaris_cpp_driver_t)
polaris_tdlresolve_read(polaris_cpp_driver_t)
polaris_tdldb_list_dirs(polaris_cpp_driver_t)
polaris_cpld_read(polaris_cpp_driver_t)
polaris_flashlib_read(polaris_cpp_driver_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_driver_t)
polaris_cpp_process(polaris_cpp_driver_t)
polaris_cpp_dev_use(polaris_cpp_driver_t)

# allow read variety of system information from sysfs
# type=AVC msg=audit(1479601620.503:19): avc: denied { open } for pid=22839 comm="cpp_driver"
path="/sys/devices/system/node/node0/meminfo" dev="sysfs" ino=805
scontext=system_u:system_r:polaris_cpp_driver_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_read_sysfs(polaris_cpp_driver_t)
optional_policy('cpp_driver reads qfp executable to look at .stabs sections that contains qfp code fixups, then this fixup data is passed to kernel module to modify qfp code.

gen_require(')
  type bin_t;
  type polaris_qfp_exec_t;
')
read_files_pattern(polaris_cpp_driver_t, bin_t, polaris_qfp_exec_t)
')
polaris_icc_broken_relocations(polaris_cpp_driver_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cpp_driver_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_driver_t)
logging_send_syslog_msg(polaris_cpp_driver_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef('crankshaft_family',)
polaris_dev_mem_use(polaris_cpp_driver_t)
')

# allow access to /tmp/octeon-remote-lock-pci***
# This is required as part of cpp_driver access of octeon chip.
# As part of the init, call is made to octeon_remote_lock()
# which requires access to the /tmp file.
ifdef('crankshaft_family',
polaris_cm_fp_tmp_filetrans(polaris_cpp_driver_t)
polaris_cm_fp_tmp_manage(polaris_cpp_driver_t)
')

# LOOK AT ME on overloard cpp_driver needs access to /dev/cavium_e
# and /dev/pcie0 devices, on lmg cpp_driver needs access to
# /dev/yoda0_tree2, etc
dev_rw_generic_chr_files(polaris_cpp_driver_t)

# /dev/cpp_il on qwlc
optional_policy(')
polaris_cpp_il_dev_use(polaris_cpp_driver_t)
')
ifdef('qwlc_platform',
polaris_cpld_dev_use(polaris_cpp_driver_t)
')
ifdef(`katar_platform',`
    polaris_cpld_dev_use(polaris_cpp_driver_t)
')

ifdef(`mcp_family',`
    polaris_cpld_dev_use(polaris_cpp_driver_t)
')

optional_policy(`
    polaris_cpp_htdp_dev_use(polaris_cpp_driver_t)
    polaris_cbdma_dev_use(polaris_cpp_driver_t)
    polaris_cpp_htdp_dev_use(polaris_cpp_driver_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris odm_proxy Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodmproxy.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisbtrace, 1.0);

多万元

# Btrace policy

gen_require(`
    attribute domain;
    attribute polaris_extended_domain;
    attribute unconfined_domain_type;
# persistent btrace files stored under btrace_data

type polaris_btrace_data_t;
files_type(polaris_btrace_data_t)

# allow btrace data file reside on persistent storage
polaris_pfile_type(polaris_btrace_data_t)

type polaris_fifo_stdout_t;
files_type(polaris_fifo_stdout_t)

type polaris_fifo_stdout_base_t;
files_type(polaris_fifo_stdout_base_t)

attribute polaris_btrace_data_domain;

type polaris_btrace_base_t;
files_type(polaris_btrace_base_t)

typeattribute polaris_btrace_base_t polaris_btrace_data_domain;
typeattribute polaris_btrace_data_t polaris_btrace_data_domain;

# is "trace" in tmp_t specific enough? Maybe we would need to change it in polaris
files_tmp_filetrans(polaris_extended_domain, polaris_btrace_base_t, dir, "trace")
# udev -> cat9k-ssd.mount -> unifiedfs_rsync_udev.sh -> btrace.sh might also create this dir
files_tmp_filetrans(udev_t, polaris_btrace_base_t, dir, "trace")

gen_require(`
  attribute polaris_extended_domain;
  type polaris_pvp_tmp_t;
')

filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_btrace_base_t, dir, "trace")

# filetrans_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t, dir, "fifo")
filetrans_pattern(domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t, dir, "fifo")
filetrans_pattern(domain, polaris_fifo_stdout_base_t, polaris_fifo_stdout_t, fifo_file)
manage_dirs_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t)

polaris_utility_domain_template(btdecode)

# any polaris process except iosd can execve btdecode utility to decode its own traces
gen_require(`
  attribute polaris_domain;
  type polaris_iosd_t;
')
domtrans_pattern(polaris_domain - polaris_iosd_t, polaris_btdecode_exec_t, polaris_btdecode_t)
corecmd_check_exec_shell(polaris_domain - polaris_iosd_t)

# btdecode not only reads btrace files, but also creates copy of the file
polaris_btrace_data_manage_all(polaris_btdecode_t)
polaris_btrace_persistent_data_manage(polaris_btdecode_t)

polaris_use_btrace_fifo(polaris_btdecode_t)
polaris_tdlresolve_read(polaris_btdecode_t)
polaris_boot_tmp_read(polaris_btdecode_t)
polaris_lua_read(polaris_btdecode_t)
polaris_chasfs_read(polaris_btdecode_t)
polaris_cpld_read(polaris_btdecode_t)
polaris_bootflash_manage(polaris_btdecode_t)

# lua files need to read executables to retrieve btrace meta informations
files_mmap_all_files(polaris_btdecode_t)

# could be called on trace files on persistent storage
polaris_persistent_read(polaris_btdecode_t)

# need to read executables to retrieve btrace meta informations
polaris_read_exec_domain(polaris_btdecode_t)

corecmd_exec_bin(polaris_btdecode_t)
corecmd_exec_shell(polaris_btdecode_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btdecode_t)

# executes luajit
allow polaris_btdecode_t self:process execmem;

# tmp files created by /lua/btdecode.lua in /tmp
type polaris_btdecode_tmp_t;
files_tmp_file(polaris_btdecode_tmp_t)
files_tmp_filetrans(polaris_btdecode_t, polaris_btdecode_tmp_t, file)
manage_files_pattern(polaris_btdecode_t, polaris_btdecode_tmp_t, polaris_btdecode_tmp_t)

# /lua/btdecode.lua may call create_luid_file_db on demand
polaris_create_ldb_domtrans(polaris_btdecode_t)

# in some cases it runs with telnet /dev/ttyN as stdin/stdout
# example when executed on other node, or "monitor log profile"
# command
telnet_use_ptys(polaris_btdecode_t)

# Allow btdecode to read/write /dev/pts/*
term_use_generic_ptys(polaris_btdecode_t)
polaris_btrace_ldb_tmp_read(polaris_btdecode_t)

# Allow btdecode to watch over /bootflash/tracelogs, /vol/harddisk/tarcelogs and /flash2/CRASH/tracelogs
polaris_btrace_data_watch(polaris_btdecode_t)

# Allow btdecode to watch over /usr/binos/conf
files_watch_usr_dirs(polaris_btdecode_t)

# Allow btdecode to access UFS mounted directories for other members
optional_policy(
    polaris_ncd_tmp_read(polaris_btdecode_t)
)

# btrace_rotate calls ftw function through create_luid_file_db utility
# that walks whole file tree in order to create btrace_luids_file.cdb
# let's have separate domain for this utility
polaris_utility_domain_template(create_ldb)

files_read_all_files(polaris_create_ldb_t)
files_getattr_all_dirs(polaris_create_ldb_t)
files_read_all_symlinks(polaris_create_ldb_t)
files_list_non_security(polaris_create_ldb_t)
files_don'taudit_list_security_dirs(polaris_create_ldb_t)
files_mmap_all_files(polaris_create_ldb_t)

# allow luid database scripts to read/write /dev/pts/*
term_use_generic_ptys(polaris_create_ldb_t)

# creates files like btrace_luids_file.cdb_20170907160108.tmp, btrace_luids_file.cdb
type polaris_lldb_tmp_t;
files_tmp_file(polaris_lldb_tmp_t)
files_tmp_filetrans(polaris_create_ldb_t, polaris_lldb_tmp_t, file)
files_tmp_filetrans(polaris_btdecode_t, polaris_lldb_tmp_t, file, "btrace_luids_file.cdb")
manage_files_pattern(polaris_create_ldb_t, polaris_lldb_tmp_t, polaris_lldb_tmp_t)
mmap_files_pattern(polaris_create_ldb_t, polaris_create_ldb_t, polaris_create_ldb_t)
polaris_use_btrace_fifo(polaris_create_ldb_t)

# in some cases it runs with telnet /dev/ptyN as stdin/stdout
# example when executed on other node, or "monitor log profile"
# command
telnet_use_ptys(polaris_create_ldb_t)

# Allowing permission to read/open/getattr/ on
# tmp/sw/mount/*universalk9.*.SSA.pkg/usr/binos/sbin/in.telnetd
gen_require(
    type telnetd_exec_t;
)
allow polaris_btdencode_t telnetd_exec_t:file { getattr open read };

#############################################################################
# CLI: show platform software trace filter-binary wired
# invokes.../bin/sh /usr/binos/conf/mcp_trace_filter.sh --binary wired
#############################################################################

polaris_utility_domain_template(trace_filter)

polaris_bexecute_domtrans(polaris_trace_filter_t)
polaris_bexecute_domain(polaris_trace_filter_t, polaris_trace_filter_exec_t)
# mcp_trace_filter.sh runs with telnet /dev/ptyN as
# stdin/stdout if on standby
telnet_use_ptys(polaris_trace_filter_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_trace_filter_t)

allow polaris_trace_filter_t self:capability { dac_override sys_resource };

# access /tmp/sw/boot/pkginfo
# awk -v what=^.BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_trace_filter_t)

polaris_chasfs_read(polaris_trace_filter_t)
polaris_disk_bootflash_read_lnk(polaris_trace_filter_t)
polaris_disk_crashinfo_getattr(polaris_trace_filter_t)
polaris_disk_harddisk_read_lnk(polaris_trace_filter_t)
kernal_read_system_state(polaris_trace_filter_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmbonbifo_tmp_read(polaris_trace_filter_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_trace_filter_t)

#Allow mcp_trace_request.sh to access UFS mounted directories for other members
optional_policy("polaris_ncd_tmp_read(polaris_trace_filter_t)")

# allow creation/access of temporary files created by bash such as
# /tmp/sh-thd-1499428203 etc
type polaris_trace_filter_tmp_t:
files_tmp_file(polaris_trace_filter_tmp_t)
files_tmp_filetrans(polaris_trace_filter_t, polaris_trace_filter_tmp_t, file)
manage_files_pattern(polaris_trace_filter_t, polaris_trace_filter_tmp_t, polaris_trace_filter_tmp_t)

# mcp_trace_filter.sh invokes: "df /tmp/rp/tldb" and "df /dev/shm"
fs_getattr_tmpfs(polaris_trace_filter_t)

# allow accesses to polaris lua files
polaris_lua_read(polaris_trace_filter_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_trace_filter_t)
corecmd_exec_bin(polaris_trace_filter_t)

# why does btrace show command needs to write into btrace state?
polaris_btrace_data_manage_all(polaris_trace_filter_t)
polaris_btrace_persistent_data_manage(polaris_trace_filter_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/harddisk/10.130.1.0
fs_getattr_nfs(polaris_trace_filter_t)

# ........................................................................................................................................
# CLI: monitor log profile <iwan | wireless | wired ..>
# invokes.../bin/sh /usr/binos/conf/mcp_trace_request.sh --operation monitor
# ........................................................................................................................................
polaris_utility_domain_template(trace_request)
polaris_bexecute_domtrans(polaris_trace_request_t)
polaris_bexecute_domain(polaris_trace_request_t, polaris_trace_request_exec_t)

# Provide sys_resource capability for sys_pipe calls
allow polaris_trace_request_t self:capability sys_resource;
polaris_cpld_read(polaris_trace_request_t)
polaris_disk_crashinfo_getattr(polaris_trace_request_t)
polaris_disk_bootflash_read_lnk(polaris_trace_request_t)
polaris_disk_harddisk_read_lnk(polaris_trace_request_t)
polaris_chasfs_manage(polaris_trace_request_t)
fs_getattr_xattr_fs(polaris_trace_request_t)

# can execute hostname
hostname_exec(polaris_trace_request_t)
# can execute dmesg
dmesg_domtrans(polaris_trace_request_t)

# creates archives under /crashinfo
polaris_disk_crashinfo_manage(polaris_trace_request_t)

# can tar logs to persistent all file systems (including removable file systems)
polaris_persistent_manage(polaris_trace_request_t)
polaris_removable_manage(polaris_trace_request_t)

# read and write all btrace fifo file as standard input/output.
polaris_use_btrace_fifo(polaris_trace_request_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_trace_request_t)

# copies /tmp/silent_roll_select.log into /crashinfo so that it can be tar'd into an
# archive
polaris_pvp_read_tmp_files(polaris_trace_request_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_trace_request_t)

# in some cases mcp_trace_request.sh runs with telnet /dev/ptyN as
# stdin/stdout
telnet_use_ptys(polaris_trace_request_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_trace_request_t)

# read /proc/cmdline
kernel_read_system_state(polaris_trace_request_t)

corecmd_exec_bin(polaris_trace_request_t)

ifdef(`ngwc_family',`
optional_policy(`
polaris_ncd_tmp_read(polaris_trace_request_t)
'
')
')

# mcp_trace_request.sh can read all btrace files both in temp storage
# as well as in persistent storage
polaris_btrace_data_manage_all(polaris_trace_request_t)
polaris_btrace_persistent_data_manage(polaris_trace_request_t)

# Allow mcp_trace_request.sh to create and manage temporary files under /tmp
# such as /tmp/mtr_cntrl

```c

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/crashinfo/10.1.1.1
fs_getattr_nfs(polaris_trace_request_t)

# mcp_trace_request.sh invokes dmesg, which runs in dmesg_t domain needs access
# to btrace data store

gen_require('type dmesg_t;
    polaris_btrace_persistent_data_manage(dmesg_t)
')

dmesg invocation in case of disk being full,
# results in writing to area of disk that
# requires the sys_resource capability.
allow dmesg_t self:capability sys_resource;

# Set /tmp/udev_ng4k.vbd.log to be under polaris_udev_tmp_files_t label

gen_require('type udev_t;
    type polaris_udev_tmp_files_t;
    type init_t;
')

files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
files_tmp_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")

# Add permission for mcp_trace_request to access polaris_udev_tmp_files_t files
polaris_udev_tmp_files_t(polaris_trace_request_t)

# Allow ls /tmp/ufs/harddisk
optional_policy('polaris_ncd_tmp_read(polaris_trace_request_t)
')

#Allow mcp_trace_request to get tmpfs attributes
fs_getattr_tmpfs(polaris_trace_request_t)

#allow mcp_trace_request to execute tar
allow polaris_trace_request_t self:capability { chown fowner fsetid };
```

# such as /tmp/mtr_cntrl

type polaris_trace_request_tmp_t;
files_tmp_file(polaris_trace_request_tmp_t)
files_tmp_filetrans(polaris_trace_request_t, polaris_trace_request_tmp_t, file)
manage_files_pattern(polaris_trace_request_t, polaris_trace_request_tmp_t, polaris_trace_request_tmp_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/crashinfo/10.1.1.1
fs_getattr_nfs(polaris_trace_request_t)

# mcp_trace_request.sh invokes dmesg, which runs in dmesg_t domain needs access
# to btrace data store

gen_require('type dmesg_t;
    polaris_btrace_persistent_data_manage(dmesg_t)
')

dmesg invocation in case of disk being full,
# results in writing to area of disk that
# requires the sys_resource capability.
allow dmesg_t self:capability sys_resource;

# Set /tmp/udev_ng4k.vbd.log to be under polaris_udev_tmp_files_t label

gen_require('type udev_t;
    type polaris_udev_tmp_files_t;
    type init_t;
')

files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
files_tmp_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")

# Add permission for mcp_trace_request to access polaris_udev_tmp_files_t files
polaris_udev_tmp_files_t(polaris_trace_request_t)

# Allow ls /tmp/ufs/harddisk
optional_policy('polaris_ncd_tmp_read(polaris_trace_request_t)
')

#Allow mcp_trace_request to get tmpfs attributes
fs_getattr_tmpfs(polaris_trace_request_t)

#allow mcp_trace_request to execute tar
allow polaris_trace_request_t self:capability { chown fowner fsetid };
```

# such as /tmp/mtr_cntrl

type polaris_trace_request_tmp_t;
files_tmp_file(polaris_trace_request_tmp_t)
files_tmp_filetrans(polaris_trace_request_t, polaris_trace_request_tmp_t, file)
manage_files_pattern(polaris_trace_request_t, polaris_trace_request_tmp_t, polaris_trace_request_tmp_t)
type polaris_btrace_tmpfs_t;
files_tmpfs_file(polaris_btrace_tmpfs_t)

# btrace semaphore created by systemd-tmpfiles needs map permission
gen_require(
  type systemd_tmpfiles_t;
  )
mmap_files_pattern(systemd_tmpfiles_t, polaris_btrace_tmpfs_t, polaris_btrace_tmpfs_t)

# Allow polaris processes to manage level config files in tracelogs persistent
# directory like /bootflash/tracelogs/level_config
type polaris_btrace_lvl_config_t;
files_type(polaris_btrace_lvl_config_t)
gen_require(
  attribute polaris_domain;
  )
polaris_btrace_lvl_config_manage(polaris_domain)

optional_policy(
  polaris_cedge_fanman_tmp_manage(polaris_btdecode_t)
  )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
# All rights reserved
#

/usr/binos/conf/psvp.sh -- gen_context(system_u:object_r:polaris_psvp_exec_t,s0)
/tmp/rp/psvp -d gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/inot_fifo -p gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/pvp\,pid -- gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsvp.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
policy_module(polarisbexecute, 1.0);
polaris_utility_domain_template(bexecute)
polaris_utility_domain_template(chvrf)
polaris_bexecute_domtrans(polaris_chvrf_t)
polaris_chvrf_domtrans(polaris_bexecute_t)
polaris_ngio_module_session_domtrans(polaris_bexecute_t)
polaris_rom_upgrade_use_fifo(polaris_chvrf_t)

# bexecute
...
# Denial is observed after "show platform software audit summary"
# which uses brelay to trigger corresponding audit_log.sh script
fs_getattr_tmpfs(polaris_bexecute_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_bexecute_t)

# follow /tftp/inv symlink to /tmp/chassis/local/rp/chasfs/inventory
gen_require(''
    type tftpdir_rw_t;
')
read_link_files_pattern(polaris_bexecute_t, tftpdir_rw_t, tftpdir_rw_t)

# tries to do mkdir -p /tmp/rp/lipc, but it should exist already so
# getattr should be sufficient
polaris_lipc_getattr(polaris_bexecute_t)

# read /proc/cmdline
kernel_read_system_state(polaris_bexecute_t)

# binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_bexecute_t)

# write into pipe that smand created for us with popen
polaris_smand_use_fifo(polaris_bexecute_t)

allow polaris_bexecute_t self:capability { chown setgid setuid fowner net_admin };
allow polaris_bexecute_t self:process { setpgid setcap };

# temporary files created by bexecute like /tmp/get_status_type_pkg_list.rp-1-0-0.20170707094059.out.log
type polaris_bexecute_tmp_t;
files_tmp_file(polaris_bexecute_tmp_t)
files_tmp_filetrans(polaris_bexecute_t, polaris_bexecute_tmp_t, file)
manage_files_pattern(polaris_bexecute_t, polaris_bexecute_tmp_t, file)

# smand calls many commands through bexec.sh
polaris_smand_domain(polaris_bexecute_t, polaris_bexecute_exec_t)

# hman invokes cpp_shm_mgr_info_show.sh which in turn invokes "mktemp -p /tmp/tmppub..."
polaris_btrace_tmppub_manage(polaris_bexecute_t)

ifdef(`nyquist_platform',`
term_use_unallocated_ttys(polaris_bexecute_t)
term_setattr_unallocated_ttys(polaris_bexecute_t)
')

ifdef(`radium_platform',`
polaris_load_usbnet_domtrans(polaris_bexecute_t)

    # allow /usr/binos/conf/bexecute.sh for tcp_socket access
    # due to `/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
    # /usr/binos/conf/bexecute.sh -c /usr/binos/conf/module_direct.py
    # 0 bp0 PROMETHIUM-L"
    gen_require(
        type polaris_cm_rp_t;
    ')
    allow polaris_chvrf_t polaris_cm_rp_t:tcp_socket ioctl;

    # allow /usr/binos/conf/bexecute.sh for tcp_socket access
    # due to `/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
    # /usr/binos/conf/bexecute.sh -c /bin/mcp_pkg_wrap rp_daemons
    # /usr/binos/conf/execute_co"
    gen_require(
        type polaris_dmi_ncsshd_fwd_t;
    ')
    allow polaris_chvrf_t polaris_dmi_ncsshd_fwd_t:tcp_socket ioctl;
    ')

    ifdef(`sumatra_platform',
        polaris_load_usbnet_domtrans(polaris_bexecute_t)
    ')

    ifdef(`nanook_platform',
        polaris_load_usbnet_domtrans(polaris_bexecute_t)
    ')

    ifdef(`supernova_platform',
        polaris_load_usbnet_domtrans(polaris_bexecute_t)
    ')

    polaris_issu_tmp_files_manage(polaris_bexecute_t)

    # Unlike other platforms, quake platform has runin_exec_proc.sh script,
    # which is started by xinetd in inetd_t domain,
    # and needs to switch to bexecute domain.
    # In turn, runin_exec_proc.sh then starts in.telnetd process which needs
    # to run in telnetd_t domain, for the existing policies to do the rest.
    ifdef(`quake_platform',
        gen_require(
            type inetd_t;
            type telnetd_t;
            type telnetd_exec_t;
        ')
        polaris_bexecute_domtrans(inetd_t)
        polaris_bexecute_domain(telnetd_t, telnetd_exec_t)
    '}
chvrf

corecmd_exec_bin(polaris_chvrf_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_chvrf_t)

# read polaris vrf net namespace file(s) /var/run/netns/0
fs_read_nsfs_files(polaris_chvrf_t)

# write into pipe that various binos processes created for us with popen
polaris_smand_use_fifo(polaris_chvrf_t)
polaris_hman_use_fifo(polaris_chvrf_t)
polaris_dmiauthd_use_fifo(polaris_chvrf_t)
optional_policy(''
polaris_cmrp_use_fifo(polaris_chvrf_t)
')
optional_policy(''
polaris_dmi_ncsshd_fwd_use_fifo(polaris_chvrf_t)
')

# mcp_chvrf.sh may run into files created by bexecute
manage_files_pattern(polaris_chvrf_t, polaris_bexecute_tmp_t, polaris_bexecute_tmp_t)

# init may transition to polaris_chvrf_t - certain systemd units use
# mcp_chvrf.sh to start services
gen_require(''
    type init_t;
')
polaris_chvrf_domtrans(init_t)

# mcp_chvrf.sh used to start xinetd services
gen_require(''
    type inetd_t;
    type inetd_exec_t;
')
domtrans_pattern(polaris_chvrf_t, inetd_exec_t, inetd_t)

# in some cases mcp_chvrf needs to write into someone fifo stdout
# file, i.e when called from ncd.sh script
polaris_use_btrace_fifo(polaris_chvrf_t)

sysnet_domtrans_ifconfig(polaris_chvrf_t)

# during some execve calls chvrf needs list /tmp/etc
polaris_etc_list(polaris_chvrf_t)

ifdef(`ngwc_family',`
# /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
# also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_bexecute_t)
')

ifdef(`mcp_family',`
# /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
# also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_bexecute_t)
')

ifdef(`wlc_family',`
# /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
# also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_bexecute_t)
')

# For "request platform software system shell" CLI, we have:
# /bin/sh /usr/binos/conf/mcp_chvrf.sh eobc /usr/binos/conf/bexecute.sh
# -c /usr/binos/conf/mcp_record_shell.sh
# mcp_chvrf.sh needs read/write access to /dev/pts/1:
# allow polaris_chvrf_t telnetd_devpts_t:chr_file { read write };
telnet_use_ptys(polaris_chvrf_t)

ifdef(`nyquist_platform',`
term_use_unallocated_ttys(polaris_chvrf_t)
')

# some times run with unix_stream_socket as stdin
init_ioctl_stream_sockets(polaris_chvrf_t)

###############################################################
# bexecute and mcp_chvrf.sh called from install_show.sh
###############################################################
polaris_install_show_tmp_write(polaris_bexecute_t)
polaris_install_show_tmp_write(polaris_chvrf_t)

###############################################################
# install_engine.sh uses brelay to re-launch install_engine in all FRUs.
# So, op_rp_switch_to_remote_loc_in_parallel() outputs to install tmp log file;
# check invocation-point for comms_run_on_remote_fru.

# CLI: show platform hardware cpp active infrastructure shared-memory all
# this results in hman invoking following chain of shell scrips.
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/cpp_shm_mgr_info_show.sh
# /bin/bash /usr/binos/conf/bexecute.sh -c /usr/binos/conf/cpp_shm_mgr_info_show.sh
# /bin/sh /usr/binos/conf/cpp_shm_mgr_info_show.sh
# /bin/bash /usr/binos/conf/bshell.sh -S -c "show platform hardware qfp active \
# infrastructure shared-memory process cpp-control-process"
# All these are executed in polaris_bexecute_t domain and write access to following lipc
# is needed: /tmp/rp/lipc/shell_mgr_bshell_serv_socket

# This block is policies for "sh pla so process memory r0 name iosd maps" CLI

polaris_utility_domain_template(platform_shell)

polaris_bexecute_domain(polaris_platform_shell_t, polaris_platform_shell_exec_t)

# needs to read maps files.
domain_read_all_domains_state(polaris_process_maps_t)

dev_read_sysfs(polaris_process_maps_t)
kernell_read_system_state(polaris_process_maps_t)

# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_process_maps_t)
kernell_read_system_state(polaris_process_maps_t)

# need write/ioct/getattr access for pipes like "pipe:[118396]"
polaris_hman_use_fifo(polaris_process_maps_t)
corecmd_exec_bin(polaris_process_maps_t)

# This block is policies for "request platform software system shell" CLI.
# Eventually, mcp_record_shell.sh is invoked. That needs its own domain.

polaris_utility_domain_template(platform_shell)

polaris_bexecute_domain(polaris_platform_shell_t, polaris_platform_shell_exec_t)
corecmd_exec_bin(polaris_platform_shell_t)
auth_use_nsswitch(polaris_platform_shell_t)
polaris_btrace_persistent_data_manage(polaris_platform_shell_t)
polaris_cpld_read(polaris_platform_shell_t)

# cyan libraries access /tmp/sw/boot/monbifo/boardsubtype
polaris_monbifo_tmp_read(polaris_platform_shell_t)

# pglobals.sh accesses /tmp/ufs//crashinfo on cat9k platforms
optional_policy(
  polaris_ncd_tmp_read(polaris_platform_shell_t)
  )

# mcp_record_shell.sh needs read access to chasfs
polaris_chasfs_read(polaris_platform_shell_t)

# mcp_record_shell.sh needs read access to /dev/pts/0 (telnetd_devpts_t)
telnet_use_ptys(polaris_platform_shell_t)

# rsync /tmp/system_shell_access_logs/$system_shell_access_log_file
#       rsync://rp0-0/chasfs/etc/system_shell_access_logs/.
gen_require(
  type rsync_t;
  )
rsync_entry_domtrans(polaris_platform_shell_t, rsync_t)
allow rsync_t polaris_platform_shell_t:process sigchld;
telnet_use_ptys(rsync_t)

logging_send_syslog_msg(polaris_platform_shell_t)
init_list_pid_dirs(polaris_platform_shell_t)

# when reload command is issued, needs "kill" capability
allow polaris_platform_shell_t self:capability kill;

# brelay started from telnetd as result it inherits stdin/stdout of pty opened
# by telnetd
telnet_use_ptys(polaris_bexecute_t)
gen_require(
  type telnetd_devpts_t;
  )
allow polaris_bexecute_t telnetd_devpts_t:chr_file setattr_chr_file_perms;
allow polaris_bexecute_t self:capability fsetid;

# mcp_record_shell.sh invokes:
# /usr/bin/script -q /harddisk/tracelogs/system_shell_R0*
# - needs access to /root/.bash_history
# - performs chmod on /dev/pts/2 (needs fsetid on self)
# - ioctl/open/read/write on /dev/ptmx
# - needs read/search access to /harddisk/tracelogs
type polaris_bash_tmp_t;
files_type(polaris_bash_tmp_t)
filetrans_pattern(domain, user_home_dir_t, polaris_bash_tmp_t, file, ".bash_history")
polaris_bash_tmp_manage(polaris_platform_shell_t)
allow polaris_platform_shell_t self:capability fsetid;
term_use_generic_ptys(polaris_platform_shell_t)
term_setattr_generic_ptys(polaris_platform_shell_t)
term_getattr_pty_fs(polaris_platform_shell_t)
term_use_ptmx(polaris_platform_shell_t)
polaris_disk_bootflash_read_lnk(polaris_platform_shell_t)
polaris_disk_harddisk_read_lnk(polaris_platform_shell_t)

# mcp_record_shell.sh invokes:
#   mkdir /tmp/system_shell_access_logs
#   create /tmp/system_shell_access_logs/SHELL_ACCESSED_*
type polaris_platform_shell_tmp_t;
files_tmp_file(polaris_platform_shell_tmp_t)
files_tmp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, dir, "system_shell_access_logs")
files_tmp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, file)
manage_dirs_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, polaris_platform_shell_tmp_t)
manage_files_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, polaris_platform_shell_tmp_t)

# read /proc/cmdline
kernel_read_system_state(polaris_platform_shell_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_platform_shell_t)

polaris_disk_crashinfo_getattr(polaris_platform_shell_t)

polaris_utility_domain_template(shell)
term_use_generic_ptys(polaris_shell_t)
domtrans_pattern(polaris_platform_shell_t, polaris_shell_exec_t, polaris_shell_t)

# reload command needs the following policies to send signal
polaris_send_signal_to_bexecute(polaris_platform_shell_t)
polaris_send_signal_to_shell(polaris_platform_shell_t)

## <desc>
## <p>
## Polaris "request platform system shell" drops into unconfined shell
## </p>
## </desc>
gen_tunable(polaris_dev_shell, true)
tunable_policy('polaris_dev_shell',
    polaris_unconfined_domain(polaris_shell_t)
')
polaris_domain_storage_unconfined_type(polaris_shell_t)

# PLEASE LOOK AT ME do we have to many ports open
# btelnet runs under bexecute in case of guest shell console access
# command like app-hosting connect appid guestshell console
allow polaris_bexecute_t self:tcp_socket { connect create setopt };
corenet_tcp_connect_unreserved_ports(polaris_bexecute_t)
sysnet_read_config(polaris_bexecute_t)

# brelay.sh does ls /tmp/ufs//crashinfo on cat9k
allow polaris_bexecute_t self:capability dac_override;
polaris_disk_crashinfo_getattr(polaris_bexecute_t)
optional_policy('
polaris_ncd_tmp_read(polaris_bexecute_t)
')

polaris_utility_domain_template(bconsole)
polaris_boot_tmp_read(polaris_bconsole_t)
polaris_btrace_data_manage(polaris_bconsole_t)
polaris_chasfs_read(polaris_bconsole_t)
polaris_cpld_read(polaris_bconsole_t)
polaris_proc_rmonbifo_read(polaris_bconsole_t)
polaris_mmonbifo_tmp_read(polaris_bconsole_t)
polaris_use_btrace_fifo(polaris_bconsole_t)
polaris_show_provision_temp_read(polaris_bconsole_t)
corecmd_exec_bin(polaris_bconsole_t)
polaris_bexecute_domtrans(polaris_bconsole_t)

allow polaris_bconsole_t self:process setrlimit;

# handling /var/run/agetty-iosd.pid
type polaris_bconsole_var_run_t;
files_pid_file(polaris_bconsole_var_run_t)
manage_files_pattern(polaris_bconsole_var_run_t, polaris_bconsole_var_run_t, polaris_bconsole_var_run_t)
files_pid_filetrans(polaris_bconsole_t, polaris_bconsole_var_run_t, file, "agetty-iosd.pid")

# access /dev/ttyS0
term_use_unallocated_ttys(polaris_bconsole_t)

auth_use_nsswitch(polaris_bconsole_t)

#################################################################
# This block is policies for
# "request platform software console attach switch standby RO" CLI.
# It invokes /usr/binos/conf/mcp_console_attach.sh, eventually invoking
# ioucon binary, to telnet to standby.

polaris_utility_domain_template(mcp_console_attach)
polaris_bexecute_domain(polaris_mcp_console_attach_t, polaris_mcp_console_attach_exec_t)
corecmd_exec_bin(polaris_mcp_console_attach_t)
polaris_bexecute_domtrans(polaris_mcp_console_attach_t)
allow polaris_mcp_console_attach_t self:process setpgid;
polaris_chasfs_read(polaris_mcp_console_attach_t)
telnet_use_ptys(polaris_mcp_console_attach_t)

# working with ioucon binary, invoked by /usr/binos/conf/mcp_console_attach.sh
polaris_utility_domain_template(ioucon)
polaris_bexecute_domain(polaris_ioucon_t, polaris_ioucon_exec_t)

allow polaris_ioucon_t self:unix_dgram_socket create_socket_perms;
polaris_iosd_dgram_send(polaris_ioucon_t)
polaris_iosd_tmp_file_use(polaris_ioucon_t)
telnet_use_ptys(polaris_ioucon_t)

# "test platform hardware eobc ping" invokes eobc_ping.sh
# send sigchld when it is done
gen_require(''
    type ping_t;
')
allow ping_t polaris_bexecute_t:process sigchld;
polaris_confd_domtrans(polaris_bexecute_t)

# app-hosting connect appid <-> console/session
# Beluga/Meraki container
ifdef(`ms_platform',``
polaris_iox_container_domtrans(polaris_bexecute_t)
')

# Bottlenose/Meraki container
ifdef(`bottlenose_platform',``
polaris_iox_container_domtrans(polaris_bexecute_t)
')

# IOx downloads the application package using network protocol (e.g http)
gen_require(''
    type fifo_var_run_t;
')
allow polaris_bexecute_t fifo_var_run_t:fifo_file read;

# on vxe platforms with MBRv2/MBRv4/GPTv1/GPTv3 partition layouts
# /config is file system and export_mcp_environment tries to create it anyway
polaris_getattr_disk_config(polaris_bexecute_t)

# This block is policies for
# "hw-module session <x/y>" CLI.
# It invokes usr/binos/conf/ngio_module_session.sh, eventually invoking
# open64.

polaris_utility_domain_template(ngio_module_session)
polaris_bexecute_domain(polaris_ngio_module_session_t, polaris_ngio_module_session_exec_t)
corecmd_exec_bin(polaris_ngio_module_session_t)
polaris_bexecute_domtrans(polaris_ngio_module_session_t)
term_use_unallocated_ttys(polaris_ngio_module_session_t)
dev_read Sysfs(polaris_ngio_module_session_t)
allow polaris_ngio_module_session_t self:process setsched;
auth_map_passwd(polaris_ngio_module_session_t)
polaris_chasfs_read(polaris_ngio_module_session_t)
polaris_cpld_read(polaris_ngio_module_session_t)
telnet_use_ptys(polaris_ngio_module_session_t)

# work with /tmp files

type polaris_ngio_module_session_tmp_t;
files_tmp_file(polaris_ngio_module_session_tmp_t)
manage_dirs_pattern(polaris_ngio_module_session_t, tmp_t, polaris_ngio_module_session_tmp_t)
manage_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t,
polaris_ngio_module_session_tmp_t)
manage_fifo_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t,
polaris_ngio_module_session_tmp_t)
files_tmp_filetrans(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t, { file dir })

# CLI: show platform software tech-support
# requires bshell execution
# /bin/bash /usr/binos/conf/bshell.sh -S -P ---- __CMD__ ---- -f
/usr/binos/conf/mcp_tech_support_command_file.txt
gen_require(
    type polaris_bshell_t;
    type polaris_bshell_exec_t;
')
domtrans_pattern(polaris_bexecute_t, polaris_bshell_exec_t, polaris_bshell_t)
# scripts stdin is set by hman and needs write/append access to pipes like pipe:[80159]
polaris_hman_use_fifo(polaris_bshell_t)
# in case of ISR4k show tech input for bshell dynamically created
polaris_tech_support_tmp_read(polaris_bshell_t)

# CLI: show software authenticity running
# this results in hman invoking below command:
# /bin/sh /usr/binos/conf/bexec.sh -c "/usr/bin/code_sign_verify show3 abcd "

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22515
# stdin is inherited when bexecute calls fts_client
polaris_fts_client_tmp_manage(polaris_bexecute_t)

# disk space full issue
allow polaris_platform_shell_t self:capability sys_resource;

# CLI: request platform software sdwan admin-tech

# executes: /bin/sh vconfd_script_show_installerfs.sh
polaris_confd_unix_stream_stdio_use(polaris_bexecute_t)

# executes: bash bshell.sh -S -P ---- __CMD__ ---- -f /tmp/sdwan_tech_support_command_file_out.txt
polaris_confd_unix_stream_stdio_use(polaris_bshell_t)

# write to /tmp/out_$(date"+%Y%m%d%H%M%S%N") for base version verification on smu install
polaris_install_tmp_write(polaris_bexecute_t)

# Nutella-XE install image
#/bin/bash /usr/binos/conf/brelay.sh -E -f rp 0 16023 -c /usr/binos/conf/install_engine.sh --operation install_commit
--isremote
polaris_confd_tmp_use_fifo(polaris_bexecute_t)

# awk -v what=^.BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/rp/0/0/rp_security/mount/.pkginfo
polaris_read_packages_conf(polaris_bexecute_t)

dev_read_rand(polaris_bexecute_t)

# /usr/bin/python3 /usr/binos/conf/issu_client_comp.py compare -b /usr/binos/conf/base_clients.txt -n
/bootflash/installer/current_clients.txt
polaris_disk_install_read(polaris_bexecute_t)

# allow "/usr/binos/conf/module_direct.py" (bexecute_t) to execute
# "/usr/sbin/ethtool" (ifconfig_exec_t) when invoking CLI
# "show platform1 hardware subslot <slot/card> backplane statistics"
sysnet_domtrans_ifconfig(polaris_bexecute_t)

# Write into pipe created by stack_mgr
# Parent Child Relation - stack_mgr -> mcp_trace_request -> brelay (to relay output to active)
optional_policy(
    polaris_use_stack_mgr_fifo(polaris_bexecute_t)
)
polaris_etc_list(polaris_bexecute_t)

#manage /tmp/existing_rommon_info file
polaris_manage_rommon_info(polaris_capsule_upgrade_t)
Policies for "upgrade rom-monitor capsule primary switch 1 R0" CLI

# /usr/binos/conf/bexecute.sh -c /usr/binos/conf/cat9k-primary-capsule-upgrade.sh
# cat9k-primary-capsule-upgrade.sh have to run in its own domain

polaris_utility_domain_template(capsule_upgrade)

polaris_bootflash_manage(polaris_capsule_upgrade_t)

type polaris_capsule_upgrade_log_t;
polaris_pfile_type(polaris_capsule_upgrade_log_t)

polaris_capsule_upgrade_log_use(polaris_capsule_upgrade_t)

polaris_bexecute_domain(polaris_capsule_upgrade_t, polaris_capsule_upgrade_exec_t)

polaris_bexecute_domtrans(polaris_capsule_upgrade_t)
corecmd_exec_bin(polaris_capsule_upgrade_t)
auth_use_nsswitch(polaris_capsule_upgrade_t)
polaris_chasfs_manage(polaris_capsule_upgrade_t)
polaris_cpld_read(polaris_capsule_upgrade_t)
telnet_use_ptys(polaris_capsule_upgrade_t)

polaris_rommon_device_read(polaris_capsule_upgrade_t)

# For "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
# /usr/binos/conf/bexecute.sh -c /usr/binos/conf/install_engine.sh
# --operation install_c",
# uses unix stream socket created by confd as standard I/O.
polaris_confd_unix_stream_stdio_use(polaris_chvrf_t)

############################################################
# mcp_dmesg_service
############################################################
polaris_utility_domain_template(mcp_dmesg)

polaris_bexecute_domain(polaris_mcp_dmesg_t, polaris_mcp_dmesg_exec_t)
polaris_bexecute_domtrans(polaris_mcp_dmesg_exec_t)
dmesg_domtrans(polaris_mcp_dmesg_t)
corecmd_exec_bin(polaris_mcp_dmesg_t)
polaris_smand_use_fifo(polaris_mcp_dmesg_t)
auth_use_nsswitch(polaris_mcp_dmesg_t)
telnet_use_ptys(polaris_mcp_dmesg_t)

# allow creation/access of temporary files like /tmp/sh-thd-1608024622
type polaris_mcp_dmesg_tmp_t;
files_type(polaris_mcp_dmesg_tmp_t)
files_tmp_file(polaris_mcp_dmesg_tmp_t)
files_tmp_filetrans(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, file)
manage_files_pattern(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, polaris_mcp_dmesg_tmp_t)
fs_getattr_tmpfs(polaris_mcp_dmesg_t)

# allowing reload_fru.sh for doing systemctl list-jobs
systemd_config_generic_services(polaris_bexecute_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.te
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/#
/# July 2017, Victor Kamensky
/#
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/#

/dev/quack -c gen_context(system_u:object_r:polaris_quack_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.fc
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/#
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/#
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/#

policy_module(polarisdbm, 1.0);

gen_require(
     type polaris_dbm_t;
')

####################################################################################################################################
# mqipc manual, one that missing in platform tdl file
####################################################################################################################################

ifdef(`nyquist_platform',
     gen_require(
       type polaris_bt_logger_dbm_mqipc_t;
     )
     # dbm may start first and create this mqipc channel
     polaris_mqipc_create_name(polaris_dbm_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)
')
polaris_btrace_data_manage(polaris_dbm_t)
polaris_crtft_data_manage(polaris_dbm_t)
polaris_chasfs_manage(polaris_dbm_t)
polaris_tdlresolve_read(polaris_dbm_t)
polaris_tdlldb_list_dirs(polaris_dbm_t)
polaris_cpld_read(polaris_dbm_t)
polaris_flashlib_read(polaris_dbm_t)
polaris_ripc_sman_ui_serv_connect(polaris_dbm_t)
polaris_db_tdlldb_dir_use(polaris_dbm_t)
polaris_libeiutil_build_config_directory(polaris_dbm_t)
polaris_cfg_data_manage(polaris_dbm_t)

allow polaris_dbm_t self:capability { sys_resource };
allow polaris_dbm_t self:process setrlimit;

# dbm listen on 9090 port; in case of ultra only in tcp6
corenets_tcp_bind_websm_port(polaris_dbm_t)
polaris_dyncfg_tmp_read(polaris_dbm_t)

allow polaris_dbm_t self:capability dac_override;

# port 9090, is it exclusively wnc_mgrd port?
corenets_tcp_bind_polaris_wnc_mgrd_port(polaris_dbm_t)
allow polaris_dbm_t self:tcp_socket {shutdown};

# working dbm persistent files in /bootflash/.dbpersist
type polaris_disk_dbm_t;
polaris_disk_type(polaris_disk_dbm_t)
polaris_tdlldbpersist_setup(polaris_dbm_t)

# dbm on active syncs with /bootflash/.dbpersist on standby
# related call dbm_persist_binary_cfg_sync_to_standby()
gen_require(''
    type rsync_t;
')
rsync_entry_domtrans(polaris_dbm_t, rsync_t)
polaris_tmp_tdlldb_persist_setup(polaris_dbm_t)

logging_send_syslog_msg(polaris_dbm_t)
corecmd_exec_bin(polaris_dbm_t)

corecmd_exec_shell(polaris_dbm_t)

# dbm needs access to "/flash1/user/installer/install_issu_state"
polaris_disk_install_read(polaris_dbm_t)

# runs over /usr/bin/rsync
corennet_tcp_connect_rsync_port(polaris_dbm_t)

# tar invocation in dbm code necessitates this permission
auth_map_passwd(polaris_dbm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.te
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#  
# Sep 2020, Sridhar C
#  
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#  
/tmp/tlscd(/.*)? gen_context(system_u:object_r:polaris_tlscd_uds_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlscd.fc
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#  
# March 2017, Victor Kamensky
#  
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#  
/tmp/fp/lipc           -d gen_context(system_u:object_r:polaris_lipc_t,s0)
/tmp/rp/lipc           -d gen_context(system_u:object_r:polaris_lipc_t,s0)
/tmp/cc/lipc           -d gen_context(system_u:object_r:polaris_lipc_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.fc
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#  
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#  
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#

policy_module(polarisdmincsshdfwd, 1.0);

gen_require('  
    type polaris_dmi_ncsshd_fwd_t;
')

polaris_btrace_data_manage(polaris_dmi_ncsshd_fwd_t)
polaris_chasfs_manage(polaris_dmi_ncsshd_fwd_t)
polaris_tdlresolve_read(polaris_dmi_ncsshd_fwd_t)
polaris_tdlldb_list_dirs(polaris_dmi_ncsshd_fwd_t)
polaris_cpld_read(polaris_dmi_ncsshd_fwd_t)
polaris_flashlib_read(polaris_dmi_ncsshd_fwd_t)

polaris_ripc_sman_ui_serv_connect(polaris_dmi_ncsshd_fwd_t)

allow polaris_dmi_ncsshd_fwd_t self:unix_stream_socket create_stream_socket_perms;

type polaris_dmi_ncsshd_log_t;
files_tmp_file(polaris_dmi_ncsshd_log_t)
manage_files_pattern(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t, polaris_dmi_ncsshd_log_t)
manage_sock_files_pattern(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t, polaris_dmi_ncsshd_log_t)
files_tmp_filetrans(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t, { file sock_file })

logging_send_syslog_msg(polaris_dmi_ncsshd_fwd_t)

polaris_cpld_read(polaris_dmi_ncsshd_fwd_t)

# allow to execute execute_confd_cli.sh under confd domain
polaris_confd_domtrans(polaris_dmi_ncsshd_fwd_t)

# starts bexec.sh
polaris_bexecute_domtrans(polaris_dmi_ncsshd_fwd_t)
polaris_send_signal_to_bexecute(polaris_dmi_ncsshd_fwd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdfwd.te

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#
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#
# temp files created by cyan_init.sh
/tmp/cyan/cyan.log       gen_context(system_u:object_r:polaris_dynfg_log_t,s0)
/tmp/cyan/cyan_runtime.log gen_context(system_u:object_r:polaris_dynfg_log_t,s0)

/tmp/cyan/.*?           gen_context(system_u:object_r:polaris_dynfg_tmp_t,s0)
/tmp/cyan.lock          gen_context(system_u:object_r:polaris_dynfg_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.fc
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#

### <summary>Polaris bexecute Policy Rules.</summary>

#<summary>Polaris bexecute Policy Rules.</summary>

###<summary>Execute bexecute in the polaris_bexecute domain.</summary>
###<param name="domain">
###Domain allowed to transition.
###</param>

interface(`polaris_bexecute_domtrans`,
generate( `type polaris_bexecute_t, polaris_bexecute_exec_t;` )
corecmd_search_bin($1)
domtrans_pattern($1, polaris_bexecute_exec_t, polaris_bexecute_t)
)

###<summary-Allow domain to be started by bexecute with transition into specific service domain.</summary>
###<param name="domain">
## Type to be used to run utility.

### <summary>
### Type of the program to be used as an entry point to this domain.
### </summary>

### <param name="entry_point">
### Type of the program to be used as an entry point to this domain.
### </param>

interface(`polaris_bexecute_domain`,
  gen_require(`
    type polaris_bexecute_t;
  `)

domtrans_pattern(polaris_bexecute_t, $2, $1)
`

#########################################################
## Execute mcp_chvrf.sh in the polaris_chvrf domain.
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
# interface(`polaris_chvrf_domtrans`,
#   gen_require(`
#     type polaris_chvrf_t, polaris_chvrf_exec_t;
#   `)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_chvrf_exec_t, polaris_chvrf_t)
`

#########################################################
## Execute mcp_chvrf.sh in the caller domain.
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface(`polaris_exec_chvrf`,

gen_require('  
    type polaris_chvrf_exec_t;  
')

corecmd_search_bin($1)
    can_exec($1, polaris_chvrf_exec_t)
')

******************************************************************************
## <summary>
##	Execute ngio_module_session.sh in the polaris_ngio_module_session domain
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##	</summary>
## </param>
#
interface('polaris_ngio_module_session_domtrans',
    gen_require('  
        type polaris_ngio_module_session_t, polaris_ngio_module_session_exec_t;  
')

corecmd_search_bin($1)
    domtrans_pattern($1, polaris_ngio_module_session_exec_t, polaris_ngio_module_session_t)
')

******************************************************************************
******************************************************************************
## <summary>
##      Allow the specified domain to send signals to any polaris process.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface('polaris_send_signal_to_bexecute',
    gen_require('  
        type polaris_bexecute_t;  
')
    allow $1 polaris_bexecute_t:process signal_perms;
')

******************************************************************************
## <summary>
## Allow manage of polaris_bash_tmp_t.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_bash_tmp_manage`,
    gen_require(
        type user_home_dir_t;
        type polaris_bash_tmp_t;
    )
    manage_dirs_pattern($1, user_home_dir_t, polaris_bash_tmp_t)
    manage_files_pattern($1, polaris_bash_tmp_t, polaris_bash_tmp_t)
)

########################################
## <summary>
## Execute bexecute in the polaris_bexecute domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_bconsole_domtrans`,
    gen_require(
        type polaris_bconsole_t, polaris_bconsole_exec_t;
    )
    corecmd_search_bin($1)
    domtrans_pattern($1, polaris_bconsole_exec_t, polaris_bconsole_t)
)

########################################
## <summary>
## Send messages to ioucon unix datagram sockets.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
#
interface('polaris_ioucon_dgram_send',
    gen_require(
        type polaris_ioucon_t;
    )
)

    allow $1 polaris_ioucon_t:unix_dgram_socket sendto;
)

########################################
## <summary>
##     Execute cat9k-primary-capsule-upgrade.sh, cat9k-capsule-upgrade.sh in its own domain.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed to transition.
##     </summary>
## </param>
#
interface('polaris_capsule_upgrade_domtrans',
    gen_require(
        type polaris_capsule_upgrade_t, polaris_capsule_upgrade_exec_t;
    )
)

corecmd_search_bin($1)
    domtrans_pattern($1, polaris_capsule_upgrade_exec_t, polaris_capsule_upgrade_t)
)

########################################
## <summary>
##     Work(open,create,append,getattr) with /capsule-upgrade.log file
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_capsule_upgrade_log_use',
    gen_require(
        type polaris_disk_bootflash_t;
        type polaris_capsule_upgrade_log_t;
    )
)

    allow $1 polaris_capsule_upgrade_log_t:filesystem getattr;

    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_capsule_upgrade_log_t, file, "capsule-upgrade.log")
    manage_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
    create_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
    getattr_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
append_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
allow $1 polaris_capsule_upgrade_log_t;file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.if
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#
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#
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#

policy_module(polarisobfl, 1.0);

################################################################################
# Obfl policy
################################################################################

type polaris_obfl_data_t;
files_type(polaris_obfl_data_t)

gen_require(' 
    type init_t;
    type default_t;
    type tmp_t;
    attribute domain;
')

filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl")
# edison uses obfl0 name
filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl0")
#/tmp/obfl
files_tmp_filetrans(domain, polaris_obfl_data_t, dir, "obfl")

# allow obfl data file reside on persistent storage
polaris_pfile_type(polaris_obfl_data_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.te
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#
# March 2017, Victor Kamensky
#
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policy_module(polarisbtlogger, 1.0);

gen_require(
    type polaris_bt_logger_t;
);

polaris_btrace_data_manage(polaris_bt_logger_t)
polaris_crft_data_manage(polaris_bt_logger_t)
polaris_chasfs_manage(polaris_bt_logger_t)
polaris_tdlresolve_read(polaris_bt_logger_t)
polaris_tdlldb_list_dirs(polaris_bt_logger_t)
polaris_cpld_read(polaris_bt_logger_t)
polaris_flashlib_read(polaris_bt_logger_t)

polaris Ripc_sman_ui_serv_connect(polaris_bt_logger_t)

polaris_db_tdlldb_dir_use(polaris_bt_logger_t)

# mqipc manual, one that missing in platform tdl file

# mq.-bt_logger_dbm
    type polaris_bt_logger_dbm_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_dbm_mqipc_t)

# mq.-bt_logger_fman-rp
    type polaris_bt_logger_fman_rp_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_fman_rp_mqipc_t)

# mq.-bt_logger_iosd
    type polaris_bt_logger_iosd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_iosd_mqipc_t)

# mq.-bt_logger_smd
    type polaris_bt_logger_smd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_smd_mqipc_t)

polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_smd_mqipc_t, bt_logger_smd)

allow polaris_bt_logger_t self:capability { dac_override };
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/pol
facesbtlogger.te

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#

### <summary>Polaris gnmib Policy Rules.</summary>

########################################
## <summary>
##  Create rule for ndbutils file ".l.schema_use.gnmib" under /var/lock/ndbutil
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_gnmib_ndbutil_lock`,
    gen_require(
        type polaris_confd_ndbutil_lock_t;
        type polaris_gnmib_ndbutil_t;
    )
)

filetrans_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t, file, $2)
manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t)

allow $1 polaris_gnmib_ndbutil_t:file { watch watch_reads };
)

########################################
## <summary>
##  Allow reading gnoi image files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_gnmib_gnoi_images_read`,
    gen_require(
        type polaris_gnmib_gnoi_images_t;
    )
)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

policy_module(polaristhdlb, 1.0);

# Polaris tdldb (infra/tdllib)
type polaris_tdldb_t;
polaris_tdldb_type(polaris_tdldb_t)

attribute polaris_tdldb;

# any process creating tdldb in /tmp/rp/tdldb should transition into its domain
gen_require("
attribute domain;

)
files_tmp_filetrans(domain, polaris_tdldb_t, dir, "tdldb")

# DB_DIR database is not described in TDL
type polaris_dir_db_tdldb_t;
polaris_tdldb_type(polaris_dir_db_tdldb_t)

type polaris_tdldbPersist_t;
polaris_tdldb_type(polaris_tdldbPersist_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisTdldb.te
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#
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#
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#

policy_module(polarislfts, 1.0);

###########################################################################
# Polaris lfts
###########################################################################

type polaris_lfts_device_t;
dev_node(polaris_lfts_device_t)

# "ip netns add foo" commands mounts "foo" under "/var/run/netns"
gen_require(
    type ifconfig_t;
    type var_run_t;
    )
allow ifconfig_t var_run_t:dir mounton;

# "ip netns exec 16 sysctl -w net.core.vrfid=16" commands mounts "16" to "/sys"
gen_require(
    type ifconfig_t;
    type unlabeled_t;
    )
allow ifconfig_t unlabeled_t:dir mounton;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.te
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#
# March 2017, Victor Kamensky
#
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#

/var/tmp/trace/nginx_access.log gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx_error.log  gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.accept gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.cookie_tbl gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.login_count gen_context(system_u:object_r:httpd_log_t, s0)
/tmp/nginx_aaa             gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx_master          gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx_session         gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/usr/binos/conf/nginx_webui_tmp -d gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx -d gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)

# Polaris WebUI Aireos translator files
/usr/binos/conf/aireos_translate_helper.sh
gen_context(system_u:object_r:polaris_nginx_webui_aireos_translate_exec_t, s0)
/var/scripts/python/aireosConfigTranslator(/.*)? --
gen_context(system_u:object_r:polaris_aireos_translator_scripts_t,s0)

/var/scripts/webui_install.sh gen_context(system_u:object_r:polaris_nginx_webui_exec_t, s0)
/usr/binos/conf/webui_upgrade_helper.sh gen_context(system_u:object_r:polaris_nginx_webui_install_exec_t, s0)
/usr/binos/conf/webui_smu_helper.sh   gen_context(system_u:object_r:polaris_nginx_webui_install_exec_t, s0)
/usr/binos/conf/ra_trace_webui_helper.sh
gen_context(system_u:object_r:polaris_nginx_webui_trace_filter_exec_t, s0)
/usr/binos/conf/nginx-conf gen_context(system_u:object_r:httpd_config_t, s0)
/usr/binos/conf/nginx-conf/servers gen_context(system_u:object_r:httpd_config_t, s0)
/tmp/fts_client       gen_context(system_u:object_r:polaris_fts_client_tmp_t, s0)
/usr/binos/conf/nginx_helper.sh gen_context(system_u:object_r:polaris_nginx_helper_exec_t, s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.fc

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#
# May 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
policy_module(polarismdtpubd, 1.0);

gen_require('  
    type polaris_mdt_pubd_t;
');

polaris_btrace_data_manage(polaris_mdt_pubd_t)
polaris_chasfs_manage(polaris_mdt_pubd_t)
polaris_tdlresolve_read(polaris_mdt_pubd_t)
polaris_tdlldb_list_dirs(polaris_mdt_pubd_t)
polaris_cpld_read(polaris_mdt_pubd_t)
polaris_lua_read(polaris_mdt_pubd_t)
polaris_flashlib_read(polaris_mdt_pubd_t)
polaris_ripc_sman_ui_serv_connect(polaris_mdt_pubd_t)
polaris_db_tdlldb_dir_use(polaris_mdt_pubd_t)

#For initializing capabilities DB cfg file
polaris_libeiutil_build_config_directory(polaris_mdt_pubd_t)
polaris_cfg_data_manage(polaris_mdt_pubd_t)

optional_policy('  
    # deals with /dev/shm/confd setup (schema and pid)
polaris_confid_shm_setup(polaris_mdt_pubd_t)  
    # and allow read shared schema
polaris_confid_shared_schema_read(polaris_mdt_pubd_t)  
    # read /proc/confd_pid/exe file
polaris_confid_read(polaris_mdt_pubd_t)  
');

# pubd could be configured to connect any port on DNAC
# please see cndp_setup_tcp_socket function
polaris_lfts_dev_use(polaris_mdt_pubd_t)
corenets_tcp_connect_all_ports(polaris_mdt_pubd_t)
polaris_ndbload_lock_use(polaris_mdt_pubd_t)
corenets_tcp_connect_polaris_pttcd_port(polaris_mdt_pubd_t)
corenets_tcp_bind_polaris_netconf_interceptor_port(polaris_mdt_pubd_t)
corenets_tcp_bind_all_unreserved_ports(polaris_mdt_pubd_t)

allow polaris_mdt_pubd_t self:capability { dac_override dac_read_search };
# create ndbutil directory under /var/lock
polaris_confnd_ndbutil_create(polaris_mdt_pubd_t)

polaris_ndbutil_lock_template(polaris_mdt_pubd_t, pubd, ".l.schema_use.pubd")

# grpc library through sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_mdt_pubd_t)

# handling /tmp/rp/.telemetry and /tmp/rp/telemetry
type polaris_mdt_pubd_tmp_t;
files_tmp_file(polaris_mdt_pubd_tmp_t)
files_tmp_filetrans(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, dir, "telemetry")
files_tmp_filetrans(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, dir, ".telemetry")
gen_require(
    type tmp_t;
    )
manage_dirs_pattern(polaris_mdt_pubd_t, { tmp_t polaris_mdt_pubd_tmp_t }, polaris_mdt_pubd_tmp_t)
manage_files_pattern(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, polaris_mdt_pubd_tmp_t)

# from evconfd_dynamic_load
polaris_confnd_shared_schema_watch(polaris_mdt_pubd_t)

# allow grpc library to shutdown socket
allow polaris_mdt_pubd_t self:tcp_socket create_socket_perms;

# allow pubd to access logging facility
logging_send_syslog_msg(polaris_mdt_pubd_t)

# enabling access to /etc/netns and /etc/hosts
polaris_namespace_set_netns_with_etc(polaris_mdt_pubd_t)
gen_require(
    type net_conf_t;
    )
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "hosts")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, dir, "netns")

# allow pubd to create, modify, delete system network config files/dir
sysnet_manage_config(polaris_mdt_pubd_t)
sysnet_manage_config_dirs(polaris_mdt_pubd_t)

# allow pubd to connect socket
allow polaris_mdt_pubd_t self:udp_socket connect;

# allow pubd (object net_conf_t) to watch /etc/netns/1/resolv.conf
allow polaris_mdt_pubd_t net_conf_t:{file dir} watch;
# read access to /dev/random
dev_read_rand(polaris_mdt_pubd_t)

#DB persistence
polaris_tlddbpersist_setup(polaris_mdt_pubd_t)
polaris_tmp_tlddb.persist_setup(polaris_mdt_pubd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.te
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#
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#
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#
#
# polarisstackmgr file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.fc
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dnl
dnl Mar 2020, Manu Roy
dnl
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dnl
dnl dnl Hellcat Platform Max Bay Limits
max_bay_map.set(`rp', `per_bay', 0)
max_bay_map.set(`cc', `per_bay', 0)
max_bay_map.set(`fp', `per_bay', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/hellcatmaps.m4
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#
# March 2017, Victor Kamensky
#
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#
#
policy_module(polarisperiodic, 1.0);
gen_require(
    type polaris_periodic_t;
)

corecmd_exec_bin(polaris_periodic_t)
corecmd_exec_shell(polaris_periodic_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_periodic_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_periodic_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_periodic_t)

# read /etc/init.d/common-utility-functions
init_read_script_files(polaris_periodic_t)

fs_getattr_all_fs(polaris_periodic_t)

# work with /tmp files

type polaris_periodic_tmp_t;
files_tmp_file(polaris_periodic_tmp_t)
manage_files_pattern(polaris_periodic_t, tmp_t, polaris_periodic_tmp_t)
files_tmp_filetrans(polaris_periodic_t, polaris_periodic_tmp_t, file)

allow polaris_periodic_t self:capability sys_resource;

polaris_btrace_data_manage(polaris_periodic_t)
polaris_chasfs_manage(polaris_periodic_t)
polaris_cpld_read(polaris_periodic_t)
polaris_proc_rmonbifo_read(polaris_periodic_t)
polaris_rmonbifo_tmp_read(polaris_periodic_t)
polaris_boot_tmp_read(polaris_periodic_t)
polaris_read_debug_conf(polaris_periodic_t)
polaris_persistent_manage(polaris_periodic_t)

# reads /tmp/issu_proc
polaris_install_tmp_read(polaris_periodic_t)

optional_policy(
    polaris_ncd_tmp_read(polaris_periodic_t)
)

# "install add file" CLI triggers logger sending syslog messages
logging_send_syslog_msg(polaris_periodic_t)

# "install add file" CLI triggers logger executing "pidof linux_iosd-image" which
# read "/sys/devices/system/cpu/online"
dev_read_sysfs(polaris_periodic_t)
#
#/usr/bin/os/conf/cleanup.sh do_cleanup does packages and other umount calls
mount_domtrans(polaris_periodic_t)
polaris_sw_data_manage(polaris_periodic_t)

# determine if the installer is executing
domain_read_all_domains_state(polaris_periodic_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_periodic_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.te
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#
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#
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#
/tmp/pm_post_result -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t,s0)
/tmp/microcode_update(/.*)?       gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t,s0)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.fc
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#
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#
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#

policy_module(polarisfpm, 1.0);

gen_require('  
    type polaris_fpm_t;
')
polaris_chasfs_manage(polaris_fpm_t)
polaris_cpld_read(polaris_fpm_t)
polaris_flashlib_read(polaris_fpm_t)
polaris_tdlresolve_read(polaris_fpm_t)
polaris_ricp_sman_ui_serv_connect(polaris_fpm_t)

polaris_db_tdldb_dir_use(polaris_fpm_t)

logging_send_syslog_msg(polaris_fpm_t)

# vconfd_load_shared_schemas
polaris_conf_s_shared_schema_read(polaris_fpm_t)

# /var/run/fpmd socket and pid
type polaris_fpm_var_run_t;

files_pid_file(polaris_fpm_var_run_t)

manage_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)

manage_sock_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)

files_pid_filetrans(polaris_fpm_t, polaris_fpm_var_run_t, { file sock_file })

polaris_ttm_var_sock_write(polaris_fpm_t)

# fp_scaling_init calls posix_sysconf
dev_read_sysfs(polaris_fpm_t)

# PLEASE LOOK AT ME: write access to /boot/hugepage.conf
# which on ultra translates into /varied/hugepage.conf access
# But no code in polaris uses it
polaris_disk_varied_manage(polaris_fpm_t)

files_manage_boot_files(polaris_fpm_t)

polaris_cedge_tmpfs_manage(polaris_fpm_t)

polaris_fmrt2fpolest_mqipc_use(polaris_fpm_t)

# manually create mqipc channel: missing in TDL
type polaris_fmrt2fpolest_mqipc_t;

polaris_mqipc_type(polaris_fmrt2fpolest_mqipc_t)

polaris_mqipc_create_name(polaris_fpm_t, polaris_fmrt2fpolest_mqipc_t, fmrt2fpolest_vulcan_mqipc)

# fp_scaling_read_core_close accesses cgroups file at
# /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_fpm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.te

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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
divert(-1)

include(`polaris_process.m4')
include(`polaris_process_te.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_te.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_te.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_te.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',``')
define(`polaris_cipc_service_server',``')

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformipcauto, 1.0);

Found in path(s): * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_te.m4
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#
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#
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#
## <summary>Polaris polarishytoolsd Policy Rules.</summary>

Found in path(s): * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishytoolsd.if
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#
# March 2017, Victor Kamensky
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#
/tmp/tdlresolve_tmp(/.*)?                  gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/tmp/tdlresolve(/.*)?                      gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/usr/binos/conf/global.service.conf   -- gen_context(system_u:object_r:polaris_global_service_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.fc
No license file was found, but licenses were detected in source scan.

# February 2020, Victor Kamensky
#
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#
### <summary>Polaris ttm Policy Rules.</summary>

#############################################################################
###<summary>
###Write ttm /var/run socket file
###</summary>
###<param name="domain">
###  <summary>
###      Domain allowed access.
###  </summary>
###</param>
#
interface(`polaris_ttm_var_sock_write',
    gen_require(`
      type polaris_ttm_t;
      type polaris_ttm_var_run_t;
      type var_run_t;
    `)
    write_sock_files_pattern($1, var_run_t, polaris_ttm_var_run_t)
    allow $1 polaris_ttm_t:unix_stream_socket { connectto };
  `)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristtm.if
No license file was found, but licenses were detected in source scan.

#
## <summary>Polaris CYAN Policy Rules.</summary>

### Execute dyncfg in the dyncfg domain.

### <param name="domain">

## Domain allowed to transition.

### <param>

```
interface('polaris_dyncfg_domtrans',
gen_require('type polaris_dyncfg_t, polaris_dyncfg_exec_t;
')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_dyncfg_exec_t, polaris_dyncfg_t)
')
```

### Make the specified domain able to read tmp file created by cyan_init.sh like /tmp/cyan/mono.cdb

### <param name="type">

## Domain allowed access.

### <param>

```
interface('polaris_dyncfg_tmp_read',
gen_require('type polaris_dyncfg_tmp_t;

type tmp_t;
')

read_files_pattern($1, [ tmp_t polaris_dyncfg_tmp_t ], polaris_dyncfg_tmp_t)
read_lnk_files_pattern($1, [ tmp_t polaris_dyncfg_tmp_t ], polaris_dyncfg_tmp_t)
allow $1 polaris_dyncfg_tmp_t:file map;
```
# need by shell that is called from luajit script
auth_read_passwd($1)
)

#########################################################################
## <summary>
##      Make the specified domain able to manage tmp file created by
cyan_init.sh like /tmp/cyan.lock
## </summary>
## <param name="type">
##      Domain allowed access.
## </param>
#
interface('polaris_dyncfg_tmp_manage',
  gen_require(
    type polaris_dyncfg_tmp_t;
    type tmp_t;
  )
)

manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
allow $1 polaris_dyncfg_tmp_t:file map;
)

#########################################################################
## <summary>
##      Execute /tmp/dyncfg/N initialization within given domain.
##
##      Effectively one need this if it needs to run dyncfg_db_run_init_script,
dyncfg_db_init functions within domain context.
##
##      Note it involves lua execution that leads to execmem. Also lua script
##      may exceve shell and some other simple bin processes like mkdir or ln.
## </summary>
## <param name="type">
##      Domain allowed access.
## </param>
#
interface('polaris_dyncfg_setup',
  gen_require(
    type polaris_dyncfg_tmp_t;
    type tmp_t;
  )
)
files_tmp_filetrans($1, polaris_dyncfg_tmp_t, dir, "cyan")
manage_dirs_pattern($1, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
allow $1 polaris_dyncfg_tmp_t:file map;

# dyncfg_setup calls luajit and luajit needs execute JIT generated code
allow $1 self:process execmem;

# LOOK AT ME lua initialization code still uses system function call do some
# trivial things like mkdir. But because of that we need to grant shell and
# bin access to all callers of
corecmd_exec_shell($1)
corecmd_exec_bin($1)

# In chassis_attrs.lua method THIS.WIRELESS checks whether wireless package is installed
# by opening (why open, not stat) wncmgrd binary.
optional_policy(
    gen_require(
        type polaris_wncmgrd_exec_t;
        type bin_t;
    ),
    read_files_pattern($1, bin_t, polaris_wncmgrd_exec_t)
)

# lua code reads /tmp/sw/boot/rmonbifo/boardtype
polaris_rmonbifo_tmp_read($1)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polariscppcp, 1.0);

gen_require(
    type polaris_cpp_cp_t;
)
polaris_btrace_data_manage(polaris_cpp_cp_t)
polaris_crft_data_manage(polaris_cpp_cp_t)
polaris_chasfs_manage(polaris_cpp_cp_t)
polaris_tdlresolve_read(polaris_cpp_cp_t)
polaris_tdlldb_list_dirs(polaris_cpp_cp_t)
polaris_cpld_read(polaris_cpp_cp_t)
polaris_flashlib_read(polaris_cpp_cp_t)

polaris_ripc_sman_ui_serv_connect(polaris_cpp_cp_t)
polaris_db_tdlldb_dir_use(polaris_cpp_cp_t)
polaris_cpp_process(polaris_cpp_cp_t)
polaris_cpp_dev_use(polaris_cpp_cp_t)
polaris_icc_broken_relocations(polaris_cpp_cp_t)
logging_send_syslog_msg(polaris_cpp_cp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cp_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cpp_cp_t)
`)

# cpp_palci_wallclock_time_ticks function reads /var/lock/subsys/snmp offset
files_read_all_locks(polaris_cpp_cp_t)

# allow objstore access
polaris_disk_objstore_read(polaris_cpp_cp_t)

optional_policy(`
polaris_spa_dev_use(polaris_cpp_cp_t)
`)

# handle geodb file access
polaris_geodb_files_manage(polaris_cpp_cp_t)

optional_policy(`
polaris_cbdma_dev_use(polaris_cpp_cp_t)
`)

polaris_hkp_dev_use(polaris_cpp_cp_t)
# Access /dev/astro
polaris_astro_dev_use(polaris_cpp_cp_t)
polaris_vega_dev_use(polaris_cpp_cp_t)
`)
polaris_cpp_tmpfs_manage(polaris_cpp_cp_t)
polaris_cpld_dev_use(polaris_cpp_cp_t)
policy_module(polariscppstats, 1.0);

gen_require(' type polaris_cpp_stats_t;
');

polaris_btrace_data_manage(polaris_cpp_stats_t)
polaris_crft_data_manage(polaris_cpp_stats_t)
polaris_chasfs_manage(polaris_cpp_stats_t)
polaris_tdlresolve_read(polaris_cpp_stats_t)
polaris_tldldb_list_dirs(polaris_cpp_stats_t)
polaris_cpld_read(polaris_cpp_stats_t)
polaris_flashlib_read(polaris_cpp_stats_t)

polaris_ripc_sman_ui_serv_connect(polaris_cpp_stats_t)

polaris_cpp_tmp_files_use(polaris_cpp_stats_t)
# works with /dev/cpp_dev_info, /dev/cpp and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_stats_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_stats_t)

polaris_icc_broken_relocations(polaris_cpp_stats_t)

# get attributes of /dev/shm from glibc where_is_shmfs function
fs_getattr_tmpfs(polaris_cpp_stats_t)

optional_policy(' polaris_cbdma_dev_use(polaris_cpp_stats_t)
');
polaris_cpp_tmpfs_manage(polaris_cpp_stats_t)
polaris_cpld_dev_use(polaris_cpp_stats_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.te
No license file was found, but licenses were detected in source scan.
policy_module(polarislm, 1.0);

gen_require(
    type polaris_lm_t;
)

polaris_btrace_data_manage(polaris_lm_t)
polaris_crft_data_manage(polaris_lm_t)
polaris_chasfs_manage(polaris_lm_t)
polaris_tldresolve_read(polaris_lm_t)
polaris_tlddb_list_dirs(polaris_lm_t)
polaris_cpld_read(polaris_lm_t)
polaris_flashlib_read(polaris_lm_t)
polaris_ripc_sman_ui_serv_connect(polaris_lm_t)

allow polaris_lm_t self:capability { dac_override };

# allow to read /proc/mtd
kernel_read_system_state(polaris_lm_t)

# work with /tmp files (/tmp/iosd_level)
type polaris_lm_tmp_t;
files_tmp_file(polaris_lm_tmp_t)
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "iosd_level")
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "stack_apcount")
manage_files_pattern(polaris_lm_t, tmp_t, polaris_lm_tmp_t)
polaris_dyncfg_tmp_read(polaris_lm_t)
polaris_disk_license_manage(polaris_lm_t)
polaris_disk_csl_manage(polaris_lm_t)
logging_send_syslog_msg(polaris_lm_t)
polaris_lua_read(polaris_lm_t)
# permission to access /tmp/rp/lipc/lmanrtu_stackrtu_socket
# polaris_lm_t policy
allow polaris_lm_t self:unix_stream_socket connectto;
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#

/usr/binos/conf/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.fc
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarislipc, 1.0);

########################################################################
# LIPC policy
########################################################################
gen_require('  
    type polaris_pvp_t;
    attribute polaris_extended_domain;
')

type polaris_lipc_t;
files_type(polaris_lipc_t)

files_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")
init_script_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")

# in some cases pvp.sh creates lipc tmp directory it needs permisions for that
manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_lipc_t)

gen_require('  
    attribute polaris_extended_domain;
    type polaris_pvp_tmp_t;
')
filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_lipc_t, dir, "lipc")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.te
No license file was found, but licenses were detected in source scan.

#
# September 2018, Anubha Bafani
#
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#

### <summary>Polaris Memory Service Policy Rules.</summary>

# Polaris memory: libmaroon and such

### <summary>
## Allow the specified domain to check existence of
## /lib/systemd/system/ksm.service file. Effectively checking
## whether KSM kernel feature is enabled on device or not.
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
#
interface(`polaris_ksm_run_check',`
    gen_require(`
        type systemd_unit_file_t;
    `)
    getattr_files_pattern($1, systemd_unit_file_t, systemd_unit_file_t)
    `)

### <summary>
## Manage temporary maroon files
### </summary>
### <param name="domain">
## Domain allowed access.
### </summary>
### <param>
## <rolebase/>

#

interface('polaris_maroon_data_manage_all',

generate_require(

    attribute polaris_maroon_data_domain;
    type polaris_maroon_base_t;
')

manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_data_domain)
allow $1 polaris_maroon_data_domain:file map;

# manage temporary files in maroon_stats directory
manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_base_t)
')

##########################################################

### <summary>
### Make the specified type usable as maroon data file type.
### </summary>
### <param name="type">
### Type to be used for files.
### </param>
#

interface('polaris_maroon_data_type',

    files_type($1)
    generate_require(

        attribute polaris_maroon_data_domain;
    ')
    type attribute $1 polaris_maroon_data_domain;
')

##########################################################

### <summary>
### Process to manage its own maroon files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <param name="file_type">
### File type of maroon that corresponds to given domain.
### </param>
### <param>
manage_files_pattern($1, polaris_maroon_base_t, $2)
allow $1 $2:file map;
filetrans_pattern($1, polaris_maroon_base_t, $2, file)
)

#######################################
## <summary>
##      Process to manage its own maroon files
## </summary>
## <param name="domain_stem">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_maroon_data_client_template',`
gen_require(`
type polaris_maroon_base_t;
`)

type polaris_${1}_maroon_t;
polaris_maroon_data_type(polaris_${1}_maroon_t)
polaris_maroon_data_client(polaris_${1}_t, polaris_${1}_maroon_t)
`

#######################################
## <summary>
##      Getattr of polaris_zram_device_t files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_zram_getattr',`
gen_require(`
type device_t;
`
type polaris_zram_device_t;

)getattr_blk_files_pattern($1, device_t, polaris_zram_device_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.if
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#
# March 2017, Victor Kamensky
#
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#

/boosthflash/dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.fc
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisreflector, 1.0);

polaris_process_domain_template(reflector)

corecmd_exec_bin(polaris_reflector_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_reflector_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_reflector_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_reflector_t)

# read /etc/hosts file
sysnet_read_config(polaris_reflector_t)

# work with /tmp files
type polaris_reflector_tmp_t;
files_tmp_file(polaris_reflector_tmp_t)
manage_dirs_pattern(polaris_reflector_t, tmp_t, polaris_reflector_tmp_t)
manage_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
manage_fifo_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
files_tmp_filetrans(polaris_reflector_t, polaris_reflector_tmp_t, { file dir })

# reflector can work with droputil tmp files
polaris_droputil_manage_tmp_files(polaris_reflector_t)

#rsync_exec(polaris_reflector_t)
gen_require(
    type rsync_t;
    )
rsync_entry_domtrans(polaris_reflector_t, rsync_t)
allow rsync_t polaris_reflector_t:process sigchld;
# upon exec rsync inherits reflector.sh stdout/stderr which are
# polaris_reflector_t fifo_files
allow rsync_t polaris_reflector_t:fifo_file write;

allow polaris_reflector_t self: capability { sys_resource dac_override };
allow polaris_reflector_t self: process setpgid;

polaris_btrace_data_manage(polaris_reflector_t)
polaris_cpld_read(polaris_reflector_t)
polaris_chasfs_manage(polaris_reflector_t)
polaris_boot_tmp_read(polaris_reflector_t)
polaris_read_debug_conf(polaris_reflector_t)
polaris_disk_crashinfo_getattr(polaris_reflector_t)
polaris_rmonbifo_tmp_read(polaris_reflector_t)

# watch over /tmp/rp/dropbox
polaris_droputil_tmp_watch(polaris_reflector_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
optional_policy(
    polaris_ncd_tmp_read(polaris_reflector_t)
    )

#'rm -rf /tmp/rp/reflector'
fs_getattr_tmpfs(polaris_reflector_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.te
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#
# March 2017, Victor Kamensky
policy_module(polarispman, 1.0);

polaris_process_domain_template(pman)

# reasseess all permissions granted here for new pman
# - do we clone this domain to pmanc, or replace it?

gen_require(`
type polaris_psvp_t;
   type polaris_pvp_t;
`)

corecmd_exec_bin(polaris_pman_t)
corecmd_exec_shell(polaris_pman_t)
# can execute process in polaris domain
polaris_exec(polaris_pman_t)

# LOOK AT ME start-stop-daemon from busy box iterates all
# /proc/<pid> directories and reads /proc/<pid>/cmdline
# /proc/<pid>/exe. I.e it need quite a bit of priviledges
domain_read_all_domains_state(polaris_pman_t)

# pman wants to write to /proc/<pid>/oom_adj of each process
# it started. Now oom_adj is under label of process that owns
# it, so for now let pman to be able to write into any file
# in polaris_domain. Latter try to clean it up by transitioning
# oom_adj into separate domain?

gen_require(`
   attribute polaris_domain;
`)
manage_files_pattern(polaris_pman_t, polaris_domain, polaris_domain)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_pman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pman_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_pman_t)

# read /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_pman_t)
# read/write cgroups files
fs_rwlock_cgroup_files(polaris_pman_t)

dmidecode_domtrans(polaris_pman_t)

allow polaris_pman_t self:capability { sys_nice sys_resource dac_override sys_rawio sys_admin };

polaris_btrace_data_manage(polaris_pman_t)
polaris_chasfs_manage(polaris_pman_t)
polaris_cpld_read(polaris_pman_t)
ifdef(`ngwc_family`,
polaris_cpld_write(polaris_pman_t)
);
polaris_proc_rmonbifo_read(polaris_pman_t)
polaris_rmonbifo_tmp_read(polaris_pman_t)
polaris_boot_tmp_read(polaris_pman_t)
polaris_read_debug_conf(polaris_pman_t)
polaris_boot_tmp_read(polaris_pman_t)

# work with /tmp files
type polaris_pman_tmp_t;
files_tmp_file(polaris_pman_tmp_t)
manage_dirs_pattern(polaris_pman_tmp_t, tmp_t, polaris_pman_tmp_t)
manage_files_pattern(polaris_pman_tmp_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
manage_fifo_files_pattern(polaris_pman_tmp_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
files_tmp_filetrans(polaris_pman_tmp_t, polaris_pman_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "process")
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "pman_ports")

# pcohort reads files in /tmp/rp/process directory
gen_require(`
   attribute polaris_extended_domain;
`);
read_files_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)
list_dirs_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)

# bash needs setpgid in its make_child function
allow polaris_pman_t self:process { setpgid };

# pmanlite uses getsid
allow polaris_pman_t self:process { getsession };

# pman call renice utility to change process nice level
allow polaris_pman_t self:process { setsched };

# pman needs to work with pvp tmp files
polaris_pvp_manage_tmp_files(polaris_pman_t)
# on ultra pman waits for /tmp/cpp_ifdev_rep pipes appearence before
# proceeding further before it starts iosd
optional_policy(
  polaris_cpp_tmp_ifdev_getattr(polaris_pman_t)
)

# /tmp/vxe_ucode_image created by some systemd units and accessed
# by pman, lets transition it into polaris_pman_tmp_t domain
gen_require(
  type initrc_t;
  type init_t;
)
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "vxe_ucode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "wlc_ucode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "utah_ucode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "fugazi_ucode_image")
)

# pman needs to manage cgroups membership of different processes
# See move_to_cgroup pman function. It needs setsched permission
domain_setpriority_all_domains(polaris_pman_t)

# pman.sh can call logger command
logging_send_syslog_msg(polaris_pman_t)

# pman can receive signals from any polaris domain process
polaris_receive_signal_from_domain(polaris_pman_t)

# pman.sh calls pidof command (similar to ps)
# pidof needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_pman_t)
# pidof commands wants sys_ptrace
allow polaris_pman_t self:capability sys_ptrace;

# pman can send signal to anything
domain_signal_all_domains(polaris_pman_t)

# pmanlite can getpgid to its child group processes
domain_getpgid_all_domains(polaris_pman_t)

# pmanlite uses killpg(<child pid>,SIGNULL) to test its child processes
domain_signull_all_domains(polaris_pman_t)

term_use_unallocated_ttys(polaris_pman_t)

optional_policy(
  polaris_repm_tmp Manage(polaris_pman_t)
)'
optional_policy(
  # pman on nyquist ls /tmp/ufs/crashinfo
  polaris_nccd_tmp_read(polaris_pman_t)
)

# runs find over /proc
kernel_getattr_proc(polaris_pman_t)

# PLEASE LOOK AT ME: pman removes /tmp/subpkg directory after CSCvm14562 commit
# back out and change properly after CSCvm51181 is fixed
polaris_install_tmp_manage(polaris_pman_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_pman_t)
fs_getattr_xattr_fs(polaris_pman_t)

# domain for gdbserver started by pman
polaris_utility_domain_template(gdb)
domtrans_pattern(polaris_pman_t, polaris_gdb_exec_t, polaris_gdb_t)

# pman starts gdbserver with stdout pointing to btrace fifo
polaris_use_btrace_fifo(polaris_gdb_t)

# gdbserver reads /proc/$pid/exec of a process it gets attached to.
# Allow to read state of all processes for now.
domain_read_all_domains_state(polaris_gdb_t)

# allow gdbserver to bind to all unreserved ports for now
corenet_tcp_bind_unreserved_ports(polaris_gdb_t)
corenet_tcp_bind_generic_node(polaris_gdb_t)

allow polaris_gdb_t self:process { ptrace setpgid };
allow polaris_gdb_t self:tcp_socket { accept bind create getattr listen setopt };

# pman update iosxe_control_processes/iosxe_mngmt_processes/tasks
fs_manage_cgroup_dirs(polaris_pman_t)
fs_manage_cgroup_files(polaris_pman_t)

optional_policy(
  container_runtime_domtrans(polaris_pman_t)
  )

# pman calls show_version for dockerd executable
optional_policy(
  polaris_container_runtime_show_version(polaris_pman_t)
  )
# needs to access nsfs file during killall invocation
fs_read_nsfs_files(polaris_pman_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pman_t)

# runs over /proc/<pid>/net/stat
kernel_read_network_state_symlinks(polaris_pman_t)

# runs over /proc/<pid>/net/rpc
kernel_read_rpc_sysctls(polaris_pman_t)

# LOOK AT ME: why pman doing it
# from mgmt/confd/confd/src/confd_startup_sh_post_exit.sh archive_errlog function
polaris_btrace_persistent_data_manage(polaris_pman_t)
polaris_conflog_log_manage(polaris_pman_t)
allow polaris_pman_t self:process setfscreate;

# access /bootflash/Install/install_issu_state
polaris_disk_install_read(polaris_pman_t)

# /usr/binos/conf/umbrella_init.sh that runs under pman
# copies into /bootflash/ios_core.p7b
polaris_bootflash_manage(polaris_pman_t)

optional_policy(
# we may write bits to the exiting_bays file in /proc
polaris_rwlock_exiting_bays(polaris_pman_t)
')

ifdef('ngwc_family',
# linux_iosd_image_post_exit.sh restores the slot-based address
# for the management ethernet should be restored on dual RP system.
polaris_chvrf_domtrans(polaris_pman_t)
sysnet_domtrans_ifconfig(polaris_pman_t)

# For use of flashutil preparing for reload
polaris_flashlib_read(polaris_pman_t)
polaris_flashlib_write(polaris_pman_t)
')

# File description leaks for TDL db lock files as processes are managed by
# pman.
# TODO Eventually these fd leaks should be fixed in the calling processes
#
# Note that TDL db lock file interfaces are typically generated by TDL and
# are not found in our local .if files
polaris_tdlresolve_read(polaris_pman_t)
polaris_db_tdlldb_ios_oper_use(polaris_pman_t)

ifdef(`nyquist_platform',`
    polaris_db_tdlldb_ewlc_operational_use(polaris_pman_t)
polaris_db_tdlldb_rogued_use(polaris_pman_t)
polaris_db_tdlldb_ewlc_config_use(polaris_pman_t)
polaris_db_tdlldb_wstatsd_use(polaris_pman_t)
polaris_db_tdlldb_client_global_use(polaris_pman_t)
')

# delete /tmp/booted from linux_iosd_image_post_exit.sh when iosd goes down.
# For example: preparing for reload.
gen_require('
    type polaris_iosd_tmp_files_t;
')
allow polaris_pman_t polaris_iosd_tmp_files_t:file { delete_file_perms open };

# Upon exit of a process, pman needs to remove sai directory and files
# associated with the process
polaris_pvp_delete_sai_files(polaris_pman_t)
# rsync port want to establish TCP connection
# runs over /usr/bin/rsync
corenets_tcp_connect_rsync_port(polaris_pman_t)
rsync_entry_type(polaris_pman_t)

ifdef(`crankshaft_family',`
    # Provide process signal perms to pman.
polaris_caf_proc_signal_perms(polaris_pman_t)
')

# open connections from processes managed by pman can leak. The selinux
# errors associated with these typically come from a forked and renamed
# elastic process like wncd_0. During process forking/startup, node
# binds may cause denials as they are brought up by pman
ifdef(`ngwc_family',`
corenets_tcp_bind_generic_node(polaris_pman_t)
corenets_udp_bind_generic_node(polaris_pman_t)
corenets_tcp_connect_lisp_cons_control_port(polaris_pman_t)
')

# pman can stop itself on reload
allow polaris_pman_t self:capability kill;

# For pmanlite, allow pman's grand-children rsync to be able to operate on pipe created by pman.
gen_require('
    type rsync_t;
')
polaris_use_pman_fifo(rsync_t)

ifdef(`sumatra_platform',
  # Allow pman to execute cman_fp in the polaris_cm_fp_t domain
  polaris_cm_fp_domtrans(polaris_pman_t)
)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.te
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dnl
dnl Nyquist Platform Max Bay Limits
  max_bay_map_set(`rp', `per_bay', 0)
  max_bay_map_set(`cc', `per_bay', 0)
  max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
  max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
  max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
  max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

  max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
  max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
  max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/nyquistmaps.m4
No license file was found, but licenses were detected in source scan.

#
# Aug 2020, Sridhar
#
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#
## <summary>Polaris xcopy Policy Rules.</summary>

###########################################################################
## <summary>
##   Execute xcopy related scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(‘polaris_xcopy_script_domtrans’,
    gen_require(‘
        type polaris_xcopy_script_t, polaris_xcopy_script_exec_t; 
    ’)
    domtrans_pattern($1, polaris_xcopy_script_exec_t, polaris_xcopy_script_t)
’)
#

#######################################
## <summary>
##      xcopy progress temp file access
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(‘polaris_xcopy_tmp_manage’,
    gen_require(‘
        type polaris_xcopy_tmp_t;
    ’)
    manage_dirs_pattern($1,polaris_xcopy_tmp_t, polaris_xcopy_tmp_t)
    manage_files_pattern($1,polaris_xcopy_tmp_t, polaris_xcopy_tmp_t)
’)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisxcopy.if
No license file was found, but licenses were detected in source scan.

# # April 2017, Victor Kamensky
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#
## <summary>Polaris dmi_ncsshd_mgmt Policy Rules.</summary>

### <summary>Polarr dmi_ncsshd_mgmt Policy Rules.</summary>

### <summary>
##      Read polaris_ncsshd_keys_t files, effectively access
##  /tmp/.ncsshd_authorized_keys created by psd and read by ncsshd
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_ncsshd_authorized_keys_read',`
    gen_require('`
    type polaris_ncsshd_keys_t;
    ')
    read_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
    list_dirs_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
    ')

########################################
## <summary>
##     Watch /var/run/netns and list contents
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_watch_netns',`
    gen_require('`
    type ifconfig_var_run_t;
    ')
    list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
    allow $1 ifconfig_var_run_t:dir watch;
    ')

########################################
## <summary>
##     Manage polaris_ptted_tmp_t files, effectively files
## under /tmp/tmppub/interceptor
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_interceptor_manage',`
    gen_require('`
type polaris_pttcd_tmp_t;

manage_files_pattern($1, polaris_pttcd_tmp_t, polaris_pttcd_tmp_t)
manage_dirs_pattern($1, polaris_pttcd_tmp_t, polaris_pttcd_tmp_t)
allow $1 polaris_pttcd_tmp_t:{ dir file } watch;

########################################
## <summary>
##      Execute a domain transition to run ncshhd polaris process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_ncshhd_mgmt_domtrans`,
   gen_require(
      type polaris_dmi_ncshhd_mgmt_t, polaris_dmi_ncshhd_mgmt_exec_t;
   )
)

domtrans_pattern($1, polaris_dmi_ncshhd_mgmt_exec_t, polaris_dmi_ncshhd_mgmt_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgmt.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
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#
## <summary>Polaris cm_rp Policy Rules.</summary>

########################################################
## <summary>
##      Execute cmsh_fp in the polaris_cm_fp_t domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_cm_rp_domtrans',
    gen_require(
        type polaris_cm_rp_t, polaris_cm_rp_exec_t;
    ')
)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_cm_rp_exec_t, polaris_cm_rp_t)
')

#########################################################
## <summary>
## Write into fifo file created by cmrp, typical case when
## cmrp starts script under popen.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_cmrp_use_fifo',
    gen_require(
        type polaris_cm_rp_t;
    ')
)
    write_fifo_files_pattern($1, polaris_cm_rp_t, polaris_cm_rp_t)
')

#########################################################
## <summary>
## Write/read /tmp/pfu_oirtime.lock file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_cm_rp_tmp_manage',
    gen_require(
        type polaris_cm_rp_tmp_t;
        type tmp_t;
    ')
    manage_dirs_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
    manage_files_pattern($1,{ tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
')
### <summary>
### Setup policies to access dir and file
### /vol/harddisk/.inv/inv_log_file
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface(`polaris_cm_rp_inv_log_setup',`
  gen_require(`
    type polaris_cm_rp_inv_log_file_t;
    type polaris_disk_harddisk_t;
    type polaris_disk_bootflash_t;
  `)
  filetrans_pattern($1, {polaris_disk_harddisk_t polaris_disk_bootflash_t}, polaris_cm_rp_inv_log_file_t, dir,
    ".inv")
  # allow access to /vol/harddisk/.
  manage_dirs_pattern($1, {polaris_disk_harddisk_t polaris_disk_bootflash_t}, polaris_cm_rp_inv_log_file_t)
  # allow access to /vol/harddisk/inv/inv_log_file
  manage_files_pattern($1,{polaris_cm_rp_inv_log_file_t}, polaris_cm_rp_inv_log_file_t)
`)

### <summary>
### Write into /tmp/codesign.txt file created by cm_rp
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
# interface(`polaris_cm_rp_tmp_write',`
  gen_require(`
    type polaris_cm_rp_tmp_t;
  `)
  write_files_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.if
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
policy_module(polarisvdaemon, 1.0);

gen_require(
    type polaris_vdaemon_t;
)
polaris_chasfs_manage(polaris_vdaemon_t)
# read and write /bootflash/sdwan/etc/vdaemon_gen_id
polaris_bootflash_manage(polaris_vdaemon_t)
polaris_tdlresolve_read(polaris_vdaemon_t)
polaris_cpld_read(polaris_vdaemon_t)
polaris_flashlib_read(polaris_vdaemon_t)
polaris_ripc_sman_ui_serv_connect(polaris_vdaemon_t)
polaris_db_tdlldb_dir_use(polaris_vdaemon_t)
logging_send_syslog_msg(polaris_vdaemon_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_vdaemon_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vdaemon_t)
polaris_cedge_reset_ns(polaris_vdaemon_t)

# calls ifconfig for tun_0_0 interface
sysnet_domtrans_ifconfig(polaris_vdaemon_t)

# calls dmidecode get system serial number
dmidecode_domtrans(polaris_vdaemon_t)

#/var/run/vdaemon socket and pid
type polaris_vdaemon_var_run_t;
files_pid_file(polaris_vdaemon_var_run_t)
manage_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
manage_sock_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
files_pid_filetrans(polaris_vdaemon_t, polaris_vdaemon_var_run_t, { file sock_file })
polaris_ttm_var_sock_write(polaris_vdaemon_t)

# generate_instance_uuid reads /sys/devices/virtual/dmi/id/product_uuid
dev_read_sysfs(polaris_vdaemon_t)
# vip_util_set_fd_limits calls setrlimit
allow polaris_vdaemon_t self:process { setrlimit setpgid };

allow polaris_vdaemon_t self:capability { dac_override fowner sys_resource };

# vdaemon_init_tunn_intf initilize tun_0_0 in vrf 1
allow polaris_vdaemon_t self:tun_socket create;
corenets_wu_tun_dev(polaris_vdaemon_t)

polaris_persistent_watch(polaris_vdaemon_t)
# from vdaemon_misc.c vdaemon_init_inotify function
polaris_cedge_etc_watch(polaris_vdaemon_t)

# set_ns_with_etc mounts on / and /sys
# set_ns_with_etc opens /etc/etns/1 dir
polaris_namespace_set_netns_with_etc(polaris_vdaemon_t)
# DNS thread complains about tmp_t mounton
# on /sys when switching namespace
gen_require('type tmp_t;
')
allow polaris_vdaemon_t tmp_t:dir mounton;

# vip_util_set_ns opens /var/run/netns/*
polaris_cedge_set_ns(polaris_vdaemon_t)
# vip_dns_process_request switches namespace from linux n/w namespace to
# original mount namespace
allow polaris_vdaemon_t self:capability { net_admin sys_chroot };
allow polaris_vdaemon_t self:udp_socket { bind connect create getattr setopt shutdown };

# control linux routes vip_route_delete and vdaemon_setup_system_ip_route
allow polaris_vdaemon_t self:netlink_route_socket { bind create getattr nlmsg_read nlmsg_write };

# binds to vbond udp ports
corenets_udp_bind_generic_node(polaris_vdaemon_t)
corenets_udp_bind_polaris_vbond_port(polaris_vdaemon_t)

# though default ports exist, users can configure the tcp ports in vManage and vSmart
corenets_tcp_connect_all_ports(polaris_vdaemon_t)

# vbond_proc_hello executes VIP_CDB_BACKUP_SCRIPT
polaris_confdomtrans(polaris_vdaemon_t)
# VIP_CDB_BACKUP_SCRIPT makes use of /etc/confd/confd_ipc_secret
auth_map_passwd(polaris_vdaemon_t)

# vdaemon_write_authorized_keys_to_ncsshd opens VDAEMON_NCSSHD_AUTH_KEY_FILE file
polaris_nccssh_keys_manage(polaris_vdaemon_t)
# vbond_encode_version opens /etc/version
polaris_confed_etc_read(polaris_vdaemon_t)

# generate_or_parse_uuid() invokes uuid_generate that needs read on
# random-number generator devices (e.g., /dev/random).
dev_read_rand(polaris_vdaemon_t)

# vdaemon_exec_iptables() is invoked by vdaemon all over the place
iptables_domtrans(polaris_vdaemon_t)

allow polaris_vdaemon_t self:capability net_raw;
allow polaris_vdaemon_t self:rawip_socket create_socket_perms;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.te
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#
# March 2017, Victor Kamensky
#
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#

### <summary>Polaris fman_rp Policy Rules.</summary>


### <summary>Manage mqipc fmrp2fpm shared memory file in /dev/shm directory</summary>

### <param name="domain">

### Domain allowed access.

### </param>

#
interface(`polaris_fmrp2fpm_mqipc_use',``
gen_require(`'
type polaris_fmrp2fpm_mqipc_t;
')
polaris_mqipc_use($1, polaris_fmrp2fpm_mqipc_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.if
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dnl
May 2019

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confined and permissive domain maps

```
dnl confined_domain_set('polaris_iosd_t', `polaris_iosd_t')
```

```
dnl permissive_domain_set('polaris_nginx_t', `polaris_nginx_t')
dnl permissive_domain_set('polaris_nginx_webui_t', `polaris_nginx_webui_t')
dnl permissive_domain_set('polaris_nginx_webui_install_t', `polaris_nginx_webui_install_t')
```

### March 2017, Victor Kamensky

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```
/tmp/dbgmn_log_svr  gen_context(system_u:object_r:polaris_fed_sock_t,s0)
/tmp/fed_post_result -- gen_context(system_u:object_r:polaris_fed_tmp_t,s0)
/flash/shfwd_params.txt  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
```

No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarirollbacktimer, 1.0);

polaris_process_domain_template(rbtimer)

corecmd_exec_bin(polaris_rbtimer_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_rbtimer_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_rbtimer_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_rbtimer_t)

# work with /tmp files
type polaris_rbtimer_tmp_t;
files_tmp_file(polaris_rbtimer_tmp_t)
manage_dirs_pattern(polaris_rbtimer_t, tmp_t, polaris_rbtimer_tmp_t)
manage_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
manage_fifo_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
files_tmp_filetrans(polaris_rbtimer_t, polaris_rbtimer_tmp_t, { file dir })

# work with /bootflash/.rollback_timer (RBT_CONTROL_DIR) file
type polaris_rbtimer_bootflash_t;
polaris_disk_type(polaris_rbtimer_bootflash_t)
polaris_rbtimer_bootflash_manage(polaris_rbtimer_t)

allow polaris_rbtimer_t self:capability sys_resource;
allow polaris_rbtimer_t self:capability dac_override;
allow polaris_rbtimer_t self:process setpgid;

polaris_btrace_data_manage(polaris_rbtimer_t)
polaris_chasfs_manage(polaris_rbtimer_t)
polaris_cpld_read(polaris_rbtimer_t)
polaris_boot_tmp_read(polaris_rbtimer_t)
polaris_read_debug_conf(polaris_rbtimer_t)
polaris_proc_rmonbifo_read(polaris_rbtimer_t)
polaris_rmonbifo_tmp_read(polaris_rbtimer_t)
polaris_disk_crashinfo_getattr(polaris_rbtimer_t)
polaris_disk_hardin disk_read_lnk(polaris_rbtimer_t)
polaris_bootflash_manage(polaris_rbtimer_t)

logging_send_syslog_msg(polaris_rbtimer_t)

# uses pidof
domain_read_all_domains_state(polaris_rbtimer_t)
dev_read_sysfs(polaris_rbtimer_t)

# rollbacktimer runs install_engine.sh
polaris_install_engine_domtrans(polaris_rbtimer_t)

polaris_script_errmsg_use(polaris_rbtimer_t)

# watch over /bootflash/.rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_bootflash_t:dir watch;
# watch over /tmp/rp/rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_tmp_t:dir watch;

# access to /tmp/ufs//crashinfo
optional_policy(
  polaris_ncd_tmp_read(polaris_rbtimer_t)
')
# access to read packages.conf
polaris_read_packages_conf(polaris_rbtimer_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_rbtimer_t)

# access to "/bootflash/.installer/install_abort_timer_val"
polaris_disk_install_read(polaris_rbtimer_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarishytoolsd, 1.0);

polaris_process_domain_template(bhytoolsd)
polaris_btrace_data_manage(polaris_bhytoolsd_t)
polaris_chasfs_manage(polaris_bhytoolsd_t)
polaris_cpld_read(polaris_bhytoolsd_t)

# vmtoolsd transtions from polaris_bhytoolsd_t to vmtools_t -
# bhytoolsd is small wrapper that calls vmtoolsd
vmtools_domtrans(polaris_bhytoolsd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

policy_module(polarismobilityd, 1.0);

gen_require(''
    type polaris_mobilityd_t;
')
polaris_btrace_data_manage(polaris_mobilityd_t)
polaris_crft_data_manage(polaris_mobilityd_t)
polaris_chasfs_manage(polaris_mobilityd_t)
polaris_tdlresolve_read(polaris_mobilityd_t)
polaris_tdlldb_list_dirs(polaris_mobilityd_t)
polaris_cpld_read(polaris_mobilityd_t)
polaris_lua_read(polaris_mobilityd_t)
polaris_flashlib_read(polaris_mobilityd_t)
polaris_ripc_sman_ui_serv_connect(polaris_mobilityd_t)
polaris_db_tdlldb_dir_use(polaris_mobilityd_t)

# allow to use setrlimit
allow polaris_mobilityd_t self:capability sys_resource;
allow polaris_mobilityd_t self:process setrlimit;
allow polaris_mobilityd_t self:capability dac_override;
allow polaris_mobilityd_t self:udp_socket { create_socket_perms recv_msg send_msg }

logging_send_syslog_msg(polaris_mobilityd_t)
polaris_lfts_dev_use(polaris_mobilityd_t)
polaris_cpld_read(polaris_mobilityd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_mobilityd_t)

polaris_tmp_tdl_db_persist_setup(polaris_mobilityd_t)

polaris_tdl_db_persist_setup(polaris_mobilityd_t)

corenet_udp_bind_generic_node(polaris_mobilityd_t)
corenet_udp_bind_polaris_mobility_ctl_port(polaris_mobilityd_t)
corenet_udp_bind_polaris_mobility_data_port(polaris_mobilityd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.te
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#
# June 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/wui-lighttpd-launch.sh -- gen_context(system_u:object_r:polaris_webui_lighttpd_exec_t,s0)

/usr/bin/os/conf/wui-app-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)

/usr/bin/os/conf/wui-tipc-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)

/webui(/.*)? gen_context(system_u:object_r:polaris_webui_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.fc
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#

/tmp/DmiAuth.socket -s gen_context(system_u:object_r:polaris_dmi_dmiauthd_tmp_t,s0)
/tmp/netconf-yang-diag(/.*)? gen_context(system_u:object_r:polaris_dmi_dmiauthd_tmp_diags_t,s0)
/usr/bin/os/conf/dmid_diag_logs.sh -- gen_context(system_u:object_r:polaris_dmid_diag_logs_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/o/selinux-tar/selinux/polarisdmidauthd.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

# polarisrrmmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/o/selinux-tar/selinux/polarisrrmmgr.fc
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#
# May 2017, Victor Kamensky
#
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#

## <summary>Polaris pttcd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/o/selinux-tar/selinux/polarispttcd.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/oom.sh -- gen_context(system_u:object_r:polaris_oom_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/o/selinux-tar/selinux/polarisoom.fc
No license file was found, but licenses were detected in source scan.

#
# July 2020, Swati Kumari
#
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#

policy_module(polarisptpdrp, 1.0);

gen_require(
    type polaris_ptpd_rp_t;
)
polaris_chasfs_read(polaris_ptpd_rp_t)
polaris_cpld_read(polaris_ptpd_rp_t)
polaris_tdlresolve_read(polaris_ptpd_rp_t)
polaris_lsmipi_dev_use(polaris_ptpd_rp_t)

# ptpd needs to have open,read,write access with /dev/ds31408
polaris_ds31408_dev_use(polaris_ptpd_rp_t)

# blzi device
polaris_blzi_dev_use(polaris_ptpd_rp_t)

allow polaris_ptpd_rp_t self:capability sys_nice;
allow polaris_ptpd_rp_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.te
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#
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#
/tmp/lsn.log -- gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)
/tmp/epc_ws(/.*)? gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)

# CLI: show platform software wireshark
/usr/binos/conf/wireshark_show.sh -- gen_context(system_u:object_r:polaris_wireshark_show_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.fc
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#
policy_module(polarisgsdrp, 1.0);

gen_require(
    type polaris_gsd_rp_t;
')

#allow to run  readlink /dev/loop0 & /bin/date
corecmd_exec_bin(polaris_gsd_rp_t)

#run ldd, which in turn exec "ld.so --verify"
libs_exec_ld_so(polaris_gsd_rp_t)

# allow to run mount in its own domain
mount_domtrans(polaris_gsd_rp_t)
#    awk -v what=^.BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_gsd_rp_t)
polaris_btrace_data_manage(polaris_gsd_rp_t)
polaris_chasfs_manage(polaris_gsd_rp_t)
polaris_read_debug_conf(polaris_gsd_rp_t)
polaris_disk_crashinfo_getattr(polaris_gsd_rp_t)
polaris_guestshell_exec_files_exec(polaris_gsd_rp_t)
polaris_guestshell_files_read(polaris_gsd_rp_t)
polaris_ncd_tmp_read(polaris_gsd_rp_t)
polaris_proc_monbifo_read(polaris_gsd_rp_t)
polaris_cpld_read(polaris_gsd_rp_t)
polaris_bootflash_read(polaris_gsd_rp_t)
polaris_harddisk_read(polaris_gsd_rp_t)

# read /proc/cmdline
kernel_read_system_state(polaris_gsd_rp_t)

auth_use_nsswitch(polaris_gsd_rp_t)
polaris_monbifo_tmp_read(polaris_gsd_rp_t)

allow polaris_gsd_rp_t self:capability { dac_override sys_resource };
allow polaris_gsd_rp_t self:process setpgid;

type polaris_gsd_rp_tmp_t;
files_tmp_file(polaris_gsd_rp_tmp_t)
manage_dirs_pattern(polaris_gsd_rp_t, tmp_t, polaris_gsd_rp_tmp_t)
manage_files_pattern(polaris_gsd_rp_t, tmp_t, polaris_gsd_rp_tmp_t)
manage_fifo_files_pattern(polaris_gsd_rp_t, polaris_gsd_rp_tmp_t, polaris_gsd_rp_tmp_t)
# work with /tmp/guestshell_stk directory
files_tmp_filetrans(polaris_gsd_rp_t, polaris_gsd_rp_tmp_t, dir, "guestshell_stk")

gen_require(
    type rsync_t;
rsync_entry_domtrans(polaris_gsd_rp_t, rsync_t)
allow rsync_t polaris_gsd_rp_t:process sigchld;

# read /opt/cisco/caf directory
polaris_caf_files_read(polaris_gsd_rp_t)

gen_require(''
    type polaris_caf_api_port_t;
    type polaris_caf_exec_t;
')
allow polaris_gsd_rp_t polaris_caf_api_port_t:tcp_socket name_connect;
allow polaris_gsd_rp_t polaris_caf_exec_t:file { getattr open read };
allow polaris_gsd_rp_t tmp_t:dir { create rmdir };
polaris_flashlib_read(polaris_gsd_rp_t)
polaris_flashlib_write(polaris_gsd_rp_t)

# watch over /tmp/udev/etc/udev
polaris_udev_tmp_read(polaris_gsd_rp_t)
polaris_udev_tmp_watch(polaris_gsd_rp_t)
# watch over /bootflash/gs_script
polaris_persistent_watch(polaris_gsd_rp_t)
# allow iox_ha_utils.sh to read /etc/docker/daemon.json.
gen_require(''
    type container_config_t;
')
read_files_pattern(polaris_gsd_rp_t, container_config_t, container_config_t)

# allow guestshell_ha.sh to log messages
logging_send_syslog_msg(polaris_gsd_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdrp.te
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#
## <summary>Polaris Rmonbifo Policy Rules.</summary>

################################################################################
# Polaris Rmonbifo Driver policy
################################################################################
### <summary>
### Read /proc/rmbonbifo files.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface(`polaris_proc_rmonbifo_read',
# gen_require(`
type polaris_proc_rmonbifo_t;
')
  read_files_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
  list_dirs_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
')

### <summary>
### Getattr of /proc/rmbonbifo files.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface(`polaris_proc_rmonbifo_getattr',
# gen_require(`
type polaris_proc_rmonbifo_t;
')
  getattr_files_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
')

### <summary>
### Read /tmp/sw/boot/rmbonbifo files.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#interface(`polaris_rmonbifo_tmp_read',
gen_require(`
type polaris_rmonbifo_tmp_t;
    type polaris_boot_tmp_t;

    read_files_pattern($1, polaris_rmonbifo_tmp_t, polaris_rmonbifo_tmp_t)
    # /tmp/sw/boot/rmonbifo dir is inside of polaris_boot_tmp_t dir
    search_dirs_pattern($1, polaris_boot_tmp_t, polaris_rmonbifo_tmp_t)

    

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.if
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#

/usr/binos/conf/ncd.sh -- gen_context(system_u:object_r:polaris_ncd_exec_t,s0)
/etc/conf/unifiedfs/mount_data  gen_context(system_u:object_r:polaris_ncd_etc_t,s0)

/usr/binos/conf/iosd_console_attach.sh -- gen_context(system_u:object_r:polaris_console_attach_exec_t,s0)

/usr/binos/conf/unifiedfs/unifiedfs_helper.sh -- gen_context(system_u:object_r:polaris_ufs_helper_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.fc
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#

## <summary>Polaris iosd Policy Rules.</summary>

###############################################
## <summary>
##      Make the specified domain able to work with /tmp/restconf
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## <summary>
##      Create domain for IOSD Polaris processes. Note
##      depending on policy build setting it could be confined or
##      not confined
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_iosd_domain',`
      polaris_process_domain_confined($1, $2)

      polaris_iosd_maybe_unconfined($1)
')

## <summary>
##      Make the specified domain able to work with iosd2iox files
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iosd2iox_tmp_manage',`
      gen_require(
          type polaris_iosd2iox_tmp_t;

          manage_files_pattern($1, polaris_iosd2iox_tmp_t, polaris_iosd2iox_tmp_t)
          manage_dirs_pattern($1, polaris_iosd2iox_tmp_t, polaris_iosd2iox_tmp_t)

          )
      ')
manage_files_pattern($1, polaris_iosd2iox_tmp_t, polaris_iosd2iox_tmp_t)

###############
## <summary>
## Make the specified domain able to read iosd2iox files
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface('polaris_iosd2iox_tmp_read',
    gen_require(
        type polaris_iosd2iox_tmp_t;
    )
    read_files_pattern($1,polaris_iosd2iox_tmp_t,polaris_iosd2iox_tmp_t)
)

###############
## <summary>
## Send messages to iosd unix datagram sockets.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_iosd_dgram_send',
    gen_require(
        type polaris_iosd_t;
    )
    allow $1 polaris_iosd_t:unix_dgram_socket sendto;
)

###############
## <summary>
## Make the specified domain to read /tmp/rp/.iosp_dmiauthd
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
## <summary>
## Make the specified domain to read /tmp/rp/.iosp_gnmib
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_gnmib_token_read',
  gen_require(
    type polaris_gnmib_token_t;
  )
  manage_files_pattern($1, polaris_gnmib_token_t, polaris_gnmib_token_t)
')

## <summary>
## Make the specified domain able to work with files
## with polaris_iosd_tmp_files_t
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_iosd_tmp_file_use',
  gen_require(
    type polaris_iosd_tmp_files_t;
  )
  manage_files_pattern($1, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
  allow $1 polaris_iosd_tmp_files_t:sock_file { manage_sock_file_perms};
')
## <summary>
## Manage /bootflash/geodb/ files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_geodb_files_manage',
  gen_require(
    type polaris_geodb_files_t;
  ')

  manage_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
  manage_dirs_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
  manage_lnk_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
')

## <summary>
## Allow the specified domain to read /boot/vcpu_template.txt
## or /csl_p_0/vcpu_template.txt
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface('polaris_iosd_vcpu_read',
  gen_require(
    type polaris_iosd_vcpu_t;
    type polaris_disk_varied_t;
    type polaris_disk_csl_p_t;
  ')

  read_files_pattern($1, [ polaris_disk_varied_t polaris_disk_csl_p_t ], polaris_iosd_vcpu_t)
')

## <summary>
## Allow the specified domain to read /tmp/usb-disable
## </summary>
## <param name="type">
##
## <summary>
## Domain allowed access.
## </summary>

# interface('polaris_iosd_usb_disable_tmp_manage',
  gen_require('  
      type polaris_iosd_usb_disable_tmp_t;
   ')

  manage_files_pattern($1, polaris_iosd_usb_disable_tmp_t, polaris_iosd_usb_disable_tmp_t)
  files_tmp_filetrans($1, polaris_iosd_usb_disable_tmp_t, file, "usb-disable")
)

########################################

## <summary>
## Allow the specified domain to access /bootflash/EFI
## </summary>

## <param name="type">
## Domain allowed access.
## </param>

# interface('polaris_efi_files_list_dirs',
  gen_require('  
      type polaris_efi_files_t;
   ')

  list_dirs_pattern($1, polaris_efi_files_t, polaris_efi_files_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.if
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#

# polarissmd file contexts place holder

# dc_profile_dir
/mnt/sd3/user/dc_profile_dir(/.*)? gen_context(system_u:object_r:polaris_smd_disk_t,s0)  
/flash1/user/dc_profile_dir(/.*)? gen_context(system_u:object_r:polaris_smd_disk_t,s0)
/bootflash/dc_profile_dir(/.*)? gen_context(system_u:object_r:polaris_smd_disk_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.fc
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# polarismqipc file contexts place holder

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#

## <summary>Polaris iomd Policy Rules. </summary>

##########################################################
## <summary>
## Work (read, write, ioctl) with /dev/ngio[0-9+] devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_ngio_dev_use',
    gen_require(
        type device_t;
        type polaris_ngio_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_ngio_device_t)
    read_chr_files_pattern($1, device_t, polaris_ngio_device_t)
)

Found in path(s):
# Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22585

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.if
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#

policy_module(polarisrepm, 1.0);

gen_require(`
    type polaris_repm_t;
`)

polaris_btrace_data_manage(polaris_repm_t)
polaris_crft_data_manage(polaris_repm_t)
polaris_chasfs_manage(polaris_repm_t)
polaris_tdlresolve_read(polaris_repm_t)
polaris_tdlldb_list_dirs(polaris_repm_t)
polaris_cpld_read(polaris_repm_t)
polaris_lua_read(polaris_repm_t)
polaris_flashlib_read(polaris_repm_t)

polaris_ripc_sman_ui_serv_connect(polaris_repm_t)

polaris_db_tdlldb_dir_use(polaris_repm_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_repm_t)

allow polaris_repm_t self:capability { sys_resource dac_override };
allow polaris_repm_t self:process setrlimit;

# temporary files created for repm in /tmp/replication

file_type polaris_repm_tmp_t;
files_tmp_file(polaris_repm_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_repm_tmp_t, dir, "replication")
manage_files_pattern(polaris_repm_t, polaris_repm_tmp_t, polaris_repm_tmp_t)

polaris_dyncfg_tmp_read(polaris_repm_t)
polaris_tdlldbpersist_setup(polaris_repm_t)
polaris_tmp_tdlldb_persist_setup(polaris_repm_t)

# send syslog
logging_send_syslog_msg(polaris_repm_t)

# mq-local_rp_1_0
type polaris_repm_local_rp_mqipc_t:
polaris_mqipc_type(polaris_repm_local_rp_mqipc_t)

polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_1_0)
polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_0_0)

# repm peer mqipc queues under /dev/shm/repm_peer_mq folder
type polaris_repm_peer_mqipc_t:
polaris_mqipc_type(polaris_repm_peer_mqipc_t)
polaris_mqipc_create_name_dir(polaris_repm_t, polaris_repm_peer_mqipc_t, repm_peer_mq)

# repm invokes installer_api_* api's which need access to /bootflash/installer/install_issu_state
polaris_install_disk_read(polaris_repm_t)

ifdef(`petra_platform',
# allow access to polaris_cm_rp sem for chasfs
polaris_cm_rp_sem_use(polaris_repm_t)
# allow access to /flash12/moncfg/fg.dat for config
polaris_swipedrive_file_manage(polaris_repm_t)
')

# execute /bin/tar
corecmd_exec_bin(polaris_repm_t)
# tar reads /etc/passwd
auth_use_nsswitch(polaris_repm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.te
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#

##<summary>Polaris NGWC Platform Policy Rules.</summary>

#################################################################
##<summary>
## Manage ngwc shared memory /dev/shm/ngwc_shm.
##</summary>
##<param name="domain">

<summary>Domain allowed access.</summary></param>

interface('polaris_ngwc_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_ngwc_shm_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_shm_t)
    allow $1 polaris_ngwc_shm_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_shm_t, file, "ngwc_shm")
)

interface('polaris_ngwc_scc_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_ngwc_scc_shm_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t)
    allow $1 polaris_ngwc_scc_shm_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t, file, "ngwc_scc_shm")
)

interface('polaris_ngwc_iomd_to_fed_ptp_offload',
    gen_require(
        type tmpfs_t;
        type polaris_ngwc_iomd_to_fed_ptp_offload_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_iomd_to_fed_ptp_offload_t)
    allow $1 polaris_ngwc_iomd_to_fed_ptp_offload_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_iomd_to_fed_ptp_offload_t, file, "iomd_to_fed_ptp_offload")
)
interface('polaris.ngwc.itfpo_manage',
    gen_require(
        type tmpfs_t;
        type polaris.ngwc.itfpo_t;
    )
    fs_getattr(tmpfs($1))
    manage_files_pattern($1, tmpfs_t, polaris.ngwc.itfpo_t)
    allow $1 polaris.ngwc.itfpo.t:file map;
    filetrans_pattern($1, tmpfs_t, polaris.ngwc.itfpo_t, file, "iomd_to_fed_ptp_offload")
)

##############################################################################
## <summary>
##      Manage ngwc sdm shared memory /dev/shm/sdm.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris.sdm.shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris.sdm.shm_t;
    )
    fs_getattr(tmpfs($1))
    manage_files_pattern($1, tmpfs_t, polaris.sdm.shm_t)
    filetrans_pattern($1, tmpfs_t, polaris.sdm.shm_t, file, "sdm")
    allow $1 polaris.sdm.shm.t:file map;
)

##############################################################################
# MMAP Driver for mapping ASIC Memory space

##########################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/chdrvmmap
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris.chdrvmmap.dev.use',
    gen_require("
type device_t;
type polaris_chdrvmmap_device_t;

')
read_chr_files_pattern($1, device_t, polaris_chdrvmmap_device_t)
write_chr_files_pattern($1, device_t, polaris_chdrvmmap_device_t)
allow $1 polaris_chdrvmmap_device_t:chr_file map;
')

#########################################################
## <summary>
## Work (read, write, ioctl) with /dev/gettysburg_dev1
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_gettysburg_fpga_dev_use',
gen_require(''
type device_t;
type polaris_gettysburg_fpga_device_t;
')
write_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
read_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
mmap_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
')

#########################################################
## <summary>
## Work (read, write, ioctl) with /dev/cisco/dplriomem
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_dplr_iomem_mmapdrv_dev_use',
gen_require(''
type device_t;
type polaris_dplr_iomem_mmapdrv_device_t;
')
write_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
read_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
allow $1 polaris_dplr_iomem_mmapdrv_device_t:chr_file map;
### <summary>
### Allow access to semaphore of quake flashlib. Pure hack
### semaphore got created by dyncfg accidently, need to change to
### POSIX semaphore code ASAP.
### LOOK AT ME
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_quake_flashlib_sem_use',
#           gen_require(
#               'type polaris_dyncfg_t;
#               allow $1 polaris_dyncfg_t:sem rw_sem_perms;
#           '))

### <summary>
### Manage quake i2c semaphores /dev/shm/sem.i2c_sem00N
### and work with corresponding i2c devices (/dev/i2c-XXX)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_quake_i2c_manage',
#           gen_require(
#               'type tmpfs_t;
#               type polaris_quake_i2c_t;
#               manage_files_pattern($1, tmpfs_t, polaris_quake_i2c_t)
#               polaris_i2c_use($1)
#           '))

### <summary>
### Allow caller to read or write the exiting_bays file
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
```c
## </param>
interface('polaris_rw_exiting_bays',
    gen_require(
        type polaris_proc_exiting_bays_t;
        type proc_t;
    )
)

rw_files_pattern($1, polaris_proc_exiting_bays_t, polaris_proc_exiting_bays_t)
# FIXME/TODO:
# The kernel does not reliably create /proc/exiting_bays on all platforms
# The following lines should be removed when CSCv27097 is addressed
allow $1 polaris_proc_exiting_bays_t:file create;
allow $1 proc_t:file create;
allow $1 proc_t:dir { add_name write };
')

########################################
## <summary>
##  Allow caller to create open write /tmp/fpga_upgrade
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_fpga_upgrade_tmp_use',
    gen_require(
        type polaris_fpga_upgrade_tmp_t;
    )
    allow $1 polaris_fpga_upgrade_tmp_t:file { create open write };
')

########################################
## <summary>
## Execute a domain transition to run cat9k_ssd_unmount.sh
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ssd_unmount_domtrans',
    gen_require(
        type polaris_ssd_unmount_t, polaris_ssd_unmount_exec_t;
    )
domtrans_pattern($1, polaris_ssd_unmount_exec_t, polaris_ssd_unmount_t)
```


```c

//

#summary

Read lnk_file /ucode0, polaris_disk_ucode0_t.
</summary>

<param name="domain">

Domain allowed access.
</param>

interface(`polaris_disk_ucode0_read_lnk',

gen_require(`

type polaris_disk_ucode0_t;
')

read_lnk_files_pattern($1, polaris_disk_ucode0_t, polaris_disk_ucode0_t)
')

#summary

Work (read, write, ioctl) with /dev/cisco/fpgaiomem
</summary>

<param name="domain">

Domain allowed access.
</param>

interface(`polaris_fpga_iomem_mmapfpga_dev_use',

gen_require(`

type device_t;

type polaris_fpga_iomem_mmapfpga_device_t;
')

allow $1 polaris_fpga_iomem_mmapfpga_device_t:chr_file map;

write_chr_files_pattern($1, device_t, polaris_fpga_iomem_mmapfpga_device_t)

read_chr_files_pattern($1, device_t, polaris_fpga_iomem_mmapfpga_device_t)
')

#summary

Read Write access to /bootflash/nplusm-power
</summary>

<param name="domain">

Domain allowed access.
</param>

```
interface('polaris_nplusm_power_manage',
    gen_require(
        type polaris_nplusm_power_file_t;
        type polaris_disk_bootflash_t;
    )
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_nplusm_power_file_t, file, "nplusm-power")
    allow $1 polaris_nplusm_power_file_t:file { write create read open getattr unlink };)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
#
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#

/usr/binos/conf/boothelper_evt.sh -- gen_context(system_u:object_r:polaris_boothelper_evt_exec_t,s0)
/tmp/udev(/.*)?                      gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)
/tmp/rommon_upgrade_ngwc(/.*)?       gen_context(system_u:object_r:polaris_boothelper_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.fc
No license file was found, but licenses were detected in source scan.

# # December 2018, Victor Kamensky
#
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#

## <summary>Polaris ezman_cc Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.if
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define('polaris_lipc_service_server','"
define('polaris_lipc_service_client','"

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_fc.m4
No license file was found, but licenses were detected in source scan.

#
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#
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#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.fc
No license file was found, but licenses were detected in source scan.

#
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#
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#

/usr/bin/os/conf/install_issu_monitor.sh -- gen_context(system_u:object_r:polaris_issu_monitor_exec_t,s0)
/tmp/rp/issu_mon_dir -d gen_context(system_u:object_r:polaris_issu_monitor_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.fc
No license file was found, but licenses were detected in source scan.

#
# March 2019, Shikhar Dogra
#
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#

## <summary>Polaris fman_cc Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.if
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#
# March 2017, Victor Kamensky
### <summary>Polaris smand Policy Rules.</summary>

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```
interface(`polaris_smand_domain',`
    gen_require(`
    type polaris_smand_t;
    `)

domtrans_pattern(polaris_smand_t, $2, $1)
`
)

### <summary>Write into fifo file created by smand, typical case when smand starts script under popen. Domain allowed access.</summary>

```
interface(`polaris_smand_use_fifo',`
    gen_require(`
    type polaris_smand_t;
    `)

    write_fifo_files_pattern($1, polaris_smand_t, polaris_smand_t)
```
```
### <summary>
### Read access to CRDU fifo file created by smand
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolecap/>
#
# interface('polaris_smand_crdu_pipe_read',
#     gen_require("
#             type polaris_crdu_pipe_tmp_t;
#         ")
#
#     read_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
# )

### <summary>
### Manage CRDU fifo file created by smand
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolecap/>
#
# interface('polaris_smand_crdu_pipe_manage',
#     gen_require("
#             type polaris_crdu_pipe_tmp_t;
#         ")
#
#     manage_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
# )

### <summary>
### Write to polaris_sman_bshell_serv_lipc_t
### </summary>
### <param name="domain">
### Domain allowed to connect and write into this lipc file.
### </summary>
interface('polaris_sman_bshell_serv_lipc_write',
  gen_require(
    type polaris_sman_bshell_serv_lipc_t;
    type polaris_smend_t;
  )
  polaris_lipc_write($1, polaris_sman_bshell_serv_lipc_t, polaris_smend_t)
)

interface('polaris_trans_ports_tmp_manage',
  gen_require(
    type polaris_trans_stats_tmp_t;
  )
  manage_files_pattern($1, polaris_trans_ports_tmp_t, polaris_trans_ports_tmp_t)
)

interface('polaris_trans_stats_tmp_manage',
  gen_require(
    type polaris_trans_stats_tmp_t;
  )
  manage_files_pattern($1, polaris_trans_stats_tmp_t, polaris_trans_stats_tmp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.if
No license file was found, but licenses were detected in source scan.
/usr/cpp/bin/cpp_cdm_svr -- gen_context(system_u:object_r:polaris_cpp_cdm_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.fc
No license file was found, but licenses were detected in source scan.

```
## <summary>Polaris Flashlib Policy Rules.</summary>

_____________________________________________________________________________
# Flashlib policy (infra/flashlib)
_____________________________________________________________________________

```

```
## <summary>
##	Read Polaris /tmp/.flashlock file
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
##</summary>
## </param>
#
interface('polaris_flashlib_lock',
   gen_require(
      type tmp_t;
      type polaris_flashlib_lock_t;
   )

   manage_files_pattern($1, tmp_t, polaris_flashlib_lock_t)
   allow $1 self:capability dac_override;

   ifdef('quake_platform',
      polaris_quake_flashlib_sem_use($1)
   )
#
# access of .flashlock on ultra
ifdef(`vxe_family',`
    allow $1 self:capability dac_override;
')
')

########################################
## <summary>
##	Write Polaris /tmp/flashdev.log file
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface(`polaris_flashlib_log',`
    gen_require(`
        type tmp_t;
        type polaris_flashlib_log_t;
    ')
    manage_files_pattern($1, tmp_t, polaris_flashlib_log_t)
')

########################################
## <summary>
##	Read partition disk device that contains rommon variables.
##	C8KV reads object store and reads grub files in BIOS and EFI partitions.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface(`polaris_flashlib_read',`
    gen_require(`
        type device_t;
        type polaris_flashlib_device_t;
    ')
    polaris_flashlib_lock($1)
    polaris_flashlib_log($1)
    read_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
    read_chr_files_pattern($1, device_t, polaris_flashlib_device_t)
    ifdef(`vxe_family',`
        polaris_vxeinstall_info_read($1)
        polaris_grub_info_read($1)
    ')
ifdef(`vwlc_platform',`
    polaris_vwl/ncinstall_info_read($1)
    polaris_vwl/nc_grub_info_read($1)
')

# processes that use tdllib/DB will access romvar
# via flashlib mcp_getmonvar API which read /objstore.
optional_policy(`
    polaris_disk_objstore_read($1)
')

polaris_disk_objstore_read($1)

polaris_flash_shm_manage($1)
')

########################################
## <summary>
##	Write partition disk device that contains rommon variables.
## </summary>
## <param name="domain">
##<summary>
##Domain allowed access.
##</summary>
## </param>
#
# interface('polaris_flash_write',`
    gen_require(`
        type device_t;
        type polaris_flashlib_device_t;
    ')

    polaris_flashlib_lock($1)
    write_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
    polaris_flash_shm_manage($1)
')

########################################
## <summary>
##
##</summary>
## <param name="domain">
##<summary>
##</summary>
## </param>
# interface('polaris_flash_shm_manage',`
    gen_require(`
        type tmpfs_t;
        type polaris_flash_shm_t;


```lua
found_in_path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.if
No license file was found, but licenses were detected in source scan.

#
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#
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#

## <summary>Polaris LUA Policy Rules.</summary>

#########################################################################################################################
# Lua policy
#########################################################################################################################

#########################################################################################################################
## <summary>
##	Read Polaris lua files (/lua)
## </summary>
## <param name="domain">
##<summary>
##Domain allowed access.
##</summary>
## </param>
#
interface('polaris_lua_read',
    gen_require(''
type polaris_lua_file_t;
')
allow $1 polaris_lua_file_t:file read_file_perms;
allow $1 polaris_lua_file_t:dir { read_file_perms search_dir_perms };
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
```
### <summary>Polaris tamd_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.if

No license file was found, but licenses were detected in source scan.

#  
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#  

### <summary>Polaris polarisiptbl Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.if

No license file was found, but licenses were detected in source scan.

#  
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#  

# autopolarisplatformipcbase file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/autopolarisplatformipcbase.fc

No license file was found, but licenses were detected in source scan.

#  
# February 2020, Victor Kamensky  
#  
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#  

policy_module(polarisdmiportsfetch, 1.0);

gen_require(`
  type polaris_dmi_ports_fetch_t;
polaris_chasfs_manage(polaris_dmi_ports_fetch_t)
polaris_tdlresolve_read(polaris_dmi_ports_fetch_t)
polaris_cpld_read(polaris_dmi_ports_fetch_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiportsfetch.te
No license file was found, but licenses were detected in source scan.

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#
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#

policy_module(polarisngwcfeddebug, 1.0);

gen_require('  
   type polaris_ngwc_fed_debug_mgr_t;
')

polaris_bootflash_manage(polaris_ngwc_fed_debug_mgr_t)
polaris_btrace_data_managet(polaris_ngwc_fed_debug_mgr_t)
polaris_cpld_read(polaris_ngwc_fed_debug_mgr_t)
polaris_flashlib_read(polaris_ngwc_fed_debug_mgr_t)
polaris_chasfs_read(polaris_ngwc_fed_debug_mgr_t)
polaris_idlresolve_read(polaris_ngwc_fed_debug_mgr_t)

polaris_disk_bootflash_read_lnk(polaris_ngwc_fed_debug_mgr_t)
polaris_dmammap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_chdrvmmmap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_dplt_iomem_mmapdrv_dev_use(polaris_ngwc_fed_debug_mgr_t)

# opens /proc/pid/net/dev
kernel_read_network_state(polaris_ngwc_fed_debug_mgr_t)

# calls tcpdump, let it run in its own domain
netutils_domtrans(polaris_ngwc_fed_debug_mgr_t)

# calls system function
corecmd_exec_shell(polaris_ngwc_fed_debug_mgr_t)

# calls lspci and other utilities
corecmd_exec_bin(polaris_ngwc_fed_debug_mgr_t)

auth_use_nsswitch(polaris_ngwc_fed_debug_mgr_t)
# lspci needs sysfs access
dev_list_sysfs(polaris_ngwc_fed_debug_mgr_t)
dev_read_sysfs(polaris_ngwc_fed_debug_mgr_t)

# dope.py /tmp/idope_svr, /tmp/shfwd_svr socket files
type polaris_fed_debug_sock_t;
files_tmp_file(polaris_fed_debug_sock_t)
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "idope_svr")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "shfwd_svr")

gen_require('  
    type tmp_t;
')
manage_sock_files_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_sock_t)

# allow show-forward to use following temp files in /tmp dir
-type polaris_fed_debug_tmp_t;
files_tmp_file(polaris_fed_debug_tmp_t)
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "pktgen.txt")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "DopeElam.sh")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "MemDumpElam.sh")

gen_require('  
    type tmp_t;
')
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, { tmp_t polaris_fed_debug_tmp_t},
polaris_fed_debug_tmp_t)

# talk to fed over unix sockets
polaris_fed_sock_write(polaris_ngwc_fed_debug_mgr_t)

/#dcmlog.txt
type polaris_fed_debug_dcmlog_t;
files_type(polaris_fed_debug_dcmlog_t)
gen_require('  
    type root_t;
')
filetrans_pattern(polaris_ngwc_fed_debug_mgr_t, root_t, polaris_fed_debug_dcmlog_t, file, "dcmlog.txt")
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, root_t, polaris_fed_debug_dcmlog_t)

# dope.py listens on port 12255
corenet_tcp_bind_generic_node(polaris_ngwc_fed_debug_mgr_t)
allow polaris_ngwc_fed_debug_mgr_t self:tcp_socket { getattr setopt ioctl getopt bind create listen accept connect read write };
corenet_tcp_bind_polaris_fed_debug_trace_rpc_port(polaris_ngwc_fed_debug_mgr_t)
corenet_tcp_connect_polaris_fed_debug_trace_rpc_port(polaris_ngwc_fed_debug_mgr_t)

# dope.py listens on port 5389 for shfwd commands
corenet_tcp_bind_polaris_fed_debug_shfwd_command_port(polaris_ngwc_fed_debug_mgr_t)

# LOOK AT ME: /dev/mem access restriction remove after fix for CSCvm07702 is committed.
#ifdef("nyquist_platform",
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
)
#ifdef("starfleet_platform",
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
)
#ifdef("quake_platform",
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
)
#endif

# /tmp/asic_config.pickle file access
type polaris_fed_debug_asic_config_t;
files_tmp_file(polaris_fed_debug_asic_config_t);
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_asic_config_t, file, "asic_config.pickle")
gen_require(
  type tmp_t;
)
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_asic_config_t)

dope.py invokes scapy.py for DP trace which needs to create socket to seek
# interface info via ioctl ifreq
allow polaris_ngwc_fed_debug_mgr_t self:udp_socket { create ioctl ;}

# /tmp/rdope_ffi handle directory where libffi will create file with execute
# mapping. Files system should be executable and /tmp so far is. Note TMPDIR
# environment variable is the first choice where to create libffi executable
# mapped files.
type polaris_fed_debug_ffi_t;
files_tmp_file(polaris_fed_debug_ffi_t);
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_ffi_t, dir, "rdope_fi")
gen_require(
  type tmp_t;
)
manage_dirs_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_ffi_t)
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_ffi_t, polaris_fed_debug_ffi_t)
allow polaris_ngwc_fed_debug_mgr_t polaris_fed_debug_ffi_t:file { execute map ;}

# allow to read /proc/mtd called from mcp_getmonvar
kernel_read_system_state(polaris_ngwc_fed_debug_mgr_t)

polaris_remap_mem_dev_use(polaris_ngwc_fed_debug_mgr_t)

allow polaris_ngwc_fed_debug_mgr_t self:capability sys_resource;
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dnl
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dnl Process Names Map
define(`process_map', `defn(format(``process_map[%s]", `$1')))
define(`process_map_set', `define(format(``process_map[%s]", `$1'), `$2'))

dnl Process Names and Labels
define(`process_short_name', `patsubst($1, `^BPROC_', `'))
define(`process_default_stem', `translit(process_short_name($1), `A-Z', `a-z')')
define(`process_stem', `ifelse(process_map(process_short_name($1)), `', process_default_stem($1), process_map(process_short_name($1))))')
define(`process_label', `format(`polaris_%s_t', process_stem($1))')
define(`process_exec_label', `format(`polaris_%s_exec_t', process_stem($1))')

process_map_set(AUTO_UPGRADE_CLIENT_RP, autoupgrade)
process_map_set(BSM_RP, bsm)
process_map_set(BTM_CC, btman)
process_map_set(BTM_FP, btman)
process_map_set(BTM_RP, btman)
process_map_set(BTM_BP, btman)
process_map_set(CCD_RP, caf)
process_map_set(DMI_CONFD, confd)
process_map_set(DMI_PTTCD, pttcd)
process_map_set(SDWAN_CONFD, confd)
process_map_set(EMD_CC, emd)
process_map_set(EMD_FP, emd)
process_map_set(EMD_RP, emd)
process_map_set(FCD_RP, flashcheck)
process_map_set(FM_FP, fman_fp)
process_map_set(FM_CC, fman_cc)
process_map_set(FM_RP, fman_rp)
process_map_set(HM_CC, hm)
process_map_set(HM_FP, hm)
process_map_set(HM_RP, hm)
process_map_set(IOMD_CC, iomd)
process_map_set(IOSD_CC, iosd)
process_map_set(IOSD_RP, iosd)
process_map_set(IOMD_BP, iosd)
process_map_set(IOXM_RP, ioxman)
process_map_set(ISSU_STK, issu_stack)
process_map_set(LM_RP, lm)
process_map_set(MAINT_RP, periodic)
process_map_set(PLOGD_CC, plogd)
process_map_set(PLOGD_FP, plogd)
process_map_set(PLOGD_RP, plogd)
process_map_set(REPM_RP, repm)
process_map_set(SERVICE_MGR_RP, service_mgr)
process_map_set(SERVICE_MGR_FP, service_mgr)
process_map_set(SM, smand)
process_map_set(SORT_RP, sort_files)
process_map_set(VMAN_RP, vman)
process_map_set(POLJVM, jvm)
process_map_set(CLUSTERMGR, clustermgr)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/processmap.m4

No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

dnl

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dnl All rights reserved

dnl
dnl divert(-1)

include('polaris_process.m4')

include('polaris_database_db.m4')
include('polaris_database_db_if.m4')

include('polaris_max_scope.m4')
divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
### <summary>Polaris Platform DB Policy Rules.&lt;/summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_if.m4
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl VXE Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vxemaps.m4
No license file was found, but licenses were detected in source scan.

#
# January 2021, Gabriel Lee, Shawn Liu
#
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#

/ezManage_v1/ezManage_sms_handler.py -- gen_context(system_u:object_r:polaris_ezmanage_exec_t,s0)
/ezManage_v1(/.*)?                      gen_context(system_u:object_r:polaris_ezmanage_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.fc
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#
## <summary>Polaris dmi_vtyserverutild Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
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#

# polarisbsm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
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#

## <summary>Polaris dmi_ports_fetch Policy Rules.</summary>

########################################
##<summary>
##   Work with /bootflash/sdavc
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_sdavc_proxy_manage',
   gen_require(
      type polaris_sdavc_proxy_files_t;
   ')
   manage_files_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
   manage_dirs_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
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#

/usr/binos/bin/cman_fp_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)  
/usr/binos/bin/cman_fp_us_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)  
/usr/binos/bin/cman_fp_vwlc -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)  
/usr/binos/bin/cman_fp_vwlc_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)  
/usr/binos/bin/cman_fp_sumatra_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)  
/usr/binos/conf/mcp_pcie_status_cmd.sh   -- gen_context(system_u:object_r:polaris_pcie_status_cmd_exec_t,s0)  
/dev/hkp -c gen_context(system_u:object_r:polaris_hkp_device_t,s0)  

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.fc
No license file was found, but licenses were detected in source scan.

#  
# June 2020, Manu Roy  
#  
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#

# /bootflash labels  
/bootflash(/.*)?  
/bootflash(ssh(/.*)?  
/bootflash(ssh/ssh_host.*_key\./)*_host.*_key._pub  
/bootflash(ssh/ssh_host.*_key.*_key  
/bootflash/core(/.*)?  

# /flash is symbolic link /Flash10/USER
/flash  

# /flash1  
/flash1(/.*)?  
/flash1/CRASH(/.*)?  
/flash1/CRASH/tracelogs(/.*)?  
/flash7(/.*)?  
/flash8(/.*)?  
/flash9(/.*)?  

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22610
# USER is a reserved selinux keyword - escape it like this

```
flash10(/.*)?
flash10/USE[R]/core(/.*)?
nvram_config
flash10/USER/.ssh/ssh_host_rsa_key
```

```
gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
gen_context(system_u:object_r:polaris_core_file_t,s0)
gen_context(system_u:object_r:polaris_nvram_file_t,s0)
gen_context(system_u:object_r:sshd_key_t,s0)
```

```
# flash10
/dev/mmcblk1p1 -b
gen_context(system_u:object_r:polaris_iots_swipedrive_device_t,s0)
/dev/sdflash
gen_context(system_u:object_r:polaris_iots_swipedrive_file_t,s0)
.sdflash
gen_context(system_u:object_r:polaris_iots_swipedrive_file_t,s0)

#DMA ASIC driver
/dev/mvDmaDrv
gen_context(system_u:object_r:polaris_iots_mvDmaDrv_device_t,s0)
/dev/mvIntDrv
gen_context(system_u:object_r:polaris_iots_mvIntDrv_device_t,s0)

# /crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles
/crashinfo
gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)

#dev
/dev/petra-fpga -c
gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
/dev/petra-zynq-ps-gpio -c
gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
/dev/petra-gpio-pc3 -c
gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)

#Line card fpga driver for mmap
/dev/petra-lc-fpga -c
gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)

#memory devices
/dev/tm -c
gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
/dev/hcam -c
gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)

#vlan-virtual ethernet
/dev/petra-krport -c
gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)

/tmp/udev/etc/udev/sdflash/udev-info
gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)

# hellcat
/dev/spidev0.0 -c
gen_context(system_u:object_r:polaris_iots_led_device_t,s0)
/dev/spidev0.1 -c
gen_context(system_u:object_r:polaris_iots_led_device_t,s0)

Found in path(s):
```
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.fc
```

No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
policy_module(polarisngwcFed, 1.0);

gen_require('  
    type polaris_ngwc_fed_t;
')

polaris_btrace_data_manage(polaris_ngwc_fed_t)
polaris_chasfs_manage(polaris_ngwc_fed_t)
polaris_tdlresolve_read(polaris_ngwc_fed_t)
polaris_tlldb_list_dirs(polaris_ngwc_fed_t)
polaris_lua_read(polaris_ngwc_fed_t)
polaris_flashlib_read(polaris_ngwc_fed_t)
polaris_chasync_files_manage(polaris_ngwc_fed_t)

# LOOK AT ME: system() call restriction remove after
# CSCvn19282 is fixed using CSCvn19287.
#
# fed executes cp_trace_request.sh when a sv stack split occurs.
# cp_trace_request.sh does source of pglobals.sh which requires the
# access of /crashinfo.
polaris_disk_crashinfo_getattr(polaris_ngwc_fed_t)

polaris_ripc_sman_ui_serv_connect(polaris_ngwc_fed_t)
polaris_db_tlldb_dir_use(polaris_ngwc_fed_t)
corecmd_exec_bin(polaris_ngwc_fed_t)
corecmd_exec_shell(polaris_ngwc_fed_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_fed_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_fed_t)

# allow read/write to /proc/irq/N/irq files
kernel_rw_irq_sysctls(polaris_ngwc_fed_t)

polaris_obfl_data_manage(polaris_ngwc_fed_t)
polaris_lsmpi_dev_use(polaris_ngwc_fed_t)

allow polaris_ngwc_fed_t self:capability { sys_rawio dac_override ipe_owner sys_nice ipc_lock };  
allow polaris_ngwc_fed_t self:capability2 block_suspend;

polaris_dyncfg_tmp_read(polaris_ngwc_fed_t)
optional_policy(
    polaris_ngwc shm manage(polaris_ngwc fed t)
)

optional_policy(
    polaris ngwc scc shm manage(polaris ngwe fed t)
)

# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_ngwc fed t)
polaris_cpp tmp_files_use(polaris_ngwc fed t)

optional_policy(
    # /dev/dplr_intrpt usage
    polaris dplr dev use(polaris_ngwc fed t)

    # /dev/dmammap usage
    polaris dmammap dev use(polaris_ngwc fed t)

    # /dev/remap_mem0 usage
    polaris remap mem dev use(polaris_ngwc fed t)
)

# /dev/cli2xcvr_pipe and /dev/xcvr2cli_pipe
    type polaris fed xcvr pipe t;
    files_type(polaris fed xcvr pipe t)
    dev associate(polaris fed xcvr pipe t)
    gen_require(
        type device t;
    )
    filetrans_pattern(polaris ngwc fed t, device t, polaris fed xcvr pipe t, fifo_file, "cli2xcvr_pipe")
    filetrans_pattern(polaris ngwc fed t, device t, polaris fed xcvr pipe t, fifo_file, "xcvr2cli_pipe")
    manage fifo_files_pattern(polaris ngwc fed t, device t, polaris fed xcvr pipe t)

polaris disk bootflash search(polaris ngwc fed t)

allow polaris ngwc fed t self:process setsched;

# work with /dev/msi/Slot0/Doppler0/GroupN files
    dev rw generic chr files(polaris ngwc fed t)

# read /sys/devices/system/cpu/online
    dev read sysfs(polaris ngwc fed t)

# bind to shfwd port
    corenet udp bind polaris ngwc fed shfwd port(polaris ngwc fed t)
# connect to shfwd port
corenet_tcp_connect_polaris_fed_debug_shfwd_command_port(polaris_ngwc_fed_t)

# creates and write /flash/shfwd_params.txt file
polaris_bootflash_manage(polaris_ngwc_fed_t)

# use polaris_ngwc_fed_t as syslog_client_type
logging_send_syslog_msg(polaris_ngwc_fed_t)

# bind to dbgmn port
corennet_udp_bind_polaris_ngwc_fed_dbgmn_port(polaris_ngwc_fed_t)
corennet_udp_bind_generic_node(polaris_ngwc_fed_t)
allow polaris_ngwc_fed_t self:udp_socket { bind create getopt };

optional_policy(‘
# on macallan cman_fp needs access to /dev/cisco/dplriomem
# for mapping dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwc_fed_t);
’)

# On Macallan as part of doppler sdk ASIC_Init(), a
# rw call is made to /dev/cpld
polaris_cpld_dev_use(polaris_ngwc_fed_t)
polaris_cpld_read(polaris_ngwc_fed_t)
#ptp_init_systemclock() called during fed process init writes
# /sys/devices/platform/cpld/reg_doppe_1588_sync
polaris_cpld_write(polaris_ngwc_fed_t)

optional_policy(‘
# In Macallan cards which use Doppler ASIC,
# ngmod_doppler_mmap() api is called to get hold of
# MMapped Asic address. As part of the operation it uses
# /dev/chdrvnmmap device.
polaris_chdrvnmmap_dev_use(polaris_ngwc_fed_t)
’)

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvk00737 is fixed using CSCvk00741
ifdef('nyquist_platform',
polaris_dev_mem_use(polaris_ngwc_fed_t)
’)

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvm34589 is fixed using CSCvm34617
ifdef('starfleet_platform',
polaris_dev_mem_use(polaris_ngwc_fed_t)
'

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef('quake_platform',
   polaris_dev_mem_use(polaris_ngwc_fed_t)
')

ifdef('sumatra_platform',
   # LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
   polaris_dev_mem_use(polaris_ngwc_fed_t)
polaris_sumatra_doppler_dev_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn08008 is fixed using CSCvn08019.
# FED accesses raw memory (/dev/mem) for sending/receiving OOB
# traffic on an FSS interface.
ifdef('passport_platform',
   polaris_dev_mem_use(polaris_ngwc_fed_t)
')

#Entropy number is read from ACT2 and stored in /tmp/hw_entropy
#Allow sesa library read from /tmp/hw_entropy to update random
#number seed.
   polaris_hw_entropy_read(polaris_ngwc_fed_t)

# fed is server for /tmp/dbgmn_log_svr socket file
   type polaris_fed_sock_t;
   files_tmp_file(polaris_fed_sock_t)
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_sock_t, sock_file, "dbgmn_log_svr")

gen_require(
    type tmp_t;
')
manage_sock_files_pattern(polaris_ngwc_fed_t, tmp_t, polaris_fed_sock_t)

optional_policy(
   # talk to rdope.sh over unix sockets
   polaris_fed_debug_sock_write(polaris_ngwc_fed_t)
')

#/dev/shm/sdm access
optional_policy(
   polaris_sdm_shm_manage(polaris_ngwc_fed_t)
# creates few files under /tmp/installer (e.g like
# /tmp/installer/phy_shannon_ver_1) to indicate current h/w conditions
polaris_install_tmp_manage(polaris_ngwc_fed_t)

# communication between the nif manager and fed use directories under /tmp/sv
polaris_sv_tmp_use(polaris_ngwc_fed_t)

optional_policy('polaris_quake_i2c_manage(polaris_ngwc_fed_t)
')

# work with /tmp files (/tmp/fed_post_results)
type polaris_fed_tmp_t;
files_tmp_file(polaris_fed_tmp_t)
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, file, "fed_post_result")
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, dir, "test_mrvlphy")
manage_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_dirs_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_fifo_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
polaris_cm_rp_tmp_manage(polaris_ngwc_fed_t)

# Allow write to flash. Needed for template support.
polaris_flashlib_write(polaris_ngwc_fed_t)

# CSCvo78054 will be used to fix fed policies on crankshaft properly.
# Below policy is just to unblock Nightwatch boot issue on ISR in
# enforcing mode.
ifdef('crankshaft_family',
# ISR Nightwatch module accesses libraries compiled with icc
polaris_icc_broken_relocations(polaris_ngwc_fed_t)

#ISR Nightwatch module creates softlink /flash -> /bootflash
gen_require('type root_t;
')
filetrans_pattern(polaris_ngwc_fed_t, root_t, polaris_disk_bootflash_t, lnk_file, "flash")

)

optional_policy('polaris_epc_ws_liaison_tmp_read(polaris_ngwc_fed_t)
')

# ngwc-fed manage /tmp/epc_ws/fed_to_wif_pipe file fifo_file.
optional_policy('polaris_epc_ws_liaison_fifo_manage(polaris_ngwc_fed_t)
optional_policy(
    polaris_ngwc_iftpo_manage(polaris_ngwc_fed_t)
)

# access SERDES /tmp/serdes_asic_key_dir/*
optional_policy(
    polaris_serdes_asic_key_tmp_manage(polaris_ngwc_fed_t)
)

# ngwc-fed creates /tmp/epc_ws dir
optional_policy(
    polaris_epc_ws_liaison_tmp_file(polaris_ngwc_fed_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.te
No license file was found, but licenses were detected in source scan.

# April 2017, Victor Kamensky
#
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#
/usr/bin/os/sbin/ncsshd -- gen_context(system_u:object_r:polaris_dmi_ncsshd_mgmt_exec_t,s0)
/var/run/ncsshd_mgmt.pid -- gen_context(system_u:object_r:polaris_dmi_ncsshd_mgmt_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgmt.fc
No license file was found, but licenses were detected in source scan.

# July 2017, Victor Kamensky
#
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#
/usr/bin/os/conf/mcp_smartctl_cmds.sh -- gen_context(system_u:object_r:polaris_smartctl_exec_t,s0)
/tmp/smart.pid -- gen_context(system_u:object_r:polaris_smartctl_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.fc
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
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#

/tmp/tmppub/interceptor(/.*)? gen_context(system_u:object_r:polaris_pttcd_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispttcd.fc

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris Cfg Policy Rules.</summary>

#########################################################################
# Cfg files policy
#########################################################################

#########################################################################
## <summary>
##      Manage cfg files (under /tmp/sw/cfg)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_cfg_data_manage',
gen_require(''
type polaris_cfg_data_t;
')

manage_dirs_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
manage_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
manage_lnk_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
')
policy_module(polarisngiolite, 1.0);

gen_require(
    type polaris_ngiolite_t;
 )

polaris_btrace_data_manage(polaris_ngiolite_t)
polaris_crft_data_manage(polaris_ngiolite_t)
polaris_chasfs_manage(polaris_ngiolite_t)
polaris_tdlresolve_read(polaris_ngiolite_t)
polaris_tlddb_list_dirs(polaris_ngiolite_t)
polaris_cpld_read(polaris_ngiolite_t)
polaris_flashlib_read(polaris_ngiolite_t)

optional_policy(
    polaris_cpp_tmp_ifdev_use(polaris_ngiolite_t)
 )

# In the file of radium_xcvr.c allow access to create and bind
# the socket using the API bnxt_impl_init_netlink.
allow polaris_ngiolite_t self:netlink_generic_socket { bind create getattr setopt };

# in iot platforms, ngiolite needs access to /proc/sys/net/ipv6/conf/mvsw/disable_ipv6
optional_policy(  
    kernel_rw_net_sysctls(polaris_ngiolite_t)  
    kernel_search_network_sysctl(polaris_ngiolite_t)  
 )

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphor created by qfp process
ifdef(‘crankshaft_family’,
    polaris_qfp_sem_use(polaris_ngiolite_t)
polaris_ggpio_dev_read_write(polaris_ngiolite_t)
polaris_dplr_dev_use(polaris_ngiolite_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

ifdef(`fugazi_platform`,
polaris_qfp_sem_use(polaris_ngiolite_t)
')

#define access to /sys/bus/pci/rescan
dev_rw_sysfs(polaris_ngiolite_t)
#define LOOK AT ME ngiolite does it through "echo 1 > /sys/bus/pci/rescan" seems to much
#define to grunt shell and bin access just to write "1" string into the file
corecmd_exec_bin(polaris_ngiolite_t)
corecmd_exec_shell(polaris_ngiolite_t)
#define allow read of /etc/passwd
auth_use_nsswitch(polaris_ngiolite_t)
polaris_firmware_read(polaris_ngiolite_t)
polaris_udev_tmp_list_dirs(polaris_ngiolite_t)

#define allow access to read the file cman rommon file.
polaris_proc_rmonbifo_getattr(polaris_ngiolite_t)
polaris_proc_rmonbifo_read(polaris_ngiolite_t)

allow polaris_ngiolite_t self:capability { net_admin sys_rawio };

#define allow system time capability to check for system timeout
#define while checking the state using API cwan_modem_check_ready_state
allow polaris_ngiolite_t self:capability sys_time;

#define allow access to nim_xxd file created by cmcc
polaris_nim_xxd_tmp_open_unlink(polaris_ngiolite_t);

#define ngiolite needs to work with /dev/sd /dev/sg devices to figure out disk driver
#define paramters, drivers/userspace/nim_xxd library
storage_raw_read_fixed_disk(polaris_ngiolite_t)
storage_read_scsi_generic(polaris_ngiolite_t)
storage_write_scsi_generic(polaris_ngiolite_t)
polaris_sysfs_platform_dev_use(polaris_ngiolite_t)

#define LOOK AT ME: ngiolite needs to work with /dev/ds31408, which is generic device_t now
gen_require(`
type device_t;
`)rw_chr_files_pattern(polaris_ngiolite_t, device_t, device_t)
#undef modprobe nim_dm dm_drv_log_level=0x01
ifdef(`crankshaft_family`,
')
modutils_domtrans_insmod(polaris_ngiolite_t)

polaris_smartctl_domtrans(polaris_ngiolite_t)

# utah_fpge_driver.c needs socket to configure interface parameters
allow polaris_ngiolite_t self:udp_socket create_socket_perms;

polaris_utility_domain_template(smartctl)

corecmd_exec_bin(polaris_smartctl_t)
corecmd_exec_shell(polaris_smartctl_t)

# allow access to polaris_cpp_tmpfs_t file
# Example is ifdev shared memory /dev/shm/cpp_ifdev_shmem
# The ngiolite init function calls the api ifdev_init
# to initialize shared memory control info.
fsgetattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_smartctl_t)

logging_send_syslog_msg(polaris_smartctl_t)

fstools_domtrans(polaris_smartctl_t)

# runs tar /bin/tar -xvzf /firmware/MicronP400m-MTFDDAK200MAN.pkg -C /firmware
polaris_firmware_manage(polaris_smartctl_t)
files_getattr_all_dirs(polaris_smartctl_t)
files_read_all_symlinks(polaris_smartctl_t)

# work with /dev/sgX
storage_read_scsi_generic(polaris_smartctl_t)
storage_write_scsi_generic(polaris_smartctl_t)

allow polaris_smartctl_t self:capability { chown dac_override fowner fsetid };

type polaris_smartctl_tmp_t;
files_tmp_file(polaris_smartctl_tmp_t)
files_tmp_filetrans(polaris_smartctl_t, polaris_smartctl_tmp_t, file, "smart.pid")
manage_files_pattern(polaris_smartctl_t, polaris_smartctl_tmp_t, polaris_smartctl_tmp_t)

# script inherits stdout from ngiolite, needs permission to append to it
polaris_use_btrace_fifo(polaris_smartctl_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh55517)
ifdef(`crankshaft_family',
  polaris_dev_mem_use(polaris_ngiolite_t)
')

ifdef(`sparrow_platform',
  polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
  polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef(`blackheart_platform',
  polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef(`cabo_platform',
  polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef(`aventus_platform',
  polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
  polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef(`crankshaft_family',
  # allow scan pci/devices proc dir
  # The ngiolite init function makes call to o2_cvmx_remote_open to
  # open the remote library connection to cavium chip in FFP.
  # The octeon library call invokes pci_get_device, which needs to
  # access /proc.
  kernel_getattr_proc_files(polaris_ngiolite_t)
  kernel_write_proc_files(polaris_ngiolite_t)
  kernel_read_system_state(polaris_ngiolite_t)

  # allow access to /tmp/octeon-remote-lock-pci***
  # This is required as part of ngiolite access of octeon chip.
  # As part of the init, call is made to octeon_remote_lock()
  # which requires access to the /tmp file.
  polaris_cm_fp_tmp_filetrans(polaris_ngiolite_t)
  polaris_cm_fp_tmp_manage(polaris_ngiolite_t)

  #########################
  # CWAN NGIOLITE process policies start####################
  #########################
  # cwan running as a ngiolite process needs to be able to RW/IOCTL to qcqiMX files
  polaris_qcqmi_dev_use(polaris_ngiolite_t)

  #RDM thread in CWAN running as ngiolite process needs access to ttyUSB0 for DM logging
  term_use_usb_ttys(polaris_ngiolite_t)

  #########################
  # CWAN NGIOLITE process policies end####################
  #########################
# RDM/Event thread needs to add a newly generated DM log file/Crash dump file to/from bootflash directory
polaris_bootflash_manage(polaris_ngiolite_t)

# Modem Monitor thread uses sendto over a Datagram socket to send data to Turing Thread
allow polaris_ngiolite_t self:unix_dgram_socket sendto;

# Modem Monitor thread opens a socket to UDEV to process Modem USB addition/disconnection events
allow polaris_ngiolite_t self:netlink_kobject_uevent_socket create_socket_perms;

# Modem Monitor thread needs to be able to open/Read and GetAttributes to differentiate between Telit/SWI vendor
udev_rw_db(polaris_ngiolite_t)

# Turing thread needs to gather stats as well as set the IP address to /proc/net/cwan_modem0/cwan0/src_ip
kernel_search_network_state(polaris_ngiolite_t)
polaris_kernel_rw_network_state_files(polaris_ngiolite_t)

#########################################################################
## CWAN NGIOLITE process policies end###############
#########################################################################

')

# on tsn need access to /sys/devices/platform/moka_fpga
# /sys/devices/platform/moka_fpga/external_int_pending dev
optional_policy(
  polaris_mokafpga_rw(polaris_ngiolite_t)
)

# on radium need to get model info
optional_policy(
  polaris_dash_dev_use(polaris_ngiolite_t)
)

# work with contdev sysfs files
polaris_contdev_dev_read(polaris_ngiolite_t)
sysnet_domtrans_ifconfig(polaris_ngiolite_t)
logging_send_syslog_msg(polaris_ngiolite_t)

ifdef(`neptune_platform',
  polaris_cpp_cavium_sdk_ipc_use(polaris_ngiolite_t)
')

optional_policy(
  polaris_nim_dm_dev_use(polaris_ngiolite_t)
')
ifdef(`radium_platform`,
    # allow ngiolite to access nim_phy_device
    polaris_nim_phy_dev_use(polaris_ngiolite_t)
)

# TODO/FIXME, Need to review this permission, this is related to
# the call "echo 1 > /sys/bus/pci/rescan"
dev_manage_sysfs_dirs(polaris_ngiolite_t)
allow polaris_ngiolite_t sysfs_t:file create;

# allow ngiolite to access sfp over i2c bus
polaris_i2c_use(polaris_ngiolite_t)

# on neptune, cavium library in o2_cavm_mem_map wants access to
# /sys/devices/pci0000:00/0000:00:00.00:01.0/0000:01:00.0/resource0
optional_policy(
    polaris_cpp_cavium_dma_map(polaris_ngiolite_t)
)

# /dev/sfp-ktr & qfp sem access on Katar
ifdef(`katar_platform`,
    polaris_sfp_katar_dev_use(polaris_ngiolite_t)
polaris_qfp_sem_use(polaris_ngiolite_t)
fs_getattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)
)

# allow /usr/binos/bin/ngiolite to access /tmp/nim_xxd_present
gen_require(
    type polaris_cmrp_nim_xxd_tmp_t;
)
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

# allow /usr/binos/bin/ngiolite to access /tmp/hd_sz
gen_require(
    type udev_tmp_t;
)
read_files_pattern(polaris_ngiolite_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/lvm to be executed and to be operated
lvm_domtrans(polaris_ngiolite_t)

# allow /usr/binos/bin/ngiolite to manage /tmp
 type polaris_ngiolite_tmp_t;
 files_tmp_file(polaris_ngiolite_tmp_t)
 # allow /usr/binos/bin/ngiolite to manage /tmp/smartctl.out and
files_tmp_filetrans(polaris_ngiolite_t, polaris_ngiolite_tmp_t, file)
manage_files_pattern(polaris_ngiolite_t, polaris_ngiolite_tmp_t, polaris_ngiolite_tmp_t)

# allow /usr/sbin/smartctl to operate on fsadm_exec_t
fstools_domtrans(polaris_ngiolite_t)

# allow /usr/sbin/smartctl to access nvme device in chr and blk
dev_nvme_chr_files_manage(polaris_ngiolite_t)
dev_nvme_blk_files_manage(polaris_ngiolite_t)

ifdef('sumatra_platform',
# dev/cpld
polaris_cpld_dev_use(polaris_ngiolite_t)

# manage "sysctrl_i2c.lck"
gen_require(''

type polaris_cm_rp_tmp_t;
')
files_tmp_filetrans(polaris_ngiolite_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_ngiolite_t)

# access /dev/huron_fpga
polaris_huron_dev_use(polaris_ngiolite_t)
'
)

ifdef('crankshaft_family',
# /var/run/cwan socket and pid
gen_require(''

type polaris_cwan_svr_var_run_t;
')
files_pid_filetrans(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, file, "cwan_ezmanage_cwan_server")
create_sock_files_pattern(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
delete_sock_files_pattern(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
'
)

# allow /usr/binos/bin/ngiolite to access the the following interface
fs_unmount_xattr_fs(polaris_ngiolite_t)
dev_manage_generic_symlinks(polaris_ngiolite_t)
polaris_udev_tmp_manage(polaris_ngiolite_t)

# ngiolite/ezManage access rules - currently only applies to TSN
optional_policy(''
    # Allow ngiolite to access ezManage dgram socket
gen_require(''
        type polaris_ezmanage_t;
'))
allow polaris_ngiolite_t polaris_ezmanage_t:unix_dgram_socket sendto;

# Allow ngiolite to access ezManage socket file in /var/run
polaris_manage_ezmanage_var_run_files(polaris_ngiolite_t)
"

# allow ngiolite to access /dev/nim_phy
ifdef('crankshaft_family',
    polaris_nim_phy_dev_use(polaris_ngiolite_t)
"

# allow ioctl, read, wr permission for ds31408 device
optional_policy(''
    polaris_ds31408_dev_use(polaris_ngiolite_t)
"

''
## Domain allowed access.

```c
interface("polaris_vdaemon_var_sock_write");
    gen_require(
        type polaris_vdaemon_t;
        type polaris_vdaemon_var_run_t;
        type var_run_t;
    ')
    write_sock_files_pattern($1, var_run_t, polaris_vdaemon_var_run_t)
    allow $1 polaris_vdaemon_t:unix_stream_socket { connectto }
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.if

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# March 2017, Victor Kamensky

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```
policy_module(polarisboothelper, 1.0);

polaris_process_domain_template(boothelper_evt)

corecmd_exec_bin(polaris_boothelper_evt_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_boothelper_evt_t)

# allow to read /proc/meminfo
kernel_read_memory(polaris_boothelper_evt_t)

polaris_cpld_read(polaris_boothelper_evt_t)
```

# work with /tmp/udev/
```
type polaris_udev_tmp_files_t;
files_tmp_file(polaris_udev_tmp_files_t)

polaris_systemd_tmpfiles_tmpfiletrans(polaris_udev_tmp_files_t, dir, "udev")

polaris_bootflash_manage(polaris_boothelper_evt_t)
```
type polaris_boothelper_tmp_t;
files_tmp_file(polaris_boothelper_tmp_t)
files_tmp_filetrans(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, dir, "rommon_upgrade_ngwc")
manage_files_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)
manage_dirs_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)

# watch over /tmp/rommon_upgrade_ngwc
allow polaris_boothelper_evt_t polaris_boothelper_tmp_t:dir watch;

# nyquist creates /tmp/udev_ssd.log
gen_require(`
  type udev_t;
  `)
files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")

# create /dev/harddisk1 softlink during bootup
ifdef(`crankshaft_family',`
  gen_require(`
    type device_t;
    type initrc_t;
    type fixed_disk_device_t;
    `)
  filetrans_pattern(initrc_t, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
  `)
# restorecon under setfiles_t appends to /tmp/udev_ssd.log
gen_require(`
  type setfiles_t;
  `)
polaris_udev_tmp_manage(setfiles_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.te
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#
# August 2017, Shawn Lu
#
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#
	policy_module(polarisnmspd, 1.0);

gen_require(`
  type polaris_nmspd_t;
  `)
polaris_btrace_data_manage(polaris_nmspd_t)
polaris_crft_data_manage(polaris_nmspd_t)
polaris_chasfs_manage(polaris_nmspd_t)
polaris_tldresolve_read(polaris_nmspd_t)
polaris_tlddb_list_dirs(polaris_nmspd_t)
polaris_cpld_read(polaris_nmspd_t)
polaris_lua_read(polaris_nmspd_t)
polaris_flashlib_read(polaris_nmspd_t)

polaris_ripc_sman_ui_serv_connect(polaris_nmspd_t)
polaris_db_tlddb_dir_use(polaris_nmspd_t)

###############################################################################
# mqipc manual, one that missing in platform tdl file
###############################################################################
type polaris_nmspd_testclient1_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient1_mqipc_t)
type polaris_nmspd_testclient2_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient2_mqipc_t)
type polaris_testclient1_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient1_nmspd_mqipc_t)
type polaris_testclient2_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient2_nmspd_mqipc_t);

polaris_mqipc_create_name(polaris_nmspd_t, polaris_nmspd_testclient1_mqipc_t, nmspd-testclient1)
polaris_mqipc_use(polaris_nmspd_t, polaris_testclient1_nmspd_mqipc_t)
polaris_mqipc_create_name(polaris_nmspd_t, polaris_nmspd_testclient2_mqipc_t, nmspd-testclient2)
polaris_mqipc_use(polaris_nmspd_t, polaris_testclient2_nmspd_mqipc_t)

#stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_nmspd_t)
polaris_socketat_nsfs_read(polaris_nmspd_t)
# enable listen on tcp port 16113
corenet_tcp_bind_polaris_nmspd_port(polaris_nmspd_t)

allow polaris_nmspd_t self:capability dac_override;

# Allow IPC messages to Btrace Process from NMSPD Process
logging_send_syslog_msg(polaris_nmspd_t)
# Allow NMSPD to read DNS file for nameresolution
sysnet_read_config(polaris_nmspd_t)

# NMSPD uses cURL to open HTTP connections and SSL to open TLS Connections
# to DNAspaces and CMX respectively

gen_require('type node_t;
')

allow polarsis_nmspd_t node_t:udp_socket node_bind;
allow polarsis_nmspd_t self:udp_socket { bind connect getattr };
corenet_tcp_connect_http_port(polarsis_nmspd_t)
polaris_odm_clnt2svr_mqipc_create(polarsis_nmspd_t)

# DB persistence
polaris_tdlldbpersist_setup(polarsis_nmspd_t)
polaris_imp_tdlldb Persist_setup(polarsis_nmspd_t)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnmspd.te
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#
# February 2020, Victor Kamensky
#
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#

policy_module(polarisftm, 1.0);

gen_require('type polaris_ftm_t;
')
polaris_chasfs manage(polaris_ftm_t)
polaris_cpld_read(polaris_ftm_t)
polaris_flashlib_read(polaris_ftm_t)
polaris_tdlresolve_read(polaris_ftm_t)
polaris_ripc_sman ui_serv_connect(polaris_ftm_t)
polaris_db_tdlldb_dir_use(polaris_ftm_t)
logging_send_syslog_msg(polaris_ftm_t)
corecmd_exec_bin(polaris_ftm_t)
corecmd_exec_shell(polaris_ftm_t)
auth_use_nsswitch(polaris_ftm_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_ftm_t)

# work with /tmp/xml
open source used in connected-pharma 1.7.7 - merck connected pharma 22631

```c
polaris_cedge_xml_tmp_manage(polaris_ftm_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_ftm_t)

polaris_cedge_reset_ns(polaris_ftm_t)

# /var/run/ftmd-xxx sockets and pid
type polaris_ftm_var_run_t;
files_pid_file(polaris_ftm_var_run_t)
manage_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
manage_sock_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
files_pid_filetrans(polaris_ftm_t, polaris_ftm_var_run_t, { file sock_file })

polaris_cfgmgr_var_sock_write(polaris_ftm_t)
polaris_dbgd_var_sock_write(polaris_ftm_t)
polaris_fpm_var_sock_write(polaris_ftm_t)
polaris_ttm_var_sock_write(polaris_ftm_t)
polaris_vdaemon_var_sock_write(polaris_ftm_t)

# PLEASE LOOK AT ME: write access to /boot/hugepage.conf
# which on ultra translates into /varied/hugepage.conf access
# But no code in polaris uses it
polaris_disk_varied_manage(polaris_ftm_t)
files_manage_boot_files(polaris_ftm_t)

# fp_scaling_init calls posix_sysconf
dev_read_sysfs(polaris_ftm_t)

# vip_execute_nowait uses setpgid
allow polaris_ftm_t self:process setpgid;

polaris_cedge_tmpfs_manage(polaris_ftm_t)

# raw socket access from trace_tunnel_socket_icmp_init ftm_binos_trace.c
allow polaris_ftm_t self:rawip_socket create_socket_perms;
allow polaris_ftm_t self:capability net_raw;

# bind to ftm fnf port
corenet_udp_bind_polaris_ftm_fnf_port(polaris_ftm_t)
corenet_udp_bind_generic_node(polaris_ftm_t)

# ftm may create vrf-based netns on demand, vrf.65528
polaris_vrf_netns_manage(polaris_ftm_t)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(
    polaris_htx_iox_tmp_manage(polaris_ftm_t)
)```
```c
# fp_scaling_read_core_count accesses cgroups file at
# /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_ftm_t)

# ftm_change_default_gw_src_ip calls ip utility
sysnet_domtrans_ifconfig(polaris_ftm_t)

# ftm process periodically call nice utility to gzip some xml file
allow polaris_ftm_t self:process setsched;
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarisftm.te
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#

```c
### <summary>Polaris fman_fp Policy Rules.</summary>
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarisfmanfp.if
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#

/tmp/replication(/.*)? gen_context(system_u:object_r:polaris_repm_tmp_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarisrepm.fc
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#
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#
## <summary>Polaris Btrace Policy Rules.</summary>

# <summary>Polaris cpp (ultra)</summary>

### Work (read, write, ioctl) with /dev/cpp_dev_info and /dev/cpp_vxe_rsrc devices.

### Make the specified domain as polaris cpp process.

```c
interface('polaris_cpp_dev_use',
    gen_require(`
        type device_t;
        type polaris_cpp_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_cpp_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpp_device_t)
    allow $1 polaris_cpp_device_t:chr_file map;
    polaris_i95_dev_use($1)
`)
```

### Make the specified domain as polaris cpp process.

```c
interface('polaris_cpp_process',
    gen_require(`
        attribute polaris_cpp_domain;
    `)
    type attribute $1 polaris_cpp_domain;
`)
```
## <summary>
## Make the specified domain able to use cpp /tmp files.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
## <param name="object">
## File name in /tmp that domains creates and other cpp process access.
## </param>
#
interface('polaris_cpp_tmp_files_use',
    
    gen_require(
        type polaris_cpp_tmp_t;
    ')

    files_tmp_filetrans($1, polaris_cpp_tmp_t, file, $2)
    manage_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
    allow $1 polaris_cpp_tmp_t:file map;
    ')

## <summary>
## Specified domain can execute polaris_cpp_tmpfs_t code which resides in /dev/shm/cpp_ucode_dram
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_cpp_tmpfs_exec',
    
    gen_require(
        type polaris_cpp_tmpfs_t;
    ')

    allow $1 polaris_cpp_tmpfs_t:file execute;
    ')

## <summary>
## Read write from polaris_cpp_tmpfs_t file
## </summary>
## <summary>
## Example is ifdev shared memory /dev/shm/cpp_ifdev_shmem
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cpp_tmpfs_ifdev_rw',
    gen_require(`
        type tmpfs_t;
        type polaris_cpp_tmpfs_t;
    `)
)

rw_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
allow $1 polaris_cpp_tmpfs_t:file map;
')

########################################
## <summary>
## Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_cpp_tmp_ifdev_use',
    gen_require(`
        type polaris_cpp_tmp_t;
    `)
)

manage_fifo_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
allow $1 polaris_cpp_tmp_t:file map;
')

########################################
## <summary>
## Make the specified domain able to getattr of /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
## Domain allowed access.
## </summary>
## <summary>
## Allow process to use Cavium SDK sysv IPC primitives
## created by octeon_pci_dmap.c. Those could be created either
## by cpp_driver (usually) or by cpp_cdm on utah and overlord,
## and by cm_fp on neptune.
##
## </summary>
## <param name="type">
## Domain allowed access.
## </param>

interface('polaris_cpp_cavium_sdk_ipc_use',
  ifdef('crankshaft_family',
    polaris_cpp_driver_sem_use($1)
    polaris_cpp_driver_shm_use($1)
  optional_policy(
    polaris_cpp_cdm_sem_use($1)
    polaris_cpp_cdm_shm_use($1)
  )
optional_policy(
    polaris_cm_fp_sem_use($1)
    polaris_cm_fp_shm_use($1)
  )
  )
  kernel_getattr_proc_files($1)
  kernel_write_proc_files($1)
  kernel_read_system_state($1)
)

## <summary>
## Work (read, write, ioctl) with /dev/i95 devices
##
## </summary>
## <param name="domain">

## <param name="domain">
interface('polaris_i95_dev_use',
    gen_require(
        type device_t;
        type polaris_i95_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_i95_device_t)
    read_chr_files_pattern($1, device_t, polaris_i95_device_t)
    allow $1 polaris_i95_device_t:chr_file map;
')

######################################
## <summary>
##      Work (read, write, map) with sysfs files required
##      by cavium library in o2_cavm_mem_map.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cpp_cavium_dma_map',
    gen_require(
        type sysfs_t;
    ')
    mmap_files_pattern($1, sysfs_t, sysfs_t)
    dev_rw_sysfs($1)
')

#######################################
## <summary>
##      Manage /dev/shm files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cpp_tmpfs_manage',
    gen_require("
type polaris_cpp_tmpfs_t;

type tmpfs_t;

')

fs_tmpfs_filetrans($1, polaris_cpp_tmpfs_t, file)
manage_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
allow $1 polaris_cpp_tmpfs_t:file map;

')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpp.if
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# # March 2017, Victor Kamensky
# # Copyright (c) 2017-2019 by Cisco Systems, Inc.
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#
#
## <summary>Polaris bt_logger Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtlogger.if
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# # August 2017, Shawn Lu
# # Copyright (c) 2017-2021 by Cisco Systems, Inc.
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#
#
# /bootflash labels
/bootflash(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\._ key gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key pub gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /csl_p_0
/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_p_1.context
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```
# /csl_p_1(/.*)?                         gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
# /csl_s_0.context
/csl_s_0(/.*)?                         gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
# /csl_s_1.context
/csl_s_1(/.*)?                         gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
# /obfl is separate on qwlc
/obfl(/.*)?                            gen_context(system_u:object_r:polaris_obfl_data_t,s0)
# /varied
/varied(/.*)?                          gen_context(system_u:object_r:polaris_disk_varied_t,s0)
/varied/install_info                   gen_context(system_u:object_r:polaris_vwlcinstall_info_t,s0)
/varied/obfl.*                         gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/varied/grub_cisco_version             gen_context(system_u:object_r:polaris_grubver_t,s0)
/varied/grub(/.*)?                     gen_context(system_u:object_r:boot_t,s0)
/varied/grub2(/.*)?                    gen_context(system_u:object_r:polaris_grub_bios_t,s0)
/varied/grub/menu.*                    gen_context(system_u:object_r:bootloader_etc_t,s0)
/sbin/grub*                            gen_context(system_u:object_r:bootloader_exec_t,s0)
# /grubenv
/bootefi/(/.*)?                        gen_context(system_u:object_r:polaris_grub_efi_t,s0)
# hanet driver used by vwlc and ultra, is there better place for it?
/dev/hanet -c gen_context(system_u:object_r:polaris_hanet_device_t,s0)
# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l                               gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/lic1 -l                               gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
# /harddisk labels (qwlc)
/vol/harddisk(/.*)?                    gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk/tracecols(/.*)?         gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/tan(/.*)?                gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/core(/.*)?               gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/debug.conf               gen_context(system_u:object_r:polaris_debug_conf_t,s0)
# /init is symbolic link to /lib/systemd/systemd
/init  -l gen_context(system_u:object_r:init_exec_t,s0)
# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /dev/epa device on qwlc
/dev/epa[0-9]*                         -c gen_context(system_u:object_r:polaris_epa_device_t,s0)
/dev/epactrl[0-9]*                     -c gen_context(system_u:object_r:polaris_epa_device_t,s0)
# /dev/luna_fpga on qwlc
```
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--

/dev/luna_mbfpga -c gen_context(system_u:object_r:polaris_luna_mbfpga_device_t,s0)

# /dev/astro on qwlc
/dev/astro -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

# /dev/cpp_il on qwlc
/dev/cpp_il -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)

# /flash is symbolic link to /bootflash on qwlc
/dev/flash -c gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /dev/oob_evfc on qwlc
/dev/oob_evfc -c gen_context(system_u:object_r:polaris_oob_evfc_device_t,s0)

# /dev/sfp-ktr on katar
/dev/sfp-ktr -c gen_context(system_u:object_r:polaris_sfp_katar_device_t,s0)

# To store tcpdump output in file haIntCaptureLo.pcap
/bootflash/haIntCaptureLo.pcap gen_context(system_u:object_r:polaris_netutils_data_t,s0)
/objstore(/.*)* gen_context(system_u:object_r:polaris_disk_objstore_t,s0)

# /config labels
/config(/.*)? gen_context(system_u:object_r:polaris_disk_config_t,s0)
/config/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/config/ssh/ssh_host.*_key\.pub gen_context(system_u:object_r:sshd_key_t,s0)
/config/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.fc
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dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
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dnl
dnl WLC Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

max_elastic_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('rp', 'elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set('cc', 'elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set('fp', 'elastic', BPROC_ODM, 1)

max_elastic_ripc_map_set('rp', 'elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('cc', 'elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('fp', 'elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vwlcmaps.m4
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#
# June 2017, Victor Kamensky
#
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#

policy_module(polariswebui, 1.0);

type polaris_webui_file_t;
files_type(polaris_webui_file_t)
polaris_pfile_type(polaris_webui_file_t)

polaris_process_domain_template(webui_lighttpd)
	polaris_process_domain_template(webui)

gen_require(''
type initrc_t;
')
manage_dirs_pattern(initrc_t, polaris_webui_file_t, polaris_webui_file_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.te
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#
# March 2017, Victor Kamensky
#
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#
	policy_module(polariscmrp, 1.0);
gen_require(
    type polaris_cm_rp_t;
  )

polaris_btrace_data_manage(polaris_cm_rp_t)
polaris_crft_data_manage(polaris_cm_rp_t)
polaris_chasfs_manage(polaris_cm_rp_t)
polaris_tdlresolve_read(polaris_cm_rp_t)
polaris_tdlldb_list_dirs(polaris_cm_rp_t)
polaris_cpld_read(polaris_cm_rp_t)
polaris_lua_read(polaris_cm_rp_t)
polaris_flashlib_read(polaris_cm_rp_t)
polaris_flashlib_write(polaris_cm_rp_t)
#
# cm_rp opens log file to collect required RP, CC, FP and rommon details
# and write into /vol/harddisk/.inv/inv_log_file
# This file is accessed by crashinfo collecting script and others
# type polaris_cm_rp_inv_log_file_t;
polaris_disk_type(polaris_cm_rp_inv_log_file_t)
polaris_cm_rp_inv_log_setup(polaris_cm_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cm_rp_t)
polaris_cpld_dev_use(polaris_cm_rp_t)
polaris_lfts_dev_use(polaris_cm_rp_t)
polaris_proc_rmonbifo_read(polaris_cm_rp_t)
polaris_obfl_data_read(polaris_cm_rp_t)
polaris_db_tdlldb_dir_use(polaris_cm_rp_t)
# cman_rp needs read access to cpu identity
# /dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)
allow polaris_cm_rp_t self:capability { sys_rawio dac_override chown sys_resource};
allow polaris_cm_rp_t self:process setsched;

# on ultra read eeprom through i2c
# type=AVC msg=audit(1479569571.044:3): avc: denied { getattr } for pid=5283 comm="cmand"
path="/sys/devices/i2c-0/i2c-1/1-0056/eeprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_rp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# type=AVC msg=audit(1479569571.045:4): avc: denied { read write } for pid=5283 comm="cmand"
name="eeprom" dev="sysfs" ino=25556 scontext=system_u:system_r:polaris_cm_rp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_cm_rp_t)
polaris_ggpio_dev_read_write(polaris_cm_rp_t)

# accessing obfl files like /obfl/obfl_uptime_v2.log
polaris_bootflash_read(polaris_cm_rp_t)
polaris_obfl_data_manage(polaris_cm_rp_t)

corecmd_exec_shell(polaris_cm_rp_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_cm_rp_t)

# cman_data_chasfs_mgmt_eth_override (cman/rp/src/cman_data.c:1096) tries to do
# ioctl(sk, SIOCGIFHWADDR, &ifr) for "eth2", which is not present on ultra, but
# such ioctl in kernel triggers dev_load attempt in kernel. Since interface
# and module does exist anyway, it is OK to deny it
kernel_dontaudit_request_load_module(polaris_cm_rp_t)

# cmand creates udp socket to get interface hw address cmlib_if_config_addr
allow polaris_cm_rp_t self:udp_socket create_socket_perms;

# dynfgc_setup.sh is started by cmand
polaris_dyncfg_domtrans(polaris_cm_rp_t)
polaris_dyncfg_tmp_read(polaris_cm_rp_t)
# on crankshaft cm_rp does init directly
polaris_dyncfg_setup(polaris_cm_rp_t)

# denied { search read open } subject: polaris_cm_rp_t; object: polaris_disk_varied_t
# name="/" dev="sda5" path="/varied"
polaris_disk_varied_manage(polaris_cm_rp_t)

#allow polaris_cm_rp_t polaris_udev_tmp_files_t:dir { read search };
polaris_udev_tmp_list_dirs(polaris_cm_rp_t)

# LOOK AT ME: /tmp/rp/chasfs/inventory has symbolic links back to
# /bootflash/core/modules and /bootflash/tracelogs/modules cman_inv_restart_init
# calls chasfs_properties_internal over this node and as result it tries to
# access those directories
polaris_core_file_search(polaris_cm_rp_t)
polaris_disk_bootflash_search(polaris_cm_rp_t)
polaris_btrace_persistent_data_search(polaris_cm_rp_t)

polaris_dyncfg_tmp_manage(polaris_cm_rp_t)

ifdef(`mcp_family',
polaris_scooby_dev_use(polaris_cm_rp_t)
# read/write /dev/ds3100 chr device
dev_rw_generic_chr_files(polaris_cm_rp_t)
polaris_spa_dev_use(polaris_cm_rp_t)
')

```
# temporary files created for repm in /tmp/replication
type polaris_cm_rp_tmp_t;
files_tmp_file(polaris_cm_rp_tmp_t)
gen_require(
    type tmp_t;
)
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pfu_oirtime.lock")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "golden_boot")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sr_message_debug.txt")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "ngwc_sudi_auth_done")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "codesign.txt")
polaris_cm_rp_tmp_manage(polaris_cm_rp_t)

logging_send_syslog_msg(polaris_cm_rp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_rp_t)
dev_getattr_sysfs_fs(polaris_cm_rp_t)

# /var files
gen_require(
    type var_log_t;
)
type polaris_cm_rp_var_log_t;
logging_log_file(polaris_cm_rp_var_log_t)
logging_log_filetrans(polaris_cm_rp_t, polaris_cm_rp_var_log_t, file, "obfl_uptime_v2.log")
manage_files_pattern(polaris_cm_rp_t, var_log_t, polaris_cm_rp_var_log_t)

# needed for "show platform hardware slot R0 eobc interface primary status"
kernel_read_network_state(polaris_cm_rp_t)

# show platform hardware slot R0 pcie status
# mcp_pcie_status_cmd.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_pcie_status_cmd.sh
#*******************************************************************************
polaris_utility_domain_template(pcie_status_cmd)
polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_pcie_status_cmd_t, polaris_pcie_status_cmd_exec_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pcie_status_cmd_t)

# "lspci" needs access to files like /sys/devices/pci0000:00/0000:00:00.0/resource
dev_read_sysfs(polaris_pcie_status_cmd_t)

polaris_send_signal_to_bexecute(polaris_cm_rp_t)

# need write/getattr access for pipes like "pipe:[118396]"
polaris_cmrp_use_fifo(polaris_pcie_status_cmd_t)

corecmd_exec_bin(polaris_pcie_status_cmd_t)

# on utah need to get model info
optional_policy(
    polaris_dash_dev_use(polaris_cm_rp_t)
    polaris_nios_dev_use(polaris_cm_rp_t)
)

# access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform',
    polaris_dash_dev_mcp_use(polaris_cm_rp_t)
)

ifdef(`crankshaft_family',
polaris_quack_dev_use(polaris_cm_rp_t)
)

ifdef(`sparrow_platform',
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
)

ifdef(`blackheart_platform',
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
)

ifdef(`cabo_platform',
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
)

ifdef(`aventus_platform',
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
polaris_dio_dev_use(polaris_cm_rp_t)
)

ifdef(`qwlc_platform',
polaris_quack_dev_use(polaris_cm_rp_t)
)

ifdef(`katar_platform',
polaris_quack_dev_use(polaris_cm_rp_t)
)
ifdef(`wlc_family',`
netutilc_domtrans_ping(polaris_cm_rp_t)
')

ifdef(`ngwc_family',`
# In cman_rp module fips/entropy component
# calls cman_ngwc_tam_platform_get_act2_entropy() to
# retrieve entropy from ACT2 chip.
polaris_act2_dev_use(polaris_cm_rp_t)

# cman-rp init needs access to quack chip
polaris_quack_dev_use(polaris_cm_rp_t)

# read /proc/cmdline
kernel_read_system_state(polaris_cm_rp_t)

# on macallan and nyquist cman_rp needs to access /flash<#/lic0/sudi_cert_data_v3
polaris_disk_license_read(polaris_cm_rp_t)

# on macallan and starfleet cli "show firmware version lan_spi" triggers ethtool usage
sysnet_domtrans_ifconfig(polaris_cm_rp_t)
')

# cman-rp needs to read /tmp/fed_post_result and /tmp/sm_post_result
# on ngwc platforms
optional_policy(`
polaris_fed_tmp_files_read(polaris_cm_rp_t)
')
optional_policy(`
polaris_sif_mgr_tmp_files_read(polaris_cm_rp_t)
')

ifdef(`starfleet_platform',`
polaris_dmammap_dev_use(polaris_cm_rp_t)
')

ifdef(`nyquist_platform',`
polaris_ngwc_shm_manage(polaris_cm_rp_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_cm_rp_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "mcu_upgrading")

# executes tar for microcode
allow polaris_cm_rp_t self:capability { fowner fsetid };'

ifdef(`radium_platform`,
# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)
')

ifdef(`sumatra_platform`,
# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_cm_rp_t)
# access huron FPGA
polaris_huron_dev_use(polaris_cm_rp_t)
')

ifdef(`quake_platform`,
polaris_ngwc_shm_manage(polaris_cm_rp_t)
#
# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_cm_rp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "mcu_upgrading")
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvm48950 is fixed using CSCvm48953
ifdef(`nyquist_platform`,
polaris_dev_mem_use(polaris_cm_rp_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef(`quake_platform`,
polaris_dev_mem_use(polaris_cm_rp_t)
')

###########################################################################
# CLI: "show platform hardware slot R0 xaui statistics"
# this results in cman (/usr/binos/bin/cmand) invoking
# "/bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/dash_fpga_xaui.py show".
# The python script dash_fpga_xaui.py runs in polaris_bexecute_t domain
# and as part of its functionality it needs to create an UDP socket and make an ioctl call.

polaris_utility_domain_template(dash_fpga_xaui)

polaris_bexecute_domain(polaris_dash_fpga_xaui_t, polaris_dash_fpga_xaui_exec_t)
polaris_cmrp_use_fifo(polaris_dash_fpga_xaui_t)
allow polaris_dash_fpga_xaui_t self:udp_socket { create ioctl }

# CLI: show plat soft cpu share
# - invokes functions in binos/tools/bin/cgroup_reports.sh
# - also cman_cli_show_cpu_share_cb in binos/cman/rp/src/cman_cli.c
# allow open/read/search cgroup files like
# /sys/fs/cgroup/cpu,cpuacct/iosxe_control_processes/cpu.shares

fs_read_cgroup_files(polaris_cm_rp_t)
fs_list_cgroup_dirs(polaris_cm_rp_t)

# on tsn need access to /dev/moka_fpga
optional_policy(
    polaris_mokafpga_dev_use(polaris_cm_rp_t)
')

optional_policy(
    # betelgeuse need access to /dev/sirius_fpga
    polaris_sirius_fpga_dev_use(polaris_cm_rp_t)
')

# on tsn read access to /sys/devices/platform/moka_fpga
optional_policy(
    polaris_mokafpga_read(polaris_cm_rp_t)
')

optional_policy(
    polaris_tam_getattrs_tmp_dirs(polaris_cm_rp_t)
')

# on vwlc/macallan, cmand creates /tmp/hw_entropy
polaris_hw_entropy_create(polaris_cm_rp_t)

# on tsn need write access to
# sys/devices/platform/cpld/reg_rp_sku_register
# on starfleet need write access to
# sys/devices/platform/cpld/reg_fan_fault_shutdown
optional_policy(
    polaris_cpld_write(polaris_cm_rp_t)
)

# LOOK AT ME: /dev/mem access restriction
ifdef(`tsn_platform',
    polaris_dev_mem_use(polaris_cm_rp_t)
)

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums
polaris_kgv_data_manage(polaris_cm_rp_t)

optional_policy(
    polaris_quake_i2c_manage(polaris_cm_rp_t)
)

ifdef(`qwlc_platform',
    # read/write /dev/ds3100 chr device
    dev_rw_generic_chr_files(polaris_cm_rp_t)
)

ifdef(`katar_platform',
    # read/write /dev/ds3100 chr device
    dev_rw_generic_chr_files(polaris_cm_rp_t)
    # Read access to /tmp/ldwm_envelope file
    polaris_ldwm_envelope_read(polaris_cm_rp_t)
)

ifdef(`mcp_family',
    # Read access to /tmp/ldwm_envelope file
    polaris_ldwm_envelope_read(polaris_cm_rp_t)
)

# /dev/luna_fpga on qwlc
optional_policy(
    polaris_luna_nbfpga_dev_use(polaris_cm_rp_t)
)

# open /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_rp_t)

optional_policy(
    polaris_ngwc_scc_shm_manage(polaris_cm_rp_t)
)

ifdef(`ngwc_family',
    # on nyquist in ngwe_update_member_config nvram_config is
# copied from /tmp/chassis/local/rp/tam/00001.nvram_config
polaris_nvram_manage(polaris_cm_rp_t)

# CMAN needs to create nvram_config with the right label instead of bootflash_t
gen_require(
    type polaris_nvram_file_t;
    type polaris_disk_bootflash_t;
    )
filetrans_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_nvram_file_t, file, "nvram_config")

# CMANRP needs to create right label instead of bootflash_t
type polaris_user_file_t;
files_type(polaris_user_file_t);
polaris_bootflash_filetrans(polaris_cm_rp_t, polaris_user_file_t, file);
manage_files_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_user_file_t)

# on virtual platforms cman reads virtual sudir file /csl_p_0/vudi.pri
ifdef(`vxe_family',`
polaris_disk_csl_read(polaris_cm_rp_t)
')
ifdef(`wlc_family',`
polaris_disk_csl_read(polaris_cm_rp_t)
')

# from cman_util_chasfs_watch_stby_harddisk
polaris_udev_tmp_watch(polaris_cm_rp_t)

# watch read over /tmp/chassis/local/rp/tam by cman_nyq_board_auth_init
polaris_chasfs_watch_read(polaris_cm_rp_t)

# /dev/aikido access
polaris_aikido_dev_use(polaris_cm_rp_t)

# access SERDES /tmp/serdes_asic_key_dir/
optional_policy(`
polaris_serdes_asic_key_tmp_manage(polaris_cm_rp_t)
')

# run /sbin/hwclock in its own domain
clock_domtrans(polaris_cm_rp_t)

ifdef(`crankshaft_family',`
# modprobe sm_nim_adpt.ko for Switzer-CC
modutils_domtrans_insmod(polaris_cm_rp_t)
# /dev/sm_nim_adpt device files for Switzer-CC
polaris_sm_nim_adpt_dev_use(polaris_cm_rp_t)

# "show platform hardware subslot <slot/card> backplane statistics"
# triggers ethtool with ifconfig_t using fifo_file (pipe) on polaris_cm_rp_t.
gen_require('  
  type ifconfig_t;
')

polaris_cmrp_use_fifo(ifconfig_t)
')

polaris_iosd_vcpu_read(polaris_cm_rp_t)

################################################################################
# show platform hardware slot R0 fpga
# mcp_fpga_status_cmd.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_fpga_status_cmd.sh
################################################################################
polaris_utility_domain_template(fpga_status_cmd)

polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_fpga_status_cmd_t, polaris_fpga_status_cmd_exec_t)
polaris_cmrp_use_fifo(polaris_fpga_status_cmd_t)

auth_use_nsswitch(polaris_fpga_status_cmd_t)
corecmd_exec_bin(polaris_fpga_status_cmd_t)

# PLEASE LOOK AT ME: /sys/devices/platform/nios should have Cisco specific label
# read content under /sys/devices/platform/nios
dev_read_sysfs(polaris_fpga_status_cmd_t)

ifdef(`sparrow_platform',`
  polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`cabo_platform',`
  polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`starfleet_platform',`
  polaris_fpga_upgrade_tmp_use(polaris_cm_rp_t)
')

type polaris_fpga_upgrade_tmp_t;
files_tmp_file(polaris_fpga_upgrade_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_fpga_upgrade_tmp_t, file, "fpga_upgrade")

# cman_rp needs read access to cpu identity
# /dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)
# cman_rp needs read/write access to cpu msr
# /dev/cpu/0/msr
# following definition provides that
dev_rw_cpu_microcode(polaris_cm_rp_t)

type polaris_cmrp_nim_xxd_tmp_t;
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

ifdef(`2kp_platform',``
# blzi device
polaris_blzi_dev_use(polaris_cm_rp_t)
')

# tamlib debug file access
polaris_tamlib_dbg_file_manage(polaris_cm_rp_t)

ifdef(`wlc_family',``
# tcpdump access for RP
# packet dump is stored in file /bootflash/haIntCaptureLo.pcap
type polaris_netutils_data_t;
polaris_pfile_type(polaris_netutils_data_t)
gen_require(`
  type polaris_disk_bootflash_t;
type netutils_t;
')
filetrans_pattern(netutils_t, polaris_disk_bootflash_t, polaris_netutils_data_t, file, "haIntCaptureLo.pcap")
manage_files_pattern(netutils_t, polaris_netutils_data_t, polaris_netutils_data_t)

# tcpdump access
netutils_run(polaris_cm_rp_t, system_r)

# pidof access
dev_read_sysfs(polaris_cm_rp_t)
kernell_read_system_state(polaris_cm_rp_t)
domain_read_all_domains_state(polaris_cm_rp_t)

# /usr/sbin/ethtool access for show platform hardware slot x ha_port interface stats command
sysnet_domtrans_ifconfig(polaris_cm_rp_t)
')

optional_policy(`
polaris_ds31408_dev_use(polaris_cm_rp_t)
')

polaris_ddr_dev_use(polaris_cm_rp_t)
# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
fstools_exec(polaris_cm_rp_t)

# allow access to /tmp/cmlib_eeprom_sim_smartctl.out
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "cmlib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
dev_nvme_chr_files_manage(polaris_cm_rp_t)
dev_nvme_blk_files_manage(polaris_cm_rp_t)

#DB persistence
polaris_tldldbpersist_setup(polaris_cm_rp_t)
polaris_tmp_tldldb_persist_setup(polaris_cm_rp_t)

# code_sign_verify is started by cmd
polaris_code_verify_domtrans(polaris_cm_rp_t)

ifdef(`ngwc_family',`
# SELINUX Mismatch warning when doing power redundancy configuration commands
# Allow access /bootflash/nplusm-power
polaris_nplusm_power_manage(polaris_cm_rp_t)
')

ifdef(`crankshaft_family',`
# For USB disable feature, /sys/bus/usb/drivers/usb/*/authorized is accessed
gen_require('type sysfs_t;
')
allow polaris_cm_rp_t sysfs_t:file create;
dev_manage_sysfs_dirs(polaris_cm_rp_t)
')

ifdef(`petra_platform',`
# allow access to /dev/petra-fpga
polaris_iots_fpga_dev_use(polaris_cm_rp_t)
# allow access to /flash6/moncfg/cfg.dat
polaris_nvram_read(polaris_cm_rp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
divert(-1)

include(`polaris_process.m4')
dnl Stub out plaris process
define(`polaris_process',``)

dnl Stub out mqipc
define(`polaris_mqipc_service_server',``)
define(`polaris_mqipc_service_client',``)
define(`polaris_mqipc_service_server_elastic_client',``)

dnl Stub out lipc
define(`polaris_lipc_service_server',``)
define(`polaris_lipc_service_client',``)

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_base_ripc_if.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',``)
define(`polaris_cipc_service_server',``)

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
### <summary>Polaris Platform Base IPC Policy Rules.</summary>
### <required val="true">
###     Needed for each polaris platform
### </required>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_if.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisplogd, 1.0);
gen_require("
    type polaris_plogd_t;
")

polaris_btrace_data_manage(polaris_plogd_t)
polaris_crft_data_manage(polaris_plogd_t)
polaris_chasfs_manage(polaris_plogd_t)
polaris_tdlresolve_read(polaris_plogd_t)
polaris_tddb_list_dirs(polaris_plogd_t)
polaris_cpld_read(polaris_plogd_t)
polaris_flashlib_read(polaris_plogd_t)
polaris_rpc_sman_ui_serv_connect(polaris_plogd_t)

# originally when box starts /dev/log is symbolic link to /run/systemd/journal/dev-log
# but latter plogd reset links to its own socket: make sure that we have proper
# transition
gen_require("
    type devlog_t;
    type syslogd_t;
")
allow polaris_plogd_t devlog_t:sock_file manage_sock_file_perms;
allow polaris_plogd_t devlog_t:lnk_file manage_lnk_file_perms;
dev_filetrans(polaris_plogd_t, devlog_t, sock_file, "log")
# make sure that unix_dgram_socket got transitioned into syslogd_t
#type_transition polaris_plogd_t polaris_plogd_t:unix_dgram_socket syslogd_t;
allow polaris_plogd_t syslogd_t:unix_dgram_socket { bind create read };

# autogen script misses connection between plogd
polaris_rpc_plog_serv_connect(polaris_plogd_t)

# why plogd needs dac_override capability?
allow polaris_plogd_t self:capability { dac_override };
allow polaris_plogd_t self:capability2 block_suspend;
polaris_dyncfg_tmp_read(polaris_plogd_t)

# plogd calls journalctl -f to get system logs including our AVC messages
# plogd also signals running journalctl to manage the buffer queues
gen_require("
    type journalctl_t;
")
journalctl_domtrans(polaris_plogd_t)
allow polaris_plogd_t journalctl_t:process signal;

# should be moved into contrib journalctl.te? journalctl tries to read
# /proc/1/environ
gen_require("
type journalctl_t;

  )
init_read_state(journalctl_t)
allow journalctl_t self:capability sys_resource;
allow journalctl_t self:process setrlimit;

# plogd calls stdbuf to set up journalctl buffering
corecmd_exec_bin(polaris_plogd_t)

# writes into pman fifo stdout
polaris_use_btrace_fifo(journalctl_t)

# /dev/log is symbolic link to /run/systemd/journal/dev-log
# need ability to search in init_var_run_t /run/systemd
# some of subjects that use syslog may not have it
gen_require(
  attribute syslog_client_type;
)
init_search_pid_dirs(syslog_client_type)
plog_d calls journalctl to get system log including AVC message.
allow polaris_plogd_t journalctl_t:process signal;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#
#
# polaristamsrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#
#
## <summary>Polaris ftm Policy Rules.</summary>
## <summary>
## Write ttm /var/run socket file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_ftm_var_sock_write',
    gen_require(
        type polaris_ftm_t;
        type polaris_ftm_var_run_t;
        type var_run_t;
    )
    write_sock_files_pattern($1, var_run_t, polaris_ftm_var_run_t)
    allow $1 polaris_ftm_t:unix_stream_socket { connectto };)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#
/usr/binos/conf/iptbl.sh -- gen_context(system_u:object_r:polaris_iptbl_exec_t,s0)
/tmp/rp/iptbl       -d gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/rp/iptbl/inot_fifo -p gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

# in polaris we have xtables-multi at wrong location
/usr/bin/xtables-multi -- gen_context(system_u:object_r:iptables_exec_t,s0)

#fman (rp/fp) acl mgmt and iptbl modules dependency
/tmp/iptbl.v4       gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/iptbl.v6       gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.fc
No license file was found, but licenses were detected in source scan.
# March 2017, Victor Kamensky
#
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#

### <summary>Polaris cpp_sp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

# polarisngwctblmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmgr.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/tmp/sysctrl_i2c.lck       gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)
/tmp/pfu_oirtime.lock     gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)
/tmp/golden_boot          gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)

# dash_fpga_xaui.py is the backend python code for
# the cli "show platform hardware slot R0 xaui statistics"
/usr/binos/conf/dash_fpga_xaui.py -- gen_context(system_u:object_r:polaris_dash_fpga_xaui_exec_t,s0)

/usr/binos/bin/cmand_us -- gen_context(system_u:object_r:polaris_cm_rp_exec_t,s0)
# relabel /vol/harddisk/.inv
/vol/harddisk/.inv(/.*)?   gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)
/vol/harddisk_internal/.inv(/.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)

#.inv dir is in /bootflash in Katar eWLC
/bootflash/.inv(/.*)?     gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)
# August 2017, Shawn Lu

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## <summary>Polaris rrm_mgr Policy Rules.</summary>

# March 2017, Victor Kamensky

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## <summary>Polaris LIPC Policy Rules.</summary>

# LIPC policy

### <summary>Manage lipc files</summary>

### <param name="domain">
### Domain allowed access.

### </summary>

### </param>

### <rolebase/>

interface(`polaris_lipc_manage`,
  gen_require(`
type polaris_lipc_t;
`)
  manage_dirs_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_link_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_fifo_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_sock_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
)

########################################################################
## <summary>
##      Getattr of lipc files directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(‘polaris_lipc_getattr’,
gen_require(‘
type polaris_lipc_t;
’)
getattr_dirs_pattern($1, polaris_lipc_t, polaris_lipc_t)
ggetattr_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
ggetattr_link_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
ggetattr_fifo_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
ggetattr_sock_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
’)

########################################################################
## <summary>
##      Create lipc file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed creating lipc channel.
##      </summary>
## </param>
## <param name="channel_domain">
##      <summary>
##      Domain assigned to lipc channel.
##      </summary>
## </param>
## <param name="channel_name">
##      <summary>
##      File name of lipc channel.
##      </summary>
## </param>
# interface('polaris_lipc_create_name',
  gen_require('  
  type polaris_lipc_t;
  ')
  
  type_transition $1 polaris_lipc_t : sock_file $2 $3;
  manage_sock_files_pattern($1, polaris_lipc_t, $2)

  polaris_socketat_nsfs_read($1)

  
  # not specific enough
  # type_transition $1 $1 : unix_stream_socket $2;
  # allow $1 $2:unix_stream_socket { listen accept bind create write read };
  ')

########################################################################
## <summary>
## Write lipc file
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed to connect and write into lipc file.
##  </summary>
## </param>
## <param name="channel_domain">
##  <summary>
##  Domain assigned to lipc channel.
##  </summary>
## </param>
## <param name="server">
##  <summary>
##  Domain of owner of lipc channel.
##  </summary>
## </param>
#
interface('polaris_lipc_write',
  gen_require('  
  type polaris_lipc_t;
  ')
  
  write_sock_files_pattern($1, polaris_lipc_t, $2)
  allow $1 $3:unix_stream_socket { connectto };

  polaris_socketat_nsfs_read($1)
  ')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define(`polaris_lipc_service_server_aux',`dnl
type $1;
files_type($1)
polaris_lipc_$2_create_name($3))

define(`polaris_lipc_service_server_full',`dnl
polaris_lipc_service_server_aux(lipc_label($1), lipc_stem($1), process_label($2))dnl')

define(`polaris_lipc_service_server',`dnl
ifelse(lipc_type_map($1), `', `polaris_lipc_service_server_full($1, $2)')
lipc_type_map_set(lipc_label($1), process_label($2))
')

define(`polaris_lipc_service_client_aux',`dnl
polaris_lipc_$2_write($3, $4))

define(`polaris_lipc_service_client',`dnl
polaris_lipc_service_client_aux(lipc_label($1), lipc_stem($1), process_label($2), lipc_type_map(lipc_label($1)))dnl')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_te.m4
No license file was found, but licenses were detected in source scan.

#
# September 2017, Victor Kamensky
#
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#

policy_module(polarisbtman, 1.0);

gen_require(`
    type polaris_btman_t;
')
polaris_crft_data_manage(polaris_btman_t)
polaris_chasfs_manage(polaris_btman_t)
polaris_tdlresolve_read(polaris_btman_t)
polaris_tdlldb_list_dirs(polaris_btman_t)
polaris_cpld_read(polaris_btman_t)
polaris_flashlib_read(polaris_btman_t)

polaris_rpic_sman_ui_serv_connect(polaris_btman_t)

polaris_db_tdlldb_dir_use(polaris_btman_t)

polaris_bexecute_domtrans(polaris_btman_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_btman_t)
polaris_send_signal_to_bexecute(polaris_btman_t)

corecmd_exec_bin(polaris_btman_t)
corecmd_exec_shell(polaris_btman_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btman_t)

allow polaris_btman_t self:capability { dac_override fsetid };

polaris_cpld_read(polaris_btman_t)

# operate on all btrace files
polaris_btrace_data_manage_all(polaris_btman_t)

# btman operated on /tmp/tmppub files
type polaris_btrace_tmppub_t;
files_tmpp_file(polaris_btrace_tmppub_t)

polaris_systemd_tmppfiles_tmpp_filetrans(polaris_btrace_tmppub_t, dir, "tmppub")
filetrans_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t, { file dir })
manage_files_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
manage_dirs_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)

polaris_persistent_read(polaris_btman_t)

# in purge_old_core_files_from_harddisk function of btrace_rotate_util.c
# script removes outdated core files, so it needs read/write permission
# to polaris_core_file_t files.
polaris_core_file_manage(polaris_btman_t)

fs_getattr_xattr_fs(polaris_btman_t)

# btman checks for presence of /tmp/udev/etc/udev/harddisk
# through hwutil_is_harddisk_present function of hwutil-common.sh
polaris_udev_tmp_list_dirs(polaris_btman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_btman_t self:capability sys_resource;

# access to /tmp/sw/boot/dmesg
polaris_boot_tmp_read(polaris_btman_t)

polaris_create_ldb_domtrans(polaris_btman_t)

# btman calls update Resolver_Luid_paths which eventually calls open_brand function for
# given polaris executable (build_crdu_luid_file_paths, bcrdu_get_proc_path_internal,
# brand_type_string)
polaris_read_exec_domain(polaris_btman_t)

# btman create transitional files in /tmp directory
type polaris_btman_tmp_t;
files_tmp_file(polaris_btman_tmp_t)
files_tmp_filetrans(polaris_btman_tmp_t, polaris_btman_tmp_t, file)
manage_files_pattern(polaris_btman_tmp_t, polaris_btman_tmp_t, polaris_btman_tmp_t)

# use syslog
logging_send_syslog_msg(polaris_btman_t)

# btman unlink /tmp/rp/pvp/work/btman_first_inst
polaris_pvp_manage_tmp_files(polaris_btman_t)

# operate on btrace file in /bootflash
polaris_btrace_persistent_data_manage(polaris_btman_t)

gen_require(
    type polaris_btrace_data_t;
    )
polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_crashinfo_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")

# btman creates /tmp/rp/pvp/work/btman_first_inst directory in is_first_incarnation
# function called by btrace_rotate_init
polaris_pvp_manage_tmp_files(polaris_btman_t)

########################################################################
# This block is policies for "request platform software system shell" CLI

# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/bin/btman -f rp
# - needs to read/getattr on
# /tmp/sw/mount/*universalk9.*.SSA.pkg/usr/bin/os/sbin/in.telnetd
gen_require(
    type telnetd_exec_t;
)
allow polaris_btman_t telnetd_exec_t:file { getattr open read };

# btman establishes leases for trace files
allow polaris_btman_t self:capability lease;

# dump_btrace_meta walks all files with nftw
files_getattr_all_files(polaris_btman_t)
files_getattr_all_dirs(polaris_btman_t)
files_read_all_symlinks(polaris_btman_t)
files_list_non_security(polaris_btman_t)
files_read_all_files(polaris_btman_t)
files_mmap_all_files(polaris_btman_t)

# btman exports data through http protocol btm_trigger_export and schedule_newfile_export
corenet_tcp_connect_http_port(polaris_btman_t)

# LOOK AT ME: incorrect iosd-tps service_def. It should be renamed
# iosd_tps_socket-b0 in all platform.tdl files. Remove the following
# policy when CSCvp89498 is fixed.
gen_require(
    type polaris_lipc_t;
    type polaris_pman_t;
')
polaris_lipc_write(polaris_btman_t, polaris_lipc_t, polaris_pman_t)

# btman manages some persistent crashinfo files
polaris_disk_crashinfo_manage(polaris_btman_t)

#DB persistence
polaris_tlddbpersist_setup(polaris_btman_t)
polaris_tmp_tlddb_persist_setup(polaris_btman_t)
polaris_btrace_data_watch(polaris_btman_t)

# dump_btrace_meta writes to /tmp/binary_trace.1605747053/.pkginfo
polaris_install_tmp_manage(polaris_btman_t)

#allow polaris_btman_t access to polaris_cm_rp semaphore
polaris_cm_rp_sem_use(polaris_btman_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.te
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#
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#

policy_module(polarisfmanrp, 1.0);

gen_require(`
    type polaris_fman_rp_t;
')

# mqipc manual, one that missing in platform tdl file

# mq.-fman-log-bay0-peer0
type polaris_fman_log_bay0_peer0_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer0_mqipc_t)

# mq.-fman-log-bay0-peer1
type polaris_fman_log_bay0_peer1_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer1_mqipc_t)

# mq.-fman-log-bay0-peer2
type polaris_fman_log_bay0_peer2_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer2_mqipc_t)

# mq.-fman-log-bay0-peer3
type polaris_fman_log_bay0_peer3_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer3_mqipc_t)

# mq.-fman-log-bay0-peer4
type polaris_fman_log_bay0_peer4_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer4_mqipc_t)

# mq.-fman-log-bay0-peer5
type polaris_fman_log_bay0_peer5_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer5_mqipc_t)

# mq.-fman-log-bay0-peer6
type polaris_fman_log_bay0_peer6_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer6_mqipc_t)
# mq.-fman-log-bay0-peer7
type polaris_fman_log_bay0_peer7_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer7_mqipc_t)

# mq.-fman-log-bay0-peer8

type polaris_fman_log_bay0_peer8_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer8_mqipc_t)

polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer0_mqipc_t, fman-log-bay0-peer0)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer1_mqipc_t, fman-log-bay0-peer1)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer2_mqipc_t, fman-log-bay0-peer2)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer3_mqipc_t, fman-log-bay0-peer3)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer4_mqipc_t, fman-log-bay0-peer4)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer5_mqipc_t, fman-log-bay0-peer5)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer6_mqipc_t, fman-log-bay0-peer6)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer7_mqipc_t, fman-log-bay0-peer7)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer8_mqipc_t, fman-log-bay0-peer8)

polaris_btrace_data_manage(polaris_fman_rp_t)
polaris_crtf_data_manage(polaris_fman_rp_t)
polaris_chasfs_manage(polaris_fman_rp_t)
polaris_tdlresolve_read(polaris_fman_rp_t)
polaris_tdlldb_list_dirs(polaris_fman_rp_t)
polaris_cpld_read(polaris_fman_rp_t)
polaris_flashlib_read(polaris_fman_rp_t)
polaris_lua_read(polaris_fman_rp_t)

polaris_ripc_sman_ui_serv_connect(polaris_fman_rp_t)

polaris_db_tdlldb_dir_use(polaris_fman_rp_t)

ifdef(`nyquist_platform',`
    gen_require(`
        type polaris_bt_logger_fman_rp_mqipc_t;
        ')
    # fman_rp may start first and create this mqipc channel
    polaris_mqipc_create_name(polaris_fman_rp_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)
    ')

    allow polaris_fman_rp_t self:udp_socket { create ioctl };
    allow polaris_fman_rp_t self:capability { dac_override };
    allow polaris_fman_rp_t self:capability2 block_suspend;

    # not clear why fman_rp tries to load netdev-mgmtbr kernel module
    # it does not exist on ultra anyway
    # type=AVC msg=audit(1478126742.967:98): avc: denied { module_request } for pid=18020 comm="fman_rp"
    # kmod="netdev-mgmtbr" scontext=system_u:system_r:polaris_fman_rp_t:s0
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22668

tcontext=system_u:system_r:kernel_t:s0 tclass=system
kernel_request_load_module(polaris_fman_rp_t)

polaris_socketat_nsfs_read(polaris_fman_rp_t)

polaris_dyncfg_tmp_read(polaris_fman_rp_t)

# socketat usage from fman_punt_port_mapping_init for AF_NETLINK, SOCK_DGRAM
polaris_lfts_dev_use(polaris_fman_rp_t)
allow polaris_fman_rp_t self:netlink_tcpdiag_socket {create nlmsg_read };

# fman_rp tries to write to systemd journal when a peer is stuck
# introduced by CSCvt19772
logging_send_syslog_msg(polaris_fman_rp_t)

optional_policy('
#fman-rp creates tmp files in acl-mgmt workflow.
polaris_fman_acl_iptbl_tmp_file(polaris_fman_rp_t)
')

# manually create mqipc channel: missing in TDL
type polaris_fmrp2fpm_mqipc_t;
polaris_mqipc_type(polaris_fmrp2fpm_mqipc_t)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fmrp2fpm_mqipc_t, fmrp2fpm_vulcan_mqipc)

optional_policy('
polaris_fpm2fmrp_mqipc_use(polaris_fman_rp_t)
')

polaris_issu_tmp_files_read(polaris_fman_rp_t)

polaris_install_tmp_read(polaris_fman_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.te
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#
# August 2017, Shawn Lu
#
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#

policy_module(polarisrifmgr, 1.0);

gen_require('
    type polaris_rif_mgr_t;
')
polaris_btrace_data_manage(polaris_rif_mgr_t)
polaris_crft_data_manage(polaris_rif_mgr_t)
polaris_chasfs_manage(polaris_rif_mgr_t)
polaris_tdlresolve_read(polaris_rif_mgr_t)
polaris_tdlpdb_list_dirs(polaris_rif_mgr_t)
polaris_cpld_read(polaris_rif_mgr_t)
polaris_lua_read(polaris_rif_mgr_t)
polaris_flashlib_read(polaris_rif_mgr_t)
polaris_lfts_dev_use(polaris_rif_mgr_t)
logging_send_syslog_msg(polaris_rif_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_rif_mgr_t)

allow polaris_rif_mgr_t self:capability { sys_nice dac_override };
allow polaris_rif_mgr_t self:process { setsched };
# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_rif_mgr_t)

# work with /dev/hanet device
polaris_hanet_dev_use(polaris_rif_mgr_t)

# update/read chassis serial numer /csl_p_0/vudi.pri
polaris_disk_csl_manage(polaris_rif_mgr_t)

# monitors native interfaces flap over /proc and netlink
kernel_read_network_state(polaris_rif_mgr_t)
allow polaris_rif_mgr_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_rif_mgr_t self:unix_dgram_socket create_socket_perms;

# pidof and /proc usage
dev_read_sysfs(polaris_rif_mgr_t)
kernell_read_system_state(polaris_rif_mgr_t)
domain_read_all_domains_state(polaris_rif_mgr_t)
corecmd_exec_bin(polaris_rif_mgr_t)

kernel_dontaudit_request_load_module(polaris_rif_mgr_t)
# rifmgr creates udp socket to get interface flags in rif_rp_init
allow polaris_rif_mgr_t self:udp_socket create_socket_perms;

corenet_tcp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenet_tcp_connect_polaris_rif_mgr_port(polaris_rif_mgr_t)

corenet_udp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenet_udp_bind_generic_node(polaris_rif_mgr_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrifmgr.te
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#
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#
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#

## <summary>Polaris stack_mgr Policy Rules.</summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface(`polaris_use_stack_mgr_fifo',
    gen_require(
        type polaris_stack_mgr_t;
    )
)

write_fifo_files_pattern($1, polaris_stack_mgr_t, polaris_stack_mgr_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.if
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#

/tmp/.DMI_FIFO                      gen_context(system_u:object_r:polaris_dmi_vtyserverutild_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.fc
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#
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#

### <summary>Polaris cm_cc Policy Rules.</summary>

#######################################
## <summary>
##      Execute cmand_fp in the polaris_cm_fp_t domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_cm_cc_domtrans',`
        gen_require(`
            type polaris_cm_cc_t, polaris_cm_cc_exec_t;
        `)
        corecmd_search_bin($1)
        domtrans_pattern($1, polaris_cm_cc_exec_t, polaris_cm_cc_t)
    `)

#######################################
## <summary>
##      Manage cm_cc_tmpfs files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cm_cc_tmpfs_manage',`
        gen_require(`
            type polaris_cm_cc_tmpfs_t;
        `)
        manage_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
        mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
    `)
<summary>
Check presence and unlink /tmp/nim_xxd_present file created by cman cc.
</summary>

<param name="domain">
<summary>
Domain allowed access.
</summary>
</param>

interface(`polaris_nim_xxd_tmp_open_unlink',`
gen_require(`
type polaris_nim_xxd_tmp_t;
')

allow $1 polaris_nim_xxd_tmp_t:file { open unlink }
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.if
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#

<summary>Polaris LUA Policy Rules.</summary>

# Polaris lfts

# Work (read, write, ioctl) with /dev/dev_lfts device.

<param name="domain">
<summary>
Domain allowed access.
</summary>
</param>

<rolebase/>
interface('polaris_lfts_dev_use',
    gen_require(
        type device_t;
        type polaris_lfts_device_t;
    )
)
    write_chr_files_pattern($1, device_t, polaris_lfts_device_t)
    read_chr_files_pattern($1, device_t, polaris_lfts_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.if
No license file was found, but licenses were detected in source scan.

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#
#
## <summary>Polaris ofa Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.if
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#
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#
#
/var/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_var_vman_t,s0)

/bootflash/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/virtual-instance.conf -- gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/vman_fdb(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)

/vol/harddisk/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/virtual-instance.conf -- gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/vman_fdb(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)

#sparrow, blackheart
/flash1/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/virtual-instance.conf -- gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/vman_fdb(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/tmp/vman(/.*)? gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/cgroup.log gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/vman_lxc_wdt_[0-9]* gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/trace(/.*)? gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/usr/binos/conf/vman_exec.sh -- gen_context(system_u:object_r:polaris_vman_shell_exec_t,s0)
/usr/binos/conf/cgroup_reports.sh -- gen_context(system_u:object_r:polaris_cgroup_reports_exec_t,s0)
/usr/binos/conf/vman_techsupport.sh -- gen_context(system_u:object_r:polaris_vman_tech_exec_t,s0)

Found in path(s):
*/opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.fc

No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

policy_module(polarisodmproxy, 1.0);

gen_require('
    type polaris_odm_proxy_t;
')

polaris_btrace_data_manage(polaris_odm_proxy_t)
polaris_crft_data_manage(polaris_odm_proxy_t)
polaris_chasfs_manage(polaris_odm_proxy_t)
polaris_tdlresolve_read(polaris_odm_proxy_t)
polaris_tdlldb_list_dirs(polaris_odm_proxy_t)
polaris_cpld_read(polaris_odm_proxy_t)
polaris_lua_read(polaris_odm_proxy_t)
polaris_flashlib_read(polaris_odm_proxy_t)
polaris_ripc_sman_ui_serv_connect(polaris_odm_proxy_t)
polaris_db_tdlldb_dir_use(polaris_odm_proxy_t)

#allow to setrlimit
allow polaris_odm_proxy_t self:capability sys_resource;
allow polaris_odm_proxy_t self:process setrlimit;
allow polaris_odm_proxy_t self:capability dac_override;

polaris_odm_clnt2svr_mqipc_create(polaris_odm_proxy_t)

Found in path(s):
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#
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#

### <summary>Polaris issu_monitor Policy Rules.</summary>
########################################
### <summary>
### Execute issumonitor in the polaris_issu_monitor domain.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
interface(`polaris_issu_monitor_domtrans',
   gen_require(`
        type polaris_issu_monitor_t, polaris_issu_monitor_exec_t;
   `)
)

domtrans_pattern($1, polaris_issu_monitor_exec_t, polaris_issu_monitor_t)
')

No license file was found, but licenses were detected in source scan.

dnl
dnl May 2018, Victor Kamensky
dnl
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dnl
dnl Place holder to let selinux-policy makefile know that this module
dnl is autigenerated, but we have different rules for it

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.if

No license file was found, but licenses were detected in source scan.

dnl
dnl
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#
policy_module(polariskeyman, 1.0);

gen_require(
    type polaris_keyman_t;
    
    polaris_btrace_data_manage(polaris_keyman_t)
polaris_crft_data_manage(polaris_keyman_t)
polaris_chasfs_manage(polaris_keyman_t)
polaris_tdlresolve_read(polaris_keyman_t)
polaris_tldlb_list_dirs(polaris_keyman_t)
polaris_flashlib_read(polaris_keyman_t)
polaris_ripc_sman_ui_serv_connect(polaris_keyman_t)

allow polaris_keyman_t self:capability net_admin;
# keyman utilizes secure memory via ciscossllibcrypto.so (mlock)
allow polaris_keyman_t self:capability ipc_lock;
polaris_cpld_read(polaris_keyman_t)

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`quake_platform',`
    dev_read_sysfs(polaris_keyman_t)
    
    # __get_nprocs opens /sys/devices/system/cpu/online
    ifdef(`supernova_platform',`
        dev_read_sysfs(polaris_keyman_t)
    
    Found in path(s):
    * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.te
No license file was found, but licenses were detected in source scan.

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#

# polaristamdrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.fc
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#
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#

# /bootflash labels

/bootflash(/.*)?  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?  gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\pub  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf  gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf  gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /vol/bootflash4 labels

/vol/bootflash4(/.*)?  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/vol/bootflash4/csl_p_0(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/vol/bootflash4/csl_p_1(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/vol/bootflash4/csl_s_0(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/vol/bootflash4/csl_s_1(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/vol/bootflash4/obfl_.*  gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /harddisk labels

/vol/harddisk(/.*)?  gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk_internal(/.*)?  gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/debug.conf  gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/vol/harddisk/internal/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/internal/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/internal/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/packages.conf  gen_context(system_u:object_r:polaris_packages_conf_t,s0)
# on 1ng persistent storage arranged differently
/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

/vol/disk0(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /init is symbolic link to /lib/systemd/systemd
/init -l gen_context(system_u:object_r:init_exec_t,s0)
# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# scooby device
/dev/scooby -c gen_context(system_u:object_r:polaris_scooby_device_t,s0)

# spa devices handled by sys_platform driver
/dev/spa0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa1 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa2 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa3 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/iocp0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)

# htdp devices
/dev/htdp[0-9]* -c gen_context(system_u:object_r:polaris_htdp_device_t,s0)

# /dev/epa device on asr1k(mcp)
/dev/epa[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)
/dev/epactrl[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)

# /dev/luna_fpga on asr1k(mcp)
/dev/luna_mbfpga -c gen_context(system_u:object_r:polaris_luna_mbfpga_device_t,s0)

# /dev/dash_fpga device on fugazi(mcp)
/dev/dash_fpga -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc0 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)

# /dev/astro on asr1k(mcp)
/dev/astro -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

# /dev/oob_evfc on asr1k(mcp)
/dev/oob_evfc -c gen_context(system_u:object_r:polaris_oob_evfc_device_t,s0)

# /dev/cpp_il on asr1k(mcp)
/dev/cpp_il -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)
/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.fc
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dnl

dnl April 2018, Victor Kamensky

dnl

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dnl define(`max_bay_map', `defn(format(``max_bay_map[%s-%s]'', `$1', `$2'))')
dnl define(`max_bay_map_set', `define(format(``max_bay_map[%s-%s]'', `$1', `$2'), `$3'))')

define(`max_elastic_map', `defn(format(``max_elastic_map[%s-%s-%s]'', `$1', `$2', `$3'))')
define(`max_elastic_map_set', `define(format(``max_elastic_map[%s-%s-%s]'', `$1', `$2', `$3'), `$4'))')

define(`max_scope_map', `ifelse($2, `elastic', `max_elastic_map($1, $2, $3)', `max_bay_map($1, $2)'))

dnl RICP scope handling

define(`min_bay_ripc_map', `defn(format(``min_bay_ripc_map[%s-%s]'', `$1', `$2'))')
define(`min_bay_ripc_map_set', `define(format(``min_bay_ripc_map[%s-%s]'', `$1', `$2'), `$3'))')

define(`min_elastic_ripc_map', `defn(format(``min_elastic_ripc_map[%s-%s-%s]'', `$1', `$2', `$3'))')
define(`min_elastic_ripc_map_set', `define(format(``min_elastic_ripc_map[%s-%s-%s]'', `$1', `$2', `$3'), `$4'))')

define(`min_scope_ripc_map_aux', `ifelse($2, `elastic', `min_elastic_ripc_map($1, $2, $3)', `min_bay_ripc_map($1, $2)'))
define(`min_scope_ripc_map', `ifelse(min_scope_ripc_map_aux($1, $2, $3), `', 0, min_scope_ripc_map_aux($1, $2, $3)'))

define(`max_bay_ripc_map', `defn(format(``max_bay_ripc_map[%s-%s]'', `$1', `$2'))')
define(`max_bay_ripc_map_set', `define(format(``max_bay_ripc_map[%s-%s]'', `$1', `$2'), `$3'))')

define(`max_elastic_ripc_map', `defn(format(``max_elastic_ripc_map[%s-%s-%s]'', `$1', `$2', `$3'))')
define(`max_elastic_ripc_map_set', `define(format(`\text{max_elastic_ripc_map}[^{}-%{}-%{}-%{}][\$1, \$2, \$3, \$4]')

define(`max_scope_ripc_map_aux', `ifelse($2, `elastic', `max_elastic_ripc_map($1, $2, $3)',
  `max_bay_ripc_map($1, $2))')

define(`max_scope_ripc_map', `ifelse(max_scope_ripc_map_aux($1, $2, $3), `', 0, max_scope_ripc_map_aux($1, $2, $3))')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_max_scope.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris periodic Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.if
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
#
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#

## <summary>Polaris service_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisservicemgr.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polariscommon, 1.0);

############################################################
# Polaris common
# domain that holds all polaris processes
attribute polaris_domain;

# domain that holds all polaris processes executables
attribute polaris_exec_domain;

# domain that holds all polaris processes plus few base types that operates on # during system start, like initc_t and unconfined_service_t. Please remove # unconfined types latter.
attribute polaris_extended_domain;

gen_require(`
  type unconfined_t;
  type unconfined_service_t;
  type initc_t;
  type init_t;
`)

typeattribute unconfined_t polaris_extended_domain;
typeattribute unconfined_service_t polaris_extended_domain;
typeattribute initc_t polaris_extended_domain;
typeattribute init_t polaris_extended_domain;

# common permissions that are safe to grant and hard to root cause.
# these permissions may need to be turned off during development or tightened # in future releases
gen_require(`
  attribute domain;
`)

# sys_resource denial is seen due to disk full issue
# and possibly FD exceeding limit
allow domain self:capability sys_resource;

# When management interface is enabled for development Polaris device can be # access by telnet, which directly drops into shell. It would be desirreably # to remove telnet functionality att all. But for now we need transition # rule to get shell running in unconfined domain.
gen_require(`
  type telnetd_t;
`)

canonical_shell_domtrans(telnetd_t)
# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/sbin/in.telnetd
# -L /usr/binos/conf/brelay.sh
# - this needs read/write/create access to /tmp/rp/trace/_*.bin.tmp
# which later gets renamed to /tmp/rp/trace/telnetd_service_sh_*.bin
polaris_btrace_data_manage(telnetd_t)
# mcp_telnetd_init through btrace_application_start calls get_chassis_number
# so it needs chasfs access
polaris_chasfs_read(telnetd_t)
polaris_cpld_read(telnetd_t)
polaris_btrace_lvl_config_manage(telnetd_t)

# LOOK AT ME: rsync needs sys_admin capability
# only seen when we boot in enforcing mode, localtime glibc library call
# needs time zone information and through __tz_convert function it eventually
# calls syspage function and that in turns calls Cisco syspage related
# prctl that is protected by CAP_ADMIN now

gen_require("
      type rsync_t;
        
      )
allow rsync_t self:capability sys_admin;

# mount_packages.sh systemd unit runs under init_t and it leaks unix socket

gen_require("
      type rsync_t;
      type init_t;
        
      )
allow rsync_t init_t:unix_stream_socket getattr;

# LOOK AT ME: auditd needs sys_admin capability
# only seen when we boot in enforcing mode, denials happens upon exec of
# auditdsp why is not entirely clear

gen_require("
      type auditd_t;
        
      )
allow auditd_t self:capability sys_admin;

# LOOK AT ME:
# Because Cisco kernel features check for capability sys_admin
# before granting access to it. It turns out to be mistake because
# in SELinux universe beeing root does not meen one have sys_admin
# capability. For now grant sys_admin capability to everyone :(

gen_require("
      attribute domain;
        
      )
allow domain self:capability sys_admin;
# LOOK AT ME:
# all polaris SMU system is based on LD_LIBRARY_PATH passing from
# parent to child, but if auxv AT_SECURE would be set to 1, glibc
# will clean LD_LIBRARY_PATH and other environment variables when
# it execve another process. We need to grant noatsecure to all
# processes
gen_require(`
    attribute domain;
')
allow domain:process { noatsecure rlimitinh };

# nfs server exporting some directories like /harddisk
gen_require(`
    type nfsd_t;
')
polaris_disk_bootflash_read_lnk(nfspd_t)
polaris_harhdisk_read(nfspd_t)

# nfs server check hugetlbfs files system
gen_require(`
    type hugetlbfs_t;
')
list_dirs_pattern(nfspd_t, hugetlbfs_t, hugetlbfs_t)

# temporarily addressing denial,
# preferable to turn on nfs_export_all_rw/ro boolean
gen_require(`
    type removable_t;
')
list_dirs_pattern(nfspd_t, removable_t, removable_t)

# firmware type
type polaris_firmware_t;
files_type(polaris_firmware_t)

# some systemd unit creates /firmware directory in initramfs
gen_require(`
    attribute domain;
    type root_t;
')
filetrans_pattern(domain, root_t, polaris_firmware_t, dir, "firmware")

# handling /tmp/debug.conf, created by systemd unit
gen_require(`
    type polaris_debug_conf_t;
    type unconfined_service_t;
')
files_tmp_filetrans(unconfined_service_t, polaris_debug_conf_t, {file lnk_file}, "debug.conf")
# /tmp/etc files; serving as /etc like but sitting in mutable storage
# (assuming that real /etc would become read-only eventually)
type polaris_etc_t;
files_type(polaris_etc_t);

# /tmp/sv files
type polaris_sv_tmp_t;
files_tmp_file(polaris_sv_tmp_t)

# /dev/i2c-N
type polaris_i2c_device_t;
dev_node(polaris_i2c_device_t)

# remap_mem0 device
type polaris_remap_mem_device_t;
dev_node(polaris_remap_mem_device_t)

type polaris_ebf_t;
files_type(polaris_ebf_t)

# allow all domains map/read ebf files
gen_require(`
    attribute domain;
  `)
polaris_ebf_map(domain)

# btrace files for telnetd, since telnetd is open source label
# and it does not use our domain creation template
gen_require(`
    type telnetd_t;
  `)
type polaris_telnetd_bt_t;
polaris_btrace_data_type(polaris_telnetd_bt_t)
polaris_btrace_data_client(telnetd_t, polaris_telnetd_bt_t)

type polaris_telnetd_maroon_t;
polaris_maroon_data_type(polaris_telnetd_maroon_t)
polaris_maroon_data_client(telnetd_t, polaris_telnetd_maroon_t)

##########################################################################

# "install add file" on ULTRA invokes:
#    /tmp/sw/rp/0/0/rp_security/mount/usr/binos/sbin/in.telnetd -L /usr/binos/conf/brelay.sh
# That needs getattr on /lib/systemd/system/ksm.service
polaris_ksm_run_check(telnetd_t)

# restorecon needs sys_resource capability
gen_require(`
type setfiles_t;
')
allow setfiles_t self:capability sys_resource;

# accessing /sys/firmware/dmi/tables/DMI
gen_require('  
    type dmidecode_t;
    type sysfs_t;
  ')
mmap_files_pattern(dmidecode_t, sysfs_t, sysfs_t)
gen_require('  
    type dmidecode_t;
    type memory_device_t;
  ')
allow dmidecode_t memory_device_t:chr_file map;
# called by confd_t label with it is file as stdin
polaris_conf_key_use_fifo(dmidecode_t)

# rpcbind binds to port
gen_require('  
    type rpcbind_t;
  ')
corenet_udp_bind_generic_port(rpcbind_t)

# when polaris_unconfined we need to mark all subject labels except
# iosd lable to run as unconfined
ifdef('polaris_unconfined','
gen_require('  
    type auditd_t;
    type dhcpcd_t;
    type getty_t;
    type inetd_t;
    type initrc_t;
    type init_t;
    type journalctl_t;
    type nfsd_t;
    type ntpd_t;
    type rpcbind_t;
    type rped_t;
    type rsync_t;
    type setfiles_t;
    type sshd_t;
    type syslogd_t;
    type system_dbusd_t;
    type udev_t;
    type virtd_t;
    type virtlogd_t;
    type ldconfig_t;
type hostname_t;
)
unconfined_domain(auditd_t)
unconfined_domain(dhcpc_t)
unconfined_domain(getty_t)
unconfined_domain(inetd_t)
unconfined_domain(initre_t)
unconfined_domain(init_t)
unconfined_domain(journalctl_t)
unconfined_domain(nfsd_t)
unconfined_domain(ntpd_t)
unconfined_domain(rpcbind_t)
unconfined_domain(rpcd_t)
unconfined_domain(rsync_t)
unconfined_domain(setfiles_t)
unconfined_domain(sshd_t)
unconfined_domain(syslogd_t)
unconfined_domain(system_dbusd_t)
unconfined_domain(udev_t)
unconfined_domain(virt_t)
unconfined_domain(virtlogd_t)
unconfined_domain(ldconfig_t)
unconfined_domain(hostname_t)
)

ifdef("polaris_unconfined","
optional_policy("
   gen_require("
      type container_runtime_t;
   ")
   unconfined_domain(container_runtime_t)
")
")

#/tmp/rsync_log_dir files
type polaris_rsync_tmp_t;
files_tmp_file(polaris_rsync_tmp_t)

# activate correct named transition for basic directories
# when code runs under unconfined_service_t, i.e. calls ip
# command that runs under ifconfig_t and creates /run/netns
gen_require("
   type unconfined_service_t;
")
domain_named_filetrans(unconfined_service_t)
gen_require("
   type ifconfig_t;
   type ifconfig_var_run_t;
allow ifconfig_t ifconfig_var_run_t:dir mounton;

# earlier invocation of ifconfig complains about tmp_t mounton
# on /sys directory
gen_require('   type tmp_t;')
allow ifconfig_t tmp_t:dir mounton;

#SERDES library stores info in /tmp/serdes_asic_key_dir/*
type polaris_serdes_asic_key_tmp_t;
files_tmp_file(polaris_serdes_asic_key_tmp_t)

# /dev/shm/vrf_shm access
type polaris_vrf_shm_t;
files_type(polaris_vrf_shm_t)

# /dev/shm/cerrno_dll access
type polaris_cerr_shm_t;
files_tmpfs_file(polaris_cerr_shm_t)

# for /sbin/ip: /dev/shm/vrf_shm access in netns creation
gen_require('   type ifconfig_t;')
polaris_vrf_shm_manage(ifconfig_t)

# for /sbin/ip: adds lfts device in netns creation
polaris_lfts_dev_use(ifconfig_t)

# new systemd-tmpfiles needs this permissions
gen_require('   type systemd_tmpfiles_t;')
allow systemd_tmpfiles_t self:capability sys_resource;
allow systemd_tmpfiles_t self:process setrlimit;

gen_require('   type unconfined_service_t;')
ssh_initrc_domtrans(unconfined_service_t)

#wlc awips
type polaris_awips_signature_file_t;
polaris_pfile_type(polaris_awips_signature_file_t)

# /usr/bin/curl
type polaris_curl_t;
type polaris_curl_exec_t;
init_system_domain(polaris_curl_t, polaris_curl_exec_t)
corenet_udp_bind_generic_node(polaris_curl_t)
auth_use_nsswitch(polaris_curl_t)
polaris_crft_data_read(polaris_curl_t)

# for ip netns exec X curl
optional_policy("
  polaris_curl_domtrans(ifconfig_t)
"
)

# /etc/init.d/sshd that runs under init_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically symlink to /bootflash
gen_require(
  type init_t;
  type ssh_home_t;
)
polaris_bootflash_filetrans(init_t, ssh_home_t, dir, ",.ssh")

# /tmp/ldwm_envelope file
type polaris_ldwm_envelope_tmp_t;
files_tmp_file(polaris_ldwm_envelope_tmp_t)
gen_require(
  type init_t;
  type init_t;
)
files_tmp_filetrans({ init_t init_t }, polaris_ldwm_envelope_tmp_t, file, "ldwm_envelope")

# CLI: show platform software tech-support
polaris_utility_domain_template(tech_support)
polaris_bexecute_domain(polaris_tech_support_t, polaris_tech_support_exec_t)
polaris_bexecute_domtrans(polaris_tech_support_t)

# allow to run readlink -f /usr/binos/conf/psimple.sh
corecmd_exec_bin(polaris_tech_support_t)

# Additional policies needed for workflow
auth_use_nsswitch(polaris_tech_support_t)
dev_list_sysfs(polaris_tech_support_t)
polaris_chasfs_read(polaris_tech_support_t)
polaris_cpld_read(polaris_tech_support_t)

# scripts stdin is set by hman and needs access to pipes like pipe:[271524]
polaris_hman_use_fifo(polaris_tech_support_t)

# Allow Is to /tmp/ufs/crashinfo
optional_policy(
    polaris_ncl_tmp_read(polaris_tech_support_t)
)

# Allow readlink to /usb0 and /usb1
optional_policy(
    fs_read_removable_symlinks(polaris_tech_support_t)
)

gen_require(
    type polaris_btrace_tmppub_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_crashinfo_t;
)

# platform_tech_support.sh creates misc files/dirs under /tmp/tmppub
type polaris_tech_support_tmppub_t;
files_tmpp_file(polaris_tech_support_tmppub_t)
filetrans_pattern(polaris_tech_support_tmppub_t, polaris_btrace_tmppub_t, polaris_tech_support_tmppub_t, { file dir })
# misc file directly in /tmp like /tmp/esg_tech_support_command_file_out.txt
files_tmpp_filetrans(polaris_tech_support_tmppub_t, polaris_tech_support_tmppub_t, file, 
"esg_tech_support_command_file_out.txt")
files_tmpp_filetrans(polaris_tech_support_tmppub_t, polaris_tech_support_tmppub_t, file, 
"sdwan_tech_support_command_file_out.txt")
manage_files_pattern(polaris_tech_support_tmppub_t, polaris_tech_support_tmppub_t, polaris_tech_support_tmppub_t)
manage_dirs_pattern(polaris_tech_support_tmppub_t, polaris_tech_support_tmppub_t, polaris_tech_support_tmppub_t)

#/bootflash/certs
type polaris_ap_cert_file_t;
files_type(polaris_ap_cert_file_t)
polaris_pfile_type(polaris_ap_cert_file_t)

# Additional policies needed for workflow when file option is used
# show platform software tech-support file bootflash:show_tech_file
polaris_bootflash_manage(polaris_tech_support_t)
polaris_disk_crashinfo_manage(polaris_tech_support_t)
fs_getattr_tmpfs(polaris_tech_support_t)
polaris_btrace_persistent_data_read(polaris_tech_support_t)

type polaris_rommon_info_tmppub_t;
files_tmpp_filetrans(inittc_t, polaris_rommon_info_tmppub_t, file, "existing_rommon_info")
manage_files_pattern(inittc_t, polaris_rommon_info_tmppub_t, polaris_rommon_info_tmppub_t)
fs_associate_tmpfs(polaris_rommon_info_tmppub_t)

# tamlib debug file
type polaris_tamlib_dbg_file_t;
polaris_pfile_type(polaris_tamlib_dbg_file_t)
# read /proc/cmdline
kernel_read_system_state(polaris_tech_support_t)
# read rmmonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_tech_support_t)
# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_tech_support_t)

# /dev/ddr
type polaris_ddr_device_t;
dev_node(polaris_ddr_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl Ripc Base Interface Map: track that type declations unique
define(`ripc_base_type_map', `defn(format(``ripc_base_type_map[%s]', `$1'))')
define(`ripc_base_type_map_set', `define(format(``ripc_base_type_map[%s]', `$1'), `$2'))

define(`ripc_base_port_map', `defn(format(``ripc_base_port_map[%s]', `$1'))')
define(`ripc_base_port_map_set', `define(format(``ripc_base_port_map[%s]', `$1'), `$2'))

define(`polaris_ripc_portcon',`polaris_ripc_portcon tcp $1 gen_context(system_u:object_r:$2,s0))
define(`polaris_ripc_portcon_aux',`polaris_ripc_portcon_aux eval($2 + $3), $1)
difelse(ripc_base_port_map($1), `', `polaris_ripc_portcon($1, $2))
ripc_base_port_map_set($1, $2)
')
define(`polaris_ripc_portcon_many',`polaris_ripc_portcon_many($1, $2))
difelse($4, $3, `', `polaris_ripc_portcon_many($1, $2, eval($3 + 1), $4'))

define(`polaris_ripc_service_server_full',`polaris_ripc_service_server_full($1, $2, $3, $4))
difelse($4, $3, `', `polaris_ripc_service_server_full($1, $2, $3, eval($4 + 1), $5, min_scope_ripc_map))

define(`polaris_ripc_service_server_aux',`polaris_ripc_service_server_aux($1, $2, $3, $4))
max_scope_ripc_map($3, $4, $2))
')

define('polaris_ripc_service_server', 'n
ifelse(ripc_base_type_map($1), ', 'polaris_ripc_service_server_full($1, $2, $3, $4, $5))
ripc_base_type_map_set($1, 1)
')

define('polaris_ripc_service_client', 'n
ifelse(ripc_base_type_map($1), ', 'polaris_ripc_service_server_full($1, $2, $3, $4, $5))
ripc_base_type_map_set($1, 1)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_te.m4
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# # March 2017, Victor Kamensky
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#
## <summary>Polaris ngwc_plfm_mgr Policy Rules.</summary>

##########################################################################
## <summary>
## Read /tmp/installer files and directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## <param>
#
interface('polaris_ngwc_plfm_mgt_tmp_manage',
    gen_require('*
        type polaris_ngwc_plfm_mgt_tmp_t;
    ')
    manage_dirs_pattern($1, polaris_ngwc_plfm_mgt_tmp_t, polaris_ngwc_plfm_mgt_tmp_t, polaris_ngwc_plfm_mgt_tmp_t, polaris_ngwc_plfm_mgt_tmp_t)
    manage_files_pattern($1, polaris_ngwc_plfm_mgt_tmp_t, polaris_ngwc_plfm_mgt_tmp_t, polaris_ngwc_plfm_mgt_tmp_t, polaris_ngwc_plfm_mgt_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.if
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#

### <summary>Polaris dmi_dmiauthd Policy Rules.</summary>

```
# Connect to and send messages to dmiauthd.
# tmp/.DmiAuth.sock unix datagram sockets.
#</summary>
#
# <param name="domain">
# Domain allowed access.
#</param>
#
interface('polaris_dmi_dmiauthd_dgram_send',
    gen_require(
        type polaris_dmi_dmiauthd_t;
        type polaris_dmi_dmiauthd_tmp_t;
    )
    allow $1 self:unix_stream_socket {create_socket_perms};
    allow $1 polaris_dmi_dmiauthd_t:unix_stream_socket { connectto };
    write_sock_files_pattern($1, polaris_dmi_dmiauthd_tmp_t,polaris_dmi_dmiauthd_tmp_t)
)
```

### <summary>Manage dmiauthd fifo files</summary>

```
# Manage dmiauthd fifo files
#
# <param name="domain">
# Domain allowed access.
#
interface('polaris_dmiauthd_tmp_manage',
    gen_require(
        type polaris_dmi_dmiauthd_tmp_t;
        type tmp_t;
    )
    manage_fifo_files_pattern($1, tmp_t, polaris_dmi_dmiauthd_tmp_t)
)```
### <summary>
## Write into fifo file created by dmiauthd, typical case when
## dmiauthd starts script under popen.
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
#
interface('polaris_dmiauthd_use_fifo',`
    gen_require(`
        type polaris_dmi_dmiauthd_t;
    `)
    write_fifo_files_pattern($1, polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_t)
`)

### <summary>
## Manage /tmp/netconf-yang-diag/ files
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
##<rolebase/>
#
interface('polaris_dmiauthd_tmp_diags_manage',`
    gen_require(`
        type polaris_dmi_dmiauthd_tmp_diags_t;
    `)
    manage_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
    manage_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
    manage_lnk_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
`)

### <summary>
## Read /tmp/netconf-yang-diag/ files
### </summary>
### <param name="domain">
## Domain allowed access.
### </summary>
interface('polaris_dmiauthd_tmp_diags_read',
    gen_require(
        type polaris_dmi_dmiauthd_tmp_diags_t;
    ')
    read_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
    list_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
    read_lnk_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmiauthd.if
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# # March 2019, Shikhar Dogra
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#
#
# polarisfmancc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.fc
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dnl
define('lipc_stem', `translit(patsubst($1, `-lipc$', `'), `-', `_')')
define('lipc_label', `format(`polaris_%s_lipc_t', lipc_stem($1))')

dnl Lipc Type Map: track that type declations unique
define('lipc_type_map', `defn(format(`%s_lipc_t', `lipc_stem($1))')
define('lipc_type_map_set', `define(format(`%s_lipc_t', `lipc_stem($1))')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc.m4
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# # February 2020, Victor Kamensky
policy_module(polariscfgmgr, 1.0);

gen_require(
  type polaris_cfgmgr_t;
')
polaris_chasfs_manage(polaris_cfgmgr_t)
# read day0_oper.xml and write local.data.tmp
polaris_bootflash_manage(polaris_cfgmgr_t)
polaris_boot_tmp_read(polaris_cfgmgr_t)
polaris_cpld_read(polaris_cfgmgr_t)
polaris_tdlresolve_read(polaris_cfgmgr_t)
polaris_flashlib_read(polaris_cfgmgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_cfgmgr_t)
polaris_db_tdlldb_dir_use(polaris_cfgmgr_t)

logging_send_syslog_msg(polaris_cfgmgr_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_cfgmgr_t)

polaris_cedge_reset_ns(polaris_cfgmgr_t)
polaris_cedge_etc_manage(polaris_cfgmgr_t)

# /etc/version is opened via "show sdwan version"
polaris_confd_etc_read(polaris_cfgmgr_t)

# /var/run/.cfgmgr socket and pid
type polaris_cfgmgr_var_run_t;
files_pid_file(polaris_cfgmgr_var_run_t)
manage_files_pattern(polaris_cfgmgr_var_run_t, polaris_cfgmgr_var_run_t, polaris_cfgmgr_var_run_t)
manage_sock_files_pattern(polaris_cfgmgr_var_run_t, polaris_cfgmgr_var_run_t, polaris_cfgmgr_var_run_t)
files_pid_filetrans(polaris_cfgmgr_var_run_t, polaris_cfgmgr_var_run_t, { file sock_file })

# sets up symbloc link /var/run/netns/default to pid 1 netns
sysnet_manage_ifconfig_run(polaris_cfgmgr_t)

# PLEASE LOOK AT ME create_syslog_conf_file function in
# viptela/cfgmgr/cfgmgr_logging.c creates /etc/syslog.conf.sysklogd file
# that nobody uses in polaris
files_manage_etc_files(polaris_cfgmgr_t)
# in cfgmgr_vpn_namespace_add creates udp socket
allow polaris_cfgmgr_t self:udp_socket create_socket_perms;

# watch /bootflash/sdwan/day0_oper.xml
polaris_persistent_watch(polaris_cfgmgr_t)

# compute_available_memory executes `/bin/df /dev/shm`
corecmd_exec_bin(polaris_cfgmgr_t)
# vip_binos_cpuinfo calls sysconf
dev_read_sysfs(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem collects SDWAN_DISK_MOUNT (/bootflash) fs info
fs_getattr_xattr_fs(polaris_cfgmgr_t)
# crashlist_refresh collects info about corefiles
polaris_core_file_read(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem collects info about /bootflash/.installer fs
polaris_disk_install_read(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem() collects available mem info by executing
# `/bin/df /tmp/rp/tdldb`
polaris_tdldb_list_dirs(polaris_cfgmgr_t)

# vip_binos_cpuinfo() performs file operations on PROC_CPUSTAT_FILE (/proc/stat)
polaris_disk_install_fs_getattr(polaris_cfgmgr_t)
# vip_binos_meminfo() reads PROC_MEMINFO_PATH (/proc/meminfo)
kernell_read_system_state(polaris_cfgmgr_t)

# configure ip address on system interface on vrf 1
sysnet_domtrans_ifconfig(polaris_cfgmgr_t)

# create tunnel interface in cfgmgr_tun_alloc function
corenet_rw_tun_tap_dev(polaris_cfgmgr_t)
allow polaris_cfgmgr_t self:tun_socket create;

# works if /proc accept_source_route file of system interface
kernel_rw_net_sysctls(polaris_cfgmgr_t)

# work with /tmp/xml/geostats
polaris_cedge_xml_tmp_manage(polaris_cfgmgr_t)

# work with /tmp/tmp/geostats
polaris_cedge_tmp_manage(polaris_cfgmgr_t)
allow polaris_cfgmgr_t self:process setpgid;

# map on /etc/passwd
auth_map_passwd(polaris_cfgmgr_t)

# give read permissions for /tmp/GPS_supported file created by iosd
polaris_iosd2iox_tmp_read(polaris_cfgmgr_t)
dnl
May 2018, Manohar Hungund
dnl
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dnl
Starfleet Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`bp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 1)
max_bay_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`bp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 1)
max_bay_ripc_map_set(`bp', `per_bay', 1)
max_bay_ripc_map_set(`cc', `per_bay', 1)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`bp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 1)
max_bay_ripc_map_set(`bp', `global', 1)
max_bay_ripc_map_set(`cc', `global', 1)
max_bay_ripc_map_set(`fp', `global', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/bigbangmaps.m4
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dnl

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dnl Nyquist Platform Max Bay Limits
max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 0)
max_bay_map_set('fp', 'per_bay', 0)

max_elastic_map_set('rp', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('cc', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('fp', 'elastic', BPROC_ODM, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/quake2maps.m4

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#
# August 2017, Shawn Lu
#
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#
#
# polarisodmproxy file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodmproxy.fc

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# August 2017, Shawn Lu
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#
## <summary>Polaris rif_mngr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrifmgr.if
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#
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#
#
# August 2018 Man-Yee Hau
#
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/usr/cpp/bin/qfp-ucode-csr -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csr-us -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csx -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-c8kv -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-wlc -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-utah -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tns -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tns-le -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-supernova -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-blackheart -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-sparrow -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-ventus -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-cabo -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-goldbeach -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-radium -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-fugazi -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-sumatra -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-nanook -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csr-fb -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/var/run/.rte_config -- gen_context(system_u:object_r:polaris_qfp_var_run_t,s0)

/dev/netmap -c gen_context(system_u:object_r:polaris_netmap_device_t,s0)
/dev/svc_eng_punt[0-9]* -c gen_context(system_u:object_r:polaris_sep_device_t,s0)

# qfp memif interfaces
/bootflash/SHARED-IOX/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)
/tmp/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)

# CSR & C8KV infiniband devices for Azure
/dev/infiniband/uverbs[0-9]* -c gen_context(system_u:object_r:polaris_infiniband_device_t,s0)

/etc/rc.d/init.d/iodbd\sh -- gen_context(system_u:object_r:polaris_iodbd_exec_t,s0)
# For Intel quickassist (qat) v1.7 - Note that mcp_family also includes this.
# fugazi uses polarismpc.fc and polarisqfp.fc so need to exclude it here.
ifndef(`mcp_family',

/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s)
')

# For platforms which use Intel quickassist (qat) v1.7
/dev/usdm_drv          -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_adf_ctl       -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# For platforms which use the musdk from the Marvell 10.3.x.x SDK
/dev/musdk-cma         -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.fc
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#
/usr/binos/conf/telnetd_service.sh -- gen_context(system_u:object_r:polaris_tservice_telnet_exec_t,s0)
/usr/binos/conf/sshd_service.sh -- gen_context(system_u:object_r:polaris_tservice_ssh_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.fc
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#
/usr/binos/conf/rollback_timer.sh -- gen_context(system_u:object_r:polaris_rbtimer_exec_t,s0)
/bootflash/rollback_timer(/.*?)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/tmp/rp/rollback_timer(/.*?)? gen_context(system_u:object_r:polaris_rbtimer_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.fc
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dnl
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dnl Katar WLC Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 3)
max_bay_ripc_map_set(`fp', `global', 0)

in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 7)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/katarmaps.m4

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#
#
# polariscontainer file contexts place holder
# All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf for docker
# Expected labels for docker as per container.fc

/bootflash/docker(/.*)?                      gen_context(system_u:object_r:container_var_lib_t,s0)
/bootflash/docker/*/config\env               gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*/containers/*/log         gen_context(system_u:object_r:container_log_t,s0)
/bootflash/docker/*/containers/*/hostname    gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*/containers/*/hosts       gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*/init(/.*)?               gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*/overlay(/.*)?            gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/*/overlay2(/.*)?           gen_context(system_u:object_r:container_share_t,s0)

/bootflash/iox_alt_hdd_mount_dir/docker(/.*)?
gen_context(system_u:object_r:container_var_lib_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/*/config\env
gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/*/containers/*/log
gen_context(system_u:object_r:container_log_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/*/containers/*/hostname
gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/*/containers/*/hosts
gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/*/init(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/*/overlay(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/*/overlay2(/.*)?
gen_context(system_u:object_r:container_share_t,s0)

/mnt/sd3/docker(/.*)?                        gen_context(system_u:object_r:container_var_lib_t,s0)
/mnt/sd3/docker/*/config\env                 gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/*/containers/*/log           gen_context(system_u:object_r:container_log_t,s0)
/mnt/sd3/docker/*/containers/*/hostname      gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/*/containers/*/hosts         gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/*/init(/.*)?                 gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/*/overlay(/.*)?              gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/*/overlay2(/.*)?             gen_context(system_u:object_r:container_share_t,s0)

ifdef(`nyquist_platform',`
/mnt/sd3/iox_alt_hdd_mount_dir/docker(/.*)?
gen_context(system_u:object_r:container_var_lib_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*/config\env
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*/containers/*/log
gen_context(system_u:object_r:container_log_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*/containers/*/hostname
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*/containers/*/hosts
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*/init(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*/overlay(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*/overlay2(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
ifdef(`passport_platform',
    gen_context(system_u:object_r:container_var_lib_t,s0)
    /flash1/iox_alt_hdd_mount_dir/docker(/.*)?                        gen_context(system_u:object_r:container_var_lib_t,s0)
    /flash1/iox_alt_hdd_mount_dir/docker/*.config\env
    gen_context(system_u:object_r:container_share_t,s0)
    /flash1/iox_alt_hdd_mount_dir/docker/*.containers/*\.*\.log
    gen_context(system_u:object_r:container_log_t,s0)
    /flash1/iox_alt_hdd_mount_dir/docker/*.containers/*.hostname
    gen_context(system_u:object_r:container_share_t,s0)
    /flash1/iox_alt_hdd_mount_dir/docker/*.containers/*.hosts
    gen_context(system_u:object_r:container_share_t,s0)
    /flash1/iox_alt_hdd_mount_dir/docker/*.init(/.*)?
    gen_context(system_u:object_r:container_share_t,s0)
    /flash1/iox_alt_hdd_mount_dir/docker/*.overlay(/.*)?
    gen_context(system_u:object_r:container_share_t,s0)
    /flash1/iox_alt_hdd_mount_dir/docker/*.overlay2(/.*)?
    gen_context(system_u:object_r:container_share_t,s0)
    /
    /flash1/iox/docker(/.*)?
    gen_context(system_u:object_r:container_var_lib_t,s0)
    /flash1/iox/docker/*.config\env
    gen_context(system_u:object_r:container_share_t,s0)
    /flash1/iox/docker/*.containers/*\.*\.log
    gen_context(system_u:object_r:container_log_t,s0)
    /flash1/iox/docker/*.containers/*.hostname
    gen_context(system_u:object_r:container_share_t,s0)
    /flash1/iox/docker/*.containers/*.hosts
    gen_context(system_u:object_r:container_share_t,s0)
    /flash1/iox/docker/*.init(/.*)?
    gen_context(system_u:object_r:container_share_t,s0)
    /flash1/iox/docker/*.overlay(/.*)?
    gen_context(system_u:object_r:container_share_t,s0)
    /flash1/iox/docker/*.overlay2(/.*)?
    gen_context(system_u:object_r:container_share_t,s0)
    /
    /vol/harddisk/docker(/.*)?
    gen_context(system_u:object_r:container_var_lib_t,s0)
    /vol/harddisk/docker/*.config\env
    gen_context(system_u:object_r:container_share_t,s0)
    /vol/harddisk/docker/*.containers/*\.*\.log
    gen_context(system_u:object_r:container_log_t,s0)
    /vol/harddisk/docker/*.containers/*.hostname
    gen_context(system_u:object_r:container_share_t,s0)
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22704

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.fc

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#
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#

policy_module(polarissortfiles, 1.0);

gen_require(`
    type polaris_sort_files_t;
corecmd_exec_bin(polaris_sort_files_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_sort_files_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_sort_files_t)

polaris_btrace_data_manage(polaris_sort_files_t)
polaris_chasfs_manage(polaris_sort_files_t)
polaris_rmonbifo_tmp_read(polaris_sort_files_t)
polaris_read_debug_conf(polaris_sort_files_t)
polaris_persistent_getattr(polaris_sort_files_t)
polaris_persistent_list_dirs(polaris_sort_files_t)
polaris_cpld_read(polaris_sort_files_t)
polaris_capsule_upgrade_log_use(polaris_sort_files_t)
optional_policy('
polaris_gnmib_gnoi_images_read(polaris_sort_files_t)
')

# Dountaudit /bootflash/#lost+found avc denials
dontaudit polaris_sort_files_t polaris_disk:chr_file { getattr }
dontaudit polaris_sort_files_t polaris_disk:blk_file { getattr }

#allow polaris_sort_files_t polaris_udev_tmp_files_t:dir { getattr search }
polaris_udev_tmp_list_dirs(polaris_sort_files_t)

optional_policy('
polaris_iox_dir_list(polaris_sort_files_t)
')

polaris_sandbox_file_dir_list(polaris_sort_files_t)

polaris_disk_bootflash_read_link(polaris_sort_files_t)

polaris_disk_bootflash_fifo_file_getattr(polaris_sort_files_t)
polaris_disk_bootflash_sock_file_getattr(polaris_sort_files_t)

# allow search and read under /tmp/boot directory
polaris_boot_tmp_read(polaris_sort_files_t)

#allow manage the files under /tmp/sort
type polaris_sort_files_tmp_t;
files_tmp_file(polaris_sort_files_tmp_t)
files_tmp_filetrans(polaris_sort_files_t, polaris_sort_files_tmp_t, file)
manage_files_pattern(polaris_sort_files_t, polaris_sort_files_tmp_t, polaris_sort_files_tmp_t)

')
# for pluggable FS, allow sort to access files on them.
polaris_getattr_removable(polaris_sort_files_t)
polaris_removable_manage(polaris_sort_files_t)
fs_read_removable_symlinks(polaris_sort_files_t)

# to look at files sort_file sometime needs to violate DAC permissions
allow polaris_sort_files_t self:capability dac_read_search;

optional_policy(')
# LOOK AT ME memif sock_file interface present in /bootflash as
# /bootflash/SHARED-IOX/memif/memif-dp-svr, since class of the
# object is sock_file adding it to polaris_disk does not make much
# sense
gen_require('  
    type polaris_qfp_memif_t;
  ')
getattr_sock_files_pattern(polaris_sort_files_t, polaris_qfp_memif_t, polaris_qfp_memif_t)
')

# find runs fstatfs
fs_getattr_xattr_fs(polaris_sort_files_t)

# allow polaris_sort_files_t fs_t:filesystem getattrib
fs_getattr_all_fs(polaris_sort_files_t)

# with "/bootflash"...this needs attr to access for logfile
polaris_user_file_getattr(polaris_sort_files_t)

optional_policy(')
gen_require('  
    type polaris_efi_files_t;
  ')
#find /bootflash/-printf %i %p
allow polaris_sort_files_t polaris_efi_files_t:dir { getattrib open read search };  
#stat -c %i %f %s %n /bootflash/EFI/UpdateCapsule/UpdateCapsuleFile.bin
allow polaris_sort_files_t polaris_efi_files_t:file getattrib;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.te
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#
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#
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policy_module(polarisioxman, 1.0);

gen_require('  
    type polaris_ioxman_t;
')

polaris_btrace_data_manage(polaris_ioxman_t)
polaris_chasfs_manage(polaris_ioxman_t)
polaris_tdlresolve_read(polaris_ioxman_t)
polaris_tlddb_list_dirs(polaris_ioxman_t)
polaris_cpld_read(polaris_ioxman_t)
polaris_lua_read(polaris_ioxman_t)
polaris_flashlib_read(polaris_ioxman_t)
polaris_ripc_sman_ui_serv_connect(polaris_ioxman_t)
polaris_db_tlddb_dir_use(polaris_ioxman_t)

# allow access to /bootflash/iox/ files
polaris_iox_dir_search(polaris_ioxman_t)
corenets_tcp_connect_polaris_caf_api_port(polaris_ioxman_t)

# allow read permissions for /etc/hosts file
sysnet_read_config(polaris_ioxman_t)

domain_read_all_domains_state(polaris_ioxman_t)
corecmd_exec_bin(polaris_ioxman_t)
corecmd_exec_shell(polaris_ioxman_t)

# allow to run mount in its own domain: guestshell_set_netns.sh
# needs it; also, read and exec the set_netns script.
# ioxman_setup_guestshell_namespace invokes the script
# using NAMESPACE_COMMAND
mount_domtrans(polaris_ioxman_t)
polaris_guestshell_files_read(polaris_ioxman_t)
polaris_guestshell_exec_files_exec(polaris_ioxman_t)
# allow read of /etc/passwd
auth_use_nsswitch(polaris_ioxman_t)

# guestshell_set_netns.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_ioxman_t)
# ps needs access to proc_t
kernel_read_system_state(polaris_ioxman_t)

# modifies /bootflash/iox/iox_app/guestshell_iox.json
polaris_iox_files_manage(polaris_ioxman_t)

# guestshell_set_netns.sh touches /var/run/netns/guestshell
files_pid_filetrans(polaris_ioxman_t, polaris_guestshell_var_run_t, file, "guestshell")
polaris_guestshell_var_run_files_manage(polaris_ioxman_t)

# Read and write the all pty
term_use_generic_ptys(polaris_ioxman_t)

# allow ioxman_syslib.sh to set uid/gid for screen
allow polaris_ioxman_t self:capability { dac_override setgid setuid }

# ioxman execve virsh
gen_require(
    type virsh_t;
    type virsh_exec_t;
')
domtrans_pattern(polaris_ioxman_t, virsh_exec_t, virsh_t)
# virsh needs to write into /tmp/rp/trace/iox_guestshell.log
polaris_btrace_data_manage(virsh_t)

# ioxman is vman client over @vman_domain_socket socket
optional_policy(
    polaris_vman_use_client_socket(polaris_ioxman_t)
')

# ioxman uses VS_OPER_DB from virtual_services_tbl_init
polaris_tlddbpersist_setup(polaris_ioxman_t)
polaris_tmp_tlddb_persist_setup(polaris_ioxman_t)

# ioxman through libcurl library hit c-ares DNS code needs
# udp sockets access
allow polaris_ioxman_t self:udp_socket connect;

logging_send_syslog_msg(polaris_ioxman_t)

# read /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_ioxman_t)

virt_manage_sandbox_files(polaris_ioxman_t)

# handle ioxman /tmp files like /tmp/iox_xml.dat
type polaris_iox_tmp_t;
files_tmp_file(polaris_iox_tmp_t)
polaris_iox_manage_tmp_files(polaris_ioxman_t)

# by some strange reason ioxman munges files in /bootflash/tracelogs
# please see iox_tracefile_restore in ioxman/src/im_serial.c
polaris_btrace_persistent_data_manage(polaris_ioxman_t)

# virsh execved from ioxman inherits stdout from ioxman
gen_require(''
    type polaris_ioxman_bt_t;
    type virsh_t;
')
allow virsh_t polaris_ioxman_bt_t:file write;

optional_policy(''
gen_require(''
    attribute polaris_domain;
    attribute polaris_extended_domain;
    type container_runtime_t;
')
typeattribute container_runtime_t polaris_domain;
typeattribute container_runtime_t polaris_extended_domain;
')

#/usr/binos/conf/shell_exec.sh policy

polaris_utility_domain_template(iox_shell)

polaris_bexecute_domain(polaris_iox_shell_t, polaris_iox_shell_exec_t)
# shell_exec call bexec.sh
polaris_bexecute_domtrans(polaris_iox_shell_t)
corecmd_exec_bin(polaris_iox_shell_t)
polaris_chasfs_read(polaris_iox_shell_t)
auth_use_nsswitch(polaris_iox_shell_t)
fs_getattr_tmpfs(polaris_iox_shell_t)

mount_domtrans(polaris_iox_shell_t)

# inherit stdin from telnetd
telnet_use_ptys(polaris_iox_shell_t)

# create files under /bootflash/iox
polaris_irox_files_manage(polaris_irox_shell_t)

# executing guestshell.sh
polaris_guestshell_exec_files_exec(polaris_irox_shell_t)
polaris_guestshell_files_read(polaris_irox_shell_t)

# executing "ip netns exec guestshell /usr/bin/ssh ..."
sysnet_exec_ifconfig(polaris_irox_shell_t)
fs_read_nfs_files(polaris_irox_shell_t)
files_mounton_rootfs(polaris_irox_shell_t)
dev_mounton_sysfsfs(polaris_irox_shell_t)
allow polaris_irox_shell_t self:netlink_route_socket rw_netlink_socket_perms;
dev_mount_sysfs_fs(polaris_irox_shell_t)
dev_unmount_sysfs_fs(polaris_irox_shell_t)

# executing ssh
corenet_tcp_connect_ssh_port(polaris_irox_shell_t)
ssh_exec(polaris_irox_shell_t)
allow polaris_irox_shell_t self:tcp_socket { connect create getattr getopt setopt shutdown };

# ssh creates /root/.ssh directory
userdom_create_user_home_dirs(polaris_irox_shell_t)

# read /etc/guestshell_rsa_key
polaris_guestshell_key_read(polaris_irox_shell_t)

# work with sendbox files
polaris_sandbox_file_dir_list(polaris_irox_shell_t)
polaris_caf_var_run_files_manage(polaris_irox_shell_t)

# shell_exec.sh invokes:
# mkdir /tmp/shell_exec
# create /tmp/shell_exec/*
type polaris_irox2iosd_tmp_t;
files_tmp_file(polaris_irox2iosd_tmp_t)
files_tmp_filetrans(polaris_irox2iosd_tmp_t, dir, ".shell_exec")
files_tmp_filetrans(polaris_irox2iosd_tmp_t, polaris_irox2iosd_tmp_t, file)
# allow shell_exec to manage /tmp/.ncsshd_authorized_keys
polaris_ncsshd_keys_manage(polaris_irox_shell_t)
# allow shell_exec to manage /tmp/shell_exec/* files
polaris_irox2iosd_tmp_manage(polaris_irox_shell_t)
# allow shell_exec to work with files created by iosd
polaris_irox2iosd_tmp_manage(polaris_irox_shell_t)
ifdef(`nyquist_platform',
# Manage alternate hdd files
polaris_irox_alt_hdd_manage(polaris_irox_shell_t)
')
ifdef('passport_platform',
    "# Manage alternate hdd files
    polaris_iox_alt_hdd_manage(polaris_iox_shell_t)
"
)

allow polaris_iox_shell_t self:capability { chown dac_override fowner fsetid setgid setuid dac_read_search };  
allow polaris_iox_shell_t self:cap_userns sys_admin;  
allow polaris_iox_shell_t self:process setfscreate;

# LOOK AT ME very fishy iox_shell executes
# /bootflash/iox/repo-lxc/guestshell/rootfs_mnt/cisco/shell_exec.sh that
# actually can be modified from container itself. File is recreated
# each guestshell activation and it seems not executed afterwards.
# Grant access for now. Need to look closely whether it could be exploited
# in some way
virt_exec_sandbox_files(polaris_iox_shell_t)

# ip command called from iox_shell, running it under
# iox_shell domain, add required mounton on unlabled_t
files_mounton_isid(polaris_iox_shell_t)

# read guestshell net namespace file
fs_read_nsfs_files(polaris_ioxman_t)

# need to create /bootflash/gs_script/db.ini file
polaris_bootflash_manage(polaris_ioxman_t)
polaris_harddisk_manage(polaris_ioxman_t)

# run_ioxn_secure_dir.sh policy
gen_require(
    "type polaris_iox_secure_dir_t;
"
)
corecmd_exec_bin(polaris_iox_secure_dir_t)
auth_use_nsswitch(polaris_iox_secure_dir_t)
polaris_caf_files_read(polaris_iox_secure_dir_t)
polaris_chasfs_manage(polaris_iox_secure_dir_t)
polaris_bootflash_manage(polaris_iox_secure_dir_t)
polaris_harddisk_manage(polaris_iox_secure_dir_t)
polaris_iox_files_manage(polaris_iox_secure_dir_t)

# /bin/cat9k_ssd_auth_cmds.sh
polaris_utility_domain_template(ssd_auth)

corecmd_exec_bin(polaris_ssd_auth_t)
storage_getattr_fixed_disk_dev(polaris_ssd_auth_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_ssd_auth_t)

fs_getattr_tmpfs(polaris_ssd_auth_t)

# execute hdparam in its own domain
fstools_domtrans(polaris_ssd_auth_t)

polaris_use_btrace_fifo(polaris_ssd_auth_t)

type polaris_ssd_auth_tmp_t;
files_tmp_file(polaris_ssd_auth_tmp_t)
# bash tmp files like /tmp/sh-thd.kxX3sc
files_tmp_filetrans(polaris_ssd_auth_t, polaris_ssd_auth_tmp_t, file)
manage_files_pattern(polaris_ssd_auth_t, polaris_ssd_auth_tmp_t, file)
# /tmp/ssd_blk_device created by udev
gen_require(
    type udev_t;
    type tmpfs_t;
    type tmp_t;
')
filetrans_pattern(udev_t, {tmpfs_t tmp_t}, polaris_ssd_auth_tmp_t, file, "ssd_blk_device")
polaris_getattr_harddisk(polaris_ssd_auth_t)

fs_read_cgroup_files(polaris_ioxman_t)

# Allow ioxman to download package files using url
polaris_caf_tmp_files_manage(polaris_ioxman_t)
polaris_cli_fs_cmds_domtrans(polaris_ioxman_t)
# ufs information captured by the chasfs utils
optional_policy(
    polaris_ncd_tmp_read(polaris_ioxman_t)
')
gen_require(
    type polaris_fts_client_tmp_t;
')
manage_files_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
manage_dirs_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
allow polaris_ioxman_t tmp_t:file { create open unlink write };

# get_orchestration_template in cgroup_init_common.sh reads
# ovf-env.xml file from removable and varied
fs_read_removable_files(polaris_ioxman_t)
polaris_disk_varied_read(polaris_ioxman_t)

# writes into /tmp/trace/resource.log
optional_policy(
    polaris_vman_tmp_manage(polaris_ioxman_t)
# watch over /tmp/udev/etc/udev/usbflash1 in iox_media_chasfs_watch
polaris_udev_tmp_read(polaris_ioxman_t)
polaris_udev_tmp_watch(polaris_ioxman_t)

ifdef(`nyquist_platform',
    # Manage alternate hdd files
    polaris_iox_alt_hdd_manage(polaris_ioxman_t)
')

dev_getattr_fs(polaris_iox_shell_t)
kernell_read_system_state(polaris_iox_shell_t)

gen_require(
    type virt_lxc_var_run_t;
')

read_files_pattern(polaris_ioxman_t, virt_lxc_var_run_t, virt_lxc_var_run_t)

# sys_resource denial is seen even on factory reset
allow polaris_ioxman_t self:capability sys_resource;

ifdef(`passport_platform',
    # Manage alternate hdd files
    polaris_iox_alt_hdd_manage(polaris_ioxman_t)
')

polaris_iosd_vcpu_read(polaris_ioxman_t)

# work with files like /tmp/guestinfo_status.txt
polaris_iosd2iox_tmp_manage(polaris_ioxman_t)

gen_require(
    type screen_var_run_t;
    type screen_exec_t;
')

# Allow ioxman to set up ttys for screen
polaris_caf tty_link_manage(polaris_ioxman_t)

# Allow ioxman_syslib.sh to invoke screen
screen_exec(polaris_ioxman_t)

# Add entrypoint to screen_exec/can_exec permissions
allow polaris_ioxman_t screen_exec_t:file entrypoint;

# Make sure /tmp/screens is labeled correctly
files_tmp_filetrans(polaris_ioxman_t, screen_var_run_t, dir, "screens")
# allow ioxman to manage /tmp/screens/<appname>_con/aux.sid
manage_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to manage sock_files and unix_stream_socket on screen
allow polaris_ioxman_t self:unix_stream_socket { create_socket_perms connectto };
manage_dirs_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)
manage_sock_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to transition into bexecute domain
polaris_bexecute_domtrans(polaris_ioxman_t)
polaris_bexecute_domain(polaris_ioxman_t, screen_exec_t)
# allow bexecute to access the /tmp/screens/*.sid files
gen_require('
    type polaris_bexecute_t;
')
manage_files_pattern(polaris_bexecute_t, screen_var_run_t, screen_var_run_t)

# allow shell_exec to manage /tmp/.ncsshd_authorized_keys
polaris_ncsshd_keys_manage(polaris_iox_shell_t)
polaris_iox2iosd_tmp_manage(polaris_iox_shell_t)

# allow shell_exec to manage guestshell files
gen_require('
    type container_file_t;
')
manage_files_pattern(polaris_iox_shell_t, container_file_t, container_file_t)

# allow ioxman to setattr for /dev/pts relating to screen
gen_require('
    type telnetd_devpts_t;
')
allow polaris_ioxman_t telnetd_devpts_t:chr_file setattr_chr_file_perms;

# allow ioxman to access /tmp/ttyF*. files
gen_require('
    type fifo_var_run_t;
')
files_tmp_filetrans(polaris_ioxman_t, fifo_var_run_t, fifo_file)
manage_fifo_files_pattern(polaris_ioxman_t, fifo_var_run_t, fifo_var_run_t)

# allow ioxman to access rootfs and sysfs
# The same is needed when guestshell uses a passwordless SSH, when users do
# like "guestshell run bash" from IOS and it provides a bash shell screen
# in IOS.

gen_require('
    type ssh_home_t;
ssh_filetrans_admin_home_content(polaris_iox_shell_t)
allow polaris_iox_shell_t ssh_home_t:dir {create search getattr};
dev_getattr_sysfs_fs(polaris_iox_shell_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.te
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#
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#

policy_module(polarismqipc, 1.0);

attribute polaris_mqipc;

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#
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#

/var/run/cli_agent\.pid  --gen_context(system_u:object_r:polaris_cli_agent_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.fc
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#
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#
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#

policy_module(polarisvxe, 1.0);

# hanet driver used by vpcgw platform of VXE family
ifdef(`vpcgw_platform',``
  type polaris_hanet_device_t;
  dev_node(polaris_hanet_device_t)
')

# on ultra in some cloud configuration runs dhclient utility
# receive meta information from cloud provider, /var/lib/dhcp
# directory is created by initrc_t
gen_require(`
  type dhcpc_t;
  type initrc_t;
  type dhcp_state_t;
')
files_var_lib_filetrans({ dhcpc_t initrc_t }, dhcp_state_t, dir, "dhcp")

# during boot on misc cloud environment ultra image creates directory
# in /tmp to keep information received from cloud provider. Since latter
# it is copied into /varied directory let's assigned polaris_disk_varied_t
# to them
gen_require(`
  type initrc_t;
  type polaris_disk_varied_t;
  type unconfined_service_t;
')
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "ami")
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "azure")
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "gcp")

# park policy for small polaris process umbrella_init.sh here
gen_require(`
  type polaris_umbrella_init_t;
')
polaris_bootflash_manage(polaris_umbrella_init_t)
corecmd_exec_bin(polaris_umbrella_init_t)
auth_use_nsswitch(polaris_umbrella_init_t)

# define added to address issues related to dependency
# on mcp-platform-tdl for db defines
# Skip for vpcgw platform
ifndef(`vpcgw_platform',``
  type polaris_gnmib_t;
')

type polaris_objstore_sem_t;
files_tmpfs_file(polaris_objstore_sem_t)

# semaphore created by systemd-tmpfiles needs map permission
gen_require(`
type systemd_tmpfiles_t;
  
)mmap_files_pattern(systemd_tmpfiles_t, polaris_objstore_sem_t, polaris_objstore_sem_t)
# on vxe all processes read grub_cisco_version in polaris_disk_varied_t
gen_require(
  attribute polaris_domain;
  
)polaris_disk_varied_search(polaris_domain)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

type polaris_vxeinstall_info_t;
polaris_pfile_type(polaris_vxeinstall_info_t)
gen_require(
  type unconfined_service_t;
  type polaris_disk_varied_t;
  
)# unconfined service create /boot/.install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vxeinstall_info_t, file, ".install_info")

# on C8KV all processes read grubenv in EFI disk partition
gen_require(
  attribute polaris_domain;
  
)polaris_grub_efi_search(polaris_domain)

gen_require(
  type unconfined_service_t;
  type polaris_disk_varied_t;
  type polaris_obfl_data_t;
  
)# unconfined service create /boot/obfl_temp_k1/2/3 if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k1")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k2")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k3")

# handle /tmp/vxe_disk_XXX_YYY files
gen_require(
  type unconfined_service_t;
  
)polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_manage(unconfined_service_t)

# /etc/init.d/sshd that runs under initrc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically bootflash, but on MBRv2/MBRv4/GPTv1/GPTv3
# partition layouts it could be separate /config partition that is
# under polaris_disk_config_t label

gen_require(' type initrc_t;
type ssh_home_t;
')
polaris_disk_config_filetrans(initrc_t, ssh_home_t, dir, ".ssh")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.te
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#
# July 2017, Victor Kamensky
#
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#

policy_module(polarisissumonitor, 1.0);

########################################################################
# install_issu_monitor
########################################################################
polaris_process_domain_template(issu_monitor)
corecmd_exec_bin(polaris_issu_monitor_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_issu_monitor_t)

polaris_btrace_data_manage(polaris_issu_monitor_t)
polaris_chasfs_manage(polaris_issu_monitor_t)
polaris_cpld_read(polaris_issu_monitor_t)
polaris_proc_rmonbifo_read(polaris_issu_monitor_t)
polaris_boot_tmp_read(polaris_issu_monitor_t)
polaris_read_debug_conf(polaris_issu_monitor_t)
# read and possibly create /bootflash/installer/issu_crash dir
polaris_bootflash_manage(polaris_issu_monitor_t)

allow polaris_issu_monitor_t self:capability sys_resource;
allow polaris_issu_monitor_t self:process setpgid;

type polaris_issu_monitor_tmp_t;
files_tmp_file(polaris_issu_monitor_tmp_t)
files_tmp_filetrans(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, dir, "issu_mon_dir")
manage_files_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_dirs_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_fifo_files_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)

#access to /tmp/ufs/harddisk
optional_policy(`
polaris_ncd_tmp_read(polaris_issu_monitor_t)
`)

# access to /bootflash/installer/issu_crash
polaris_disk_install_read(polaris_issu_monitor_t)

# access to /tmp/sw/boot/rmonbifo/env_var.sh
polaris_rmonbifo_tmp_read(polaris_issu_monitor_t)

# read /proc/cmdline
kernel_read_system_state(polaris_issu_monitor_t)

# rm -rf /tmp/rp/issu_mon_dir
fs_getattr_tmpfs(polaris_issu_monitor_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.te
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#
# February 2018, Manohar Hungund
#
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#

policy_module(polarisact2, 1.0);

########################################################################
# ACT2 Chip Driver policy
########################################################################

type polaris_act2_device_t;
dev_node(polaris_act2_device_t)

# /tmp/hw_entropy file.
# Certain platforms save entropy from main board ACT-2 chip in this file.

type polaris_hw_entropy_t;
files_tmp_file(polaris_hw_entropy_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisact2.te
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#
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#

policy_module(polariscppha, 1.0);

gen_require(
  type polaris_cpp_ha_t;
  )

polaris_btrace_data_manage(polaris_cpp_ha_t)
polaris_crft_data_manage(polaris_cpp_ha_t)
polaris_chasfs_manage(polaris_cpp_ha_t)
polaris_tdlresolve_read(polaris_cpp_ha_t)
polaris_tdldb_list_dirs(polaris_cpp_ha_t)
polaris_cpld_read(polaris_cpp_ha_t)
polaris_flashlib_read(polaris_cpp_ha_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_ha_t)
polaris_db_tdldb_dir_use(polaris_cpp_ha_t)
polaris_cpp_process(polaris_cpp_ha_t)
polaris_cpp_dev_use(polaris_cpp_ha_t)
polaris_icc_broken_relocations(polaris_cpp_ha_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_ha_t)

# allow objstore access
polaris_disk_objstore_read(polaris_cpp_ha_t)
# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
  polaris_dev_mem_use(polaris_cpp_ha_t)
')

# allow syslogging
logging_send_syslog_msg(polaris_cpp_ha_t)

optional_policy(`
  polaris_cbdma_dev_use(polaris_cpp_ha_t)
')
polaris_cpld_dev_use(polaris_cpp_ha_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.te
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#
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#

policy_module(polariscppsp, 1.0);

gen_require(`
  type polaris_cpp_sp_t;
')
polaris_btrace_data_manage(polaris_cpp_sp_t)
polaris_crft_data_manage(polaris_cpp_sp_t)
polaris_chasfs_manage(polaris_cpp_sp_t)
polaris_tdlresolve_read(polaris_cpp_sp_t)
polaris_tdlldb_list_dirs(polaris_cpp_sp_t)
polaris_cpld_read(polaris_cpp_sp_t)
polaris_flashlib_read(polaris_cpp_sp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_sp_t)
polaris_db_tdlldb_dir_use(polaris_cpp_sp_t)
polaris_cpp_process(polaris_cpp_sp_t)
polaris_cpp_dev_use(polaris_cpp_sp_t)
polaris_icc_broken_relocations(polaris_cpp_sp_t)
polaris_cavium_sdk_ipc_use(polaris_cpp_sp_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef('crankshaft_family',
polaris_dev_mem_use(polaris_cpp_sp_t)
')

# allow syslogging
logging_send_syslog_msg(polaris_cpp_sp_t)

optional_policy(
polaris_cbdma_dev_use(polaris_cpp_sp_t)
')
polaris_cpld_dev_use(polaris_cpp_sp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.te
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#
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#
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#
/usr/binos/conf/reflector.sh -- gen_context(system_u:object_r:polaris_reflector_exec_t,s0)
/tmp/rp/reflector(/.*)?         gen_context(system_u:object_r:polaris_reflector_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.fc
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#
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#
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#
policy_module(polarissifmgr, 1.0);

gen_require(
    type polaris_sif_mgr_t;
)
polaris_btrace_data_manage(polaris_sif_mgr_t)
polaris_crft_data_manage(polaris_sif_mgr_t)
polaris_chasfs_manage(polaris_sif_mgr_t)
polaris_lldresolve_read(polaris_sif_mgr_t)
polaris_tdldb_list_dirs(polaris_sif_mgr_t)
polaris_cpld_read(polaris_sif_mgr_t)
polaris_lua_read(polaris_sif_mgr_t)
polaris_flashlib_read(polaris_sif_mgr_t)

#ifdef romvar is not set, Set Rommon env variable needs write permission
polaris_flashlib_write(polaris_sif_mgr_t)
#endif

polaris_ripc_sman_ui_serv_connect(polaris_sif_mgr_t)

corecmd_exec_bin(polaris_sif_mgr_t)
corecmd_exec_shell(polaris_sif_mgr_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_sif_mgr_t)

# allow to read /proc/mtd
kernel_read_system_state(polaris_sif_mgr_t)

# allow write /proc/dplr_seza
optional_policy('polaris_proc_seza_create_write(polaris_sif_mgr_t)')

# access SERDES /tmp/serdes_asic_key_dir/*
polaris_serdes_asic_key_tmp_manager(polaris_sif_mgr_t)

# allow read/write to /proc/irq/N/irq files
kernel_rw_irq_sysctls(polaris_sif_mgr_t)

# work with /tmp files (/tmp/sm_post_result)
type polaris_sif_mgr_tmp_t;
files_tmp_file(polaris_sif_mgr_tmp_t)
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t)
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t)
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t)
manage_files_pattern(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t)
polaris_cm_rp_tmp_manager(polaris_sif_mgr_t)

# allow ipc_lock when mmap64( ) a shared mememoy with MAP_LOCKED in dplr_pkt_drv_oob.c
allow polaris_sif_mgr_t self:capability { ipc_owner dac_override ipc_lock };

---

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#allow read from /tmp/hw_entropy
polaris_hw_entropy_read(polaris_sif_mgr_t)

polaris_obfl_data_manage(polaris_sif_mgr_t)

# /dev/dplr_intrpt usage
polaris_dplr_dev_use(polaris_sif_mgr_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_sif_mgr_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_sif_mgr_t)

polaris_lsmpi_dev_use(polaris_sif_mgr_t)

# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_sif_mgr_t)

polaris_socketat_nsfs_read(polaris_sif_mgr_t)

allow polaris_sif_mgr_t self:process setsched;

# work with /dev/msi/Slot0/Doppler0/GroupN files
dev_rw_generic_chr_files(polaris_sif_mgr_t)
# /dev/msi/Slot0/Doppler0/GroupN gets polaris_dplr_device_t label
# at some point, but need above generic chr permission by some
# reason, not clear need to look a bit more
polaris_dplr_dev_use(polaris_sif_mgr_t)

# set out of band interface mac set_oobndif_mac
allow polaris_sif_mgr_t self:tcp_socket ioctl;

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_sif_mgr_t)

# /dev/shm/sdm access
optional_policy('polaris_sdm_shm_manage(polaris_sif_mgr_t)
')

# LOOK AT ME: unsolicited creation of file in /bootflash
# by CSCvm43512. Backout when CSCvm99282 is fixed
polaris_bootflash_manage(polaris_sif_mgr_t)
polaris_disk_bootflash_read_lnk(polaris_sif_mgr_t)

optional_policy('
polaris_quake_i2c_manage(polaris_sif_mgr_t)
')

#define(`quake_platform',`
dev_read_sysfs(polaris_sif_mgr_t)
')

optional_policy(`
polaris_ngwc_scc_shm_manage(polaris_sif_mgr_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.te
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#

# polariswncmgrd file contexts place holder

#gRPC certificate for ICap, written and read by wncmgrd
/bootflash/NACert.pem    gen_context(system_u:object_r:polaris_icap_cert_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.fc
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dnl
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dnl
dnl ISRV Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set("cc", `global`, 3)
max_bay_ripc_map_set("fp", `global`, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/isrvmaps.m4

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#

policy_module(polarismcp, 1.0);

# scooby device
type polaris_scooby_device_t;
dev_node(polaris_scooby_device_t)

# spa devices i.e sys_platform_module_1ng
type polaris_spa_device_t;
dev_node(polaris_spa_device_t)

# htdp device
type polaris_hmdp_device_t;
dev_node(polaris_hmdp_device_t)

# epaN and epactrlN devices
type polaris_epa_device_t;
dev_node(polaris_epa_device_t)

# luna_fpgs device
type polaris_luna_mbfpga_device_t;
dev_node(polaris_luna_mbfpga_device_t)

# dash fpga device (/dev/dash_fpga)
type polaris_dash_device_t;
dev_node(polaris_dash_device_t)

# astro device
type polaris_astro_device_t;
dev_node(polaris_astro_device_t)

# cpp_il device
type polaris_cpp_il_device_t;
dev_node(polaris_cpp_il_device_t)
# blzi_fpga device
type polaris_blzi_device_t;
dev_node(polaris_blzi_device_t)

# oob_evfc device
type polaris_oob_evfc_device_t;
dev_node(polaris_oob_evfc_device_t)

# ds31408 device
type polaris_ds31408_device_t;
dev_node(polaris_ds31408_device_t)

# icp_ads_ctl device
# Note that fugazi gets this from polarisqfp module
ifndef(`fugazi_platform`,
type polaris_icp_device_t;
dev_node(polaris_icp_device_t)
')

type polaris_cpp_htdp_device_t;
dev_node(polaris_cpp_htdp_device_t)

type polaris_cbdma_device_t;
dev_node(polaris_cbdma_device_t)

type polaris_n2_device_t;
dev_node(polaris_n2_device_t)

type polaris_cy2213_device_t;
dev_node(polaris_cy2213_device_t)

type polaris_vega_device_t;
dev_node(polaris_vega_device_t)

# Fugazi makes use of fugazi_platform.tdl for IPCs and processes definition
# and it uses mcp_platform.tdl for databases definition. The below symbols
# are referred by mcp_platform.tdl but not fugazi_platform.tdl and hence these
# type definitions.
ifdef(`fugazi_platform`,
type polaris_fnf_agg_t;
')

optional_policy(
# access to /dev/icp_XXX device on asr1k platforms
gen_require(
    type polaris_cck_qat_t;
')
polaris_icp_dev_use(polaris_cck_qat_t)
dev_list_sysfs(polaris_cck_qat_t)
polaris_chasfs_read(polaris_cck_qat_t)
polaris_cpld_read(polaris_cck_qat_t)
polaris_tdlresolve_read(polaris_cck_qat_t)

')

# Handling denial for rsync_t for socket -
# comm="rsync" path="socket:[16784]" dev="sockfs" ino=16784
# scontext=system_u:system_r:rsync_t:s0 tcontext=system_u:system_r:init_t:s0
# gen_require('type rsync_t;
')
init_rw_stream_sockets(rsync_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.te
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#

# polarisioxman file contexts place holder
/usr/binos/conf/shell_exec.sh -- gen_context(system_u:object_r:polaris_iox_shell_exec_t:s0)

/usr/binos/conf/run_ioxn_secure_dir.sh -- gen_context(system_u:object_r:polaris_iox_secure_dir_exec_t:s0)

/bin/cat9k_ssd_auth_cmds.sh -- gen_context(system_u:object_r:polaris_ssd_auth_exec_t:s0)

/tmp/trace/resource.log -- gen_context(system_u:object_r:polaris_iox_tmp_t:s0)
/tmp/screens(/.*) -- gen_context(system_u:object_r:screen_var_run_t:s0)
/tmp/.shell_exec(/.*) -- gen_context(system_u:object_r:polaris_iox2iosd_tmp_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.fc
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#
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#
policy_module(polarisbsm, 1.0);

gen_require(
    type polaris_bsm_t;
')

polaris_btrace_data_manage(polaris_bsm_t)
polaris_chasfs_manage(polaris_bsm_t)
polaris_tdlresolve_read(polaris_bsm_t)
polaris_tdlldb_list_dirs(polaris_bsm_t)
polaris_cpld_read(polaris_bsm_t)
polaris_flashlib_read(polaris_bsm_t)

polaris_ripc_sman_ui_serv_connect(polaris_bsm_t)

optional_policy('  polaris_bde_dev_use(polaris_bsm_t)
')

allow polaris_bsm_t self:capability sys_nice;
allow polaris_bsm_t self:process setsched;

# need access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_bsm_t)

# handling /var/tmp/bsm_bcm_shell
type polaris_bsm_bcm_shell_t;
files_type(polaris_bsm_bcm_shell_t)
gen_require(
    type tmp_t;
')
filetrans_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t, fifo_file, "bsm_bcm_shell")
manage_fifo_files_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t)

ifdef('vxe_family', '  # bind to BSM_AGENT_CLIENT_PORT port from bsm_tlv_init
corenec_tcp_bind_polaris_bsm_agent_client_port(polaris_bsm_t)
')

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_bsm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.te
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## <summary>Polaris polarisisussucompcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.fc
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```c
policy_module(polarisngwcplfmmgr, 1.0);

gen_require(
    "type polaris_ngwc_plfm_mgr_t;
'"
)
polaris_btrace_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_crft_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_chasfs_manage(polaris_ngwc_plfm_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_plfm_mgr_t)
polaris_ddldb_list_dirs(polaris_ngwc_plfm_mgr_t)
polaris_cpld_read(polaris_ngwc_plfm_mgr_t)
polaris_lua_read(polaris_ngwc_plfm_mgr_t)
polaris_flashlib_read(polaris_ngwc_plfm_mgr_t)
```
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_plfm_mgr_t)

corecmd_exec_bin(polaris_ngwc_plfm_mgr_t)
corecmd_exec_shell(polaris_ngwc_plfm_mgr_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_plfm_mgr_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_plfm_mgr_t)

allow polaris_ngwc_plfm_mgr_t self:capability { sys_rawio ipc_owner dac_override };
allow polaris_ngwc_plfm_mgr_t self:capability2 block_suspend;

polaris_obfl_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_dyncfg_tmp_read(polaris_ngwc_plfm_mgr_t)
polaris_ngwc_shm_manage(polaris_ngwc_plfm_mgr_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_ngwc_plfm_mgr_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_ngwc_plfm_mgr_t)

# open /dev/ttyS0 console in edison_platform_init
term_use_unallocated_ttys(polaris_ngwc_plfm_mgr_t)

polaris_disk_license_read(polaris_ngwc_plfm_mgr_t)

allow polaris_ngwc_plfm_mgr_t self:capability { chown fowner fsetid };

type polaris_ngwc_plfm_mgr_tmp_t;
files_tmp_file(polaris_ngwc_plfm_mgr_tmp_t)
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, dir, "mcu_upgrading")
manage_files_pattern(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)
manage_dirs_pattern(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_ngwc_plfm_mgr_t)

# create /tmp/hw_entropy file anf fill with info from act2
polaris_hw_entropy_create(polaris_ngwc_plfm_mgr_t)

polaris_boot_tmp_read(polaris_ngwc_plfm_mgr_t)
polaris_flashlib_write(polaris_ngwc_plfm_mgr_t)

# check existence of /tmp/tam_cfg_done
polaris_tam_getattrs_tmp_dirs(polaris_ngwc_plfm_mgr_t)

# LOOK AT ME: Allow access to bootflash /flash/tam_client_app.log. file access
# remove after CSCvh66533 fixed
polaris_bootflash_manage(polaris_ngwc_plfm_mgr_t)

# scans /sys/devices/pci0000:00/0000:00:00.0
dev_read_sysfs(polaris_ngwc_plfm_mgr_t)

# rsync nvram_config file across stack
#rsync_exec(polaris_ngwc_plfm_mgr_t)
gen_require(‘
    type rsync_t;
’)
rsync_entry_domtrans(polaris_ngwc_plfm_mgr_t, rsync_t)
allow rsync_t polaris_ngwc_plfm_mgr_t:process sigchld;
# write access to /dev/ttyS0
term_write_unallocated_ttys(rsync_t)

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums
polaris_kgv_data_manage(polaris_ngwc_plfm_mgr_t)

#/dev/shm/sdm access
optional_policy(‘
polaris_sdm_shm_manage(polaris_ngwc_plfm_mgr_t)
’)

# platform manager moves 00001.nvram_config file to /bootflash/nvram_config
polaris_nvram_manage(polaris_ngwc_plfm_mgr_t)
allow polaris_ngwc_plfm_mgr_t self:process setfscreate;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.te
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#

policy_module(polarisgrmgr, 1.0);
gen_require(
    type polaris_gr_mgr_t;
)

polaris_crft_data_manage(polaris_gr_mgr_t)
polaris_chasfs_manage(polaris_gr_mgr_t)
polaris_tdlresolve_read(polaris_gr_mgr_t)
polaris_cpld_read(polaris_gr_mgr_t)
polarisLua_read(polaris_gr_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_gr_mgr_t)

allow polaris_gr_mgr_t self:capability { dac_override dac_read_search };
#DB persistence
polaris_tdldbpersist_setup(polaris_gr_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.te
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# ngio devices
/dev/ngio[0-9]* -c gen_context(system_u:object_r:polaris_ngio_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.fc
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#

/tmp/idope_svr gen_context(system_u:object_r:polaris_fed_debug_sock_t,s0)
/tmp/shfwd_svr gen_context(system_u:object_r:polaris_fed_debug_sock_t,s0)

/tmp/pktgen.txt gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/tmp/DopeElam.sh gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/tmp/MemDumpElam.sh gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/dcmlog.txt -- gen_context(system_u:object_r:polaris_fed_debug_dcmlog_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfeddebug.fc
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#

policy_module(polariscpld, 1.0);

# CPLD Driver policy

# note polaris_sysfs_cpld_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

type polaris_cpld_device_t;
dev_node(polaris_cpld_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.te
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#
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#

policy_module(polarisrogued, 1.0);

gen_require(
    type polaris_rogued_t;
')

polaris_btrace_data_manage(polaris_rogued_t)
polaris_chasfs_manage(polaris_rogued_t)
polaris_tdlresolve_read(polaris_rogued_t)
polaris_tdldb_listDirs(polaris_rogued_t)
polaris_cpld_read(polaris_rogued_t)
polaris_lua_read(polaris_rogued_t)
polaris_flashlib_read(polaris_rogued_t)

correct_ripc_sman_ui_serv_connect(polaris_rogued_t)

correct_db_tdldb_dir_use(polaris_rogued_t)

# allow to use setrlimit
allow polaris_rogued_t self:process setrlimit;
allow polaris_rogued_t self:capability sys_resource;
allow polaris_rogued_t self:capability dac_override;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_rogued_t)
polaris_socketat_nsfs_read(polaris_rogued_t)

## # allow to open udp socket on RDLP port 6532
correctnet_udp_bind_correctpolaris_rdlp_port(polaris_rogued_t)
correctnet_udp_bind_correctgeneric_node(polaris_rogued_t)
allow polaris_rogued_t self:udp_socket { create_socket_perms recv_msg send_msg };

# reading images/ap_capabilities.xml
correctwlc_ap_images_read(polaris_rogued_t)

# syslogs in RLDP
logging_send_syslog_msg(polaris_rogued_t)

# DB persistence
correct_tdldbpersist_correctsetup(polaris_rogued_t)
correct_temp_tdldb_persist_setup(polaris_rogued_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.te
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#

policy_module(correctiscmm, 1.0);

gen_require(''
    type polaris_cmm_t;
');
polaris_btrace_data_manage(polaris_cmm_t)
polaris_crft_data_manage(polaris_cmm_t)
polaris_chasfs_manage(polaris_cmm_t)
polaris_tdlresolve_read(polaris_cmm_t)
polaris_tdlldb_list_dirs(polaris_cmm_t)
polaris_cpld_read(polaris_cmm_t)
polaris_flashlib_read(polaris_cmm_t)

polaris_ripc_sman_ui_serv_connect(polaris_cmm_t)

allow polaris_cmm_t self:capability dac_override;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.te
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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_if.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_fc.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_fc.m4
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# polarisofa file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.fc
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## <summary>Polaris emd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.if
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#
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#

policy_module(polariscaf, 1.0);

gen_require('  
    type polaris_caf_t;
    type polaris_caf_exec_t;
    type usr_t;
')

ifdef('nyquist_platform',
    gen_require('  
        type polaris_sioxcd_rp_t;
    ')
      # Allow read of /etc/passwd
      auth_map_passwd(polaris_sioxcd_rp_t)
      # Allow usage of ls in helper script
      corecmd_exec_bin(polaris_sioxcd_rp_t)
      # Allow sysfs read
      dev_list_sysfs(polaris_sioxcd_rp_t)
      # Allow create/write/open of files under tmp
      type polaris_sioxcd_rp_tmp_t;
      files_tmp_file(polaris_sioxcd_rp_tmp_t)
      files_tmp_filetrans(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, { dir file } )
      manage_dirs_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
      manage_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
      manage_fifo_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
      # Allow losetup in helper script to run in its own domain
      fstools_domtrans(polaris_sioxcd_rp_t)
      # Allow mount/umount in its own domain
      mount_domtrans(polaris_sioxcd_rp_t)
      # Allow /tmp/sw/boot read
      polaris_boot_tmp_read(polaris_sioxcd_rp_t)
      # Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)

# Allow iox_polaris.conf read
polaris_caf_files_read(polaris_sioxcd_rp_t)

# Allow chasfs access
polaris_chasfs_manage(polaris_sioxcd_rp_t)

# Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

# Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

# Allow cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_sioxcd_rp_t)

# Allow console logging
term_open_unallocated_tty(polaris_sioxcd_rp_t)

# Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource };

# Transition to chvrf domain needed by push_using_rsync
polaris_chvrf_domtrans(polaris_sioxcd_rp_t)

# Allow flashutil
polaris_flashlib_read(polaris_sioxcd_rp_t)

# logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kernell_read_system_state(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy(
    polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
)

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)
# Allow getattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)

polaris_chasfs_manage(polaris_caf_t)
polaris_btrace_data_manage(polaris_caf_t)
polaris_cpld_read(polaris_caf_t)
polaris_boot_tmp_read(polaris_caf_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_caf_t)

corecmd_exec_bin(polaris_caf_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_caf_t)

# run-caf.sh invokes startup.py. This leads to node_t:tcp_socket node_bind
corenet_tcp_bind_generic_node(polaris_caf_t)

allow polaris_caf_t self:capability { net_admin sys_resource };
allow polaris_caf_t self:tcp_socket { accept listen create_socket_perms };
allow polaris_caf_t self:udp_socket create_socket_perms;
allow polaris_caf_t self:unix_dgram_socket { create_socket_perms sendto };
allow polaris_caf_t self:cap_users { sys_admin sys_ptrace setgid setuid sys_chroot };

# df needs to have getattr on many file/dir/fs
fs_getattr_all_fs(polaris_caf_t)
fs_getattr_all_files(polaris_caf_t)
files_getattr_all_dirs(polaris_caf_t)
dev_getattr_all_chr_files(polaris_caf_t)
files_getattr_all_mountpoints(polaris_caf_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_caf_t)

# allow execution of /usr/sbin/brctl
brctl_domtrans(polaris_caf_t)

#allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_caf_t)
fs_list_cgroup_dirs(polaris_caf_t)

# add new type for /guestshell files and allow CAF to manage them
type polaris_guestshell_t;
files_type(polaris_guestshell_t)
manage_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_lnk_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_dirs_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

# required to support, guestshell enable, which creates <iox-storage>/iox/repo/guestshell
relabelto_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

# run_ioxn_caf.sh invokes run-caf.sh which executes "ip"
sysnet_domtrans_ifconfig(polaris_caf_t)
# allow netns operations
sysnet_manage_ifconfig_run(polaris_caf_t)

libs_domtrans_ldconfig(polaris_caf_t)

# add new type for /bootflash/iox files and allow CAF to manage them
type polaris_iox_files_t;
polaris_disk_type(polaris_iox_files_t)
polaris_iox_files_manage(polaris_caf_t)

# need open, read, ioctl, getattr on /bootflash/debug.conf
polaris_read_debug_conf(polaris_caf_t)

# run_ioxn_caf.sh cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_caf_t)

# pvsm_cpu.sh reads /tmp/cgroup.log
optional_policy(
    polaris_vman_tmp_manage(polaris_caf_t)
)

# allow to read /proc/cpuinfo
kernel_read_system_state(polaris_caf_t)

optional_policy(
    container_runtime_domtrans(polaris_caf_t)
)

# add new type for /opt/cisco/caf files and allow CAF to manage them
type polaris_caf_files_t;
files_type(polaris_caf_files_t)
files_root_filetrans(polaris_caf_t, polaris_caf_files_t, dir)
files_root_filetrans(polaris_caf_t, polaris_caf_exec_t, dir, "scripts")
manage_dirs_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_lnk_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)

gen_require(
    type polaris_hm_t;
)
polaris_caf_files_read(polaris_hm_t)

# this label is created for sharing of core file dirs between host and containers
type polaris_caf_core_files_t;
polaris_disk_type(polaris_caf_core_files_t)
# transition /local files and dirs
files_root_filetrans(polaris_caf_t, polaris_caf_core_files_t, dir, "local")
polaris_btrace_data_manage(polaris_caf_core_files_t)
manage_files_pattern(polaris_caf_core_files_t, usr_t, usr_t)

# manage local core files between host and container
polaris_caf_local_core_files_manage(polaris_caf_t)
polaris_caf_local_core_files_manage(brctl_t)

# run_ioxn_caf.sh invokes startup.py that eventually through resourcemanager.py
# calls cpu_count_logical function in order to get number of cores and which
# needs read access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_caf_t)

# run-caf.sh modifies iox_polaris.conf; backup is saved due to "sed-i.bak".
# in order to preserve security context, setfscreate is invoked
allow polaris_caf_t self:process setfscreate;

# work with /var/log/caf/ files
type polaris_caf_log_t;
logging_log_file(polaris_caf_log_t)
manage_files_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "caf")
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "docker")
corenex_tcp_bind_polaris_caf_api_port(polaris_caf_t)

virt_stream_connect(polaris_caf_t)
virt_read_config(polaris_caf_t)

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_caf_t)

# allow access to /etc/guestshell_rsa_key* files
type polaris_guestshell_ssh_key_t;
files_type(polaris_guestshell_ssh_key_t)
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key")
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key.pub")
manage_files_pattern(polaris_caf_t, polaris_guestshell_ssh_key_t, polaris_guestshell_ssh_key_t)

# add new type for "internal" temp files created by underlying python modules when
# user-level python scripts (e.g., run_ioxn_caf.sh, run-caf.sh, etc) performs init;
# we are now creating them using TMPDIR=/tmp/caf; and, allow CAF to manage these
# internal temp files; in addition, underlying python-infra invokes __mmap() that
# somehow translates to... execute stuff like "/tmp/caf/#97893 (deleted)"

type polaris_caf_tmp_files_t;
files_tmp_file(polaris_caf_tmp_files_t)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, dir)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, file)
manage_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)

# python through libffi tries to mmap open file with PROT_EXEC, it triggers need
# for execute permission
allow polaris_caf_t polaris_caf_tmp_files_t:file execute;
allow polaris_caf_t polaris_caf_tmp_files_t:file map;

# python3 seems to do a setxattr syscall
# A folder like /bootflash/iox/repo/guestshell/extract_archive
# contains files that are extracted from a tarball and are
# made polaris_caf_tmp_files_t because of the files_tmp_filetrans rule
relabel_files_pattern(polaris_caf_t, polaris_iox_files_t, polaris_iox_files_t)
relabel_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)

# allow to run e2fsck in its own domain
fstools_domtrans(polaris_caf_t)

# allow to run mount in its own domain
mount_domtrans(polaris_caf_t)

# add new type for /guestshell/*.sh files
type polaris_guestshell_exec_t;
files_type(polaris_guestshell_exec_t)

# add new type for /var/run/netns/guestshell
type polaris_guestshell_var_run_t;
files_type(polaris_guestshell_var_run_t)

# add new type for /var/run/cisco_cli
type polaris_caf_var_run_t;
files_pid_file(polaris_caf_var_run_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
manage_files_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
files_pid_filetrans(polaris_caf_t, polaris_caf_var_run_t, { file dir })

# Intermediate step: When CAF unpacks the contents of the application
# you upload, it will stage the contents somewhere and verify some checks
# (filesystem check on the disk image, existence of several folders, etc.). Disk
# images are mounted without any label since CAF has not generated security
# labels yet for the app at this point. The disk gets unmounted and eventually
# gets mounted again with the proper context/label.
type polaris_disk_caf_t;
polaris_disk_type(polaris_disk_caf_t)
list_dirs_pattern(polaris_caf_t, polaris_disk_caf_t, polaris_disk_caf_t)

allow polaris_caf_t self:capability { chown dac_override fowner fsetid setfcap sys_chroot sys_ptrace }
allow polaris_caf_t self:process setcap;
fs_read_nsfs_files(polaris_caf_t)

# caf to manage loop device: finding free /dev/loopN device
dev_rw_loop_control(polaris_caf_t)

# PLEASE LOOK AT ME
# allow caf to read, write /dev/loopN devices that are
# under fixed_disk_device_t label. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_caf_t)

# caf executing chroot via bash
gen_require(
    type svirt_sandbox_file_t;
    ')
allow polaris_caf_t svirt_sandbox_file_t:file { execute execute_no_trans };

gen_require(
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    ')
setattr_dirs_pattern(polaris_caf_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
setattr_dirs_pattern(polaris_caf_t, polaris_disk_harddisk_t, polaris_disk_harddisk_t)

# caf connects to its own port 8098
corenet_tcp_connect_polaris_caf_api_port(polaris_caf_t)

virt_manage_sandbox_files(polaris_caf_t)

kernel_read_network_state(polaris_caf_t)

polaris_bootflash_manage(polaris_caf_t)
polaris_bootflash_files_mmap(polaris_caf_t)
#allow polaris_disk_harddisk_t manage like polaris_disk_bootflash_t
polaris_harddisk_manage(polaris_caf_t)

# caf execve virsh
gen_require(
    type virsh_t;
    type virsh_exec_t;
domtrans_pattern(polaris_caf_t, virsh_exec_t, virsh_t)
# virsh needs to read /opt/cisco/caf/scripts/ieobcbr.xml
polaris_caf_files_read(virsh_t)

# caf calls tipc-config that works with tipc sockets
allow polaris_caf_t self:socket create_socket_perms;
allow polaris_caf_t self:netlink_generic_socket { create_socket_perms sendto recvfrom };

# get and set attrs on httpd_var_run_t under /bootflash/iox
gen_require(''
    type httpd_var_run_t;
')
getattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
setattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
# allow TCP connection for http port e.g. Local Manager
corennet_tcp_connect_http_port(polaris_caf_t)

# execute lvm commands, like lvs
lvm_domtrans(polaris_caf_t)

polaris_disk_crashinfo_getattr(polaris_caf_t)
optional_policy(''
polaris_ncd_tmp_read(polaris_caf_t)
')

logging_send_syslog_msg(polaris_caf_t)

# tries to load KLM like cuse, fuse, overlay
modutils_domtrans_insmod(polaris_caf_t)

# modifies files under /var/www/features/iox
apache_manage_sys_content(polaris_caf_t)

# caf reads version of ioxman from its executable
polaris_ioxman_exec_read(polaris_caf_t)
polaris_ioxman_show_version(polaris_caf_t)

type polaris_iox_alt_hdd_files_t;
files_type(polaris_iox_alt_hdd_files_t)
polaris_pfile_type(polaris_iox_alt_hdd_files_t)
polaris_iox_alt_hdd_manage(polaris_caf_t)

# On stargazer platform /vol/disk0 is used by iox to create below dirs.
# On nyquist platform /vol/usb1 with polaris_disk_harddisk_t is used
# Transition them to appropriate labels.
gen_require("
    type container_var_lib_t;
"
)

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t, dir, "iox")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_caf_tmp_files_t, dir, "caf")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t polaris_iox_files_t }, container_var_lib_t, dir, "docker")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_caf_files_t, dir, "iox_data_share")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t, dir, "iox_host_data_share")

# Allow files under guest-share directory which is shared between ios
# and container
    type polaris_iox_shared_files_t;
files_type(polaris_iox_shared_files_t)
polaris_pfile_type(polaris_iox_shared_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t)
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_iox_shared_files_t, dir, "guest-share")

# Allow signature verification of applications
gen_require("
    type polaris_code_verify_t;
"
)polaris_iox_files_manage(polaris_code_verify_t)

# allow caf to control /tmp/trace/resource.log
polaris_iox_manage_tmp_files(polaris_caf_t)

# some utility running under caf needs access to /varied/ovf-env.xml
polaris_disk_varied_read(polaris_caf_t)

# caf reads the udev information
gen_require("
    type udev_var_run_t;
"
)manage_files_pattern(polaris_caf_t, udev_var_run_t, udev_var_run_t)

gen_require("
    type virtd_lxc_t;
"
)allow polaris_caf_t virtd_lxc_t:process signull;
polaris_removable_manage(polaris_caf_t)
polaris_lm_tmp_read(polaris_caf_t)

# caf modifies /etc/cgroup_params.txt
files_manage_etc_files(polaris_caf_t)

# read /tmp/iox_override.conf created by ioxman
polaris_iox_read_tmp_files(polaris_caf_t)

# python udev library used by caf
allow polaris_caf_t self:netlink_kobject_uevent_socket { bind create getattrib setopt };

#need access to rawip socket by pd_iox.sh
allow polaris_caf_t self:capability { net_raw setgid };
allow polaris_caf_t self:rawip_socket { create getopt setopt };
# LOOK AT ME caf leaks fifo file descriptors need permissions for
# domains that started by it
gen_require(''
    type iptables_t;
')
allow iptables_t polaris_caf_t:fifo_file { read write append getattrib };

# allow iptables_t users permissions for IP accessed by the script guestshell_setup.sh
allow iptables_t self:cap_users { net_admin net_raw };

container_stream_connect(polaris_caf_t)

gen_require(''
    type pki_ca_port_t;
')
allow polaris_caf_t pki_ca_port_t:tcp_socket name_connect;

polaris_flashlib_read(polaris_caf_t)
polaris_flashlib_write(polaris_caf_t)
polaris_contdev_dev_read(polaris_caf_t)

gen_require(''
    type rsync_exec_t;
    type rsync_port_t;
')
allow polaris_caf_t rsync_exec_t:file { execute execute_no_trans getattrib map open read };
allow polaris_caf_t rsync_port_t:tcp_socket name_connect;

# IOX uses rsync to sync the data
gen_require(''
    type rsync_t;
')
rsync_entry_domtrans(polaris_caf_t, rsync_t)
polaris_manage_rsync_tmplog_dir(polaris_caf_t)
allow rsync_t polaris_caf_t:fifo_file { setattr write }

kernel_search_network_sysctl(polaris_caf_t)
kernl_rw_net_sysctls(polaris_caf_t)
dev_rw_sysfs(polaris_caf_t)

# Allow run-caf.sh to configure byte_queue_limits/limit_min for KR port
gen_require("`
  type sysfs_t;
"
)allow polaris_caf_t sysfs_t:file create;
dev_manage_sysfs_dirs(polaris_caf_t)

# CAF needs access to setup for containers
manage_dirs_pattern(polaris_caf_t, self, self)
fs_associate_proc(polaris_caf_t)

# guestshell_setup.sh reads /proc/sys/kernel/core_pattern
kernel_read_usermodehelper_state(polaris_caf_t)
# and then guestshell_setup.sh reads /tmp/corelink
gen_require("`
  type initrc_tmp_t;
"
) allow polaris_caf_t initrc_tmp_t:lnk_file read;

# Beluga/Meraki container
ifdef(`ms_platform`,`
polaris_iox_container_domtrans(polaris_caf_t)
`) # Bottlenose/Meraki container
ifdef(`bottlenose_platform`,`
polaris_iox_container_domtrans(polaris_caf_t)
`) #allow run_ioxn_caf.sh to modify /etc/docker/daemon.json, etc.
container_manage_config_files(polaris_caf_t)

# Manage IOx Secure storage CC files
type polaris_iox_ss_disk_t;
files_type(polaris_iox_ss_disk_t)
polaris_pfile_type(polaris_iox_ss_disk_t)

#Guestshell management
virt_signull(polaris_caf_t)

gen_require("`
  type ifconfig_t;`
')

# allow ifconfit_t userns permissions for IP
allow ifconfig_t self:cap_userns { net_admin sys_admin sys_ptrace };
# allow ifconfig_t to transition into dhcpc domain
sysnet_domtrans_dhcpc(ifconfig_t)

# Being an IOSP client does not allow for setattr permissions
gen_require(
    type polaris_iosd_portal_app_lipc_t;
')
sattr_sock_files_pattern(polaris_caf_t, polaris_iosd_portal_app_lipc_t, polaris_iosd_portal_app_lipe_t)

ifdef('passport_platform',

    type polaris_sioxcd_rp_t;
')

# Allow read of /etc/passwd
auth_map_passwd(polaris_sioxcd_rp_t)
#
# Allow usage of ls in helper script
corecmd_exec_bin(polaris_sioxcd_rp_t)

# Allow sysfs read
dev_list_sysfs(polaris_sioxcd_rp_t)

# Allow create/write/open of files under tmp
type polaris_sioxcd_rp_tmp_t;

files_tmp_file(polaris_sioxcd_rp_tmp_t)
files_tmp_filetrans(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, { dir file } )
manage_dirs_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_fifo_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)

# Allow losetup in helper script to run in its own domain
fstools_domtrans(polaris_sioxcd_rp_t)
#
# # Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)
#
# # Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

# # Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)
# Allow iox_polaris.conf read
polaris_caf_files_read(polaris_sioxcd_rp_t)
#
# Allow chasfs access
polaris_chasfs_manage(polaris_sioxcd_rp_t)

# Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

# Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

# Allow cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_sioxcd_rp_t)

# Allow console logging
term_open_unallocated_ttys(polaris_sioxcd_rp_t)

# Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource }

# Transition to chvrf domain needed by push_using_rsync
polaris_chvrf_domtrans(polaris_sioxcd_rp_t)

# Allow flashutil
polaris_flashlib_read(polaris_sioxcd_rp_t)

# iptables execute in its own domain
iptables_domtrans(polaris_caf_t)

# logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kernl_read_system_state(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy(`
polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
`)

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create }
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)

# Allow getattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)

# Allow sync_data to use chvrf
polaris_chvrf_domtrans(polaris_caf_t)

# tty device and link files under /dev
type polaris_caf_tty_file_t;
dev_node(polaris_caf_tty_file_t)
dev_filetrans(polaris_caf_t, polaris_caf_tty_file_t, lnk_file)
term_use_ptmx(polaris_caf_t)
polaris_caf_tty_lnk_manage(polaris_caf_t)
polaris_caf_chr_file_read(polaris_caf_t)

polaris_iosd_vcpu_read(polaris_caf_t)

# Allow access starting/stopping iox
polaris_chasfs_read(iptables_t)
polaris_chasfs_read(ifconfig_t)
polaris_hman_use_fifo(polaris_caf_t)
iptables_domtrans(polaris_caf_t)

# Allow application signature verification
polaris_code_verify_domtrans(polaris_caf_t)

#access /proc/rmbonbifo file cat9k-ioxhelper.sh
polaris_proc_rmonbifo_read(polaris_caf_t)

gen_require(
    type dhcpc_t;
)

# allow these users capabilities for dhcpc
allow dhcpc_t self:cap_users { net_raw net_bind_service };
# allow CAF to transition to dhcpc e.g. dhclient_custom.sh
sysnet_domtrans_dhcpc(polaris_caf_t)
# allow reading of dhcp configuration files e.g.
# /vol/usb1/iox/repo-docker/perfsonar1/dhcp/dhcp_eth0.conf
polaris_caf_files_read(dhcpc_t)
# allow writing of dhcp lease files e.g. eth0ipv4.lease
polaris_iox_files_manage(dhcpc_t)
# allow dhcpc domain to transition back into CAF e.g. dhclient_custom.sh
polaris_caf_domtrans(dhcpc_t)

# Allow read container share files
container_read_share_files(polaris_caf_t)
# Allow manage container files
    gen_require('type container_file_t;
        type container_share_t;
        type container_log_t;
    ')
    mmap_files_pattern(polaris_caf_t, container_file_t, container_file_t)
    manage_files_pattern(polaris_caf_t, container_file_t, container_file_t)

    manage_chr_files_pattern(polaris_caf_t, container_share_t, container_share_t)
    manage_fifo_files_pattern(polaris_caf_t, container_share_t, container_share_t)
    manage_sock_files_pattern(polaris_caf_t, container_share_t, container_share_t)

    manage_files_pattern(polaris_caf_t, container_log_t, container_log_t)

    # Allow polaris caf to set attributes of device nodes of fuse devices
    gen_require('type fuse_device_t;
    ')
    allow polaris_caf_t fuse_device_t:chr_file setattr;

    # Allow polaris caf to set attributes of TUN/TAP virtual network device
    gen_require('type tun_tap_device_t;
    ')
    allow polaris_caf_t tun_tap_device_t:chr_file setattr;

    # Allow operations on fifo file
type fifo_var_run_t;
    # make sure /tmp/ttyF0 is labeled correctly
    files_tmp_file(fifo_var_run_t)
    files_tmp_filetrans(polaris_caf_t, fifo_var_run_t, fifo_file)
    manage_fifo_files_pattern(polaris_caf_t, fifo_var_run_t, fifo_var_run_t)

    # allow udev read operations
    polaris_udev_tmp_read(polaris_caf_t)

    # allow link file for tmpfs_t
    allow polaris_caf_t tmpfs_t:lnk_file create;

    ##############
    # IOx Secure storage service policies
    ##############
    optional_policy('gen_require('type polaris_ioxss_rp_t;
        type polaris_sort_files_t;
type polaris_iosd_t;

')
type polaris_ioxss_rp_tmp_t;
files_tmp_file(polaris_ioxss_rp_tmp_t)
files_tmp_filetrans(polaris_ioxss_rp_t, polaris_ioxss_rp_tmp_t, file, "ioxss_up")
polaris_ioxss_rp_tmp_manage(polaris_ioxss_rp_t)

polaris_chasfs_read(polaris_ioxss_rp_t)
polaris_lua_read(polaris_ioxss_rp_t)

manage_files_pattern(polaris_ioxss_rp_t, polaris_iox_ss_disk_t, polaris_iox_ss_disk_t)
allow polaris_sort_files_t polaris_iox_ss_disk_t:dir list_dir_perms;
allow polaris_iosd_t polaris_iox_ss_disk_t:dir list_dir_perms;

# Allow polaris_sort_files_t getattr of iosd_portal_app_lipc socket file
polaris_iosd_portal_app_lipc_getattr(polaris_sort_files_t)

# allow secure storage server to connect through tcp_socket on port 9000 from system-config.ini
gen_require(')
type http_port_t;
')

allow polaris_ioxss_rp_t self:tcp_socket { bind create listen setopt };
corenet_tcp_bind_http_port(polaris_ioxss_rp_t);
allow polaris_ioxss_rp_t node_t:tcp_socket node_bind;

# allow polaris caf to process signal of dhcpc client
allow polaris_caf_t dhcpc_t:process signal;

# allow secure storage server to connect through socket
allow polaris_ioxss_rp_t self:socket create_socket_perms;
')

optional_policy(')
# Allow polaris_sort_files_t getattr of container fifo file
gen_require(')
    type polaris_sort_files_t;
    type container_file_t;
')
getattr_fifo_files_pattern(polaris_sort_files_t, container_file_t, container_file_t)
')

# Clear iox handling
container_manage_lib_files(polaris_caf_t)
container_manage_lib_dirs(polaris_caf_t)
container_manage_share_files(polaris_caf_t)
container_manage_share_dirs(polaris_caf_t)
gen_require('
type polaris_vs_oper_db_tdldb_t;
  type polaris_tdldb_t;
')
manage_files_pattern(polaris_caf_t, polaris_tdldb_t, polaris_vs_oper_db_tdldb_t)

# allow caf to read systemd unit files
systemd_read_unit_files(polaris_caf_t)

# allow restorecon on iox_alt_hdd_mount_dir
seutil_domtrans_setfiles(polaris_caf_t)

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, file, "iox_alt_hdd.dsk")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, dir, "iox_alt_hdd_mount_dir")

allow ifconfig_t polaris_iox_files_t:file { read };

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscaf.te

No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
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#

## <summary>Polaris confd Policy Rules.</summary>

#######################################
## <summary>
##      Setup /dev/shm/confd directory and file, pid and shared memory.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
##
# interface(`polaris_confd_shm_setup',
  gen_require(
    type polaris_confd_shm_t;
    type tmpfs_t;
  )
  fs_tmpfs_filetrans($1, polaris_confd_shm_t, dir, "confd")
manage_dirs_pattern($1, tmpfs_t, polaris_confd_shm_t)
manage_files_pattern($1, { tmpfs_t polaris_confd_shm_t }, polaris_confd_shm_t)
allow $1 polaris_confd_shm_t:file map;
')

##########################################
## <summary>
##      Read /dev/shm/confd_shared_schema shared memory.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_confd_shared_schema_read',
  gen_require('type polaris_confd_shm_t;
   type tmpfs_t;
  ')
  read_files_pattern($1, { tmpfs_t polaris_confd_shm_t } , polaris_confd_shm_t)
  allow $1 polaris_confd_shm_t:file map;
')

##########################################
## <summary>
##      Watch confd_shm directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_confd_shared_schema_watch',
  gen_require('type polaris_confd_shm_t;
  ')
  allow $1 polaris_confd_shm_t:dir watch;
')

##########################################
## <summary>
##      Read /proc/cond_pid/exe file. Few dmi utilties do that by
## some reason. Look at handle_confd_pid_available.
## Read files and symlinks under /dev/shm/confd.
## </summary>
interface('polaris_confd_read',
    gen_require(
        type polaris_confd_t;
    ')
    read_files_pattern($1, polaris_confd_t, polaris_confd_t)
    read_link_files_pattern($1, polaris_confd_t, polaris_confd_t)
')

interface('polaris_confd_ndbutil_create',
    gen_require(
        type polaris_confd_ndbutil_lock_t;
    ')
    files_lock_filetrans($1, polaris_confd_ndbutil_lock_t, dir, "ndbutil")
    files_create_lock_dirs($1)
    manage_dirs_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
    manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
    create_dirs_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
')

creates types for and rules for ndbutil files under /var/lock/ndbutil

Stem for the domain. Name is constructed as polaris_stem_ndbutil_t
template(`polaris_ndbutil_lock_template',
    gen_require(
        type polaris_confd_ndbutil_lock_t;
    ')
    type polaris_$2_ndbutil_t;
    files_type(polaris_$2_ndbutil_t)

    filetrans_pattern($1, polaris_confd_ndbutil_lock_t, polaris_$2_ndbutil_t, file, $3)
    manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_$2_ndbutil_t)

    allow $1 polaris_$2_ndbutil_t:file { watch watch_reads }
    ')

########################################
## <summary>
##  Execute a domain transition to run mmap_schema polaris process.
## </summary>
## <param name="domain">
##  Domain allowed to transition.
## </param>
#
# interface(`polaris_mmap_schema_domtrans',
    gen_require(
        type polaris_mmap_schema_t, polaris_mmap_schema_exec_t;
    ')
    domtrans_pattern($1, polaris_mmap_schema_exec_t, polaris_mmap_schema_t)
    ')

########################################
## <summary>
##  Execute a domain transition to run confd polaris process.
## </summary>
## <param name="domain">
##  Domain allowed to transition.
## </summary>
## <param name="optional"="true">
##  The name of the object being created.
## </param>
#
#interface('polaris_confd_domtrans',``
gen_require(`
    type polaris_confd_t, polaris_confd_exec_t;
`')

domtrans_pattern($1, polaris_confd_exec_t, polaris_confd_t)
``


## <summary>
## Read confd log file (i.e /var/confd0/log/cia-confd.log). Used
## by dmiaudthd to convert confd logs to btrace.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
#interface('polaris_confd_log_read',``
gen_require(`
    type polaris_confd_var_t;
`')
read_files_pattern($1, polaris_confd_var_t, polaris_confd_var_t)
``

## <summary>
## Manage confd log file (i.e /var/confd0/log/cia-confd.log). Used
## by pman to rotate logs into /bootflash/tracelogs.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_confd_log_manage',``
gen_require(`
    type polaris_confd_var_t;
`')
manage_files_pattern($1, polaris_confd_var_t, polaris_confd_var_t)
``

## <summary>
## Execute dmi_ports_fetch in the caller domain.
## <summary>
## Domain allowed access.
## </summary>
#
# interface('confd_exec_dmi_ports_fetch',
  gen_require(''
    type polaris_dmi_ports_fetch_exec_t;
  ')

corecmd_search_bin($1)
can_exec($1, polaris_dmi_ports_fetch_exec_t)
')

#######################################
## <summary>
##      Manage confd /var/log files (i.e /var/log/confd)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_confd_var_log_manage',
  gen_require(''
    type polaris_confd_var_log_t;
  ')
  logging_log_filetrans($1, polaris_confd_var_log_t, dir, "confd")
  manage_dirs_pattern($1, var_log_t, polaris_confd_var_log_t)
  manage_files_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
')

#######################################
## <summary>
##      Read confd /var/log files (i.e /var/log/confd)
##      /bootflash/tracelogs/cia-netconf-trace* also has polaris_confd_var_log_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_confd_var_log_read',
  gen_require(''

type polaris_confd_var_log_t;

)

list_dirs_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
read_files_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
)

########################################
## <summary>
##	Write into fifo file created by confd, typical case when
##
## confd starts script under popen in different domain.
##
## </summary>
##<param name="domain">
##
##Domain allowed access.
##</summary>
##</param>
##<rolecap/>
#
interface('polaris_confd_tmp_use_fifo',

gen_require(''

type polaris_confd_tmp_t;
')

read_fifo_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
write_fifo_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
)

########################################
## <summary>
##	Write into file created by confd, to deal with cases
##
## confd starts script under popen in different domain and
##
## file descriptor leaks into another domain. Since we cannot
##
## modify confd to use O_CLOEXEC
##
## </summary>
##<param name="domain">
##
##Domain allowed access.
##</summary>
##</param>
##<rolecap/>
#
interface('polaris_confd_tmp_use',

gen_require(''

type polaris_confd_tmp_t;
')

read_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
write_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
## <summary>
## Provide access for file operations under /etc/ dir.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_confd_etc_read',
    gen_require(
        type polaris_confd_etc_t;
    )
)

read_files_pattern($1, polaris_confd_etc_t, polaris_confd_etc_t)
}

## <summary>
## Create an object in the /var directory under polaris_confd_var_t label.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>
## <param name="name" optional="true">
## The name of the object being created.
## </param>
#
interface('polaris_confd_var_filetrans',
    gen_require(
        type polaris_confd_var_t;
    )
)

files_var_filetrans($1, polaris_confd_var_t, $2, $3)
### <summary>
### Make the specified domain able to work with /var/confd0
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_confd_var_dir_manage',
    gen_require(
        type polaris_confd_var_t;
    
    manage_dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
    ')
)

### <summary>
### Execute a domain transition to run admin_tech scripts of sdwan
### </summary>
### <param name="domain">
### <summary>
### Domain allowed to transition.
### </summary>
### </param>
#
# interface('polaris_admin_tech_domtrans',
    gen_require(
        type polaris_admin_tech_t, polaris_admin_tech_exec_t;
    
    domtrans_pattern($1, polaris_admin_tech_exec_t, polaris_admin_tech_t)
    ')
)

### <summary>
### Read admin_tech files created under bootflash
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
# interface('polaris_admin_tech_data_read',

gen_require(
    type polaris_admin_tech_data_t;
)
read_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
)

#################################################################
## <summary>
##      Manage admin_tech files created under bootflash
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_admin_tech_data_manage',
  gen_require(
    type polaris_admin_tech_data_t;
  )
manage_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
manage_link_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
manage_dirs_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
allow $1 polaris_admin_tech_data_t:file watch;
)

#################################################################
## <summary>
##    Allow domain to be started by confd with
##    transition into specific service domain.
## </summary>
## <param name="domain">
##    <summary>
##    Type to be used to run utility.
##    </summary>
## </param>
## <param name="entry_point">
##    <summary>
##    Type of the program to be used as an entry point to this domain.
##    </summary>
## </param>
# interface('polaris_confd_domain',
  gen_require(
    type polaris_confd_t;
  )
domtrans_pattern(polaris_confd_t, $2, $1)
### <summary>
Manage confd_cli files under /tmp/confd_cli.
</summary>

### <param name="domain">
Domain allowed access.
</param>

interface('polaris_confd_cli_tmp_manage',
  gen_require("
    type polaris_confd_cli_tmp_t;
  ",
    manage_files_pattern($1, polaris_confd_cli_tmp_t, polaris_confd_cli_tmp_t)
  )
)

### <summary>
Manage vconfd files under /tmp/vconfd.
</summary>

### <param name="domain">
Domain allowed access.
</param>

interface('polaris_vconfd_tmp_manage',
  gen_require("
    type polaris_vconfd_tmp_t;
  ",
    manage_dirs_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t),
    manage_files_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t)
  )
)

### <summary>
Connect to confd port. Should be used only by utility domains that do not have TDL entry. Processes with TDL entries just need to register as confd pseudo service clients.
</summary>

### <param name="domain">
Domain allowed access.
</param>
#
interface('polaris_confed_connect',
    polaris_ripc_confed_ipc_connect($1)
')

#######################################
## <summary>
##      Use unix stream socket created by confd as standard I/O
## descriptors. Need to look more, because so far it triggers only
## getattr, append and ioctl permissions. If it would be real standard I/O
## it would need read and write as well.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_confed_unix_stream_stdio_use',
    gen_require(
        type polaris_confed_t;
    ')
    allow $1 polaris_confed_t:unix_stream_socket { append getattr ioctl };
')

########################################
## <summary>
##	Creates types and rules for a script that is started
##	by confd process.
## </summary>
## <param name="stem">
##	<summary>
##	Stem for the domain. Name is constructed as polaris_stem_t
##	</summary>
## </param>
#
template('polaris_vconfd_domain_template',
    polaris_utility_domain_template($1)
    polaris_confed_domain(polaris_$1_t, polaris_$1_exec_t)

    # access /etc/passwd
    auth_use_nsswitch(polaris_$1_t)

    # inherit unix stream as script stdio
    polaris_confed_unix_stream_stdio_use(polaris_$1_t)
')
dnl

April 2018, Victor Kamensky

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dnl

divert(-1)

divert(-1)

divert(-1)

include(`polaris_process.m4')

include(`polaris_database_db.m4')
include(`polaris_database_db_fc.m4')

include(`polaris_max_scope.m4')

divert(0)dnl

#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

policy_module(polarisinstallmgr, 1.0);

gen_require(
    type polaris_install_mgr_t;
')
polaris_chasfs_manage(polaris_install_mgr_t)
polaris_tdlresolve_read(polaris_install_mgr_t)
polaris_cpld_read(polaris_install_mgr_t)
polaris_flashlib_read(polaris_install_mgr_t)
polaris_lua_read(polaris_install_mgr_t)
logging_send_syslog_msg(polaris_install_mgr_t)

polaris_ripe_sman_ui_serv_connect(polaris_install_mgr_t)

polaris_db_tdl_db_dir_use(polaris_install_mgr_t)

# read all files in persisten storage
polaris_persistent_read(polaris_install_mgr_t)

# calls code_verify
polaris_code_verify_domtrans(polaris_install_mgr_t)
# calls mount command
mount_domtrans(polaris_install_mgr_t)

# allow access to gnmib image files
optional_policy("
  polaris_gnmib_gnoi_images_read(polaris_install_mgr_t)
"
)

# LOOK AT ME: /dev/mem access restriction will be removed after
# CSCvu32649 is fixed using CSCvu32742.
# code_sign_verify accesses /dev/mem: class=chr_file, {read, open, map}
# to read the codesign key in storage
# side effects: execute is also allowed
gen_require("
  type polaris_code_verify_t;
  type polaris_nvram_file_t;
"
)
dev_rx_raw_memory(polaris_code_verify_t)

# read access to /bootflash/nvram_config on CLI "install remove inactivate"
read_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)
getattr_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)

# open, read, map and getattr access of capsule-upgrade.log file
polaris_capsule_upgrade_log_use(polaris_code_verify_t)

# calls install mgr_helper_api.sh
corecmd_exec_bin(polaris_install_mgr_t)
corecmd_exec_shell(polaris_install_mgr_t)
auth_use_nsswitch(polaris_install_mgr_t)

# /tmp/sw/inst_tmp_x handling
type polaris_install_mgr_tmp_t;
files_tmp_file(polaris_install_mgr_tmp_t)
gen_require("
  type tmp_t;
"
)
manage_dirs_pattern(polaris_install_mgr_t, tmp_t, polaris_install_mgr_tmp_t)
manage_dirs_pattern(polaris_install_mgr_t, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_1")
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_2")

# writes into /bootflash/installer/watchlist
polaris_disk_install_manage(polaris_install_mgr_t)

# install_mgr_monitor.c:add_prior_watches
polaris_persistent_watch(polaris_install_mgr_t)

# watch over /tmp/patch
polaris_patch_data_watch(polaris_install_mgr_t)

polaris_repm_peer_mqipc_manage(polaris_install_mgr_t)

# watches over /tmp for /tmp/booted appearance in
# init_operation_mgmt_watches function
gen_require(
    type tmp_t;
    )
allow polaris_install_mgr_t tmp_t:dir watch;

allow polaris_install_mgr_t self:capability sys_resource;

#install_mgr writes into /bootflash/installer/watchlist and watches /bootflash/inot_fifo
polaris_install_disk_manage(polaris_install_mgr_t)

#install_mgr does search and get attribute operation on /tftp directory
gen_require(
    type tftpdir_rw_t;
    )
allow polaris_install_mgr_t tftpdir_rw_t:dir { getattr search };

# allow read access to iso9600
fs_read_iso9660_files(polaris_install_mgr_t)

# accesses /proc/sys/vm/drop_caches
kernel_rw_vm_sysctls(polaris_install_mgr_t)

# creates files under /tmp/pkg_cs_debug through install_helper
# and verify_pkg shell function from common
polaris_pkg_cs_debug_manage(polaris_install_mgr_t)

# for pluggable FS, allow the install manager to access files on them (it needs read and
# write access).
gen_require(
    type removable_t;
    )
allow polaris_install_mgr_t removable_t:dir { getattr open read search watch }
allow polaris_install_mgr_t removable_t:file { getattr open read }
allow polaris_install_mgr_t removable_t:lnk_file read;

#allow install_mgr to stat caf files in /vol/harddisk/caf, /bootflash/caf, etc.
polaris_caf_tmp_files_read(polaris_install_mgr_t)

# install manager Cleanup related to inotify watches, Basically frees malloced memory
gen_require(
    type root_t;
)
allow polaris_install_mgr_t root_t:dir watch;

# install manager access to /guestshell
polaris_guestshell_files_read(polaris_install_mgr_t)

# install manager access to /lib/systemd/systemd
polaris_init_access_check(polaris_install_mgr_t)

# install manager reads dcmlog.txt
optional_policy(
    gen_require(
        type polaris_fed_debug_dcmlog_t;
    )
read_files_pattern(polaris_install_mgr_t, polaris_fed_debug_dcmlog_t, polaris_fed_debug_dcmlog_t)
    )
# install manager reads /firmware
polaris_firmware_read(polaris_install_mgr_t)

# install manager reads /guestshell
gen_require(
    type polaris_guestshell_t;
    )
getattr_dirs_pattern(polaris_install_mgr_t, polaris_guestshell_t, polaris_guestshell_t)

# install manager reads /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_read(polaris_install_mgr_t)

# install manager writes /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_write(polaris_install_mgr_t)

# install manager reads /tmp/sw/boot/rmonbifo during auto_upgrade
polaris_rmonbifo_tmp_read(polaris_install_mgr_t)

# install manager reads /tmp/tmppub during auto_upgrade
polaris_btrace_tmppub_read(polaris_install_mgr_t)
# install manager accesses /tmp/rsync_log_dir during auto_upgrade
polaris_manager_rsync_tmplog_dir(polaris_install_mgr_t)

# install manager invokes mcp_chvrf.sh for rsync operations during auto_upgrade
polaris_chvrf_domtrans(polaris_install_mgr_t)

polaris_bexecute_domtrans(polaris_install_mgr_t)

ifdef('ngwc_family',`
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
`)

ifdef('mcp_family',`
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
`)

ifdef('wlc_family',`
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
`)

# with "/bootflash"...this needs read and attr to access for logfile
polaris_read_user_file(polaris_install_mgr_t)
polaris_user_file_getattr(polaris_install_mgr_t)

# auto upgrade server bind operation when install manager initialize auto upgrade server
corennet_tcp_bind_polaris_autoupgrade_port(polaris_install_mgr_t)

# access to /tmp/etc
polaris_etc_list(polaris_install_mgr_t)

# read access to /tmp/etc/installer
polaris_install_tmp_read(polaris_install_mgr_t)
polaris_script_errmsg_use(polaris_install_mgr_t)

# install mgr calls install_abort.sh on rollback timer expiry
polaris_install_engine_domtrans(polaris_install_mgr_t)

# /tmp/ufs/crashinfo access
optional_policy(
  polaris_ncd_tmp_read(polaris_install_mgr_t)
)

# read/write to /bootflash/.rollback_timer/install_abort_time
polaris_rbtimer_bootflash_manage(polaris_install_mgr_t)

allow polaris_install_mgr_t self:process setpgid;

optional_policy(
  polaris_efi_files_list_dirs(polaris_install_mgr_t)
)

# walk all files on "install issu activate" and "install remove inactivate" CLI
files_read_all_files(polaris_install_mgr_t)

# install mgr file descriptor leaks into mcp_chvrf.sh for rsync operation
gen_require('
  type polaris_chvrf_t;
')
allow polaris_chvrf_t polaris_install_mgr_t:file read;

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.te
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
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#

policy_module(polarisconfd, 1.0);

gen_require('
  type polaris_confd_t;
')

# confd-startup.sh calls confd_cmd to get_phase and other cases
# that utilities under confd label connects to confd
polaris_ripe_confd_ipc_connect(polaris_confd_t)

# confd needs communicate over HTTP
corenent_tcp_bind_http_port(polaris_confd_t)
# complex_main (port 5000) is used by apache
corenet_udp_bind_complex_main_port(polaris_confTd)

corenet_tcp_bind_generic_node(polaris_confTd)
allow polaris_confTd self:tcp_socket { getattr getopt setopt bind create listen accept connect read write };

corenet_udp_bind_generic_node(polaris_confTd)
allow polaris_confTd self:udp_socket { bind connect create getattr setopt);
corenet_udp_bind_polaris_confTd_snmp_traps_port(polaris_confTd)

logging_send_syslog_msg(polaris_confTd)

polaris_chasfs_manage(polaris_confTd)
polaris_btrace_data_manage(polaris_confTd)
polaris_cpld_read(polaris_confTd)
polaris_boot_tmp_read(polaris_confTd)
polaris_rmonbifo_tmp_read(polaris_confTd)

# run ldd, which in turns execue "ld.so --verify"
libs_exec_ld_so(polaris_confTd)

# confd-startup.sh process is shell script need permission to execute shell
# and variety of small util commands under bin_t
corecmd_exec_shell(polaris_confTd)
corecmd_exec_bin(polaris_confTd)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_confTd)

# confdexec needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_confTd)

allow polaris_confTd self:capability { net_admin sys_resource };

# allow read permissions for /etc/hosts file
sysnet_read_confign(polaris_confTd)

# allow read permissions for /var/run/netns/8
fs_read_nsfs_files(polaris_confTd)

# work with /var/confd0/ files
type polaris_confTd_var_t;
files_tmp_file(polaris_confTd_var_t)
polaris_confTd_var_filen trans(polaris_confTd, dir, "confd0")
manage_files_pattern(polaris_confTd_var_t, polaris_confTd_var_t, polaris_confTd_var_t)
manage_lnk_files_pattern(polaris_confTd, polaris_confTd_var_t, polaris_confTd_var_t)
manage_dir_file_pattern(polaris_confTd, polaris_confTd_var_t, polaris_confTd_var_t)
erlang calls efile_fileinfo function (.erts/emulator/drivers/unix/unix_efile.c)

root directory. Inside of the function code calls 'access' function that check
access permission for R_OK and W_OK. W_OK triggers denial warning. Instead of
granting access let's mark it as dontaudit. Erlang will be fine with this
files_dontaudit_write_root_dirs(polaris_confd_t)

# deals with /dev/shm/confd files (shared memory and pid)
type polaris_confd_shm_t;
files_tmpfs_file(polaris_confd_shm_t)

# confd-startup.sh modifies confd.conf which is under polaris_confd_var_t label
# sed -i /CONFD_FXS_CISCO_AUTOGEN_EWLC/d /var/confd0/confd.conf
allow polaris_confd_t self:process setfscreate;

type polaris_confd_ndbutil_lock_t;
files_lock_file(polaris_confd_ndbutil_lock_t)

# confd mmap_schema utility runs from systemd unit under polaris_confd_t label
polaris_confd_shm_setup(polaris_confd_t)
# create ndbutil directory under /var/lock
polaris_confd_ndbutil_create(polaris_confd_t)

# Allow access to /crashinfo
polaris_disk_crashinfo_getattr(polaris_confd_t)

optional_policy(`
# confd-startup.sh on nyquist makes ls /tmp/ufs/crashinfo
polaris_ncd_tmp_read(polaris_confd_t)
`)

# confd-startup.sh reads /proc/cmdline
kernel_read_system_state(polaris_confd_t)

# LOOK AT ME allow mapping of low addresses, that could be exploited
# need to understand why; unfortunately confd symbols are not decodable
# need to ask tail-f guys
ifdef(`tsn_platform',`
domain_mmap_low_uncond(polaris_confd_t)
gen_require(`
    type polaris_confd_cli_t;
`)
domain_mmap_low_uncond(polaris_confd_cli_t)
`)
ifdef(`quake_platform',`
domain_mmap_low_uncond(polaris_confd_cli_t)
`)
`polaris_mmap_schema_domtrans(polaris_conf_conf)``

# mmap_schema process policy

`gen_require(
    type polaris_mmap_schema_t;
)``

`polaris_btrace_data_manage(polaris_mmap_schema_t)`
`polaris_chasfs_read(polaris_mmap_schema_t)`
`polaris_cpld_read(polaris_mmap_schema_t)`
`polaris_flashlib_read(polaris_mmap_schema_t)`

`polaris_db_tdlldb_dir_use(polaris_mmap_schema_t)`

`polaris_conf_conf_ndbutil_create(polaris_mmap_schema_t)`
`polaris_conf_conf_shm_setup(polaris_mmap_schema_t)``

# connects to confg mmap_schema is not TDL process, let
# grant explicit permission to access corresponding port
`polaris_ripc_conf_conf_ipc_connect(polaris_mmap_schema_t)`
`allow polaris_mmap_schema_t self:tcp_socket { connect create setopt };`
`polaris_socketat_nsfs_read(polaris_mmap_schema_t)`

`allow polaris_mmap_schema_t self:capability dac_override;`

`polaris_tdlresolve_read(polaris_mmap_schema_t)`
`polaris_conf_conf_read(polaris_mmap_schema_t)`

`polaris_ndbmand_ndbutil_manage(polaris_mmap_schema_t)`

optional_policy(
    `polaris_gnmib_ndbutil_lock(polaris_mmap_schema_t, ".l.schema_use.gnmib")`
)

`type polaris_conf_conf_tmp_t;`
`files_tmp_file(polaris_conf_conf_tmp_t)`
`polaris_systemd_tmpfiles_tmp_filetrans(polaris_conf_conf_tmp_t, dir, "conf")`  
`files_tmp_filetrans(polaris_conf_conf_tmp_t, polaris_conf_conf_tmp_t, dir, "conf")`  
`manage_files_pattern(polaris_conf_conf_tmp_t, tmp_t, polaris_conf_conf_tmp_t)`  
`manage_fifo_files_pattern(polaris_conf_conf_tmp_t, tmp_t, polaris_conf_conf_tmp_t)`  
`manage_dirs_pattern(polaris_conf_conf_tmp_t, tmp_t, polaris_conf_conf_tmp_t)`

# posix_pathconf called from get_tmpdir calls starvfs over /tmp
`fs_getattr_tmpfs(polaris_conf_conf_t)`

# dmi_ports_fetch that runs under confd_t reads global.service.conf
polaris_tdlresolve_read(polaris_confd_t)
cfd_exec_dmi_ports_fetch(polaris_confd_t)

# confd-startup script reads /tmp/dmi.ds_config if it exists
polaris_psdf_tmp_read(polaris_confd_t)

# vip-confd-startup.sh related
# figure out BOOT_ROLE in install_util.sh
polaris_read_packages_conf(polaris_confd_t)
# touch /bootflash/swan/day0_oper.xml
allow polaris_confd_t self:capability dac_override;
polaris_bootflash_manage(polaris_confd_t)
#/usr/bin/swy synccdb call uuidgen
dev_read Rand(polaris_confd_t)

polaris_dmiauthd_tmp_manage(polaris_confd_t)

# PLEASE LOOK AT ME: overloaded use of /bootflash/.installer and
# /bootflash/.sdwaninstaller directories. In controller mode cedge code loopback
# mounts /bootflash/.sdwaninstallerfs file onto /bootflash/.sdwaninstaller and
# creates /bootflash/.installer symbolic link to it. As result effective
# /bootflash/.installer carries two meaning: used by polaris install infra for
# regular install operations, and keep persistent state in controller mode. For
# now /bootflash/.sdwaninstallerfs was forced to be mounted with
# polaris_disk_install_t label, so installer policy would be happy, but confd
# writes it through /var/confd0 which is symbolic link to
# /bootflash/.installer/images/pkg_boot_17.3.01/confd0 that means we need to
# grant polaris_disk_install_manage to confd which is not good thing.
# It would be much better if two different directories would be used.
polaris_disk_install_manage(polaris_confd_t)

# /var/log/confd handling
type polaris_confd_var_log_t;
logging_log_file(polaris_confd_var_log_t)
polaris_confd_var_log_manage(polaris_confd_t)

# /etc/version handling
type polaris_confd_etc_t;
files_config_file(polaris_confd_etc_t)
files_etc_filetrans(polaris_confd_t, polaris_confd_etc_t, file, "version")
gen_require(
    type etc_t;
')
manage_files_pattern(polaris_confd_t, etc_t, polaris_confd_etc_t)

# "/usr/bin/swy synccdb" calls "confd_cmd -p 3010 -o -c "delete /software"
# that invokes /usr/binos/conf/install_assist.sh
polaris_install_engine_domtrans(polaris_confd_t)
# confd calls /usr/bin/sw that creates temp files in /tmp/cedge_sw_log  
# since it runs under same domain make sure that cedge_sw_log gets  
# right label
files_tmp_filetrans(polaris_confd_t, polaris_confd_tmp_t, dir, "cedge_sw_log")

# /tmp/confd_booted created by vip-confd-start
files_tmp_filetrans(polaris_confd_t, polaris_confd_tmp_t, file, "cedge_booted")

# runs flashutils to read rommon variables
polaris_flashlib_read(polaris_confd_t)

allow polaris_confd_t self:capability fowner;

optional_policy('  
# work with /tmp/.econfd2sysmgr-ipc
polaris_econfd2sysmgr_tmp_manage(polaris_confd_t)
')

# confdexec calls dmidecode to get bios-vendor
dmidecode_domtrans(polaris_confd_t)

optional_policy('  
# polaris_sw.sh called in confd context accesses  
#/etc/viptela/controller_version
polaris_cedge_etc_manage(polaris_confd_t)
')

# PLEASE LOOK AT ME confd tcp ports are supposed to be handle  
# through TDL pseudo services, that one it not
corennet_tcp_connect_polaris_confd_maapi_port(polaris_confd_t)

# confd starts cmdptywrapper utility through erl_child_setup  
# that allocates free pty device using operations on /dev/ptms
allow polaris_confd_t self:capability { fsetid setgid };  
term_getattr_pty_fs(polaris_confd_t)  
term_setattr_generic_ptys(polaris_confd_t)  
term_use_generic_ptys(polaris_confd_t)  
term_use_ptmx(polaris_confd_t)

# uses nice utility to start misc scripts
allow polaris_confd_t self:process setsched;

# allow netconf_callhome to execute ncsshd under ncsshd domain
polaris_ncsshd_mgmt_domtrans(polaris_confd_t)

# allow DmiAuth spawned by confd to access /tmp/.DmiAuth.socket
polaris_dmi_dmiauthd_dgram_send(polaris_confd_t)
# the default port for NETCONF Call Home (SSH) is 4334,
# and it is configurable by users
corenet_tcp_connect_all_ports(polaris_confd_t)
# by default the port is selected by system, and it is configurable by users
corenet_tcp_bind_generic_port(polaris_confd_t)
# netconf_callhome may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_confd_t)

# cmdwrapper utility that started by confd calls xstat
allow polaris_confd_t self:capability setuid;

# label for /tmp/vconfd temporary files created by binos/viptela/vconfd/*.sh
# scripts created from viptela/vconfd/vconfd_script_cli_session.sh
type polaris_vconfd_tmp_t;
files_tmp_file(polaris_vconfd_tmp_t)
# confd writes /tmp/vconfd/USID.XXX and /tmp/vconfd/THANDLE.YYY files
polaris_vconfd_tmp_manage(polaris_confd_t)

# label for /tmp/confd_cli temporary files created by execute_confed_cli.sh
# scripts created from viptela/vconfd/vconfd_script_cli_session.sh
type polaris_confed_cli_tmp_t;
files_tmp_file(polaris_confed_cli_tmp_t)
# execute_confed_cli creates /tmp/sh-thd moved to /tmp/confd_cli
files_tmp_filetrans({ polaris_confd_t polaris_confed_cli_t_t}, polaris_confed_cli_tmp_t, dir, "confd_cli")

# execute_confed_cli.sh script policy
polaris_utility_domain_template(confed_cli)
polaris_bexecute_domain(polaris_confed_cli_t, polaris_confed_cli_exec_t)

polaris_chasfs_read(polaris_confed_cli_t)
corecmd_exec_shell(polaris_confed_cli_t)
corecmd_exec_bin(polaris_confed_cli_t)
auth_use_nsswitch(polaris_confed_cli_t)
# bash get_tmpdir statfs /tmp directory
fs_getattr_tmpfs(polaris_confed_cli_t)

polaris_confed_cli_tmp_manage(polaris_confed_cli_t)
polaris_vconfd_tmp_manage(polaris_confed_cli_t)
telnet_use_ptys(polaris_confed_cli_t)
	polaris_ripc_confd_ipc_connect(polaris_confed_cli_t)

# execute_confed_cli.sh -a -g PRIV00 runs grep over /bootflash/sdwan/.init_stage
polaris_bootflash_read(polaris_confed_cli_t)

# execute_confed_cli.sh writes to "pipe:[24719894]"
polaris_dmi_ncsshd_fwd_use_fifo(polaris_confed_cli_t)
allow /usr/binos/conf/bexecute.sh for tcp_socket access
# due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
# /usr/binos/conf/bexecute.sh -c /bin/mcp_pkg_wrap rp_daemons
# /usr/binos/conf/execute_co"
allow polaris_confd_cli_t polaris_dmi_nccshd_fwd_t:tcp_socket ioctl;
#===========================================================================
# admin-tech : scripts in binos/viptela/vconfd/*admin_tech*.sh
# Invocation triggered here:
# viptela/vconfd/viptela-actions.yang: tailf:exec "vconfd_script_admin_tech.sh"
#===========================================================================
polaris_vconfd_domain_template(admin_tech)

# /bin/bash /usr/binos/conf/bshell.sh -S -c
#    show platform hardware qfp active infrastructure shared-memory
#    process cpp-control-pro....
polaris_bexecute_domtrans(polaris_admin_tech_t)

# admin-tech launches "ps" via scripts
domain_read_all_domains_state(polaris_admin_tech_t)

# See tracelogs accessed by vconfd_script_polaris_admin_tech_child.sh
polaris_btrace_data_manage_all(polaris_admin_tech_t)

# various utilities like "find", "memaudit", etc needs this
files_getattr_all_files(polaris_admin_tech_t)
files_getattr_all_dirs(polaris_admin_tech_t)
fs_getattr_all_fs(polaris_admin_tech_t)
files_read_all_files(polaris_admin_tech_t)

# '/bin/bash /usr/bin/memaudit' needs access to /proc/kmsg, /proc/mdstat, etc
dev_getattr_mtrr_dev(polaris_admin_tech_t)
kernket_read_all_proc(polaris_admin_tech_t)
dev_getattr_loop_control(polaris_admin_tech_t)

# infra/memaudit/memaudit uses dmesg
dmesg_domtrans(polaris_admin_tech_t)
gen_require(' type dmesg_t;
')
polaris_confd_unix_stream_stdio_use(dmesg_t)

# infra/memaudit/memaudit uses mount
mount_domtrans(polaris_admin_tech_t)

# infra/memaudit/memaudit uses fdisk
fstools_domtrans(polaris_admin_tech_t)
polaris_nvram_read(polaris_admin_tech_t)
polaris_nvram_getattr(polaris_admin_tech_t)
# infra/memaudit/memaudit writes to /proc/sys/vm/drop_caches
kernel_rw_vm_sysctls(polaris_admin_tech_t)

# memaudit and smap needs 'getattr', 'search' on sysctl_irq_t:dir
kernel_read_irq_sysctls(polaris_admin_tech_t)

# du -b -s /tmp/cc /tmp/rp /tmp/fp
files_getattr_all_sockets(polaris_admin_tech_t)
files_getattr_all_pipes(polaris_admin_tech_t)

# df -Th -BM needs access to /run/ nets/2
fs_getattr_nsfs_files(polaris_admin_tech_t)

# ls /tmp/ufs/harddisk
# maapi --clicmd --get-io --no-hidden show configuration commit list
corecmd_exec_bin(polaris_admin_tech_t)

# bash vconfd_script_admin_tech.sh -u root -c cli executes:
# 1. map on /etc/passwd
auth_map_passwd(polaris_admin_tech_t)
# 2. hostname
hostname_exec(polaris_admin_tech_t)
# 3. journalctl
journalctl_domtrans(polaris_admin_tech_t)

# journalctl writes to /tmp/vm4-bootuplog-20200903-175223-UTC.log
# see vconfd_script_polaris_admin_tech_child.sh
gen_require('  
    type journalctl_t;
')
manage_files_pattern(journalctl_t, polaris_admin_tech_tmp_t, polaris_admin_tech_tmp_t)
polaris_confchk_unix_stream_stdio_use(journalctl_t)

# admin_tech reads /tmp/chassis/cpld/chasfs/board_vtype on crankshaft(sdan)
polaris_chasfs_read(polaris_admin_tech_t)

# find -H /misc/scratch -name MEMORY_LOG_*text
# memaudit writes to /bootflash/MEMORY_LOG_2020-07-28-01:32:11.text
# We also have 'mv -Z /bootflash/admintech /var/tech/ios'
# admin_tech watches /tmp/chassis/local/rp/chasfs/etc/ios_admintech_done
type polaris_admin_tech_data_t;
polaris_disk_type(polaris_admin_tech_data_t)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, dir)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, file)
polaris_admin_tech_data_manage(polaris_admin_tech_t)

# sdwan_tech_support.sh -o /var/tech/binos; work with /var/tech/ files
type polaris_admin_tech_var_t;
files_tmp_file(polaris_admin_tech_var_t)
files_var_filetrans(polaris_admin_tech_t, polaris_admin_tech_var_t, dir, "tech")
manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)
manage_dirs_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)

# vconfd_script_polaris_admin_tech.sh invokes vlog "Requested admin-tech initiated."
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - create/connect unix_dgram_socket of type polaris_admin_tech_t
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_admin_tech_t)

# maapi --cliget paginate: this performs connect to confd socket
polaris_rpipe_confid_ipc_connect(polaris_admin_tech_t)

# reads /tmp/chassis/cpld/chasfs/board_vtype
# on c8kv cpld is at /sys/bus/platform/devices/cpld which has sysfs_t LABEL
polaris_cpld_read(polaris_admin_tech_t)

# handle various files created under /tmp
type polaris_admin_tech_tmp_t;
files_tmp_file(polaris_admin_tech_tmp_t)
files_tmp_filetrans(polaris_admin_tech_t, polaris_admin_tech_tmp_t, file)
manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_tmp_t, polaris_admin_tech_tmp_t)

# As part of admin-tech generation on cEdges, vconfd_script_polaris_admin_tech.sh
# invokes vconfd_script_polaris_admin_tech_child.sh which in turn invokes the
# script sdwan_tech_support.sh. The sdwan_tech_support.sh passes the file
# /tmp/sdwan_tech_support_command_file_out.txt to a bshell instance. The bshell
# instance does open operation on the file. So bshell needs open allow
# policy for /tmp/sdwan_tech_support_command_file_out.txt
gen_require('type polaris_bshell_t;')
allow polaris_bshell_t polaris_admin_tech_tmp_t:file open;

# maapi needs this.
allow polaris_admin_tech_t self:tcp_socket { getopt setopt create connect read write };

# tar --ignore-failed-read -czf /home/vmanage-admin/vm4-20200903-055157-admin-tech.tar.gz
# /tmp/fp/trace/cpp_cp_F0-0_TAN.20041_0.20
allow polaris_admin_tech_t self:capability dac_override;

# awk /^Shared/ {v += $2} END { print v} /proc/6384/smaps
allow polaris_admin_tech_t self:capability sys_ptrace;
# 'top -n1 -b' creates /.config dir
# TODO/LOOKATME: selinux team to review handling of this issue in a
# common way for invoking top
allow polaris_admin_tech_t root_t:dir create;

# "show installerfs" is invoked by vconfd_script_admin_tech_common.sh
# this invokes vconfd_script_show_installerfs.sh via confd
# let's execute this under install_show domain
polaris_install_show_domtrans(polaris_confTd_t)

# create_bootflash_snapshot() performs 'ls -l /bootflash/.installer'
polaris_disk_install_read(polaris_admin_tech_t)

# vconfd_script_polaris_admin_tech_child.sh
# mv /bootflash/admintech /var/tech/ios
allow polaris_admin_tech_t self:process setfscreate;

# rm -rf Scollated Ra (collated_log_*)

#Nutella-XE - Vedge image install
#/bin/sh /tmp/sw/rp/0/0/rp_security/mount/bin/sw synccdb
#mount -t vfat /dev/mmcblk0gp0p1 /gpp
mount_domtrans(polaris_confTd_t)

df /bootflash
fstools_domtrans(polaris_confTd_t)

#Nutella-XE - Vedge image activate
#/usr/binos/bin/flashutil --command unsetvar --name MIG_INT_STATE
polaris_flashlib_write(polaris_confTd_t)

# permit comm="ps" to "getattr" on dev="devtmpfs" for polaris_admin_tech_t
term_getattr_unallocated_ttys(polaris_admin_tech_t)

# permit to access polaris_proc_rmonbifo_t by
#/usr/bin/vconfd_script_admin_tech.sh
polaris_proc_rmonbifo_read(polaris_admin_tech_t)

# permit to access/unlink /bootflash by polaris_admin_tech_t
polaris_bootflash_manage(polaris_admin_tech_t)

# vconfd_script_admin_tech.sh executes 'top -n1 -b' which creates /.config dir
gen_require(
  type admin_home_t;
)
allow polaris_admin_tech_t admin_home_t:dir { add_name create write };

# vconfd_script_admin_tech.sh sources vconfd_script_cli_session.sh and calls
# start_cli_session() which writes to /tmp/vconfd/USID.XXX,
# /tmp/vconfd/THANDLE.YYY and /tmp/vconfd/start_cli.XXXXXXXXX
polaris_vconfd_tmp_manage(polaris_admin_tech_t)

# work with "/tmp/fp/pvp/work/inot_fifo"
polaris_pvp_stdin_read(polaris_admin_tech_t)

# work with "/tmp/fp/trace/fifo/pvp_ship%fp_0_0_22607_fifo"
polaris_use_btrace_fifo(polaris_admin_tech_t)

# access to tunnel interface from snapshot_cdb()
corenet_rw_tun_tap_dev(polaris_confd_t)

# access to /tmp/bootstrap/sdwan/ciscosdwan_cloud_init.cfg
init_read_script_tmp_files(polaris_confd_t)

# "vconfd_notifier security-clear-installed-cert" reads
# /var/run/netns/default which is symlinked to /proc/1/ns/net
polaris_cedge_reset_ns(polaris_confd_t)

# allow /usr/binos/conf/execute_confd_cli.sh to access polaris_disk_install_t
polaris_disk_install_read(polaris_confd_cli_t)

# vconfd script ends up cleaning core files, most likely its
# vconfd_script_polaris_admin_tech_child.sh, so it needs read/write
# permission to polaris_core_file_t files.
polaris_core_file_manage(polaris_admin_tech_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.te
No license file was found, but licenses were detected in source scan.

#
# OWNERS - Code Ownership
#
# For information on the purpose and format of this file see:
#
# Copyright (c) 2019-2021 by Cisco Systems, Inc.
# All rights reserved.
#
*
@csg/polaris-selinux-dev

# iox team related files
polariscontainer* @csg/polaris-selinux-dev @csg/iox-selinux
polariscaf* @csg/polaris-selinux-dev @csg/iox-selinux
polarisgsdrp* @csg/polaris-selinux-dev @csg/iox-selinux
polarisioxman* @csg/polaris-selinux-dev @csg/iox-selinux
polarisvman* @csg/polaris-selinux-dev @csg/iox-selinux

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/OWNERS
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#

## <summary>Polaris lm Policy Rules.</summary>

###################################################
## <summary>
## Read files of type polaris_lm_tmp_t (e.g., /tmp/iosd_level)
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_lm_tmp_read',
    gen_require('type polaris_lm_tmp_t;
    ')
    read_files_pattern($1, polaris_lm_tmp_t, polaris_lm_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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# All rights reserved
#

## <summary>Polaris nmspd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnmspd.if
No license file was found, but licenses were detected in source scan.

```plaintext
dnl April 2018, Victor Kamensky
dnl
define('polaris_database','dnl
########################################
## <summary>
##	Use $2 database.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
##</summary>
## </param>
## <infoflow type="none"/>
#
interface(``polaris_db_tdldb_$1_use'',``
gen_require(
    type $2;
')

    polaris_tdldb_use(dollarsone, $2, $3)
")
')

define('polaris_database_db_if.m4',
    polaris_database_aux(database_stem($1), database_label($1), $1)dnl
')

define('polaris_database_process',")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/m4/polaris_database_db_if.m4

No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2021 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarishm, 1.0);
```
gen_require(
    type polaris_hm_t;
)

polaris_btrace_data_manage(polaris_hm_t)
polaris_chasfs_manage(polaris_hm_t)
polaris_tldresolve_read(polaris_hm_t)
polaris_tldldb_list_dirs(polaris_hm_t)
polaris_cpld_read(polaris_hm_t)
polaris_lua_read(polaris_hm_t)
polaris_flashlib_read(polaris_hm_t)

polaris_ripc_sman_ui_serv_connect(polaris_hm_t)

polaris_db_tldldb_dir_use(polaris_hm_t)

files_getattr_all_files(polaris_hm_t)
files_getattr_all_dirs(polaris_hm_t)
gen_require('attribute non_security_file_type;
')
allow polaris_hm_t [ non_security_file_type ]:dir list_dir_perms;

# hman need to read proc for all processes to collect CPU
# utilization information
domain_read_all_domains_state(polaris_hm_t)
domain_signull_all_domains(polaris_hm_t)

kernel_read_system_state(polaris_hm_t)

# hman needs to run "df /dev/shm" command
corecmd_exec_bin(polaris_hm_t)
corecmd_exec_shell(polaris_hm_t)

# hman needs to operate on all maroon files
polaris_maroon_data_manage_all(polaris_hm_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_hm_t)

fs_getattr_tmpfs(polaris_hm_t)

# work with /tmp files (/tmp/myhostname)
type polaris_hm_tmp_t;
files_tmp_file(polaris_hm_tmp_t)
manage_files_pattern(polaris_hm_t, tmp_t, polaris_hm_tmp_t)
files_tmp_filetrans(polaris_hm_t, polaris_hm_tmp_t, file, "myhostname")
allow polaris_hm_t self:capability { chown fsetid dac_override kill sys_resource sys_ptrace }; 
allow polaris_hm_t self:process setsched; 
allow polaris_hm_t self:unix_dgram_socket create; 
allow polaris_hm_t self:cap_users { kill sys_ptrace }; 

polaris_boot_tmp_read(polaris_hm_t) 

# Allow write to flash. Needed for usb disable feature
ifdef(`ngwc_family',`
  polaris_flashlib_write(polaris_hm_t)
')

# "show platform software mount RP active" command needs attributes of 
# all file systems
  fs_getattr_all_fs(polaris_hm_t)
# above show command accesses /var/run/netns/2
  fs_read_nsfs_files(polaris_hm_t)
# reads /scratch link which is labeled as polaris_disk_bootflash_t
  polaris_disk_bootflash_read_link(polaris_hm_t)
  polaris_disk_harddisk_read_link(polaris_hm_t)

# needed for "show platform software bound-uds RP active"
  kernel_read_network_state(polaris_hm_t)

# "show rom-monitor R0" needs content of /proc/rmonbifo/bootver;
# please refer to hman_ui.tpp file
  polaris_proc_rmonbifo_read(polaris_hm_t)

# "show plat soft yang-management process r0" invokes hm_show_yang_proc_cb;
# "show plat soft iox-service" invokes hm_iox_srvc_show_cb;
# They invoke "ps -C" which needs access to /sys/devices/system/cpu/online
# TODO: should we replace system() with something like hm_get_procs_with_name_running
  dev_read_sysfs(polaris_hm_t)
# "show platform software yang-management process state" invokes /bin/mcp_pkg_wrap,
# which sources /tmp/sw/boo/rombifo/env_var.sh
  polaris_rmonbifo_tmp_read(polaris_hm_t)
# show iox-service requires reading of libvirt_ver of created under CAF context
optional_policy(
  polaris_caf_tmp_files_read(polaris_hm_t)
')

# hardcoded policy for hm to df, per Victor
optional_policy(
  gen_require(
    type polaris_iosd_portal_dmi_lipc_t;
    type polaris_iosd_portal_app_lipc_t;
  )
  allow polaris_hm_t { polaris_iosd_portal_dmi_lipc_t polaris_iosd_portal_app_lipc_t }:sock_file getattr;
)
# during "show version installed" command
# "grep -q srdriver /tmp/sw/rp/local/0/rp_base/iso" which is link to the universal image
polaris_bootflash_read(polaris_hm_t)
# this is for calcsha.sh (invoked by the command above) but might work for others too
polaris_install_engine_domtrans(polaris_hm_t)
# this if for hman to read and delete /tmp/version.info created by calcsha.sh in prev context type
polaris_install_tmp_read(polaris_hm_t)
gen_require('  type polaris_install_tmp_t;
')
allow polaris_hm_t polaris_install_tmp_t:file unlink;

# need open, read on /bootflash/packages.conf (grep sha1sum: /tmp/packages.conf)
polaris_read_packages_conf(polaris_hm_t)

# This is created for hman to grant it access to /bootflash/topnmemuse
polaris_bootflash_manage(polaris_hm_t)

# read /tmp/pkg_summary.txt file
polaris_pkg_summary_tmp_read(polaris_hm_t)

polaris_zram_getattr(polaris_hm_t)

optional_policy('  polaris_ssd_auth_domtrans(polaris_hm_t)
')

optional_policy('  polaris_ssd_unmount_domtrans(polaris_hm_t)
')

optional_policy('  polaris_confdomtrans(polaris_hm_t)
')

# show platform software process slot R0 monitor
# mcp_monitor_process_batchmode.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_monitor_process_batchmode.sh -n 1 -d 3 -l 0
polaris_utility_domain_template(monitor_process)

polaris_bexecute_domtrans(polaris_hm_t)
polaris_bexecute_domain(polaris_monitor_process_t, polaris_monitor_process_exec_t)

# mcp_monitor_process_batchmode.sh calls "top" command
# "top" needs read/getattr access of various files in the system
domain_read_all_domains_state(polaris_monitor_process_t)

# "top" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_process_t)

# "top" need read access to /proc/meminfo, /proc/stat
kernel_read_system_state(polaris_monitor_process_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_process_t)

# need write/ioctl/getattr access for pipes like "pipe:[118396]"
polaris_hman_use_fifo(polaris_monitor_process_t)

corecmd_exec_bin(polaris_monitor_process_t)

gen_require('  
  type admin_home_t;
')
#top -b -n3 -d3 needs permission to create dir /.config ,write
#to files and add files
allow polaris_monitor_process_t admin_home_t:dir { add_name create write };  
allow polaris_monitor_process_t self:capability sys_ptrace;
*******************************************************************************
*******************************************************************************
# pkg_summary.sh : show version R0 installed
# /bin/bash /usr/binos/conf/pkg_summary.sh -o /tmp/pkg_summary.txt -d model -P
*******************************************************************************

polaris_utility_domain_template(pkg_summary)

polaris_pkg_summaryDomtrans(polaris_hm_t)

# it executes find /tmp/sw -maxdepth 5 -mindepth 5 -name mount
files_getattr_all_dirs(polaris_pkg_summary_t)
files_getattr_all_files(polaris_pkg_summary_t)
files_read_all_dirs_except(polaris_pkg_summary_t)

polaris_chasfs_read(polaris_pkg_summary_t)
polaris_cpld_read(polaris_pkg_summary_t)
polaris_use_btrace_fifo(polaris_pkg_summary_t)
polaris_rmonbifo_tmp_read(polaris_pkg_summary_t)
polaris_btrace_data_manage(polaris_pkg_summary_t)
polaris_boot_tmp_read(polaris_pkg_summary_t)

# need open, read on /bootflash/debug.conf
polaris_read_debug_conf(polaris_pkg_summary_t)

polaris_read_packages_conf(polaris_pkg_summary_t)

allow polaris_pkg_summary_t self:capability sys_resource;

corecmd_exec_bin(polaris_pkg_summary_t)

auth_use_nsswitch(polaris_pkg_summary_t)

polaris_disk_crashinfo_getattr(polaris_pkg_summary_t)

# read /proc/cmdline
kernel_read_system_state(polaris_pkg_summary_t)

# handle /tmp/pkg_summary.txt file
type polaris_pkg_summary_tmp_t;
files_tmp_file(polaris_pkg_summary_tmp_t)
files_tmp_filetrans(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, file)
manage_files_pattern(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t)

# pkg_to_tree.sh : Generates a software tree based on a provisioning file.
# /bin/bash /usr/bin/os/conf/pkg_to_tree.sh -c /tmp/packages.conf
#   -t /tmp/show_patch_provision_temp -p /tmp/sw/isos
#   -r /tmp/show_provision_temp -a -q

type unconfined_service_t;
unconfined_service_t polaris_hm_t)

polaris_to_tree_domtrans([{unconfined_service_t polaris_hm_t}])

files_getattr_all_files(polaris_pkg_to_tree_t)
polaris_harddisk_read(polaris_pkg_to_tree_t)
polaris_cpld_read(polaris_pkg_to_tree_t)
polaris_use_btrace_fifo(polaris_pkg_to_tree_t)
polaris_rmonbifo_tmp_read(polaris_pkg_to_tree_t)
polaris_btrace_data_manage(polaris_pkg_to_tree_t)
polaris_boot_tmp_read(polaris_pkg_to_tree_t)
polaris_patch_data_manage(polaris_pkg_to_tree_t)

# if being executed on other node, telnet /dev/ptsN might be used
# as stdin/stdout
`telnet_use_ptys(polaris_pkg_to_tree_t)`

`# pkg_to_tree.sh creates/deletes directories and files under`  
`# /tmp/show_provision_temp`  
`type polaris_show_provision_tmp_t;`  
`files_tmp_file(polaris_show_provision_tmp_t)`  
`polaris_show_provision_temp_manage(polaris_pkg_to_tree_t)`

`# pkg_to_tree.sh verifies each package as it is mounted`  
`polaris_code_verify_domtrans(polaris_pkg_to_tree_t)`

`corecmd_exec_bin(polaris_pkg_to_tree_t)`

`polaris_disk_crashinfo_getattr(polaris_pkg_to_tree_t)`

`# manage the /tmp/lf symbolic link`  
`type polaris_pkg_to_tree_tmp_t;`  
`files_tmp_file(polaris_pkg_to_tree_tmp_t)`  
`files_tmp_filetrans(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, lnk_file, "lf")`  
`manage_lnk_files_pattern(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, polaris_pkg_to_tree_tmp_t)`

`# permit pkg_to_tree.sh mounting to use conf/pkg files in bootflash`  
`polaris_bootflash_read(polaris_pkg_to_tree_t)`  
`polaris_disk_bootflash_search(polaris_pkg_to_tree_t)`

`# we want to read the existing mounts in chasfs`  
`polaris_chasfs_read(polaris_pkg_to_tree_t)`

`# pkg_to_tree.sh interfaces with installer data, including ISSU files`  
`polaris_install_tmp_log_write(polaris_pkg_to_tree_t)`  
`polaris_sw_data_manage(polaris_pkg_to_tree_t)`  
`polaris_read_packages_conf(polaris_pkg_to_tree_t)`  
`polaris_issu_tmp_files_manage(polaris_pkg_to_tree_t)`  
`polaris_install_tmp_manage(polaris_pkg_to_tree_t)`

`# allow pkg_to_tree.sh to do the loopback mounts of packages and manage`  
`# mount links in tmp. This includes mapping mounted passwd file and`  
`# mounting sysfs. This is also needed to mount /mnt/sd3/iox_alt_hdd.dsk`  
`mount_domtrans(polaris_pkg_to_tree_t)`  
`auth_map_passwd(polaris_pkg_to_tree_t)`  
`dev_list_sysfs(polaris_pkg_to_tree_t)`  
`allow polaris_pkg_to_tree_t sysfs_t:file { getattr open read };`  
`allow polaris_pkg_to_tree_t tmp_t:lnk_file { create rename unlink };`  

`# when expanding/installing super images, pkg_to_tree uses install_engine_exec_t`  
`# utilities like issu_check`  
`polaris_install_engine_domtrans(polaris_pkg_to_tree_t)`
# misc hman cli(s)

### misc hman cli(s)

# hman needs access to /bootflash/.issu_loc_lock
polaris_issu_files_manage(polaris_hm_t)

# hman process creates/deletes directories and files under
# /tmp/show_provision_temp
polaris_show_provision_temp_manage(polaris_hm_t)

# signal send during show platform software process slot R0 monitor
polaris_send_signal_to_bexecute(polaris_hm_t)

polaris_dyncfg_tmp_read(polaris_hm_t)

polaris_disk_crashinfo_getattr(polaris_hm_t)

# setting up /dev/ttyS0 speed from hman_handle_console_baud_rate_change
term_use_unallocated_ttys(polaris_hm_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_hm_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_hm_t)

# hman starts agetty-iosd.service in case of nyquist stack
getty_systemctl(polaris_hm_t)

# This block is policies for "sh pla so filesystem bootflash: de" CLI
polaris_utility_domain_template(cli_fs_cmds)

gen_require('  
    type polaris_bexecute_t;
  ')
polaris_bexecute_domtrans(polaris_cli_fs_cmds_t)
polaris_cli_fs_cmds_domtrans(polaris_bexecute_t)
telnet_use_ptys(polaris_cli_fs_cmds_t)

# Blanket permission for disk management for cli_fs_cmds (for show/erase fs)
polaris_persistent_manage(polaris_cli_fs_cmds_t)
# permission to manage removable (seems pretty safe)
polaris_removable_manage(polaris_cli_fs_cmds_t)
polaris_getattr_removable(polaris_cli_fs_cmds_t)
fs_read_removable_symlinks(polaris_cli_fs_cmds_t)
# btrace.sh needs these
polaris_boot_tmp_read(polaris_cli_fs_cmds_t)
polaris_btrace_tmppub_read(polaris_cli_fs_cmds_t)
# this is for NFS access mounted in a dir of ncd context
optional_policy(
    polaris_ncd_tmp_read(polaris_cli_fs_cmds_t)
)

# need to access pipes like pipe:[107820]
polaris_hman_use_fifo(polaris_cli_fs_cmds_t)

# df or stat the mount point
fs_getattr_nfs(polaris_cli_fs_cmds_t)
# mkfs permissions via domtrans
fstools_domtrans(polaris_cli_fs_cmds_t)
# runs NFS exportfs (copied from ncd)
rpc_read_exports(polaris_cli_fs_cmds_t)
rpc_write_exports(polaris_cli_fs_cmds_t)
rpc_manage_nfs_state_data_dir(polaris_cli_fs_cmds_t)
rpc_manage_nfs_state_data(polaris_cli_fs_cmds_t)
fs_rw_nfsd_fs(polaris_cli_fs_cmds_t)
kernelfrw_rpc_sysctls(polaris_cli_fs_cmds_t)
fs_getattr_xattr_fs(polaris_cli_fs_cmds_t)
# rsync/remote_format perms (rsync borrowed from polariscrft.te)
polaris_udev_tmp_list_dirs(polaris_cli_fs_cmds_t)
gen_require(
    type rsync_exec_t;
    type rsync_port_t;
    type rsync_tmp_t;
)
allow polaris_cli_fs_cmds_t rsync_port_t:tcp_socket name_connect;
allow polaris_cli_fs_cmds_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
allow polaris_cli_fs_cmds_t rsync_tmp_t:file open;
allow polaris_cli_fs_cmds_t self:capability { chown fsetid setgid };

# Need to access /proc/self/fd/1 by platform_fs_operation.sh which is invoked by
# /bin/bash/usr/binos/conf/mcp_cli_fs_cmds.sh show bootflash:all
fs_associateProc(polaris_cli_fs_cmds_t)
polaris_cli_fs_cmds_domtrans(polaris_hm_t)
corecmd_exec_bin(polaris_cli_fs_cmds_t)
polaris_cpld_read(polaris_cli_fs_cmds_t)
polaris_chasfs_manage(polaris_cli_fs_cmds_t)
polaris_use_btrace_fifo(polaris_cli_fs_cmds_t)
polaris_rmonbifo_tmp_read(polaris_cli_fs_cmds_t)
auth_use_nsswitch(polaris_cli_fs_cmds_t)
# allow polaris_cli_fs_cmds_t polaris_udev_tmp_files_t:file open;
polaris_udev_tmp_read(polaris_cli_fs_cmds_t)
# watch on modify /tmp/udev/etc/udev/usbflash1-2/udev-info for remote/stby usb device
polaris_udev_tmp_watch(polaris_cli_fs_cmds_t)

# allow to run mount in its own domain
mount_domtrans(polaris_cli_fs_cmds_t)
# runs systemctl to remount file system.
# usb[01] fs_target remount service used.
systemd_exec_systemctl(polaris_cli_fs_cmds_t)
systemd_config_generic_services(polaris_cli_fs_cmds_t)

# allow to run readlink -f /dev/bootflash1
storage_getattr_fixed_disk_dev(polaris_cli_fs_cmds_t)

# allow "format" CLI to add/delete links in /dev/, and /; e.g., /dev/harddisk1 /harddisk
ifdef('crankshaft_family',
     gen_require('        type device_t;
                     type root_t;
                     type udev_t;
     ')
     #/dev/harddisk1 /dev/harddisk1 -> /dev/dm-0
     filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
     filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
     #/harddisk -> /misc/scratch
     filetrans_pattern(polaris_cli_fs_cmds_t, root_t, polaris_disk_bootflash_t, lnk_file, "harddisk")

     manage_lnk_files_pattern(polaris_cli_fs_cmds_t, fixed_disk_device_t, fixed_disk_device_t)
)
seutil_domtrans_setfiles(polaris_cli_fs_cmds_t)
polaris_hman_use_fifo(setfiles_t)
# need open, read on /bootflash/packages.conf
polaris_read_packages_conf(polaris_cli_fs_cmds_t)

# "sed" needs access to /proc/cmdline
kernel_read_system_state(polaris_cli_fs_cmds_t)

# work with /tmp files (/tmp/fs_lock_bootflash)
type polaris_cli_fs_cmds_tmp_t;
gen_require('        type tmp_t;
     ')
files_tmp_file(polaris_cli_fs_cmds_tmp_t)
manage_files_pattern(polaris_cli_fs_cmds_t, tmp_t, polaris_cli_fs_cmds_tmp_t)
files_tmp_filetrans(polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_tmp_t, file)
"find /vol/disk0/caf" when show CLI is executed
polaris_caf_tmp_files_read(polaris_cli_fs_cmds_t)

#Caf and IOxMan-CLI interaction
polaris_caf_tmp_files_manage(polaris_cli_fs_cmds_t)

# mcp_cli_fs_cmds.sh show webui: all runs df -P /webui
fs_getattr_tmpfs(polaris_cli_fs_cmds_t)
polaris_persistent_getattr(polaris_cli_fs_cmds_t)
fs_getattr_xattr_fs(polaris_cli_fs_cmds_t)
allow polaris_cli_fs_cmds_t self:capability dac_override;
allow polaris_cli_fs_cmds_t self:dir { add_name write };

# allow caf access to mcp_cli_fs_cmds.sh for fsck on ngwc platforms
ifdef(`ngwc_family',`
domain_read_all_domains_state(polaris_cli_fs_cmds_t)
polaris_caf_domtrans(polaris_cli_fs_cmds_t)
polaris_caf_files_read(polaris_cli_fs_cmds_t)
dev_read_sysfs(polaris_cli_fs_cmds_t)
')

******************************************************************************
# fsck CLI using mcp_cli_fs_cmds.sh as tested on sparrow
******************************************************************************
# allow fsck in mcp_cli_fs_cmds.sh to execute udev in the udev domain
udev_domtrans(polaris_cli_fs_cmds_t)
# allow crypsetup to be executed
lvm_domtrans(polaris_cli_fs_cmds_t)
# allow fsck to run on bootflash
polaris_nvram_getattr(polaris_cli_fs_cmds_t)

# during SDWAN admin-tech generation, fs_display_*() in mcp_cli_fs_cmds.sh is
# invoked; this tries to find files like /bootflash/tracelogs/cia-netcon* with
# LABEL polaris_confd_var_log_t
polaris_confd_var_log_read(polaris_cli_fs_cmds_t)
******************************************************************************
# hm calls df to figure out tmpfs size, on some platforms
# where configfs is mounted it needs statfs access to it
gen_require(`
  type configfs_t;
')
allow polaris_hm_t configfs_t:dir getattr;

# hm populates vrf_shm on behalf of iosd, and may create
# and delete vrf-based netns
polaris_vrf_netns_manage(polaris_hm_t)
fsUnmount_nsfs(polaris_hm_t)
#read udev_info
polaris_udev_tmp_read(polaris_hm_t)

gen_require(
    type rsync_t;
)
allow rsync_t polaris_hm_t:fifo_file read;

# show platform software yang-management process monitor
# mcp_monitor_dmi_proc.sh
# /bin/bash /bin/mcp_pkg_wrap rp_daemons /usr/binos/conf/mcp_monitor_dmi_proc.sh

polaris_utility_domain_template(monitor_dmi_process)
polaris_bexecute_domain(polaris_monitor_dmi_process_t, polaris_monitor_dmi_process_exec_t)

# mcp_monitor_dmi_proc.sh calls "ps" command
# "ps" needs read/getattr access of various files in the system
# ps -eo comm,pid,s,vsize,rssize,%cpu,%mem,etime --sort=comm
domain_read_all_domains_state(polaris_monitor_dmi_process_t)

# "ps" needs access to /proc/uptime
kernel_read_system_state(polaris_monitor_dmi_process_t)

# "ps" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_dmi_process_t)

# "ps" need read access to /proc
kernel_list_proc(polaris_monitor_dmi_process_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_dmi_process_t)

# executes head command
corecmd_exec_bin(polaris_monitor_dmi_process_t)

# sources cyan_api.sh
files_exec_usr_files(polaris_monitor_dmi_process_t)

# /bin/bash /tmp/sw/rp/0/0/rp_daemons/mount/usr/binos/conf/mcp_monitor_dmi_proc.sh
corecmd_shell_entry_type(polaris_monitor_dmi_process_t)

# need write/ioctl/getattr access for pipes like "pipe:[79843]"
polaris_hman_use_fifo(polaris_monitor_dmi_process_t)
# read /etc/init.d/quad_sup_usb_infra.sh
init_read_script_files(polaris_cli_fs_cmds_t)
# This triggers access to /tmp/.flashlock and /dev/sda3
polaris_flashlib_lock(polaris_cli_fs_cmds_t)
# allow flash utility
polaris_flashlib_read(polaris_cli_fs_cmds_t)
# /sys/bus/usb/drivers/usb/*/authorized is accessed (read and write) from hman.
# For USB disable feature across all ngwc platforms needs authorized file to
# be accessed.
ifdef(`ngwc_family',`
    gen_require(`
    type sysfs_t;
    ')
    allow polaris_hm_t sysfs_t:file create;
    dev_rw_sysfs(polaris_hm_t)
    dev_manage_sysfs_dirs(polaris_hm_t)
    ')

# work with /tmp files (/tmp/usb-disable)
polaris_iosd_usb_disable_tmp_manage(polaris_hm_t)

# need access to tmp files created under issu directory
polaris_issu_tmp_files_read(polaris_hm_t)

# HMMAN calls for checking database compactability
# tdllib_db_epoch_test is requires access to /tmp/issu/provision/sw-running.txt
polaris_install_tmp_read(polaris_hm_t)

optional_policy(`
    polaris_efi_files_list_dirs(polaris_cli_fs_cmds_t)
    ')

# Execute hdparam in its own domain
fstools_domtrans(polaris_hm_t)

# Allow polaris_hm to get attributes of fixed disk
storage_getattr_fixed_disk_dev(polaris_hm_t)

# Allow read to ssd auth tmp files /tmp/ssd_blk_device
polaris_read_ssd_tmp_files(polaris_hm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.te
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#
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#

## <summary>Polaris ngwc_tbl_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmgr.if
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#

## <summary>Polaris polarisbtman Policy Rules.</summary>

########################################################################
## <summary>
## Execute fs tools in the btrace_rotate domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
# interface('polaris_btrace_rotate_domtrans',
  gen_require(
    type polaris_btman_t, polaris_btman_exec_t;
    ')
  corecmd_search_bin($1)
  domtrans_pattern($1, polaris_btman_exec_t, polaris_btman_t)
  ')

########################################################################
## <summary>
## Read /tmp/tmppub files/dirs
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#

interface('polaris_btrace_tmppub_read',
    gen_require(
        type polaris_btrace_tmppub_t;
    )
)

read_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
read_lnk_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
list_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)

########################################
## <summary>
##      Manage /tmp/tmppub files/dirs
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_btrace_tmppub_manage',
    gen_require(
        type polaris_btrace_tmppub_t;
    )
)

manage_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
manage_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)

########################################
## <summary>
##	Read and write all btman's fifo file, used as
##	standard input/output.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <rolecap/>
#
interface('polaris_use_btman_fifo',
    gen_require(
        type polaris_btman_t;
    )
)

allow $1 polaris_btman_t:fifo_file { rw_term_perms lock append create unlink };
Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.if
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#

### <summary>Polaris webui Policy Rules.</summary>

###<summary>
## Read files under /webui/..., these are webui odm file
### </summary>
### <summary>
### param name="domain">
### Domain allowed access.
### </summary>
### </param>

interface('polaris_read_webui_files',
  gen_require(
    type polaris_webui_file_t;
  ')
  read_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
  read_lnk_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.if
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#
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#
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#

/tmp/fp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)
/tmp/rp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)
/tmp/cc/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristldb.fc
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```
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris NVRAM Policy Rules.</summary>

# Polaris lsmpi

## <summary>
##      Work (read, write, ioctl) with /dev/lsmpi device.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_lsmpi_dev_use',
            gen_require(''
    type device_t;
    type polaris_lsmpi_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_lsmpi_device_t)
    read_chr_files_pattern($1, device_t, polaris_lsmpi_device_t)
    allow $1 polaris_lsmpi_device_t:chr_file map;
')

## <summary>
##      Read lsmpi sysctl file, ie one under /proc/sys/lsmpi and
## /proc/sys/lsmpi_lodrv directories.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
```
interface(polaris_contdev_dev_read,‘
  read_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
  list_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
  # genfscon statement specifically excludes symbolic links from
  # genfscon path specific entries. To workaround, let us allow
  # to follow sysfs_t symbolic links
  allow $1 sysfs_t:lnk_file read;
  ‘)

interface(polaris_contdev_dev_write,‘
  read_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
  list_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
  # genfscon statement specifically excludes symbolic links from
  # genfscon path specific entries. To workaround, let us allow
  # to follow sysfs_t symbolic links
  allow $1 sysfs_t:lnk_file read;
  ‘)
write_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
')

########################################################
## <summary>
## Manage /sys/devices/virtual/contdev sysfs files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_manage_contdev_dev','
gen_require(

type polaris_sysfs_contdev_t;

type sysfs_t;
')
manage_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
manage_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
')

########################################################
## <summary>
## Allow the specified domain to manage punt/inject socket
## files. I.e /tmp/pi/dp_2_iosd_pi and /tmp/pi/iosd_2_dp_pi
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_pi_uds_manage','
gen_require(

type polaris_pi_uds_t;
')
manage_sock_files_pattern($1, polaris_pi_uds_t, polaris_pi_uds_t)
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22802

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/usr/bin/os/conf/issu_stack.sh -- gen_context(system_u:object_r:polaris_issu_stack_exec_t,s0)
/tmp/issu_stk(/.*)?       gen_context(system_u:object_r:polaris_issu_stack_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.fc
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# polarisnmspd file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnmspd.fc
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#  # Aug 2020, Sridhar C  #  # Copyright (c) 2020 by Cisco Systems, Inc.  #  # All rights reserved  #

policy_module(polarisxcopy, 1.0);

########################################################################
## xcopy_script.sh
########################################################################
polaris_utility_domain_template(xcopy_script)
polaris_bexecute_domain(polaris_xcopy_script_t, polaris_xcopy_script_exec_t)
# xcopy_script.sh call other scripts through brelay.sh
polaris_bexecute_domtrans(polaris_xcopy_script_t)

polaris_chasfs_manage(polaris_xcopy_script_t)

# xcopy calls curl/sshpass/scp command and support scp/http/https
gen_require('  
type polaris_curl_t;
  type ssh_exec_t;
  type ssh_home_t;
  type devpts_t;
')
polaris_curl_domtrans(polaris_xcopy_script_t)
corenetscp_connect_ssh_port(polaris_curl_t)
corenetscp_connect_http_port(polaris_curl_t)
corenetscp_connect_ssh_port(polaris_xcopy_script_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_xcopy_script_t)

# read polaris vrf net namespace file
fs_read_nsfs_files(polaris_xcopy_script_t)

# curl needs access to bootflash
polaris_bootflash_manage(polaris_curl_t)
polaris_bootflash_manage(polaris_xcopy_script_t)

# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy('  
polaris_ncd_tmp_read(polaris_xcopy_script_t)
')

# Execute
corecmd_exec_bin(polaris_xcopy_script_t)

#uses kernel utilities like pidof, stat
domain_read_all_domains_state(polaris_xcopy_script_t)
kernellistproc(polaris_xcopy_script_t)

# read /proc/cmdline
kernel_read_system_state(polaris_xcopy_script_t)
fs_getattr_tmpfs(polaris_xcopy_script_t)
fs_getattr_xattr_fs(polaris_xcopy_script_t)

# xcopy started from the smand and needs fifo
polaris_smand_use_fifo(polaris_xcopy_script_t)

# ping to check reachability
netutils_domtrans_ping(polaris_xcopy_script_t)

# calls mcp_chvrf.sh for ping and curl
polaris_chvrf_domtrans(polaris_xcopy_script_t)

# xcopy uses ps to find the curl process state
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_xcopy_script_t)

# Started by bexecute so it has its stdin set to telnet pty file
telnet_use_ptys(polaris_xcopy_script_t)

# stdout is set to fifo set by rotte to capture output into btrace
# btrace also need these policies :)
# btrace_init also refer to /tmp/sw/boot/..
polaris_use_btrace_fifo(polaris_xcopy_script_t)
polaris_cpld_read(polaris_xcopy_script_t)
polaris_boot_tmp_read(polaris_xcopy_script_t)

# Allow /tmp/xcopy/
type polaris_xcopy_tmp_t;
files_tmp_file(polaris_xcopy_tmp_t)
files_tmp_filetrans(polaris_xcopy_script_t, polaris_xcopy_tmp_t, { dir file })
polaris_xcopy_tmp_manage(polaris_xcopy_script_t)

# Curl writes the progress...
polaris_xcopy_tmp_manage(polaris_curl_t)

# PS command access ttyS1
term_getattr_unallocated_ttys(polaris_xcopy_script_t)

# sshpass/scp
ssh_getattr_user_home_dir(polaris_xcopy_script_t)

# sshpass uses the ptmx
term_use_ptmx(polaris_xcopy_script_t)
term_getattr_pty_fs(polaris_xcopy_script_t)

# scp uses ssh
#allow polaris_xcopy_script_t ssh_exec_t:file { execute execute_no_trans map open read };
ssh_exec(polaris_xcopy_script_t)

allow polaris_xcopy_script_t self:capability {sys_resource fsetid};
allow polaris_xcopy_script_t self:process setfscreate;
allow polaris_xcopy_script_t ssh_home_t:dir { create search };
allow polaris_xcopy_script_t devpts_t:chr_file { getattr open read setattr write };
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#

## <summary>Polaris dmi_ncsshd_fwd Policy Rules.</summary>

########################################
## <summary>
##     Connect to and send messages to dmi ncsshd_bp
## tmp/.ncsshd_bp.sock unix datagram sockets.
## </summary>
## <param name="domain">
##     Domain allowed access.
## </param>
#
interface(`polaris_dmi_ncsshd_fwd_dgram_send',
  gen_require(~
    type polaris_dmi_ncsshd_log_t;
    type polaris_dmi_ncsshd_fwd_t;
  ~)
)

allow $1 self:unix_stream_socket {create_socket_perms};
allow $1 polaris_dmi_ncsshd_fwd_t:unix_stream_socket {connectto};
write_sock_files_pattern($1, polaris_dmi_ncsshd_log_t,polaris_dmi_ncsshd_log_t)

########################################
## <summary>
##      Write into fifo file created by dmi_ncsshd_fwd, typical case when
##      hman starts script under popen.
## </summary>
## <param name="domain">
##     Domain allowed access.
## </param>
## </summary>
## <param>
##     Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_dmi_ncsshd_fwd_use_fifo',

gen_require(
    type polaris_dmi_ncsshd_fwd_t;
)

write_fifo_files_pattern($1, polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_fwd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdfwd.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky

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dnl All rights reserved

dnl define(`polaris_database_aux','dnl
 /tmp/rp/tdldb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
 /tmp/fp/tdldb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
 /tmp/cc/tdldb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
 /tmp/rp/tdldb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
 /tmp/fp/tdldb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
 /tmp/cc/tdldb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
')

define(`polaris_database',`dnl
polaris_database_aux(database_label($1), $1)
')

define(`polaris_database_process',``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_fc.m4
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
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#

### <summary>Polaris ioxman Policy Rules.</summary>
manage_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_xml.dat")
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_override.conf")
# /tmp/trace/resource.log can be created by ioxman/vman/caf
# through sourcing in the family of the pvsm_*.sh scripts
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "resource.log")
')


read_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
')

read_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
')

read_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
')

read_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
')
## <summary>
## Read ioxman executable file. Used by caf to read iosman
## version.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_ioxman_exec_read',`
    gen_require(
        type polaris_ioxman_exec_t;
        type bin_t;
    )
)
read_files_pattern($1, bin_t, polaris_ioxman_exec_t)
')

## <summary>
## Allow the specified domain to get show_version information
## from ioxman executable
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_ioxman_show_version',`
    gen_require(
        type polaris_ioxman_exec_t;
    )
polaris_show_version($1, polaris_ioxman_exec_t)
')
## <summary>
## Allow the specified domain to get show_version information
## from dockerd and other container_runtime_t executables
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_container_runtime_show_version',
    gen_require(
        type container_runtime_exec_t;
        polaris_show_version($1, container_runtime_exec_t)
    ))

## <summary>
## Execute a domain transition to run cat9k_ssd_auth_cmds.sh
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_ssd_auth_domtrans',
    gen_require(
        type polaris_ssd_auth_t, polaris_ssd_auth_exec_t;
    )
    domtrans_pattern($1, polaris_ssd_auth_exec_t, polaris_ssd_auth_t)
)

## <summary>
## Read ssd files in /tmp/ssd_blk_device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_read_ssd_tmp_files',

gen_require(
    type polaris_ssd_auth_tmp_t;
)

read_files_pattern($1, polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t)

')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.if
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#
# Nov 2020, Swati Kumaro
#
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#

/dev/blzi_fpga -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi Ts_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_gps_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_lol_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi Ts_interest_0 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi Ts_interest_1 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi Ts_interest_2 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi Ts_interest_3 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi Ts_interest_4 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi Ts_interest_5 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.fc
No license file was found, but licenses were detected in source scan.

#
# January 2021, Gabriel Lee, Shawn Liu
#
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#

policy_module(polarisezmanage, 1.0);

type polaris_ezmanage_file_t;
files_type(polaris_ezmanage_file_t)
polaris_pfile_type(polaris_ezmanage_file_t)
polaris_process_domain_template(ezmanage)
# Allow ezManage script to be executed by systemd
gen_require(
    type unconfined_service_t;
')

polaris_ezmanage_domtrans(unconfined_service_t)

# Allow ezManage file and directory access
polaris_manage_ezmanage_files(polaris_ezmanage_t)

# Allow ezManage socket access
allow polaris_ezmanage_t self:unix_dgram_socket { connected_socket_perms sendto };

# Allow read of /etc/passwd
auth_use_nsswitch(polaris_ezmanage_t)

# ezManage python script needs access to USB ttys for modem AT channel
term_use_usb_ttys(polaris_ezmanage_t)

# ezManage python script needs /usr/bin/python3 execution and may also call other generic system bin utilities
corecmd_exec_bin(polaris_ezmanage_t)

# ezManage needs to access /bootflash/ciscosdwan.cfg and a variably named tar file in /bootflash/modem_firmware
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "ciscosdwan.cfg")
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "modem_firmware.tar.gz")

# ezManage socket file is created in /var/run
type polaris_ezmanage_var_run_t;
files_pid_file(polaris_ezmanage_var_run_t)
files_pid_filetrans(polaris_ezmanage_t, polaris_ezmanage_var_run_t, sock_file, "cwan_ezmanage_py_server")

# Allow ezManage to access its socket file in /var/run
polaris_manage_ezmanage_var_run_files(polaris_ezmanage_t)

# Allow ezManage to access ngiolite socket file in /var/run
gen_require(
    type polaris_cwan_svr_var_run_t;
')
rw_sock_files_pattern(polaris_ezmanage_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)

# Allow ezManage to access ngiolite dgram_socket
gen_require(
    type polaris_ngiolite_t;
')
allow polaris_ezmanage_t polaris_ngiolite_t:unix_dgram_socket sendto;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.te
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#  
# March 2017, Victor Kamensky  
#  
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#  
## <summary>Polaris dbm Policy Rules.</summary>

#######################################  
## <summary>  
## Setup /bootflash/.dbpersist directory and content.  
## </summary>  
## <param name="domain">  
## Domain allowed access.  
## </summary>  
## </param>  
#  
interface(`polaris_tdldbpersist_setup',`  
    gen_require(`  
        type polaris_disk_bootflash_t;  
        type polaris_disk_dbm_t;  
    `)
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t, dir, ".dbpersist")
    # allow creation of /bootflash/.dbpersist directory
    manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t)
    # dbm can manage files inside of its own polaris_disk_dbm_t directories
    manage_files_pattern($1, polaris_disk_dbm_t, polaris_disk_dbm_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.if

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#  
# May 2017, Victor Kamensky  
#  
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#  
# polarismdtpubd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.fc
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# February 2020, Victor Kamensky
#
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#

policy_module(polaristtm, 1.0);

gen_require(' 
    type polaris_ttm_t;
')
polaris_chasfs_read(polaris_ttm_t) polaris_cpld_read(polaris_ttm_t)

logging_send_syslog_msg(polaris_ttm_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_ttm_t)

# /var/run/ttmd socket and pid
type polaris_ttm_var_run_t;
files_pid_file(polaris_ttm_var_run_t)
manage_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
manage_sock_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
files_pid_filetrans(polaris_ttm_t, polaris_ttm_var_run_t, { file sock_file })

# allow /usr/binos/bin/ttmd to acces polaris_tdlresolve_t and
# polaris_global_service_t
polaris_tdlresolve_manage(polaris_ttm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristtm.te
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# February 2020, Victor Kamensky
#
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#

policy_module(polarissdavcproxy, 1.0);

gen_require(' 
    type polaris_sdavc_proxy_t;
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22814

`)  

# btrace_application_start  
polaris_chasfs_read(polaris_sdavc_proxy_t)  
polaris_tdlresolve_read(polaris_sdavc_proxy_t)  
polaris_cpld_read(polaris_sdavc_proxy_t)  

# Allow SDAVC exports using UDP socket.  
allow polaris_sdavc_proxy_t self:udp_socket create_socket_perms;  

# Change namespace to allow network communication with vManage  
(process_namespace_network_change_internal - opens /var/run/netns/*)  
polaris_cedge_set_ns(polaris_sdavc_proxy_t)  

# Reset the namespace back to default (process_namespace_network_default opens /proc/1/ns/net)  
polaris_cedge_reset_ns(polaris_sdavc_proxy_t)  

type polaris_sdavc_proxy_files_t;  
files_type(polaris_sdavc_proxy_files_t)  
polaris_pfile_type( polaris_sdavc_proxy_files_t)  

# Create /bootflash/sdavc directory, Write, Read & Removed files  (For SDAVC imports)  
polaris_bootflash_filetrans(polaris_sdavc_proxy_t, polaris_sdavc_proxy_files_t, dir, "sdavc")  
polaris_bootflash_filetrans(polaris_iosd_t, polaris_sdavc_proxy_files_t, dir, "sdavc")  
polaris_sdavc_proxy_manage(polaris_sdavc_proxy_t)  

# IOSd process also should have access to /bootflash/sdavc directory  
gen_require('  
    type polaris_iosd_t;  
')  
polaris_sdavc_proxy_manage(polaris_iosd_t)  

# Allow SDAVC imports (HTTP GET, PUT) we use /usr/bin/curl executable.  
# Exe: curl -f -s --connect-time 10 -o /bootflash/sdavc/... -w%{http_code} http://<user>:<pw>@<vManage system ip>:<sport>  
# Run CURL in its domain so it wont have all sdavcproxy permissions.  
gen_require('  
    type polaris_curl_t;  
')  
polaris_curl_domtrans(polaris_sdavc_proxy_t)  
corenet_tcp_connect_generic_port(polaris_curl_t)  

# cURL process also should have access to /bootflash/sdavc directory  
polaris_sdavc_proxy_manage(polaris_curl_t)  

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# Sep 2020, Sridhar C
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#

/usr/binos/conf/xcopy_script.sh -- gen_context(system_u:object_r:polaris_xcopy_script_exec_t,s0)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.te
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dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl divert(-1)

include(`polaris_process.m4')
dnl Stub out polaris process
define(`polaris_process',``)

dnl Stub out mqipc
define(`polaris_mqipc_service_server',``)
define(`polaris_mqipc_service_client',``)
define(`polaris_mqipc_service_server_elastic_client',``)

dnl Stub out lipc
define(`polaris_lipc_service_server',``)
define(`polaris_lipc_service_client',``)

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_base_ripc_te.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',``)
define(`polaris_cipc_service_server',``)

include(`polaris_max_scope.m4')

divert(0)dnl
#
policy_module(autopolarisplatformipcbase, 1.0);

gen_require(``
    attribute port_type;
    attribute defined_port_type;
``)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_te.m4

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#  
# March 2017, Victor Kamensky
#
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#

policy_module(polarisdroputil, 1.0);

polaris_process_domain_template(droputil)

corecmd_exec_bin(polaris_droputil_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_droputil_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_droputil_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec LD_so(polaris_droputil_t)

# work with /tmp files

type polaris_droputil_tmp_t;
files_tmp_file(polaris_droputil_tmp_t)
manage_dirs_pattern(polaris_droputil_tmp_t, tmp_t, polaris_droputil_tmp_t)
manage_files_pattern(polaris_droputil_tmp_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_fifo_files_pattern(polaris_droputil_tmp_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_lnk_files_pattern(polaris_droputil_tmp_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
files_tmp_filetrans(polaris_droputil_tmp_t, polaris_droputil_tmp_t, { file dir })

# on some platform /tmp/rp-dropbox is created by binos service
# that runs under initrc_t
gen_require(
    type initrc_t;
)
files_tmp_filetrans(initrc_t, polaris_droputil_tmp_t, dir, "dropbox")

allow polaris_droputil_t self:capability { sys_resource dac_override };
allow polaris_droputil_t self:process setpgid;

polaris_btrace_data_manage(polaris_droputil_t)
polaris_cpld_read(polaris_droputil_t)
polaris_chasfs_manager(polaris_droputil_t)
polaris_boot_tmp_read(polaris_droputil_t)
polaris_read_debug_conf(polaris_droputil_t)
polaris_disk_crashinfo_getattr(polaris_droputil_t)
polaris_memonbifo_tmp_read(polaris_droputil_t)

# runs systemctl start reflector.service
systemd_exec_systemctl(polaris_droputil_t)

# PLEASE LOOK AT ME need to have separate label for reflector.service
# allow only to start if, do it once copy of reflector.service is fixed
systemd_config_generic_services(polaris_droputil_t)

# droputil.sh deletes /tmp/rp/droputil/so-del-stage/rp/0
fs_getattr_tmpfs(polaris_droputil_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polaris_ofa, 1.0);

gen_require(
    type polaris_ofa_t;
)
)
polaris_btrace_data_manage(polaris_ofa_t)
polaris_crft_data_manage(polaris_ofa_t)
polaris_chasfs_manager(polaris_ofa_t)
polaris_tdlresolve_read(polaris_ofa_t)
polaris_tdlldb_list_dirs(polaris_ofa_t)
polaris_cpld_read(polaris_ofa_t)
polaris_flashlib_read(polaris_ofa_t)

allow polaris_ofa_t self:capability sys_admin;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.te
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#
# March 2017, Victor Kamensky
#
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#

# /bootflash labels
/bootflash(/.*)?    gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?    gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\pub    gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key    gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)?    gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)?    gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)?    gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf    gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf    gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /objstore
/objstore(/.*)?    gen_context(system_u:object_r:polaris_disk_objstore_t,s0)
/dev/shm/sem.objstore_sem    gen_context(system_u:object_r:polaris_objstore_sem_t,s0)

# hanet driver used by vpcgw platform of VXE family
ifdef(`vpcgw_platform',`
/dev/hanet -c gen_context(system_u:object_r:polaris_hanet_device_t,s0)
')

# /csl_p_0
/csl_p_0(/.*)?    gen_context(system_u:object_r:polaris_disk_csl_p_0_t,s0)

# /csl_p_1.context
/csl_p_1(/.*)?    gen_context(system_u:object_r:polaris_disk_csl_p_1_t,s0)

# /csl_s_0.context
/csl_s_0(/.*)?    gen_context(system_u:object_r:polaris_disk_csl_s_0_t,s0)

# /csl_s_1.context
/csl_s_1(/.*)?    gen_context(system_u:object_r:polaris_disk_csl_s_1_t,s0)
# /varied
/varied/\(.*\)? \ gen_context(system_u:object_r:polaris_disk_varied_t,s0)
/varied/install_info \ gen_context(system_u:object_r:polaris_vxeinstall_info_t,s0)
/varied/obfl.* \ gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/varied/grub_cisco_version \ gen_context(system_u:object_r:polaris_grubver_t,s0)
/varied/grub\(\(.*\)?\) \ gen_context(system_u:object_r:boot_t,s0)
/varied/grub2\(\(.*\)?\) \ gen_context(system_u:object_r:polaris_grub_bios_t,s0)
/varied/vcpu_template.txt \ gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)

/sbin/grub* \ gen_context(system_u:object_r:bootloader_exec_t,s0)

# /grubenv
/bootefi/\(\(.*\)?\) \ gen_context(system_u:object_r:polaris_grub_efi_t,s0)

# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l \ gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/lic1 -l \ gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# umbrella_init.sh executable label
/usr/binos/conf/umbrella_init.sh -- \ gen_context(system_u:object_r:polaris_umbrella_init_exec_t,s0)

# # On ultra_us /cpld_util.sh creates /tmp/chassis. Put this script into the initexec_t domain so
# chasfs transitions properly.
# /cpld_util.sh \ gen_context(system_u:object_r:initrc_exec_t,s0)

# /config labels
/config/\(\(.*\)?\) \ gen_context(system_u:object_r:polaris_disk_config_t,s0)
/config/ssh/\(\(.*\)?\) \ gen_context(system_u:object_r:ssh_home_t,s0)
/config/ssh/ssh_host.*\_key\_pub \ gen_context(system_u:object_r:sshd_key_t,s0)
/config/ssh/ssh_host.*\_key \ gen_context(system_u:object_r:sshd_key_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.fc
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# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2020 by Cisco Systems, Inc.
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# 

policy_module(polarisboot, 1.0);
type polaris_boot_tmp_t;
files_tmp_file(polaris_boot_tmp_t)
gen_require('
    attribute domain;
  )
files_tmp_filetrans(domain, polaris_boot_tmp_t, dir, "boot")
# /tmp/sw/isos
files_tmp_filetrans(domain, polaris_boot_tmp_t, dir, "isos")

# dmesg command is executed in its own domain and result is store
# into /tmp/sw/boot/dmesg file
gen_require('
    type dmesg_t;
  )
polaris_boot_tmp_write(dmesg_t)

# /tmp/reload_reason copied from /bootflash/prst_sync/reload_info
files_tmp_filetrans(domain, polaris_boot_tmp_t, file, "reload_reason")

# /tmp/bootup_timestamp created by /etc/init.d/binos
gen_require('
    type initrc_t;
    type init_t;
  )
files_tmp_filetrans({ initrc_t init_t }, polaris_boot_tmp_t, file, "bootup_timestamp")

type polaris_boot_file_t;
files_type(polaris_boot_file_t)
polaris_pfile_type(polaris_boot_file_t)
gen_require('
    type polaris_disk_bootflash_t;
  )
filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "reload_info")
filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "stack_reload_info")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.fc
* /opt/ cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.fc
* /opt/ cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiportsfetch.fc
* /opt/ cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.fc
* /opt/ cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmdbd.fc
* /opt/ cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.fc
* /opt/ cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.fc
* /opt/ cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.fc
* /opt/ cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.fc

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
#
### <summary>Polaris Common Policy Rules.</summary>

### Polaris common

### Create a domain for long running Polaris processes in confined mode.
###
### <summary>
### Domain allowed access.
###
### <param name="domain">
### Type of the program to be used as an entry point to this domain.
###</param>
###
### interface('polaris_process_domain_confined',
###
### gen_require(
###    type unconfined_service_t;
###
### init_daemon_domain($1, $2)
###
### # polaris process now started by pman, which still runs

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22821
# under unconfined label

type_transition unconfined_service_t $2:process $1;
allow unconfined_service_t $1:process transition;
allow $1 unconfined_service_t:process sigchld;

polaris_pman_entry($1, $2)

gen_require(
    attribute polaris_domain;
    attribute polaris_exec_domain;
    attribute polaris_extended_domain;
)
typeattribute $1 polaris_domain, polaris_extended_domain;
typeattribute $2 polaris_exec_domain;

# allow all process to check whether kernel ksm is enabled
polaris_ksm_run_check($1)
)

###############################################################################
#
## <summary>
##      Create a domain for long running Polaris processes. Note
##      depending on policy build setting it could be confined or
##      not confined
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
##<param name="entry_point">
##  <summary>
##Type of the program to be used as an entry point to this domain.
## </summary>
## </param>
#
interface('polaris_process_domain',

# the default is to confine all domains
polaris_process_domain_confined($1, $2)

# # if the domain is in the permissive map, then set it to be confined
# # permissive. if the domain is in the confined map, then there really
# # isn't much else to do but leave it confined. if the domain isn't in
# # the permissive or confined maps then determine if the domain should
# # be unconfined.
#
ifelse(permissive_domain($1), $1, `polaris_permissive_domain_setup($1)',
    confined_domain($1), $1, `polaris_domain_maybe_unconfined($1)')
)

# <summary>
# Create a domain for utility Polaris processes in
# confined mode.
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
#
# interface('polaris_utility_domain_confined',
domain_type($1)
domain_entry_file($1, $2)
    role system_r types $1;

    gen_require(
        attribute polaris_domain;
        attribute polaris_exec_domain;
        attribute polaris_extended_domain;
    ')
typeattribute $1 polaris_domain, polaris_extended_domain;
typeattribute $2 polaris_exec_domain;

    # allow all process to check whether kernel ksm is enabled
    polaris_ksm_run_check($1)
')

# <summary>
# Create a domain for utility Polaris processes. Note
# depending on policy build setting it could be confined or
# not confined
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
### <param>
### <param name="entry_point">
### <summary>
## Type of the program to be used as an entry point to this domain.
### </summary>
### </param>
#
interface('polaris_utility_domain',

    # the default is to confine all domains
    polaris_utility_domain_confined($1, $2)

    #
    # if the domain is in the permissive map, then set it to be confined
    # permissive. if the domain is in the confined map, then there really
    # isn't much else to do but leave it confined. if the domain isn't in
    # the permissive or confined maps then determine if the domain should
    # be unconfined.
    #
    ifelse(permissive_domain($1), $1, `polaris_permissive_domain_setup($1)',
            confined_domain($1), $1, `',
            `polaris_domain_maybe_unconfined($1)')
')

##############################################################
### <summary>
### Creates types and rules for a basic
### polaris process domain.
### </summary>
### <param name="stem">
### <summary>
### Stem for the domain. Name is constructed as polaris_stem_t
### </summary>
### </param>
#
template(`polaris_process_domain_template',
    type polaris_$1_t;
    type polaris_$1_exec_t;
    polaris_process_domain(polaris_$1_t, polaris_$1_exec_t)
    ifdef(polaris_permissive,`
        permissive polaris_$1_t;
    `)
)

polaris_btrace_data_client_template($1)
polaris_maroon_data_client_template($1)
polaris_crft_data_client_template($1)
polaris_process_proc_kpageflags_template($1)
polaris_process_uswap_access(polaris_$1_t, $1, "$1")
')

###############################
## <summary>
## Creates types and rules for a basic
## polaris process domain.
## </summary>
## <param name="stem">
## Stem for the domain. Name is constructed as polaris_stem_t
## </param>
#
# template('polaris_utility_domain_template',`
  type polaris_$1_t;
  type polaris_$1_exec_t;

  polaris_utility_domain(polaris_$1_t, polaris_$1_exec_t)
ifdef(polaris_permissive,`
      permissive polaris_$1_t;
  ')

  polaris_btrace_data_client_template($1)
  polaris_maroon_data_client_template($1)
  polaris_crtf_data_client_template($1)
  polaris_process_proc_kpageflags_template($1)
')

###############################
## <summary>
## Allow the specified domain to execute polaris domain
## process in the caller domain.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_exec',`
  gen_require(`
    attribute polaris_exec_domain;
  ')

  can_exec($1, polaris_exec_domain)
')
### <summary>
### Allow the specified domain to read polaris domain executable file. I.e to get information from executables like binary trace info, trace key etc
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_read_exec_domain',
    gen_require(
        attribute polaris_exec_domain;
        type bin_t;
    )
)
read_files_pattern($1, bin_t, polaris_exec_domain)
')

### <summary>
### Allow the specified domain to receive signals from any polaris process.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_receive_signal_from_domain',
    gen_require(
        attribute polaris_domain;
    )
)
allow polaris_domain $1:process signal_perms;
')

### Systemd-tmpfiles utility creates an object in the tmp directories, with a private type using a type transition. Note rules to create files and directories which are performed by systemd-tmpfiles reside in /lib/tmpfiles.d/
And polaris specific rules are in bins.conf file. Note systemd-tmpfiles utility would use label from file_contexts to restore proper label. I.e the same effect could be achieved by placing proper .fc expression.

```c
interface(`polaris_systemd_tmpfiles_tmp_filetrans',
    gen_require(`
        type systemd_tmpfiles_t;
    `)
    files_tmp_filetrans(systemd_tmpfiles_t, $1, $2, $3)
```

## Implementation notes:

## wants to read /proc/pid/ns/net but gets denial because our 3.10 kernel
## does not support nsfs yet, so /proc/pid/ns/net is marked as proc_t instead
## of be nsfs_t. For now allow read access to proc_t through
## kernel_system_state_reader attribute. Try to drop it in latter kernels
## type=AVC msg=audit(1479574148.450:70): avc: denied { open } for  pid=27619 comm="smd"
## path="net:[4026531957]" dev="proc" ino=4026531957 scontext=system_u:system_r:polaris_smd_t:s0
tcontext=system_u:object_r:proc_t:s0 tclass=file
## in 4.4 /proc/pid/ns/net inode is under nsfs_t, polaris_smd_t needs to
## open, getattr, and read from it
## `
interface("polaris_socketat_nsfs_read","
    kernel_read_system_state($1)
    fs_read_nsfs_files($1)
    gen_require(
        type ifconfig_var_run_t;
    )
    list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
)

interface("polaris_namespace_set_netns_with_etc","
    files_mounton_isid($1)
    files_mounton_rootfs($1)
    dev_mount_sysfs_fs($1)
    dev_unmount_sysfs_fs($1)
    sysnet_read_config($1)
    sysnet_write_config($1)
    sysnet_manage_config_dirs($1)
    files_rw_etc_files($1)
    allow $1 net_conf_t:file mounton;
    allow $1 etc_t:file mounton;
    allow $1 self:capability sys_chroot;
)

interface("polaris_namespace_set_netns_with_etc","
    files_mounton_isid($1)
    files_mounton_rootfs($1)
    dev_mount_sysfs_fs($1)
    dev_unmount_sysfs_fs($1)
    sysnet_read_config($1)
    sysnet_write_config($1)
    sysnet_manage_config_dirs($1)
    files_rw_etc_files($1)
    allow $1 net_conf_t:file mounton;
    allow $1 etc_t:file mounton;
    allow $1 self:capability sys_chroot;
'
)
## relevant config file should be under security_file_type directory.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
# interface('polaris_libeutil_build_config_directory',
   files_getattr_all_files($1)
   files_getattr_all_dirs($1)
   files_read_all_symlinks($1)
   files_list_non_security($1)
   files_dontaudit_list_security_dirs($1)
')

######################################
## <summary>
##   Allow the specified domain to read write from i2c device.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
# interface('polaris_i2c_use',
   gen_require(
      type device_t;
      type polaris_i2c_device_t;
   )
)
   rw_chr_files_pattern($1, device_t, polaris_i2c_device_t)
')

######################################
## <summary>
##   Work (read, write, ioctl) with /dev/remap_mem0
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
# interface('polaris_remap_mem_dev_use',
   gen_require('
type device_t;
type polaris_remap_mem_device_t;
')
write_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)
read_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)
allow $1 polaris_remap_mem_device_t:chr_file map;
')

######################################
## <summary>
##      Allow the specified domain to read firmware files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_firmware_read',
    gen_require(
        type polaris_firmware_t;
    ')
read_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
# /firmware/* are link files, allow to follow symbolic link
allow $1 polaris_firmware_t:lnk_file read;
allow $1 polaris_firmware_t:dir read;
')

######################################
## <summary>
##      Allow the specified domain to manage firmware files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_firmware_manage',
    gen_require(
        type polaris_firmware_t;
    ')
manage_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
manage_link_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
manage_dirs_pattern($1, polaris_firmware_t, polaris_firmware_t)')
# <summary>
# Allow the specified domain to get attr of firmware files
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
interface(`polaris_firmware_getattr',`
    gen_require(`
        type polaris_firmware_t;
    `)
    getattr_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
`)

# <summary>
# Allow the specified domain to map of firmware files
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
interface(`polaris_firmware_map',`
    gen_require(`
        type polaris_firmware_t;
    `)
    read_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
    allow $1 polaris_firmware_t:file map;
`)

# <summary>
# Allow the specified domain to write relocations into text segment, deals
# with icc broken relocations.
# </summary>
# LOOK AT ME:
# Basically it deals with denials like this:
# type=AVC msg=audit(1475815369.598:3): avc: denied { execmod } for pid=4929 comm="cman_fp"
# path="/tmp/sw/mount/csr1000v-mono-universalk9.2016-10-06_20.15_kamensky.SSA.pkg/usr/cpp/lib64/libcpp_client_ha_oor.so" dev="loop0" ino=7683
# It happens because icc generates code with relocations in text segment and
# run-time linker is dealing with it by doing mprotect(WRITE), relocatings,
# mprotect(NO WRITE). Remove once icc compiled is fixed
#
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_icc_broken_relocations',`
    gen_require(`
      type lib_t;
    `)
    allow $1 lib_t:file execmod;
`)
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_etc_append',
  gen_require(
    type polaris_etc_t;
  ')
    append_files_pattern($1, polaris_etc_t, polaris_etc_t)
')


# Search /tmp/etc directory
#
# <param name="domain">
#      <summary>
#      Domain allowed access.
#      </summary>
# </param>
#
# interface('polaris_etc_search',
  gen_require(
    type polaris_etc_t;
  ')
    search_dirs_pattern($1, polaris_etc_t, polaris_etc_t)
')


# List the contents of /etc directories.
#
# <summary>
# Domain allowed access.
# </summary>
#
# interface('polaris_etc_list',
  gen_require(
    type polaris_etc_t;
  ')
    allow $1 polaris_etc_t:dir list_dir_perms;
')
## <summary>
## Allow domain to attach to TUN devices created by ifconfig_t subject.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('ifconfig_attach_tun_iface',
gen_require(''
type ifconfig_t;
')
allow $1 ifconfig_t:tun_socket relabelfrom;
allow $1 self:tun_socket relabelto;
')

## <summary>
## Perms used by pidof
## binos/infra/systemd/scripts/errmsg.sh, might needs /dev/ttyS0
## access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('pidof_use',
# FIXME or fix labeling
#/sys/devices/system/cpu/online should be labeled cpu_online_t
# but for some reason this did not happen, grant perms for both
dev_read_sysfs($1)
dev_read_cpu_online($1)
# /proc scan
domain_read_all_domains_state($1)
kernal_list_proc($1)
')

## <summary>
## Script can execute errmsg function from
## binos/infra/systemd/scripts/errmsg.sh, might needs /dev/ttyS0
## access.
## </summary>
interface('polaris_script_errmsg_use',
    # send to syslog (journal), iosd outputs to console if up
    logging_send_syslog_msg($1)
    # check if iosd is up and find its pid and if ttyS0 is opened
    pidof_use($1)
    # if FDs dont have ttyS0 it sends to console itself
    term_use_unallocated_ttys($1)
')

interface('polaris_ebf_map',
    gen_require(
        type polaris_ebf_t;
    ')
    read_files_pattern($1, polaris_ebf_t, polaris_ebf_t)
    allow $1 polaris_ebf_t:file map;
')

interface('polaris_ebf_map',
    gen_require(
        type polaris_ebf_t;
    ')
    read_files_pattern($1, polaris_ebf_t, polaris_ebf_t)
    allow $1 polaris_ebf_t:file map;
')
<summary>
Domain of executable that version can be checked
</summary>
</param>
#
interface('polaris_show_version',
    read_files_pattern($1, $2, $2)
    allow $1 $2:file map;
')

# Configure the polaris domain as permissive
#
<param name="domain">
 #
interface('polaris_permissive_domain_setup',
    gen_require(
      type $1;
    )
    permissive $1;
')

# Creates types and rules for process access to uswap feature.
# Ability to create file/folder under /bootflash/.USWAP/"FRU", and
# map file.
#
<param name="domain">
 #
interface('polaris_uswap_file_rule_setup',
    gen_require(
      type $1;
    )
    uswap $1;
')
## E.g., for IOSd polaris_iosd_uswap_files_t.
## </summary>
## </param>
## <param name="name">
## The name of the object being created.
## Name of the folder created by the process for
## creating the uswap files.
## </summary>
## </param>

```c
# template('polaris_process_uswap_access',
    type polaris_uswap_files_t;
  )
type polaris_$2_uswap_files_t;
files_type(polaris_$2_uswap_files_t)
polaris_pfile_type(polaris_$2_uswap_files_t)

filetrans_pattern($1, polaris_uswap_files_t, polaris_$2_uswap_files_t, {file dir})
manage_dirs_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
manage_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
manage_lnk_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
allow $1 polaris_$2_uswap_files_t:file map;

# allow access to pvp to clean-up the process related uswap file/folder
gen_require(
    type polaris_pvp_t;
  )
allow polaris_pvp_t polaris_$2_uswap_files_t:dir { read remove_name rmdir write };
allow polaris_pvp_t polaris_$2_uswap_files_t:file unlink;

##########################################################
## Allow process access to to access page related files such as "/proc/kpageflags"
## </summary>
## <param name="stem">
## Stem for the domain. Name is constructed as polaris_stem_t
## </param>

# template('polaris_process_proc_kpageflags_template',
    type proc_t;
  )
allow polaris_$1_t proc_t:file { open read };
```
-----------------------------------
### <summary>
### transition context of fman(rp/fp) created iptbl tmp files related to acl mgmt.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_fman_acl_iptbl_tmp_file',
    gen_require(' 
        type polaris_iptbl_tmp_t;
    ')
files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v4")
files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v6")
manage_files_pattern($1, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
')

-----------------------------------
### <summary>
### Manage files/folders in /tmp/rsync_log_dir.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_manage_rsync_tmplog_dir',
    gen_require(' 
        type polaris_rsync_tmp_t;
    ')
manage_files_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
manage_dirs_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
')

-----------------------------------
### <summary>
### Manage cero shared memory /dev/shm/cerrno_dll.
### </summary>
### <param name="domain">
### Domain allowed access.
interface('polaris_cerr_shm_manage',
  gen_require(
    type tmpfs_t;
    type polaris_cerr_shm_t;
  )
  fs_getattr_tmpfs($1)
  manage_files_pattern($1, tmpfs_t, polaris_cerr_shm_t)
  allow $1 polaris_cerr_shm_t:file map;
  fs_tmpfs_filetrans($1, polaris_cerr_shm_t, file, "cerrno_dll")
)

interface('polaris_vrf_shm_manage',
  gen_require(
    type tmpfs_t;
    type polaris_vrf_shm_t;
  )
  fs_getattr_tmpfs($1)
  manage_files_pattern($1, tmpfs_t, polaris_vrf_shm_t)
  allow $1 polaris_vrf_shm_t:file map;
  filetrans_pattern($1, tmpfs_t, polaris_vrf_shm_t, file, "vrf_shm")
)

interface('polaris_vrf_netns_manage',
  polaris_vrf_shm_manage($1)
kernel_rwlock_net_sysctls($1)
polaris_lfts_dev_use($1)

sysnet_exec_ifconfig($1)
sysnet_manage_ifconfig_run($1)

gen_require(
  type ifconfig_var_run_t;
')
allow $1 ifconfig_var_run_t:file { create mounton open read }
allow $1 ifconfig_var_run_t:dir mounton;

/gen_require(
  type polaris_ip_linux_port_var_t;
')
read_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
getattr_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
')

# Allow read/write of network state directory files

## <summary>
## Domain allowed access.
## </summary>

interface('polaris_kernel_rwlock_network_state_files',
gen_require(
  type proc_net_t;
')
RW_files_pattern($1, proc_net_t, proc_net_t)
')

# Allow the specified domain to send signals to Binos shell

## <summary>
## Domain allowed access.
## </summary>

#
interface('polaris_send_signal_to_shell',
    gen_require(
        type polaris_shell_t;
    )
)

allow $1 polaris_shell_t:process signal_perms;
')


interface('polaris_curl_domtrans',
    gen_require(
        type polaris_curl_t, polaris_curl_exec_t;
    )
)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_curl_exec_t, polaris_curl_t)
')

@interface('rsync_tmp_manage',
gen_require(
    type rsync_tmp_t;
    )
)

manage_dirs_pattern($1, rsync_tmp_t, rsync_tmp_t)
manage_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
manage_lnk_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
manage_fifo_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
')
## <summary>
##      Allow the specified domain to read /tmp/ldwm_envelope file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface('polaris_ldwm_envelope_read',
    gen_require(''
        type polaris_ldwm_envelope_tmp_t;
    ')
    read_files_pattern($1, polaris_ldwm_envelope_tmp_t, polaris_ldwm_envelope_tmp_t)
')

#########################################
## <summary>
##      This is copied from polarisngwc.if since other platforms may also
##      read/write /sys/devices files. In addition to ngwc, tsn requires it.
##      Write into /sys/devices/virtual/misc/ggpio/gpio_out_assert sysfs files.
##              or /sys/devices/platform/cpn-110-master/cpn-110-master sysfs
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface('polaris_ggpio_dev_read_write',
    gen_require(''
        type polaris_sysfs_ggpio_t;
    ')
    read_files_pattern($1, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
    write_files_pattern($1, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
')

#########################################
## <summary>
##      Manage files under /bootflash/certs, cert files for AP
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
# interface('polaris_wlc_ap_cert_manage',
#    gen_require(''
#        type polaris_wlc_ap_cert_tmp_t;
#    ')
#    read_files_pattern($1, polaris_wlc_ap_cert_tmp_t, polaris_wlc_ap_cert_tmp_t)
#    write_files_pattern($1, polaris_wlc_ap_cert_tmp_t, polaris_wlc_ap_cert_tmp_t)
#')
type polaris_ap_cert_file_t;

manage_files_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)
manage_dirs_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)

#

--------------------------
## <summary>
## Manage SERDES key directory and files
## SERDES library stores info in /tmp/serdes_asic_key_dir/*
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#

interface('polaris_serdes_asic_key_tmp_manage',
    gen_require(
        type polaris_serdes_asic_key_tmp_t;
    )
)

files_tmp_filetrans($1, polaris_serdes_asic_key_tmp_t, {dir file}, "serdes_asic_key_dir")

manage_dirs_pattern($1, {tmp_t polaris_serdes_asic_key_tmp_t}, polaris_serdes_asic_key_tmp_t)
manage_files_pattern($1, polaris_serdes_asic_key_tmp_t, polaris_serdes_asic_key_tmp_t)

#

--------------------------
## <summary>
## Manage polaris_tech_support_tmp_t in /tmp.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#

interface('polaris_tech_support_tmp_read',
    gen_require(
        type polaris_tech_support_tmp_t;
    )
)

read_files_pattern($1, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)

#
## <summary>
##      Getattr of any file under /proc/*/fd/* typically run by lsof.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface('polaris_proc_fd_all_getattr',

domain_read_all_domains_state($1)
files_getattr_all_files($1)
files_getattr_all_dirs($1)
files_getattr_all_sockets($1)
files_getattr_all_pipes($1)
files_getattr_all_chr_files($1)
files_getattr_all_symlinks($1)
files_read_all_dirs_except($1)
dev_getattr_all_chr_files($1)
device_getattr_all_blk_files($1)
device_getattr_mtrr_dev($1)

# misc socket and fifo files got created under label of its process domain
# and since domain labels are not in file_type attribute, need special
# permission
gen_require('attribute domain;')
allow $1 domain:{socket socket_class_set fifo_file} getattr;
# access sysctl_rpc_t
kernel_read_rpc_sysctls($1)
')

#######################################
## <summary>
##      Manage files and directories sysfs, This should only be used
##      if the interface needs sysfs_t create access. Otherwise please use
##      dev_rw_sysfs
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_sysfs_manage',

# Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22844
gen_require(
    type sysfs_t;
')
manage_files_pattern($1, sysfs_t, sysfs_t)
')

# Check access to the init/systemd executable.
## <summary>
##  Check access to the init/systemd executable.
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
## </param>

interface('polaris_init_access_check',
    gen_require(
        type init_exec_t;
')
    init_access_check($1)
    allow $1 init_exec_t:file {open read};
    allow $1 init_exec_t:lnk_file read_lnk_file_perms;
')

# Manage polaris_manage_rommon_info in /tmp.
## <summary>
##  Manage polaris_manage_rommon_info in /tmp.
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
## </param>

interface('polaris_manage_rommon_info',
    gen_require(
        type polaris_rommon_info_tmp_t;
')
    manage_files_pattern($1, polaris_rommon_info_tmp_t, polaris_rommon_info_tmp_t)
')

# Allow the specified domain to manage tamlib debug file /bootflash/tamlib_dbg_log
## <summary>
##  Allow the specified domain to manage tamlib debug file /bootflash/tamlib_dbg_log
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
## </param>
### <summary>
### Allow access to /dev/ddr
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_ddr_dev_use',`
    gen_require(`
        type device_t;
        type polaris_ddr_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_ddr_device_t)
    read_chr_files_pattern($1, device_t, polaris_ddr_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.if
No license file was found, but licenses were detected in source scan.
#
# July 2017, Victor Kamensky
#
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#
### <summary>Polaris tams_rp Policy Rules.</summary>

#################################################################
### <summary>
### Allow polaris_tams_rp_t unix stream socket connect
### </summary>
### <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface(`polaris_tams_rp_socket_connect',`
   gen_require(`
       type polaris_tams_rp_t;
   `)
   allow $1 polaris_tams_rp_t:unix_stream_socket connectto;
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.if
No license file was found, but licenses were detected in source scan.
#
# August 2017, Shawn Lu
#
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#
#
# polariswncd file contexts place holder

/mnt/images(/.*)? gen_context(system_u:object_r:polaris_wlc_ap_images_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.fc
No license file was found, but licenses were detected in source scan.
#
# March 2017, Victor Kamensky
#
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#
#
# /harddisk /harddisk -> /misc/scratch
/harddisk gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/misc/scratch gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

/usb0 gen_context(system_u:object_r:removable_t,s0)
/usb1 gen_context(system_u:object_r:removable_t,s0)
/misc/usb0 gen_context(system_u:object_r:removable_t,s0)
/misc/usb1 gen_context(system_u:object_r:removable_t,s0)

Found in path(s):
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#
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#

/tmp/tam_cfg_done(/.*)?  gen_context(system_u:object_r:polaris_tam_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.fc
No license file was found, but licenses were detected in source scan.

# February 2020, Victor Kamensky
#
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#

## <summary>Polaris omp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomp.if
No license file was found, but licenses were detected in source scan.

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#
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#

## <summary>Polaris TDLDB Policy Rules.</summary>

### Polaris tdldb (infra/tdllib)

## Make specified domain as one of tdldb types.

## <param name="domain">

## <summary>
## The domain serving as polaris_tdldb type

```c
interface('polaris_tdldb_type',
    gen_require(
        attribute polaris_tdldb;
    )
    typeattribute $1 polaris_tdldb;

files_type($1)
')
```

```c
#######################################
## List directories in /tmp/[rp|fp|cc]/tdldb directories.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_tdldb_list_dirs',
    gen_require(
        type polaris_tdldb_t;
    )
    list_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
')

```

```c
#######################################
## Use tdldb database files in /tmp/[rp|fp|cc]/tdldb
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="database_label">
## <summary>
## Database file label.
## </summary>
## </param>
## <param name="object">
## <summary>
## Database file name. Also used to derive lock file name.
## </summary>
## </param>
```
interface('polaris_tdldb_use',
    gen_require(
        type polaris_tdldb_t;
        type tmp_t;
    )
)
manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
manage_files_pattern($1, polaris_tdldb_t, $2)
allow $1 $2:file map;
allow $1 polaris_tdldb_t:file lock;
type_transition $1 polaris_tdldb_t : file $2 "$3";
type_transition $1 polaris_tdldb_t : file $2 "$3.lock";

# manage /var/tmp/tdldb_ene_fifo.0xYYYYY files - it seems there is
# no way to assign separate label to them
manage_fifo_files_pattern($1, tmp_t, tmp_t)

# tdllib_database_handle_open_internal through libuuid calls
# uuid_generate_time_generic, which needs access to udp socket
# once it reaches get_node_id function
allow $1 self:udp_socket { create ioctl };


############# 
## <summary>
##      Setup tdldb database persistent files in
##                         /tmp/[rp|fp|cc]/tdldb/persist-config
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="database_label">
##      <summary>
##      Database file label.
##      </summary>
## </param>
## <param name="object">
##      <summary>
##      Database file name. Also used to derive lock file name.
##      </summary>
## </param>
#
interface('polaris_tmp_tdldb_persist_setup',
    gen_require(
        type polaris_tdldb_t;
        type polaris_tdldb_persist_t;
filetrans_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t, dir, "persistent-config")
# allow creation of /tmp/rp/tidldb/persistent-config
manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t)
# Manage files inside of its own polaris_tdldb_persist_t directories
manage_files_pattern($1, polaris_tdldb_persist_t, polaris_tdldb_persist_t)

########################################
## <summary>
##      Manage tdldb directories
## </summary>
## <param name="domain">
##      <summary>
##      The domain serving as polaris_tdldb type
##      </summary>
## </param>
#
interface(`polaris_tdldb_manage_dirs',
  gen_require(
    type polaris_tdldb_t;
  )
  manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
)

########################################
## <summary>
##      Use polaris_dir_db_tdldb_t database.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <infoflow type="none"/>
#
interface(`polaris_db_tdldb_dir_use',
  gen_require(
    type polaris_dir_db_tdldb_t;
  )

  polaris_tdldb_use($1, polaris_dir_db_tdldb_t, DB_DIR)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdldb.if
No license file was found, but licenses were detected in source scan.
policy_module(polariswncd, 1.0);

gen_require('type polaris_wncd_t;')
polaris_btrace_data_manage(polaris_wncd_t)
polaris_crft_data_manage(polaris_wncd_t)
polaris_chasfs_manage(polaris_wncd_t)
polaris_tldresolve_read(polaris_wncd_t)
polaris_tldldb_list_dirs(polaris_wncd_t)
polaris_cpld_read(polaris_wncd_t)
polaris_lua_read(polaris_wncd_t)
polaris_flashlib_read(polaris_wncd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wncd_t)
polaris_db_tldldb_dir_use(polaris_wncd_t)

#wncd need setrlimit to change limit of resource
allow polaris_wncd_t self:process setrlimit;
allow polaris_wncd_t self:capability sys_resource;

#allow tcp connection from http port
allow polaris_wncd_t self:capability net_bind_service;
corenets_TCP_bind_http_port(polaris_wncd_t)

#allow udp for dhcpd
corenet_udp_bind_dhcpd_port(polaris_wncd_t)
corenets_UDP_bind_generic_node(polaris_wncd_t)
allow polaris_wncd_t self:udp_socket { create_socket_perms recv_msg send_msg };

#allow AF_PACKET
allow polaris_wncd_t self:capability net_raw;
allow polaris_wncd_t self:packet_socket { create_socket_perms recv_msg send_msg };

# required in function ewlc_capwap_dgram_srvr_state_update()
allow polaris_wncd_t self:rawip_socket { create_socket_perms setopt ioctl };
corenets_RAW_bind_generic_node(polaris_wncd_t)
gen_require(`
    type port_t;
`)
allow polaris_wncd_t port_t:rawip_socket name_bind;

# allow to read /etc/passwd
auth_use_nsswitch(polaris_wncd_t)

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_wncd_t)
polaris_socketat_nsfs_read(polaris_wncd_t)

# each instance of wncd has a devshell support
coreneth_tcp_bind_polaris_wncd_devshell_port(polaris_wncd_t)

# extra instances of wncd do set up cyan database for given elastic number
polaris_dyncfg_setup(polaris_wncd_t)

allow polaris_wncd_t self:capability dac_override;

# wncd does ionotify for /bootflash/apple_device_map.xml file in
# wsa_notif_register_filepath function
polaris_bootflash_read(polaris_wncd_t)
polaris_persistent_watch(polaris_wncd_t)

# manage pem certificates on /bootflash
polaris_persistent_manage(polaris_wncd_t)

# for /dev/shm/cerrno_dll
polaris_cerr_shm_manage(polaris_wncd_t)

# wncd calls ewlc_get_ap_sw_version() to open/read
# /tmp/sw/rp/0/0/rp_wlc/mount/mnt/images/ap.pri/version.info
# call-chain: main -> ewlc_app_context_init -> wncd_evlib_app_init_cb ->
# ewlc_capwapac_lib_init -> capwapac_init_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wncd_t)
polaris_odm_clnt2svr_mqipc_create(polaris_wncd_t)

# wncd works with AF_NETLINK NLMSG_APP_SIP ewlc_sip_netlink_sock_init
allow polaris_wncd_t self:netlink_socket create_socket_perms;

logging_send_syslog_msg(polaris_wncd_t)

# binds to mdns port from mdns_ipv4_socket_init function
corenent_udp_bind_mdns_port(polaris_wncd_t)

# bind CAPWAP control and data
corenet_udp_bind_polaris_capwap_ctr_port(polaris_wncd_t)
corenent_udp_bind_polaris_capwap_data_port(polaris_wncd_t)

# allow read/write/mmap access to awips file
gen_require('type polaris_awips_signature_file_t;
')
allow polaris_wncd_t polaris_awips_signature_file_t:file { map read open getattr unlink};

# allow read / write / unlink access to /bootflash/certs
polaris_wlc_ap_cert_manage(polaris_wncd_t)

# wncd ewlc-lisp interaction module, connect to lisp map-server on port 4342
corenent_tcp_connect_lisp_cons_control_port(polaris_wncd_t)

# binds to mdns bcp port from mdns_bcp function
corenent_udp_bind_mdns_bcp_port(polaris_wncd_t)

#DB persistence
polaris_tldb peppersist_setup(polaris_wncd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.te
No license file was found, but licenses were detected in source scan.

#
# July 2018, Victor Kamensky
#
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#
#
## <summary>Polaris ngwc fed_debug Policy Rules.</summary>

####################################################
## <summary>
## Connect to and send messages to /tmp/idope_svr and
## /tmp/shfwd_svr unix datagram sockets.
## </summary>
## <param name="domain">
## Domain allowed access.

```c
interface('polaris_fed_debug_sock_write',
    gen_require(
        type polaris_fed_debug_sock_t;
        type polaris_ngwc_fed_debug_mgr_t;
        type tmp_t;
    ')

    allow $1 self:unix_stream_socket {create_socket_perms};
    allow $1 polaris_ngwc_fed_debug_mgr_t:unix_stream_socket {connectto};
    write_sock_files_pattern($1, tmp_t, polaris_fed_debug_sock_t)
'
)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfeddebug.if

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
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#

```
policy_module(polarispsd, 1.0);

gen_require('    type polaris_psd_t;
'
)
```

polaris_btrace_data_manage(polaris_psd_t)
polaris_crft_data_manage(polaris_psd_t)
polaris_chasfs_manage(polaris_psd_t)
polaris_tdlresolve_read(polaris_psd_t)
polaris_tdlldb_list_dirs(polaris_psd_t)
polaris_cpld_read(polaris_psd_t)
polaris_flashlib_read(polaris_psd_t)
polaris_ripc_sman_ui_serv_connect(polaris_psd_t)
polaris_db_tdlldb_dir_use(polaris_psd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_psd_t)
# allow to read /proc/meminfo
kernel_read_system_state(polaris_psd_t)

# psd wants to run /usr/bin/ins/bin/cfgwr command
corecmd_exec_bin(polaris_psd_t)
corecmd_exec_shell(polaris_psd_t)

# provide objstore access
polaris_disk_objstore_read(polaris_psd_t)

# work with /tmp files (/tmp/sh-thd-*)
type polaris_psd_tmp_t;
files_tmp_file(polaris_psd_tmp_t);
files_tmp_filetrans(polaris_psd_t, polaris_psd_tmp_t, file);
manage_files_pattern(polaris_psd_t, polaris_psd_tmp_t, polaris_psd_tmp_t)
polaris_obfl_data_read(polaris_psd_t)

allow polaris_psd_t self:capability { fsetid };
allow polaris_psd_t self:capability { dac_override chown };
allow polaris_psd_t self:netlink_route_socket rw_netlink_socket_perms;

logging_send_syslog_msg(polaris_psd_t)

#psd need detect which terminal to use as console, need read permission to ttyS
# psd need read/write grub configure file /boot/grub/menu.*: read /boot/grub/menu.bak
# , generate /boot/grub/menu.list
# read access to bootflash for bin file loading
ifdef(`vxe_family',
term_use_unallocated_ttys(polaris_psd_t)
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
')
ifdef(`wlc_family',
term_use_unallocated_ttys(polaris_psd_t)
bootloader_rw_config(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
')
ifdef(`vwlc_platform',
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
')
polaris_disk_csl_manage(polaris_psd_t)
fs_read_nsfs_files(polaris_psd_t)

polaris_dyncfg_tmp_read(polaris_psd_t)

polaris_read_packages_conf(polaris_psd_t)

# handling /tmp/restconf
type polaris_restconf_t;
files_tmp_file(polaris_restconf_t)

files_tmp_filetrans(polaris_psd_t, polaris_restconf_t, dir, "restconf")
polaris_restconf_manage(polaris_psd_t)

# handling /tmp/.ncsshd_authorized_keys
type polaris_ncsshd_keys_t;
files_tmp_file(polaris_ncsshd_keys_t);

files_tmp_filetrans(polaris_psd_t, polaris_ncsshd_keys_t, dir, ".ncsshd_authorized_keys")
polaris_ncsshd_keys_manage(polaris_psd_t)

polaris_tmp_tdlldb_persist_setup(polaris_psd_t)

polaris_tdlldbpersist_setup(polaris_psd_t)

# write mem updates the grub config files
optional_policy('polaris_grubcfg_manage(polaris_psd_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.te
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#
# February 2020, Victor Kamensky
#
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#
### <summary>Polaris fpm Policy Rules.</summary>

#########################################################################
### <summary>
### Write fpm /var/run socket file
### </summary>
### <param name="domain">
### <summary>
## Domain allowed access.
## <summary>
## </param>
#
interface('polaris_fpm_var_sock_write',
    gen_require('    type polaris_fpm_t;
    type polaris_fpm_var_run_t;
    type var_run_t;
    ')
    write_sock_files_pattern($1, var_run_t, polaris_fpm_var_run_t)
    allow $1 polaris_fpm_t:unix_stream_socket { connectto };
')

#######################################
## <summary>
## Manage mqipc fpm2fmrp shared memory file in /dev/shm directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_fpm2fmrp_mqipc_use',
    gen_require('    type polaris_fpm2fmrp_mqipc_t;
    ')
    polaris_mqipc_use($1, polaris_fpm2fmrp_mqipc_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.if
No license file was found, but licenses were detected in source scan.

#
# Oct 2020, Xin Xiang
#
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#
## <summary>Polaris Doppler Policy Rules.</summary>

##########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/dmamap
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_dmammap_dev_use',
    gen_require(
        type device_t;
        type polaris_dmammap_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_dmammap_device_t)
    read_chr_files_pattern($1, device_t, polaris_dmammap_device_t)
    allow $1 polaris_dmammap_device_t:chr_file map;
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/dmamap 
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_dplr_dev_use',
    gen_require(
        type device_t;
        type polaris_dplr_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_dplr_device_t)
    read_chr_files_pattern($1, device_t, polaris_dplr_device_t)
    allow $1 polaris_dplr_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdoppler.if
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#
# March 2017, Victor Kamensky
#
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#
/usr/binos/conf/pvp.sh -- gen_context(system_u:object_r:polaris_pvp_exec_t,s0)
policy_module(polariswlc, 1.0);

# hanet driver used by vwlc, is there better place for it?
type polaris_hanet_device_t;
dev_node(polaris_hanet_device_t)

gen_require('  
  type polaris_wlc_ap_images_t;
  type mnt_t;
  attribute polaris_extended_domain;
')

# transition when /mnt/images is created
filetrans_pattern(polaris_extended_domain, mnt_t, polaris_wlc_ap_images_t, dir, "images")

# epaN and epactrIN devices
type polaris_eapa_device_t;
dev_node(polaris_eapa_device_t)
# luna_fpgs device
type polaris_luna_mbfpga_device_t;
dev_node(polaris_luna_mbfpga_device_t)

# astro device
type polaris_astro_device_t;
dev_node(polaris_astro_device_t)

# cpp_il device
type polaris_cpp_il_device_t;
dev_node(polaris_cpp_il_device_t)

# oob_evfc device
type polaris_oob_evfc_device_t;
dev_node(polaris_oob_evfc_device_t)

# on vWLC all processes read grub_cisco_version in polaris_disk_varied_t
gen_require(`attribute polaris_domain;`
')
polaris_disk_varied_search(polaris_domain)

# /dev/sfp-ktr device
type polaris_sfp_katar_device_t;
dev_node(polaris_sfp_katar_device_t)

# handle /tmp/vxe_disk_XXX_YYY files
ifdef(`vwlce_platform',`
gen_require(`
    type unconfined_service_t;
')
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_manage(unconfined_service_t)
')
type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

#on vWLC, all processes read grubenv from EFI disk partition.
gen_require(
    attribute polaris_domain;
)
polaris_vwlc_grub_efi_search(polaris_domain)

type polaris_vwlceinstall_info_t;
polaris_pfile_type(polaris_vwlceinstall_info_t)

gen_require(
    type unconfined_service_t;
    type polaris_disk_varied_t;
)

# unconfined service create /boot/.install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vwlceinstall_info_t, file, ".install_info")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.te
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#
/tmp/sw/boot/rmonbifo(/.*)? gen_context(system_u:object_r:polaris_rmonbifo_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.fc
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#

# polarisbtlogger file contexts place holder

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#

policy_module(polarisnifmgr, 1.0);

gen_require(`
  type polaris_nif_mgr_t;
`)

polaris_ripc_sman_ui_serv_connect(polaris_nif_mgr_t)

polaris_btrace_data_manage(polaris_nif_mgr_t)
polaris_crft_data_manage(polaris_nif_mgr_t)
polaris_chasfs_manage(polaris_nif_mgr_t)
polaris_tdlresolve_read(polaris_nif_mgr_t)
polaris_tdlldb_list_dirs(polaris_nif_mgr_t)
polaris_cpld_read(polaris_nif_mgr_t)
polaris_lua_read(polaris_nif_mgr_t)
polaris_flashlib_read(polaris_nif_mgr_t)

#if romvar is not set, Set Rommon env varaible needs write permission
polaris_flashlib_write(polaris_nif_mgr_t)

logging_send_syslog_msg(polaris_nif_mgr_t)

#if set out of band interface mac set_oobndif_mac
allow polaris_nif_mgr_t self:tcp_socket ioctl;

#if communication between the nif manager and fed use directories under /tmp/sv
polaris_sv_tmp_use(polaris_nif_mgr_t)

#if /dev/shm/sdm access
optional_policy(`
polaris_sdm_shm_manage(polaris_nif_mgr_t)
`)

#if open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_nif_mgr_t)

#if allow create and write access to the /proc/*_sesa file

gen_require(`
type polaris_proc_sesa_t;
`)
polaris_proc_sesa_create_write(polaris_nif_mgr_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.te
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#
# April 2017, Victor Kamensky
#
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#

policy_module(polarisdmiopdatamgrd, 1.0);

gen_require(
  "    type polaris_dmi_opdatamgrd_t;
  
  
  # allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_dmi_opdatamgrd_t)

  # work with /var/log/dmi/ files
type polaris_dmi_var_log_t;
  logging_log_file(polaris_dmi_var_log_t)
  manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
  manage_dirs_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
  logging_log_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, dir, "dmi")

  polaris_chasfs_manage(polaris_dmi_opdatamgrd_t)
polaris_btrace_data_manage(polaris_dmi_opdatamgrd_t)
polaris_cpld_read(polaris_dmi_opdatamgrd_t)
polaris_boot_tmp_read(polaris_dmi_opdatamgrd_t)

  # run ldd, which in turns execve "ld.so --verify"
  libs_exec_ld_so(polaris_dmi_opdatamgrd_t)

  # this (opdatamgrd.sh) process is shell script need permission to execute shell
  # and variety of small util commands under bin_t
corecmd_exec_shell(polaris_dmi_opdatamgrd_t)
corecmd_exec_bin(polaris_dmi_opdatamgrd_t)

  # allow read of /etc/passwd
  # passwd_file_t,file { getattr open read }
  auth_use_nsswitch(polaris_dmi_opdatamgrd_t)

  # opdatamgrd.sh calls ps command
  # ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_dmi_opdatamgrd_t)
# ps needs access to proc_t
kkernel_read_system_state(polaris_dmi_opdatamgrd_t)

allow polaris_dmi_opdatamgrd_t self:capability { sys_resource dac_override };

# handling of /tmp/stream-parsers
type polaris_dmi_parser_t;
files_tmp_file(polaris_dmi_parser_t)
files_tmp_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, dir, "stream-parsers")
manage_dirs_pattern(polaris_dmi_opdatamgrd_t, tmp_t, polaris_dmi_parser_t)
manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, polaris_dmi_parser_t)

mount_domtrans(polaris_dmi_opdatamgrd_t)

# confd_cli runs under our label
allow polaris_dmi_opdatamgrd_t self:tcp_socket create_socket_perms;

# runs ps that wants to have access to containers files
optional_policy(
  polaris_disk_vman_dir_list(polaris_dmi_opdatamgrd_t)
)  
polaris_sandbox_file_dir_list(polaris_dmi_opdatamgrd_t)
polaris_sandbox_file_getattr(polaris_dmi_opdatamgrd_t)

# runs find to search all parse.* files
# find . -perm /111 -name parse.* -exec basename {} ;
# LOOK AT ME it seems that it does search on customer visible
# directories, can and whether customer supposed to be
# able give parse.* files to dmi opdatamgrd, could it
# be exploiolet?
files_getattr_all_files(polaris_dmi_opdatamgrd_t)
files_getattr_all_dirs(polaris_dmi_opdatamgrd_t)

# access to /dev/pts/0
ssh_use_ptys(polaris_dmi_opdatamgrd_t)

# directly work with to /dev/ttyS1
term_use_unallocated_ttys(polaris_dmi_opdatamgrd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmioptamgrd.te
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#
# March 2017, Victor Kamensky
#
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## <summary>Polaris ngwc_fed Policy Rules.</summary>

-----------------------------------------------------------------------------------------------------
## <summary>
##     Connect to and send messages to /tmp/dbgnn_log_sv unit
## datagram socket.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface(`polaris_fed_sock_write',`
    gen_require(`
        type polaris_fed_sock_t;
        type polaris_ngwc_fed_t;
        type tmp_t;
    `)
`
    allow $1 self:unix_stream_socket {create_socket_perms};
    allow $1 polaris_ngwc_fed_t:unix_stream_socket {connectto};
    write_sock_files_pattern($1, tmp_t, polaris_fed_sock_t)
`)

-----------------------------------------------------------------------------------------------------
## <summary>
##      Allow the specified domain able to read fed /tmp files.
## </summary>
## <param name="type">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
## <param name="object">
##     <summary>
##     File name in /tmp that the fed domain creates and other domains access.
##     </summary>
## </param>
#
interface(`polaris_fed_tmp_files_read',`
    gen_require(`
        type polaris_fed_tmp_t;
    `)
    `
)}
read_files_pattern($1, polaris_fed_tmp_t, polaris_fed_tmp_t)
')

########################################################################
## <summary>
## Allow to read and write /tmp/epc_ws/fed_to_wif_pipe file.
## </summary>
## <param name="domain">
## <summary>
## epc_ws_liaison and ngwc-fed pipe interaction.
## </summary>
## </param>
#
interface('polaris_fed_shm_file_read',
  gen_require('  
    type polaris_ngwc_fed_t;
  ')

  allow $1 polaris_ngwc_fed_t:shm { associate read unix_read unix_write write };')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.if
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#
# August 2017, Shawn Lu
#
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#
#
# polarismobilityd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.fc
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#
# April 2017, Victor Kamensky
#
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#

policy_module(polarisdmivtyserverutild, 1.0);

gen_require('
type polaris_dmi_vtyserverutild_t;

')

polaris_btrace_data_manage(polaris_dmi_vtyserverutild_t)
polaris_chasfs_manage(polaris_dmi_vtyserverutild_t)
polaris_tdlresolve_read(polaris_dmi_vtyserverutild_t)
polaris_tdlldb_list_dirs(polaris_dmi_vtyserverutild_t)
polaris_cpld_read(polaris_dmi_vtyserverutild_t)
polaris_flashlib_read(polaris_dmi_vtyserverutild_t)

allow polaris_dmi_vtyserverutild_t self:socket { connect create read write }

type polaris_dmi_vtyserverutild_tmp_t;
files_tmp_file(polaris_dmi_vtyserverutild_tmp_t)
files_tmp_filetrans(polaris_dmi_vtyserverutild_t, polaris_dmi_vtyserverutild_tmp_t, fifo_file, ".DMI_FIFO")
manage_fifo_files_pattern(polaris_dmi_vtyserverutild_t,
polaris_dmi_vtyserverutild_tmp_t,polaris_dmi_vtyserverutild_tmp_t)

logging_send_syslog_msg(polaris_dmi_vtyserverutild_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.te
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dnl
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dnl
define(`mqipc_stem', `translit(patsubst($1, `-mqipc$', `'), `-', `_')')
define(`mqipc_label', `format(`polaris_%s_mqipc_t', mqipc_stem($1))')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc.m4
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#
# November 2020, Christine Hwang
#
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#
#
## <summary>Polaris Cabo GNSS Policy Rules.</summary>

########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/ttyS1

## <summary>

## Domain allowed access.

## </summary>

### interface('polaris_cabo_gnss_dev_use',

gen_require(''

type device_t;

type polaris_cabo_gnss_device_t;
''
)

write_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
read_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
allow $1 polaris_cabo_gnss_device_t:chr_file map;
''
)

---

# Policy_module(polaristservice, 1.0);

polaris_process_domain_template(tservice_telnet)

polaris_process_domain_template(tservice_ssh)

gen_require(''

type inetd_exec_t, inetd_t;
''
)
domtrans_pattern(polaris_tservice_telnet_t, inetd_exec_t, inetd_t)

polaris_chasfs_manage(polaris_tservice_telnet_t)
polaris_btrace_data_manage(polaris_tservice_telnet_t)
polaris_cpld_read(polaris_tservice_telnet_t)
polaris_boot_tmp_read(polaris_tservice_telnet_t)
polaris_rmonbifo_tmp_read(polaris_tservice_telnet_t)

corecmd_exec_shell(polaris_tservice_telnet_t)
corecmd_exec_bin(polaris_tservice_telnet_t)

---

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---

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.if

---

June 2017, Victor Kamensky

---

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---

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# allow read of `/etc/passwd
auth_use_nsswitch(polaris_tservice_telnet_t)

dmidecode_domtrans(polaris_tservice_telnet_t)

allow polaris_tservice_telnet_t self:capability sys_resource;
kernel_read_system_state(polaris_tservice_telnet_t)

gen_require(`
    type initrc_exec_t, initrc_t;
')
domtrans_pattern(polaris_tservice_telnet_t, initrc_exec_t, initrc_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_tservice_telnet_t)

# /bin/sh /usr/binos/conf/mcp_chvrf.sh eobc /usr/shbin/xinetd -f
#        /tmp/chassis/local/rp/chasfs/rp/0/0/etc/telnet/xinetd_telned.conf
polaris_chvrf_domtrans(polaris_tservice_telnet_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.te
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#
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#
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#

### <summary>Polaris WLC Platform Policy Rules.</summary>

##########################################################################
### <summary>
### Work (read, write, ioctl) with /dev/hanet
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_hanet_dev_use`,
   gen_require(`
       type device_t;
   type polaris_hanet_device_t;
write_chr_files_pattern($1, device_t, polaris_epa_device_t)
read_chr_files_pattern($1, device_t, polaris_epa_device_t)

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/epa[0-9]* and
## /dev/epactrl[0-9]*
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_epa_dev_use',
    gen_require(
        type device_t;
        type polaris_epa_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_epa_device_t)
    read_chr_files_pattern($1, device_t, polaris_epa_device_t)
    allow $1 polaris_epa_device_t:chr_file map;
)

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/luna_mbfpga device
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_luna_mbfpga_dev_use',
    gen_require(
        type device_t;
        type polaris_luna_mbfpga_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_luna_mbfpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_luna_mbfpga_device_t)
)

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/astro device
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_astro_dev_use',
  gen_require(''
      type device_t;
  type polaris_astro_device_t;
  ')
    write_chr_files_pattern($1, device_t, polaris_astro_device_t)
    read_chr_files_pattern($1, device_t, polaris_astro_device_t)
')

#########################################################################
## Work (read, write, ioctl) with /dev/cpp_il device
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_cpp_il_dev_use',
  gen_require(''
      type device_t;
  type polaris_cpp_il_device_t;
  ')
    write_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
')

#########################################################################
## Work (read, write, ioctl) with /dev/oob_evfc device
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_oob_evfc_dev_use',
  gen_require(''
      type device_t;
type polaris_oob_evfc_device_t;

')
    write_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)
    read_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/sfp-ktr device
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sfp_katar_dev_use',
    gen_require("
    type device_t;
    type polaris_sfp_katar_device_t;
    
    write_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
    read_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
    
    

######################################
## Read vWLC install info files
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_vwlcinstall_info_read',
    gen_require("
    type polaris_vwlcinstall_info_t;
    
    read_files_pattern($1, polaris_vwlcinstall_info_t, polaris_vwlcinstall_info_t)
    list_dirs_pattern($1, polaris_vwlcinstall_info_t, polaris_vwlcinstall_info_t)
    
    

######################################
## Read /dev/vda1 device the efi partition
## <param name="domain">


interface('polaris_vwlc_grub_info_read',
  gen_require(
    type polaris_grubver_t;
    type polaris_grub_bios_t;
    type polaris_grub_efi_t;
    ')
  read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
  read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
  list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  ')
  
  interface('polaris_vwlc_grub_efi_search',
    gen_require(
      type polaris_grub_efi_t;
      ')
    search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
    ')
  
  interface('polaris_vwlc_grub_efi_use',
    gen_require(  
      type polaris_grubver_t;
      type polaris_grub_bios_t;
      type polaris_grub_efi_t;
      ')
  read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
  read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
  list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
  list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  ')

## <summary>
## Search /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##   <summary>
##       Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_vwlc_grub_efi_search',
  gen_require(
    type polaris_grub_efi_t;
    ')
  search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  ')

## <summary>
## Work (read, write, ioctl) with /dev/vda1 device
## </summary>
## <param name="domain">
##   <summary>
##       Domain allowed access.
##   </summary>
## </param>
#
type polaris_grub_efi_t;
"
write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
"

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.if
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dnl
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dnl
define(`database_stem', `translit(patsubst($1, `_DB$', `'), `A-Z', `a-z'))
define(`database_label', `format(`polaris_%s_db_tdlhb_t', database_stem($1)))

define(`database_use_map', `defn(format(``database_use_map[%s-%s]', `$1', `$2'))')
define(`database_use_map_set', `define(format(``database_use_map[%s-%s]', `$1', `$2'), `$3')')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db.m4
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# # April 2017, Victor Kamensky#
#
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#

policy_module(polarisdmidmiauthd, 1.0);

gen_require(
    type polaris_dmi_dmiauthd_t;
"

polaris_btrace_data_manage(polaris_dmi_dmiauthd_t)
polaris_crft_data_manage(polaris_dmi_dmiauthd_t)
polaris_chasfs_manage(polaris_dmi_dmiauthd_t)
polaris_tdlresolve_read(polaris_dmi_dmiauthd_t)
polaris_tdlldb_list_dirs(polaris_dmi_dmiauthd_t)
polaris_cpld_read(polaris_dmi_dmiauthd_t)
polaris_flashlib_read(polaris_dmi_dmiauthd_t)
polaris_ripc_sman_ui_serv_connect(polaris_dmi_dmiauthd_t)
polaris_db_tdladb_dir_use(polaris_dmi_dmiauthd_t)

# dmiauthd creates and binds to /tmp/.DmiAuth.socket unix socket
type polaris_dmi_dmiauthd_tmp_t;
files_tmp_file(polaris_dmi_dmiauthd_tmp_t)
files_tmp_filetrans(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, { sock_file fifo_file })
manage_sock_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)
manage_fifo_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)

# dmiauthd creates diagnostic files in /tmp/netconf-yang-diag
type polaris_dmi_dmiauthd_tmp_diags_t;
files_tmp_file(polaris_dmi_dmiauthd_tmp_diags_t)
files_tmp_filetrans(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_diags_t, { dir, "netconf-yang-diag" })
polaris_dmiauthd_tmp_diags_manage(polaris_dmi_dmiauthd_t)

logging_send_syslog_msg(polaris_dmi_dmiauthd_t)

# read confd log file and push into btrace
polaris_confd_log_read(polaris_dmi_dmiauthd_t)

# from dmilib iosp_connect through libiosp iosp_token_read_from_file
# iosp_token_read_from_file reads /tmp/rp/.iosp_dmiauthd
polaris_dmiauthd_token_read(polaris_dmi_dmiauthd_t)

generate("`
    type polaris_confd_tmp_t;
`
"
)
# This is applicable to wireless platforms running in standby monitoring mode
# wherein dmiauthd create temporary files in /tmp/confd upon switchover and
# trigger ConfD restart.
manage_files_pattern(polaris_dmi_dmiauthd_t, polaris_confd_tmp_t, polaris_confd_tmp_t)
manage_dirs_pattern(polaris_dmi_dmiauthd_t, polaris_confd_tmp_t, polaris_confd_tmp_t)

# "show netconf-yang diagnostics [all | last | message]" invokes
# /usr/binos/conf/dmid_diag_logs.sh
polaris_utility_domain_template(dmid_diag_logs)
polaris_bexecute_domtrans(polaris_dmi_dmiauthd_t)
polaris_bexecute_domain(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_exec_t)

# signal sent during the show cmd
polaris_send_signal_to_bexecute(polaris_dmi_dmiauthd_t)

# read files in /tmp/netconf-yang-diag
polaris_dmiauthd_tmp_diags_read(polaris_dmid_diag_logs_t)

# need write/ioctl/getattr access for pipes
polaris_dmiauthd_use_fifo(polaris_dmid_diag_logs_t)

polaris_use_btrace_fifo(polaris_dmid_diag_logs_t)
polaris_btrace_data_manage(polaris_dmid_diag_logs_t)
polaris_chasfs_read(polaris_dmid_diag_logs_t)
polaris_cpld_read(polaris_dmid_diag_logs_t)
dev_read_sysfs(polaris_dmid_diag_logs_t)
auth_use_nsswitch(polaris_dmid_diag_logs_t)
polaris_boot_tmp_read(polaris_dmid_diag_logs_t)
fs_getattr_tmpfs(polaris_dmid_diag_logs_t)

# bash tmp files, such as /tmp/sh-thd-1599654988
type polaris_dmid_diag_logs_tmp_t;
files_tmp_file(polaris_dmid_diag_logs_tmp_t)
files_tmp_filetrans(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, file)
manage_files_pattern(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, polaris_dmid_diag_logs_tmp_t)

# execute /bin/sed
corecmd_exec_bin(polaris_dmid_diag_logs_t)

########################################################################
# Allow diagnostics feature to create log file in bootflash
########################################################################

# execute /bin/tar
corecmd_exec_bin(polaris_dmi_dmiauthd_t)
# tar reads /etc/passwd
auth_use_nsswitch(polaris_dmi_dmiauthd_t)
# create log file in bootflash
polaris_bootflash_manage(polaris_dmi_dmiauthd_t)

########################################################################

allow polaris_dmi_dmiauthd_t self:capability sys_resource;

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmiauthd.te
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#
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#
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#
/opt/confd/bin/confd -- gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)
/opt/confd/lib/confd/lib/core/confd/priv/mmap_schema --
gen_context(system_u:object_r:polaris_mmap_schema_exec_t:s0)
/usr/bin/confd -- gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)
/usr/bin/confd_script_cdb_backup.sh -- gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)
/usr/bin/confd_script_cdb_backup.sh -- gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)
/usr/bin/confd_script_cdb_backup.sh -- gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)
/usr/bin/confd_script_cdb_backup.sh -- gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)
/var/confd0(/.*)? -- gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)
/dev/shm/confd(/.*)? -- gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)
/tmp/confd(/.*)? -- gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)
/tmp/confd_cli(/.*)? -- gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)
/tmp/vconfd(/.*)? -- gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)
/usr/bin/vconfd_script_*admin_tech.*.sh -- gen_context(system_u:object_r:polaris_admin_tech_exec_t:s0)
/var/tech(/.*)? gen_context(system_u:object_r:polaris_admin_tech_var_t:s0)
/bootflash/admintech gen_context(system_u:object_r:polaris_admin_tech_data_t:s0)
/bootflash/admintech_trace gen_context(system_u:object_r:polaris_admin_tech_data_t:s0)
/bootflash/MEMORY_LOG_*\.text gen_context(system_u:object_r:polaris_admin_tech_data_t:s0)
/bootflash/collated_log_* gen_context(system_u:object_r:polaris_admin_tech_data_t:s0)
/bootflash/tracelogs/cia-netconf-trace\* gen_context(system_u:object_r:polaris_conf_fl variations_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.fc
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#
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#
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#

policy_module(polarisunconfined, 1.0);

### <desc>
### <p>
### IOSd runs in unconfined mode
### </p>
### </desc>

### gen_tunable(polaris_unconfined_iosd, true)

### <desc>
### <p>
### All polaris processes except IOSd runs in unconfined mode
### </p>
## gen_tunable(polaris_unconfined_all, true)

gen_require(
    type apmd_t;
    type auditd_t;
    type inetd_t;
    type init_t;
    type initrc_t;
    type journalctl_t;
    type rpcbind_t;
    type rpcd_t;
    type sshd_t;
    type syslogd_t;
    type telnetd_t;
    type udev_t;
    type virtd_t;
    type virtlogd_t;
    type vmtools_t;
    type ifconfig_t;
    type setfiles_t;
    type iptables_t;
    type virtd_lxc_net_t;
    type virtd_lxc_t;
')

polaris_domain_maybe_unconfined(apmd_t)
polaris_domain_maybe_unconfined(auditd_t)
polaris_domain_maybe_unconfined(inetd_t)
polaris_domain_maybe_unconfined(init_t)
polaris_domain_maybe_unconfined(initrc_t)
polaris_domain_maybe_unconfined(journalctl_t)
polaris_domain_maybe_unconfined(rpcbind_t)
polaris_domain_maybe_unconfined(rpcd_t)
polaris_domain_maybe_unconfined(sshd_t)
polaris_domain_maybe_unconfined(syslogd_t)
polaris_domain_maybe_unconfined(telnetd_t)
polaris_domain_maybe_unconfined(udev_t)
polaris_domain_maybe_unconfined(virtd_t)
polaris_domain_maybe_unconfined(virtlogd_t)
polaris_domain_maybe_unconfined(vmtools_t)
polaris_domain_maybe_unconfined(ifconfig_t)
polaris_domain_maybe_unconfined(setfiles_t)
polaris_domain_maybe_unconfined(iptables_t)
polaris_domain_maybe_unconfined(virsh_t)
polaris_domain_maybe_unconfined(svirt_t)
polaris_domain_maybe_unconfined(svirt_lxc_net_t)
polaris_domain_maybe_unconfined(virtd_lxc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.te
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#
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#
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#

/tmp/HTX-IOX(/.*)?       gen_context(system_u:object_r:polaris_htx_iox_tmp_t,s0)

# /dev/sppi_memif htx works with
/dev/sppi_memif        -c gen_context(system_u:object_r:polaris_sppi_memif_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.fc
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#
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#
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#

/usr/bin/os/conf/periodic.sh -- gen_context(system_u:object_r:polaris_periodic_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.fc
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#
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#
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#

policy_module(polarislua, 1.0);

********************************************************************************
# Lua policy
********************************************************************************
type polaris_lua_file_t;
files_type(polaris_lua_file_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.te

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#
# November 2020, Christine Hwang
#
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#

policy_module(polariscabognss, 1.0);

    gen_require(
        type polaris_cabo_gnss_t;
    )

    polaris_btrace_data_manage(polaris_cabo_gnss_t)
    polaris_chasfs_manage(polaris_cabo_gnss_t)
    polaris_tdlresolve_read(polaris_cabo_gnss_t)
    polaris_cpld_read(polaris_cabo_gnss_t)

    polaris_ripc_sman_ui_serv_connect(polaris_cabo_gnss_t)

    # Allow sysfs read for platform ID and
    # r/w on /sys/class/gpio/export
    polaris_sysfs_manage(polaris_cabo_gnss_t)
    dev_manage_sysfs_dirs(polaris_cabo_gnss_t)

    # Allow Cabo GNSS to access/modify to GPS GPIO
    polaris_ggpio_dev_read_write(polaris_cabo_gnss_t)

    # Allow Cabo GNSS access to /dev/pps0
    dev_rw_realtime_clock(polaris_cabo_gnss_t)

    # allow system time capability to check for system timeout
    allow polaris_cabo_gnss_t self:capability sys_time;

    # Label Cabo GNSS TTY device
    type polaris_cabo_gnss_device_t;
    dev_node(polaris_cabo_gnss_device_t)

    polaris_cabo_gnss_dev_use(polaris_cabo_gnss_t)

Found in path(s):
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dnl

dnl April 2018, Victor Kamensky

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dnl WLC Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 1)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 1)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 1)
max_bay_ripc_map_set(`fp', `global', 0)

max_elastic_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 7)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.te

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#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris rogued Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.if
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#

## <summary>Polaris flashcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.if
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#
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#

policy_module(polarissmd, 1.0);

gen_require(`
    type polaris_smd_t;
`)

# mqipc manual, one that missing in platform tdl file
polaris_btrace_data_manage(polaris_smd_t)
polaris_crft_data_manage(polaris_smd_t)
polaris_chasfs_manage(polaris_smd_t)
polaris_tdlresolve_read(polaris_smd_t)
polaris_tlddb_list_dirs(polaris_smd_t)
polaris_cpld_read(polaris_smd_t)
polaris_lua_read(polaris_smd_t)
polaris_flashlib_read(polaris_smd_t)
polaris_ripc_sman_ui_serv_connect(polaris_smd_t)
# working with smd persistent/ disk files
type polaris_smd_disk_t;
polaris_disk_type(polaris_smd_disk_t)

manage_files_pattern(polaris_smd_t, polaris_smd_disk_t, polaris_smd_disk_t)

polaris_db_tdl.db.dir.use(polaris_smd_t)

# access to persist tdl.db (e.g. .dbpersist)
polaris_tdl.db.persist_setup(polaris_smd_t)

# for /dev/shm/cerrno_dell
polaris_cerr_shm.manage(polaris_smd_t)

ifdef(`nyquist_platform',`
gen_require(`
    type polaris_bt_logger_smd_mqipc_t;
    ')
# smd may start first and create this mqipc channel
polaris_mqipc_create_name(polaris_smd_t, polaris_bt_logger_smd_mqipc_t, bt_logger_smd)
')

polaris_lfts.dev.use(polaris_smd_t)

allow polaris_smd_t self:capability { sys_resource net_bind_service };
polaris_socketat.nsfs.read(polaris_smd_t)

allow polaris_smd_t self:process setrlimit;
corenet_tcp.bind(polaris_smd_devshell_port, polaris_smd_t)
corenet_tcp_bind_generic_node(polaris_smd_t)
allow polaris_smd_t self:tcp_socket { getattr setopt getopt bind create listen accept connect read write name_connect };
allow polaris_smd_t self:capability { net_admin sys_admin };

allow polaris_smd_t self:udp_socket { create_socket_perms recv_msg send_msg };
#smutil_msg_event_cb_handler() uses netlink
allow polaris_smd_t self:netlink_socket { bind create };

# LOOK AT ME: now smd may open arbitrary port on forwarding VRF (16)
# but in SELinux there is no way to differentiate between port spaces
# accross VRFs or namespaces. For now let's grant smd_t access to all ports
# regardless of VRF. In future investigate ways to be more restrictive
corenet_udp_bind_generic_port(polaris_smd_t)
corenet_udp_sendrecv_generic_port(polaris_smd_t)
# LOOK AT ME: grants access to udp_bind on any node, but if we can
# be more specific and bind only to forwarding VRF related interfaces
corennet_udp_bind_generic_node(polaris_smd_t)

# smd want to listen on http port 80 on VRF_FWD, for webauth code please see
# smd/webauth/src/webauth_io.c
corennet_tcp_bind_http_port(polaris_smd_t)

allow polaris_smd_t self:capability dac_override;

logging_send_syslog_msg(polaris_smd_t)

allow polaris_smd_t self:capability net_raw;
allow polaris_smd_t self:packet_socket { create_socket_perms recv_msg send_msg };

# for access to disk html files (for webauth)
polaris.Persistent_read(polaris_smd_t)

# transition for dc_profile_dir to polaris_smd_disk_t
gen_require(
    type initrc_t;
');
')
polaris_bootflash_filetrans(initrc_t, polaris_smd_disk_t, dir, "dc_profile_dir")

# SANET is listening on http port(CSCvb41802)
# Hence, it needs to follow the same rule as nginx is using in polarisnginx.te
# FIXME: add interface to allow bind to port 1025-65535
corennet_tcp_bind_all_ports(polaris_smd_t)

polaris_issu_tmp_files_read(polaris_smd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

/usr/binos/conf/cedge-tanman.sh -- gen-context(system_u:object_r:polaris_cedge_tanman_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.fc
No license file was found, but licenses were detected in source scan.

#
policy_module(polarisvman, 1.0);

gen_require(
    type polaris_vman_t;
    )

polaris_btrace_data_manage(polaris_vman_t)
polaris_crft_data_manage(polaris_vman_t)
polaris_chasfs_manage(polaris_vman_t)
polaris_tdlresolve_read(polaris_vman_t)
polaris_tdlldb_list_dirs(polaris_vman_t)
polaris_cpld_read(polaris_vman_t)
polaris_flashlib_read(polaris_vman_t)
polaris_ripc_sman_ui_serv_connect(polaris_vman_t)
polaris_db_tdlldb_dir_use(polaris_vman_t)

polaris_monbifo_tmp_read(polaris_vman_t)
polaris_boot_tmp_read(polaris_vman_t)

logging_send_syslog_msg(polaris_vman_t)
modutils_read_module_deps(polaris_vman_t)
modutils_read_module_config(polaris_vman_t)
modutils_manage_module_config(polaris_vman_t)
modutils_domtrans_insmod(polaris_vman_t)
files_read_kernel_modules(polaris_vman_t)

corecmd_exec_bin(polaris_vman_t)
corecmd_exec_shell(polaris_vman_t)

# ifconfig related, ifconfig is executed in its own context
sysnet_domtrans_ifconfig(polaris_vman_t)

# VMAN calls vman_set_congestion_control_multiplex when the count
# of the bridge users reaches 2 and needs write permissions on
# contdev_multiplex
dev_rw_sysfs(polaris_vman_t)
fs_getattr_xattr_fs(polaris_vman_t)

virt_stream_connect(polaris_vman_t)
virt_read_pid_files(polaris_vman_t)

fs_rw_cgroup_files(polaris_vman_t)
kernell_read_system_state(polaris_vman_t)
# allow vman to read /dev/pts/*
term_use_generic_ptys(polaris_vman_t)
#allow polaris_vman_t polaris_udev_tmp_files_t:file open;
polaris_udev_tmp_files_read(polaris_vman_t)
#allow vman to run brctl in it's own domain
brctl_domtrans(polaris_vman_t)
#allow vman to run /sbin/fsck in script
fstools_domtrans(polaris_vman_t)
#allow vman to mount rootfs on polaris_disk_vman_t
allow polaris_vman_t polaris_disk_vman_t:dir mounton;
fs_mount_xattr_fs(polaris_vman_t)
#allow vman have capability for modify owner of the file
allow polaris_vman_t self:capability { chown fowner fsetid };
#allow vman to bind to unreserved tcp ports while it searches for
#port available to guest console to listen on
corennet_tcp_bind_unreserved_ports(polaris_vman_t)

# working with vman /var/ files
type polaris_var_vman_t;
files_tmp_file(polaris_var_vman_t)
files_var_filetrans(polaris_vman_t, polaris_var_vman_t, dir, "virtual-instance")
manage_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_dirs_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_sock_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)
# working with vman persitsten files

type polaris_disk_vman_t;
polaris_disk_type(polaris_disk_vman_t)

gen_require(')
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
')
filetrans_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t, dir, "virtual-instance")
filetrans_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t, file, "virtual-instance.conf")
filetrans_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t, dir, "vman_fdb")

# allow creation of /bootflash/virtual-instance.conf file
manage_files_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t)
# allow creation of /bootflash/virtual-instance and /bootflash/vman_fdb directories
manage_dirs_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t)
# vman can manage files inside of its own polaris_disk_vman_t directories
manage_files_pattern(polaris_vman_t, polaris_disk_vman_t, polaris_disk_vman_t)

# after all above transition we need to grant vman right to work with any
# persistent storage file since it needs to access and write .ova files
polaris_persistent_manage(polaris_vman_t)

# vman uses netlink socket to talk to lxc watchdog driver
# please see binos/vman/src/vman_lxc_wd.c
allow polaris_vman_t self:netlink_generic_socket { create_socket_perms sendto recvfrom};

# vman calls tipc-config which in turns wants to create AF_TIPC socket
allow polaris_vman_t self:socket create_socket_perms;

# vman uses 'ip nets exec 0 ifconfig -a' command which in turns switches
# network namespace and need access to /proc/pid/ns/net file
fs_read_nsfs_files(polaris_vman_t)

# this label is created to exchange log related information between container and host.
type polaris_vman_log_t;
# By making this label belong to polaris persistent storage combined with vman inheriting rights
# to manage polaris_disk via polaris_persistent_manage(), vman gains rights to manage below dirs.
polaris_disk_type(polaris_vman_log_t)
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdIpsAlert-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdUrlf-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdAmp-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdTls-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdLogMappings-IOX")
allow polaris_vman_t polaris_vman_log_t:dir mounton;
# Allow vman to work with /bootflash/virtual-instance/UTD/rootfs
optional_policy(
    gen_require( \
        type container_file_t;
    )
    allow polaris_vman_t container_file_t:filesystem {getattr unmount} ;
)

# Allow vman/ioxman to work with /tmp/HTX-IOX
optional_policy(
    gen_require( \
        type polaris_htx_iox_tmp_t;
    )
    allow polaris_vman_t polaris_htx_iox_tmp_t:dir {getattr mounton open read };
)

# Allow vman to mount /tmp/binos-IOX
optional_policy(
    gen_require( \
        type polaris_qfp_memif_t;
    )
    allow polaris_vman_t polaris_qfp_memif_t:dir mounton;
)

# vman_init.sh operates on /tmp/vman files
  type polaris_vman_tmp_t;
  files_tmp_file(polaris_vman_tmp_t)
  files_tmp_filetrans(polaris_vman_t,polaris_vman_tmp_t, { file dir })
  polaris_systemd_tmpfiles_tmp_filetrans(polaris_vman_tmp_t, dir, "vman")
  manage_files_pattern(polaris_vman_t,polaris_vman_tmp_t,polaris_vman_tmp_t)
  manage_dirs_pattern(polaris_vman_t,polaris_vman_tmp_t,polaris_vman_tmp_t)

# allow vman to work with /tmp/xml
fs_remount_tmpfs(polaris_vman_t)
fs_unmount_tmpfs(polaris_vman_t)
fs_unmount_xattr_fs(polaris_vman_t)
allow polaris_vman_t polaris_vman_tmp_t:dir mounton;
optional_policy(
    polaris_cedge_xml_tmp_manage(polaris_vman_t)
)

# relabel /bootflash/virtual-instance/UTD/tmpstaging to /dev/loopX
gen_require( \
    type iso9660_t;
) 
allow polaris_vman_t iso9660_t:filesystem {relabelfrom} ;
# configure /proc/sys/net/ipv4/conf/dpbr_0/arp_announce
kernel_search_network_sysctls(polaris_vman_t)
kernl_rw_net_sysctls(polaris_vman_t)
# configure e.g. /proc/sys/vm/nr_hugepages
kernel_rw_vm_sysctls(polaris_vman_t)

# need to do bind mount of /bootflash/SHARED-IOX
mount_domtrans(polaris_vman_t)

# vman accessing files under /tmp created by initrc like /tmp/gdev/md0/gdev-info
init_read_script_tmp_files(polaris_vman_t)

#DB persistence
polaris_tldlbdpersist_setup(polaris_vman_t)
polaris_tmp_tdlldb_persist_setup(polaris_vman_t)

gen_require('‘
    type initrc_t;
’)files_tmp_filetrans(initrc_t, polaris_vman_tmp_t, file, "cgroup.log")
dmidecode_domtrans(polaris_vman_t)

# read /etc/libvirt/libvirt.conf
virt_read_config(polaris_vman_t)

# vman_cgroup.yaml.sh through prep_csr_kumo (binos_functions-pd) checks for
# ovf-env.xml file existence in variety of directories includind
# /cdrom0/ovf-env.xml
fs_read_iso9660_files(polaris_vman_t)

# allow vman to manage loop device: finding free /dev/loopN device
# note vman code iterated over all /dev/loop* devices and try to lock
# them. As part of that iteration it tries /dev/loop_control
# what it should do instead is to use /dev/loop_control to get free
# device
dev_rw_loop_control(polaris_vman_t)

# PLEASE LOOK AT ME
# allow vman to read, write /dev/loopN devices that are
# under fixed_disk_device_vlabel. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_vman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_vman_t self:capability sys_resource;
# allow VMAN to move disk.img to the disk
allow polaris_vman_t self:process setfscreate;

# vman mounts directories on behalf of guest containers, it uses
# specified context for guest directories, need permission to
# relabel, mount, etc.
fs_relabelfrom_xattr_fs(polaris_vman_t)
virt_relabel_sandbox_filesystem(polaris_vman_t)
virt_mounton_sandbox_file(polaris_vman_t)
virt_manage_sandbox_files(polaris_vman_t)
gen_require(' type svirt_sandbox_file_t; ')
allow polaris_vman_t svirt_sandbox_file_t:filesystem mount;

# /tmp/.flashlock operations from tdllib_startup_cfg_ignored, mcp_getmonvar
allow polaris_vman_t self:capability dac_override;

# allow vman to stat /dev/kvm, executed by vman_common_init function
dev_getattr_kvm_dev(polaris_vman_t)

# vman in getfs_info_by_mediatype function inspects files in /tmp/gdev
gen_require(' type udev_tmp_t; ')
read_files_pattern(polaris_vman_t, udev_tmp_t, udev_tmp_t)

# /usr/binos/conf/vman_exec.sh policy
polaris_utility_domain_template(vman_shell)

polaris_bexecute_domain(polaris_vman_shell_t, polaris_vman_shell_exec_t)
# vman_exec.sh calls mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_vman_shell_t)
# mcp_chvrf.sh calls vman_exec.sh back and then it call bexec.sh
polaris_bexecute_domtrans(polaris_vman_shell_t)
corecmd_exec_bin(polaris_vman_shell_t)

# inherits stdin from telnetd
telnet_use_ptys(polaris_vman_shell_t)
#allow use of ptys for vman tech support
telnet_use_ptys(polaris_vman_tech_t)

optional_policy(' # reads /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_vman_t)
')
# vman_is_machine_type_initialized clone needs cap_users sys_admin
allow polaris_vman_t self:cap_users sys_admin;

# vman_cgroup_yaml.sh searches for ovf-env.xml on cdrom0
fs_read_removable_files(polaris_vman_t)

# vman starts vman_init.sh that in turns calls virsh
gen_require(
    type virsh_t;
    type virsh_exec_t;
')
domtrans_pattern(polaris_vman_t, virsh_exec_t, virsh_t)

polaris_bexecute_domtrans(polaris_vman_t)
polaris_send_signal_to_bexecute(polaris_vman_t)

gen_require(
    type polaris_chvrf_t;
')
# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_chvrf_t)

# vman calls code_sign_verify VmanPackage
polaris_code_verify_domtrans(polaris_vman_t)

# vm_net_dev_utilization reads /proc/2962/net/dev
kernel_read_network_state(polaris_vman_t)

polaris_iosd_vcpu_read(polaris_vman_t)

#/usr/binos/conf/cgroup_reports.sh
polaris_utility_domain_template(cgroup_reports)

polaris_bexecute_domain(polaris_cgroup_reports_t, polaris_cgroup_reports_exec_t)
polaris_bexecute_domtrans(polaris_cgroup_reports_t)
# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_cgroup_reports_t)

corecmd_exec_bin(polaris_cgroup_reports_t)
auth_use_nsswitch(polaris_cgroup_reports_t)

fs_read_cgroup_files(polaris_cgroup_reports_t)
fs_list_cgroup_dirs(polaris_cgroup_reports_t)

# cgroup_reports.sh creates misc files under /tmp
type polaris_cgroup_reports_tmp_t;
files_type(polaris_cgroup_reports_tmp_t)
files_tmp_filetrans(polaris_cgroup_reports_t, polaris_cgroup_reports_tmp_t, file)
manage_files_pattern(polaris_cgroup_reports_t, polaris_cgroup_reports_tmp_t, polaris_cgroup_reports_tmp_t)
fs_getattr_tmpfs(polaris_cgroup_reports_t)

# /usr/binos/conf/vmanTechsupport.sh
polaris_utility_domain_template(vman_tech)

polaris_bexecute_domain(polaris_vman_tech_t, polaris_vman_tech_exec_t)
polaris_bexecute_domtrans(polaris_vman_tech_t)
# inherited as stdin/stdout from vman
polaris_vman_use_fifo(polaris_vman_tech_t)

# vman_techsupport.sh starts virsh -c qemu:///system list --all
gen_require(''
y  type virsh_t;
y  type virsh_exec_t;
')
domtrans_pattern(polaris_vman_tech_t, virsh_exec_t, virsh_t)

# starts ip link show
sysnet_domtrans_ifconfig(polaris_vman_tech_t)

# starts brctl show
brctl_domtrans(polaris_vman_tech_t)

corecmd_exec_bin(polaris_vman_tech_t)
auth_use_nsswitch(polaris_vman_tech_t)

polaris_proc_rmonbifo_read(polaris_vman_tech_t)
polaris_chasfs_read(polaris_vman_tech_t)
polaris_cpld_read(polaris_vman_tech_t)

# starts ps aux
kernel_read_system_state(polaris_vman_tech_t)
domain_read_all_domains_state(polaris_vman_tech_t)
dev_read_sysfs(polaris_vman_tech_t)
# getattr of stdin/stdout of misc processes
term_getattr_unallocated_ttys(polaris_vman_tech_t)
term_read_console(polaris_vman_tech_t)

# reads /bootflash/virtual-instance/
polaris_disk_vman_read(polaris_vman_tech_t)

# find /etc/libvirt/lxc -name *.xml -print
virt_read_config(polaris_vman_tech_t)
# no interface that lists virt_etc_rw_t dir
gen_require(''
y  type virt_etc_rw_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_etc_rw_t, virt_etc_rw_t)

# find /var/run/libvirt -name *.xml -maxdepth 2 -print
virt_read_pid_files(polaris_vman_tech_t)
# no interface that lists virt_var_run_t dir
gen_require('  type virt_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_var_run_t, virt_var_run_t)
# no interface that lists virt_lxc_var_run_t dir
gen_require('  type virt_lxc_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_lxc_var_run_t, virt_lxc_var_run_t)
# no interface that lists qemu_var_run_t dir
gen_require('  type qemu_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)
# allow read of /run/libvirt/qemu
read_files_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)

# by some strange reason /var/run/libvirt/network is under dnsmasq_var_run_t label
dnsmasq_read_pid_files(polaris_vman_tech_t)
# no interface that lists dnsmasq_var_run_t dir
gen_require('  type dnsmasq_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, dnsmasq_var_run_t, dnsmasq_var_run_t)

polaris_vman_var_read(polaris_vman_tech_t)

# cat /proc/net/dev
kernel_read_network_state(polaris_vman_tech_t)

# find /sys/class/net -name intsvc* -type d -print
dev_list_sysfs(polaris_vman_tech_t)

# grep over /varied/ovf-env.xml
polaris_disk_varied_read(polaris_vman_tech_t)

# writes into /tmp/vman_techsupport
polaris_vman_tmp_manage(polaris_vman_tech_t)

# find over /sys/fs/cgroup/memory/machine
fs_list_cgroup_dirs(polaris_vman_tech_t)
# cat /sys/fs/cgroup/memory/machine/memory.limit_in_bytes
fs_read_cgroup_files(polaris_vman_tech_t)

# runs df command
fs_getattr_xattr_fs(polaris_vman_tech_t)
fs_getattr_all_fs(polaris_vman_tech_t)
files_getattr_all_dirs(polaris_vman_tech_t)
# getattr over /run/netns/2
fs_read_nsfs_files(polaris_vman_tech_t)

# check existence of vman btrace file before passing it to btdecode
polaris_vman_bt_getattr(polaris_vman_tech_t)
# check existence of pman btrace file for vman before passing it to btdecode
polaris_pman_bt_getattr(polaris_vman_tech_t)

# vman_techsupport.sh creates misc files under /tmp
type polaris_vman_tech_tmp_t;
files_type(polaris_vman_tech_tmp_t)
files_tmp_filetrans(polaris_vman_tech_t, polaris_vman_tech_tmp_t, file)
manage_files_pattern(polaris_vman_tech_t, polaris_vman_tech_tmp_t, file)

# allow vman tech support to read container logs including listing dirs
gen_require(''
    type virt_log_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_log_t, virt_log_t)
virt_read_log(polaris_vman_tech_t)

# allow vman to access /etc/passwd
auth_map_passwd(polaris_vman_shell_t)

# vman does lvm storage management e.g. vman_libvirt_strg_available_by_pool
lvm_domtrans(polaris_vman_t)

# Allow read of pid files e.g. /run/udev/data/b7:34
udev_read_pid_files(polaris_vman_t)

# allow vman to connect to the WAAS container for serial vman_register_socket
polaris_waas_stream_connect(polaris_vman_t)

# allow vman to pgrep
# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_vman_t)

# allow vman to kill LXC container process that hasn't shutdown
# inspite of a shutdown command
gen_require(''
    type virtd_lxc_t;
')
polaris_vman_kill_process(virtd_lxc_t)

# allow vman to rsync using ioxman_syslib.sh
rsync_entry_type(polaris_vman_t)
corenet_tcp_connect_rsync_port(polaris_vman_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.te
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#
# March 2017, Victor Kamensky
#
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#

/tmp/.ncsshdAuthorizedKeys(/.*)? gen_context(system_u:object_r:polaris_ncsshd_keys_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.fc
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## <summary>Polaris Btrace Policy Rules.</summary>

# Obfl policy

# Read obfl files (under /obfl, /varied/obfl, etc)

## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_obfl_data_read',
  gen_require(
    type polaris_obfl_data_t;
    type root_t;
  ')
)

read_lnk_files_pattern($1, root_t, polaris_obfl_data_t)
read_files_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
  list_dirs_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
  allow $1 polaris_obfl_data_t:file map;
')

##########################################
## <summary>
##      Manage obfl files (under /obfl, /varied/obfl, etc
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
###<rolebase/>
#
interface('polaris_obfl_data_manage',
  gen_require(
    type polaris_obfl_data_t;
    type root_t;
    type var_t;
  ')
)

read_lnk_files_pattern($1, root_t, polaris_obfl_data_t)
manage_files_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
manage_dirs_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
  allow $1 polaris_obfl_data_t:file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.if
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#
## <summary>Polaris Btrace Policy Rules.</summary>
### RIPC policy

#### Summary

Work with ripc

#### <param name="domain">

Domain allowed access.

#### <rolebase/>

```plaintext
interface('polaris_ripc',
    corenet_tcp_bind_generic_node($1)
    allow $1 self:tcp_socket { getattr setopt getopt bind create listen accept connect read write }; # bipc would like to issue "setsockopt(sock, SOL_SOCKET, SO_VRF," , which requires # net_admin and sys_admin capabilities
    allow $1 self:capability { net_admin sys_admin };

    polaris_socketat_nsfs_read($1)
)
```

Found in path(s):

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisripc.if

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###

# March 2017, Victor Kamensky

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```
/tmp/sw/boot(/.*)? gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/sw/isos(/.*)? gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/bootup_timestamp gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
```

Found in path(s):

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.fc

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###

# December 2019, Victor Kamensky

#
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#

# polarisservicemgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisservicemgr.fc
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#

### <summary>Polaris polarisboothelper Policy Rules.</summary>

#########################################################################
### <summary>
### Read any regular file/directory from /tmp/udev.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_udev_tmp_read`,
    gen_require(`
        type polaris_udev_tmp_files_t;
    `)
    read_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
    list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
`)

#########################################################################
### <summary>
### Manage any regular file/directory from /tmp/udev.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_udev_tmp_manage`,
    gen_require(`
        type polaris_udev_tmp_files_t;
    `)
   
gen_require(`
    type polaris_udev_tmp_files_t;
`)
manage_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
manage_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
`)


#######################################
## <summary>
##      Listdir of any regular directory from /tmp/udev.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface(`polaris_udev_tmp_list_dirs',`
    gen_require(`
        type polaris_udev_tmp_files_t;
    `)
    list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
`)

#######################################
## <summary>
##      Watch udev_tmp_files directories and files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
# interface(`polaris_udev_tmp_watch',`
    gen_require(`
        type polaris_udev_tmp_files_t;
    `)
    allow $1 polaris_udev_tmp_files_t:{dir file} watch;
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.if
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#
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#

/usr/cpp/bin/cpp_driver -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_us_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwlc -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.fc

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#
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#
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#

/usr/binos/conf/mcp_monitor_process_batchmode.sh --
    gen_context(system_u:object_r:polaris_monitor_process_exec_t,s0)
/usr/binos/conf/pkg_summary.sh -- gen_context(system_u:object_r:polaris_pkg_summary_exec_t,s0)
/usr/binos/conf/pkg_to_tree.sh -- gen_context(system_u:object_r:polaris_pkg_to_tree_exec_t,s0)
/tmp/myhostname gen_context(system_u:object_r:polaris_hm_tmp_t,s0)
/tmp/show_provision_temp(/.*)? gen_context(system_u:object_r:polaris_show_provision_tmp_t,s0)
/tmp/fs_lock_bootflash gen_context(system_u:object_r:polaris_cli_fs_cmds_tmp_t,s0)
# used by "sh pla so filesystem bootflash: dc" CLI
/usr/binos/conf/mcp_cli_fs_cmds.sh -- gen_context(system_u:object_r:polaris_cli_fs_cmds_exec_t,s0)
# used by "show platform software yang-management process monitor" CLI
/usr/binos/conf/mcp_monitor_dmi_proc.sh --
    gen_context(system_u:object_r:polaris_monitor_dmi_process_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.fc

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#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris odm Policy Rules.</summary>
## <summary>
## Mqipc channel in sub directory and multiple servers on TDL
## channel is not supported by autogen code. ODM odm_clnt2svr_data
## channel is one of those. Allow domain to be one server on it.
## ODM elastic value is 2 now, add more if need in the future.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

```cpp
interface('polaris_odm_clnt2svr_mqipc_create',
gen_require(
    type polaris_odm_client2server_data_mqipc_t;
')
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b1)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b0)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.if

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#

## <summary>Polaris install_mgr Policy Rules.</summary>

# # Read /tmp/sw/inst_tmp_1 files and directories
# </summary>
## <param name="domain">
## Domain allowed access.
interface(`polaris_install_mgr_tmp_read',
    type polaris_install_mgr_tmp_t;
')
    list_dirs_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
    read_files_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
    read_lnk_files_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
')

######################################
## <summary>
##      Read/Write /.installer files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_install_disk_manage',
          type polaris_disk_bootflash_t;
          type polaris_disk_install_t;
')
    filetrans_pattern(polaris_install_mgr_t, polaris_disk_bootflash_t, polaris_disk_install_t, dir, ".installer")
    filetrans_pattern(polaris_install_mgr_t, polaris_disk_bootflash_t, polaris_disk_install_t, fifo_file, "inot_fifo")
    manage_dirs_pattern($1, {polaris_disk_bootflash_t polaris_disk_install_t}, polaris_disk_install_t)
    manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    manage_fifo_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
')

######################################
## <summary>
##      Read /bootflash/.installer files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_install_disk_read',
          type polaris_disk_install_t;
read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)

read_blk_files_pattern($1, device_t, polaris_user_file_t)
read_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
read_lnk_files_pattern($1, polaris_user_file_t, polaris_user_file_t)

getattr_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
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#

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.if
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl Crankshaft (Overlord, Utah, Goldbeach, Neptune, TSN and Supernova) Platform Max Bay Limits
max_bay_map_set(`rp`, `per_bay`, 0)
max_bay_map_set(`cc`, `per_bay`, 19)
max_bay_map_set(`fp`, `per_bay`, 0)

max_bay_ripc_map_set(`rp`, `per_bay`, 0)
max_bay_ripc_map_set(`cc`, `per_bay`, 19)
max_bay_ripc_map_set(`fp`, `per_bay`, 0)

max_bay_ripc_map_set(`rp`, `global`, 0)
max_bay_ripc_map_set(`cc`, `global`, 19)
max_bay_ripc_map_set(`fp`, `global`, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/crankshaftmaps.m4
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#
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#
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#

/usr/bin/vconfd_script_reboot\.sh -- gen_context(system_u:object_r:polaris_vconfd_reboot_exec_t,s0)
/usr/bin/vconfd_script_if_reset\.sh -- gen_context(system_u:object_r:polaris_vconfd_ifreset_exec_t,s0)
/usr/bin/vconfd_script_get_config\.sh -- gen_context(system_u:object_r:polaris_vconfd_cfg_exec_t,s0)
/usr/bin/vconfd_script_vmanage_list_stats.sh --
gen_context(system_u:object_r:polaris_vconfd_history_exec_t,s0)

/usr/bin/vconfd_script_vmanage_clear_stats.sh --
gen_context(system_u:object_r:polaris_vconfd_history_exec_t,s0)

/usr/bin/vconfd_script_activate.sh --
gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)

/usr/bin/mcp_upgrade_wrapper.sh --
gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)

/usr/bin/vconfd_script_nms_action.sh --
gen_context(system_u:object_r:polaris_vconfd_nms_exec_t,s0)

/usr/bin/vconfd_script_add_chassis_numbers_to_ztp.sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)

/usr/bin/vconfd_script_remove_chassis_numbers_from_ztp.sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)

/usr/bin/vconfd_script_upload_chassis_number_file.sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)

/usr/bin/reset-conf --
gen_context(system_u:object_r:polaris_vconfd_reset_exec_t,s0)

/usr/bin/reset-logs --
gen_context(system_u:object_r:polaris_vconfd_reset_exec_t,s0)

/usr/bin/patch.sh --
gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)

/usr/bin/vconfd_script_reset_vsmart_serial_list.sh --
gen_context(system_u:object_r:polaris_vconfd_reset_exec_t,s0)

/usr/bin/vconfd_script_cert.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)

/usr/bin/vconfd_script_show_cert.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)

/usr/bin/vconfd_script_show_root_ca_cert.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)

/usr/bin/vconfd_script_upload_root_ca_crt_chain.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)

/usr/bin/vconfd_script_uninstall_root_ca_crt_chain.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)

/usr/bin/vconfd_script_tlsproxy_install_certs.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)

/usr/bin/vconfd_script_tlsproxy_remove_certs.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)

/usr/bin/vconfd_script_csr.sh --
gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)

/usr/bin/vconfd_script_show_csr.sh --
gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)

/usr/bin/vconfd_script_sign_csr.sh --
gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)

/usr/bin/vconfd_script_upload_vsmart_serial_numbers.sh --
gen_context(system_u:object_r:polaris_vconfd_serialnum_exec_t,s0)

/usr/bin/vconfd_script_upload_vedge_serial_numbers.sh --
gen_context(system_u:object_r:polaris_vconfd_serialnum_exec_t,s0)

/usr/bin/vconfd_script_fetch_core_info.sh --
gen_context(system_u:object_r:polaris_vconfd_crash_exec_t,s0)

# admin-tech scripts skipped defined in some other place

/usr/bin/list_crashtech_files.sh --
gen_context(system_u:object_r:polaris_vconfd_crash_exec_t,s0)

/usr/bin/vconfd_script_unlock_user.sh --
gen_context(system_u:object_r:polaris_vconfd_aaa_exec_t,s0)

/usr/bin/vconfd_script_set_password.sh --
gen_context(system_u:object_r:polaris_vconfd_aaa_exec_t,s0)

/usr/bin/vconfd_script_container.sh --
gen_context(system_u:object_r:polaris_vconfd_contr_exec_t,s0)

/usr/bin/polaris_iox_precheck.sh --
gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)

/usr/bin/polaris_iox_install.sh --
gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)

/usr/bin/polaris_iox_upgrade.sh --
gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
policy_module(polaristdlresolve, 1.0);

# TDLresolve policy

gen_require('attribute polaris_extended_domain;
')

type polaris_tdlresolve_t:
files_type(polaris_tdlresolve_t)

files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve")
# tdl_boottime.sh uses /tmp/tdlresolve_tmp for some temp files
# which are moved into /tmp/tdlresolve latter
files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve_tmp")

type polaris_global_service_t:
files_type(polaris_global_service_t);

# rsync policy

gen_require('type rsync_t;
type polaris_btrace_base_t;

) 
#tdl_cleanup_epochs.sh uses btrace
allow rsync_t polaris_btrace_base_t:file map;
#rsync invokes tdl_cleanup_epochs.sh as part of this set /proc/[pid]/oom_score_adj is done
allow rsync_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.te
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#
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#
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#

policy_module(polarisqfp, 1.0);

polaris_process_domain_template(qfp)

polaris_cpp_process(polaris_qfp_t)
polaris_cpp_dev_use(polaris_qfp_t)
polaris_btrace_data_manage(polaris_qfp_t)
polaris_crft_data_manage(polaris_qfp_t)
polaris_chasfs_manage(polaris_qfp_t)
polaris_lsmpi_dev_use(polaris_qfp_t)
polaris_persistent_list_dirs(polaris_qfp_t);

# allow for hot add on azure
kernel_read_irq_sysctls(polaris_iiodbd_t)
kernell_rw_irq_sysctls(polaris_iiodbd_t)

# allow read variety of system information from sysfs, as well as write
# into configuration of some pcie devices
# type=AVC msg=audit(1479597040.739:218): avc: denied { write } for pid=30997 comm="ucode_ctl_rx"
name="config" dev="sysfs" ino=22363 scontext=system_u:system_r:polaris_qfp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_qfp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_qfp_t)

# allow access to uio devices like /dev/uio0
dev_rw_userio_dev(polaris_qfp_t)

# Platforms with QAT v1.7 need map permission also
# qae device (/dev/icp_adf_ctl)
type polaris_icp_device_t;
dev_node(polaris_icp_device_t)

allow polaris_qfp_t userio_device_t:chr_file map;

# allow to read /proc/meminfo
kernel_read_system_state(polaris_qfp_t)

# qfp FIA (Feature Invocation Array) resides in /dev/shm/cpp_ucode_dram
# Those are set of instructions assembled by cpp control plane and passed
# to qfp to execute.
polaris_cpp_tmpfs_exec(polaris_qfp_t)

# qfp /var/run pid file
type polaris_qfp_var_run_t;
files_pid_file(polaris_qfp_var_run_t)
manage_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
manage_dirs_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
files_pid_filetrans(polaris_qfp_t, polaris_qfp_var_run_t, { file dir })
# mmap /var/run/dpdk/rte/config
allow polaris_qfp_t polaris_qfp_var_run_t:file map;

# qfp memif directory and file
type polaris_qfp_memif_t;
files_tmp_file(polaris_qfp_memif_t);
# qfp memif interface for binos clients in /tmp/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "memif")
# creates /tmp/binos-IOX/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "binos-IOX")
polaris_qfp_memif_manage(polaris_qfp_t)
# qfp memif interface for container in /bootflash/SHARED-IOX/memif
polaris_disk_type(polaris_qfp_memif_t)
gen_require(`
    type polaris_disk_bootflash_t;
    `)
filetrans_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_qfp_memif_t, dir, "memif")

# work with /bootflash/SHARED-IOX/memif/memif-dp-svr
polaris_utdl_container_dgram_send(polaris_qfp_t)

# work (create/open/read/write) with hugetlbs files
fs_manage_hugetlbfs_dirs(polaris_qfp_t)
fs_rw_hugetlbfs_files(polaris_qfp_t)
gen_require(`
    type hugetlbfs_t;
    `)
allow polaris_qfp_t hugetlbfs_t:file create;
# dpdk may unlinks unneeded pages in unmap_unneeded_hugepages function
allow polaris_qfp_t hugetlbfs_t:file unlink;

allow polaris_qfp_t self:capability { sys_rawio sys_nice sys_admin };
allow polaris_qfp_t self:process setsched;

# is_nic_netmap_capable function, which is used by vnic_cfg_port, needs socket to
# work with interface parameters
allow polaris_qfp_t self:udp_socket create_socket_perms;

ifdef(`crankshaft_family',`
polaris_icc_broken_relocations(polaris_qfp_t)
')

# access to /dev/dash_xxx devices on cranshaft platforms
optional_policy(`
    polaris_dash_dev_use(polaris_qfp_t)
')

# netmap device (/dev/netmap)
type polaris_netmap_dev_use(polaris_qfp_t)
dev_node(polaris_netmap_dev_use(polaris_qfp_t))

polaris_netmap_dev_use(polaris_qfp_t)

# access to /dev/icp_XXX device on crankshaft platforms
optional_policy(`
    polaris_icp_dev_use(polaris_qfp_t)
')

# netmap device (/dev/svc_eng_puntNN)
type polaris_sep_device_t;
dev_node(polaris_sep_device_t)

polaris_svc_eng_punt_dev_use(polaris_qfp_t)

# transition and access to /var/log/cdal-tsn-info.log
ifdef(`tsn_platform',`
polaris_qfp_log_manage("cdal-tsn-info.log")
')

# transition and access to /var/log/cdal-tsn-info.log
ifdef(`blackheart_platform',`
polaris_qfp_log_manage("cdal-tsn-info.log")
')

# adventus needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef('aventus_platform',
    gen_require('type syslogd_t;
    ')
polaris_qfp_log_manage("cdal-tsn-info.log")
polaris_ggpio_dev_read_write(polaris_qfp_t)
polaris_ggpio_dev_read_write(syslogd_t)
')

ifdef('cabo_platform',
polaris_qfp_log_manage("cdal-tsn-info.log")
')

ifdef('supernova_platform',
polaris_qfp_log_manage("cdal-tsn-info.log")
')

# LOOK AT ME: qfp process links libcrypto.so.1.0.0 which has DT_TEXTREL
# that should be addressed by CSCvj99896, once that is fixed remove below
# under CSCvj99905.
gen_require('type lib_t;
')

allow polaris_qfp_t lib_t:file execmod;

# LOOK AT ME: qfp process on TSN LE has executable stack with GNU_STACK marked RWE
# that should be addressed by CSCvk66808, once that is fixed remove below
# under CSCvk66832.
ifdef('tsn_platform',
    allow polaris_qfp_t self:process execmem;
')

# lsmpi replacement punt/inject over domain sockets
polaris_pi_uds_manage(polaris_qfp_t)
polaris_iosd_dgram_send(polaris_qfp_t)

# dpdk code reads CPU model specific register (MSR)
dev_read_cpuid(polaris_qfp_t)

# dpdk code in rte_mp_channel_init function creates and works
# with /var/run/dpdk/rte/mp_socket socket
manage_sock_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# dpdk code in dev_uev_socket_fd_create creates and work with
# netlink_kobject_uevent_socket socket
# Note: radium with QAT v1.7 requires getattrib and setopt
allow polaris_qfp_t self:netlink_kobject_uevent_socket { getattrib setopt bind create };

# hal_random32_init calls hw_random32_init and it opens /dev/random
dev_read_rand(polaris_qfp_t)

gen_require(`
  type sysfs_t;
')
mmap_files_pattern(polaris_qfp_t, sysfs_t, sysfs_t)

# LOOK AT ME: remove after CSCvs34007 fixed
# qfp runs hidendir hide /bootflash/SHARED-IOX/memif
corecmd_exec_bin(polaris_qfp_t)
corecmd_exec_shell(polaris_qfp_t)
auth_use_nsswitch(polaris_qfp_t)

# CSR & C8KV use infiniband and tun/tap devices for Azure
type polaris_infiniband_device_t;
dev_node(polaris_infiniband_device_t)

polaris_infiniband_dev_use(polaris_qfp_t)

kernel_request_load_module(polaris_qfp_t)
allow polaris_qfp_t self:netlink_rdma_socket { bind create setopt };
allow polaris_qfp_t self:capability { ipc_lock net_admin net_raw };
allow polaris_qfp_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_qfp_t self:tun_socket { create relabelfrom relabelto };
corenet_rw_tun_tap_dev(polaris_qfp_t)

# CSR Azure IO model requies read access
gen_require(`
  type proc_net_t;
')
allow polaris_qfp_t proc_net_t:file { read };

# manange MLX NIC socket files in /var/tmp/net_ml5x5*
type polaris_qfp_var_tmp_t;
files_tmp_file(polaris_qfp_var_tmp_t);
files_tmp_filetrans(polaris_qfp_var_tmp_t, polaris_qfp_var_tmp_t, { sock_file })
manage_sock_files_pattern(polaris_qfp_t, polaris_qfp_var_tmp_t, polaris_qfp_var_tmp_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_xattr_fs(polaris_qfp_t)

# allow create of dir /bootflash/SHARED-IOX on first install of VM
create_dirs_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t)

polaris_cpld_read(polaris_qfp_t, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)

# tsn needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`tsn_platform',`
    polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# blackheart needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`blackheart_platform',`
    polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# sparrow needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# Also needs access to cdal-tns-info.log
ifdef(`sparrow_platform',`
    polaris_qfp_log_manage("cdal-tns-info.log")
    polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# ucode also needs access to ttyUSB4
ifdef(`cabo_platform',`
    term_use_usb_ttys(polaris_qfp_t)
')

# qfp starts /usr/binos/bin/net_hotremove-vxe.sh
init_read_script_files(polaris_qfp_t)

# access to /dev/dash_XXX devices on cranshaft platforms
optional_policy(`
    polaris_htx_dgram_send(polaris_qfp_t)
')

# net_hotremove-vxe.sh that works with /tmp/iodb
polaris_iodb_tmp_manage(polaris_qfp_t)
# net_hotremove-vxe.sh sends signal to iodbd.sh
gen_require(`
    type polaris_iodbd_t;
')
allow polaris_qfp_t polaris_iodbd_t:process signal;
# net_hotremove-vxe.sh reads /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_qfp_t)
# long running helper script iodbd.sh
polaris_process_domain_template(iodbd)

# iodbd.sh started by /etc/init.d/binos that runs under initrc_t
gen_require('type initrc_t;')
polaris_iodbd_dommtrans(initrc_t)

polaris_boot_tmp_read(polaris_iodbd_t)
polaris_chasfs_manage(polaris_iodbd_t)
polaris_cpld_read(polaris_iodbd_t)
polaris_rmonbifo_tmp_read(polaris_iodbd_t)

auth_use_nsswitch(polaris_iodbd_t)
corecmd_exec_bin(polaris_iodbd_t)

# hot add interfaces virtio/sriov
dev_manage_sysfs_dirs(polaris_iodbd_t)
polaris_sysfs_manage(polaris_iodbd_t)

# write into sysfs file like /sys/devices/pci0000:00/0000:00:03.2/config
dev_rw_sysfs(polaris_iodbd_t)

# read/write /run/dpdk/rte/config
manage_files_pattern(polaris_iodbd_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# lspci reads /etc/modprobe.d
modutils_read_module_config(polaris_iodbd_t)
# lspci reads /lib/modules/5.4.40/modules.softdep
files_read_kernel_modules(polaris_iodbd_t)
files_map_kernel_modules(polaris_iodbd_t)

# runs dmidecode
dmidecode_dommtrans(polaris_iodbd_t)
# dmidecode when run in this context needs access initrc stdin/stdout
gen_require('type dmidecode_t;')
initt_rw_stream_sockets(dmidecode_t)

# calls ethtool -i intsvc0
sysnet_dommtrans_ifconfig(polaris_iodbd_t)

# reads /etc/rc.d/init.d/binos_functions-pd-iodb
init_read_script_files(polaris_iodbd_t)

# read /proc/sys/vm/hr_hugepages
kernel_read_vm_sysctls(polaris_iodbd_t)

# cat /sys/class/net/intsvc0/address
dev_read_sysfs(polaris_iodbd_t)

# read /proc/cmdline
kernel_read_system_state(polaris_iodbd_t)

polaris_iodb_tmp_manage(polaris_iodbd_t)

type polaris_iodb_tmp_t;
files_tmp_file(polaris_iodb_tmp_t)

# /tmp/iodb is created by /etc/init.d/binos that runs under initrc_t
gen_require(
    type initrc_t;
)
files_tmp_filetrans(initrc_t, polaris_iodb_tmp_t, dir, "iodb")
polaris_iodb_tmp_manage(initrc_t)

# udev_t can drop entries into /tmp/iodb to process
gen_require(
    type udev_t;
)
polaris_iodb_tmp_manage(udev_t)

# Radium and Thallium need to check rommon version when initializing static
# interface table (access /proc/rmonbifo).
optional_policy(
    polaris_proc_rmonbifo_read(polaris_qfp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris cpp_ha Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.if
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#  
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#  

policy_module(polarisngwctblmgr, 1.0);

    gen_require('  
        type polaris_ngwc_tbl_mgr_t;
    ')

polaris_btrace_data_manage(polaris_ngwc_tbl_mgr_t)  
polaris_crft_data_manage(polaris_ngwc_tbl_mgr_t)  
polaris_chasfs_manage(polaris_ngwc_tbl_mgr_t)  
polaris_tdlresolve_read(polaris_ngwc_tbl_mgr_t)  
polaris_tdl db_list_dirs(polaris_ngwc_tbl_mgr_t)  
polaris_cpld_read(polaris_ngwc_tbl_mgr_t)  
polaris_lua_read(polaris_ngwc_tbl_mgr_t)  
polaris_flashlib_read(polaris_ngwc_tbl_mgr_t)

polaris_ripc_sman_u i_serv_connect(polaris_ngwc_tbl_mgr_t)

allow polaris_ngwc tbl_mgr_t self:capability dac_override;

polaris_dyn cfg_tmp_read(polaris_ngwc tbl_mgr_t)

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmgr.te
No license file was found, but licenses were detected in source scan.

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#  

# polarisfmanrp file contexts place holder

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.fc
No license file was found, but licenses were detected in source scan.

dnl
define(`polaris_ripc_service_server_aux', `polaris_ripc_$2_bind($3)
polaris_ripc($3)
')
define(`polaris_ripc_service_server_full', `polaris_ripc_service_server_aux(ripc_label($1), ripc_stem($1), process_label($2))
')
define(`polaris_ripc_service_server', `ifelse(ripc_type_map($1), `', `polaris_ripc_service_server_full($1, $2, $3, $4, $5))
ripc_type_map_set(ripc_label($1), process_label($2))
')
define(`polaris_ripc_service_client_aux', `polaris_ripc($3)
polaris_ripc_$2_connect($3)
')
define(`polaris_ripc_service_client', `polaris_ripc_service_client_aux(ripc_label($1), ripc_stem($1), process_label($2))
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_te.m4
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#
/usr/bin/os/conf/audit_log.sh -- gen_context(system_u:object_r:polaris_audit_log_exec_t,s0)
/usr/bin/os/conf/audit_snapshot.sh -- gen_context(system_u:object_r:polaris_audit_log_exec_t,s0)
/tmp/package_biv_sums -- gen_context(system_u:object_r:polaris_kgv_data_t,s0)
/usr/bin/code_sign_verify -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)
/usr/sbin/boot_verify_package -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)
/usr/sbin/kgv_update -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)

/dev/shm/sem\updatepcr8d_msg_sem gen_context(system_u:object_r:polaris_code_verify_tmpfs_t,s0)
# /dev/aikido
/dev/aikido -c gen_context(system_u:object_r:polaris_aikido_device_t,s0)

/usr/binos/conf/mcp_upgrade_hwprg.sh   gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_fpga.sh  gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_cpld.sh    gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_cmds.sh   gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_utils.sh    gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/bin/tam_fw_upgrade                 gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon.sh       gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon_cmds.sh   gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon_helper.sh  gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon_x86.sh    gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/dev/scansta                                  -c gen_context(system_u:object_r:polaris_scansta_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.fc
No license file was found, but licenses were detected in source scan.

#
# June 2020, Cuiyan Ma
#
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#

policy_module(polarisissucompcheck, 1.0);
polaris_process_domain_template(issu_comp_check)

corecmd_exec_bin(polaris_issu_comp_check_t)
corecmd_exec_shell(polaris_issu_comp_check_t)
polaris_chasfs_manage(polaris_issu_comp_check_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_issu_comp_check_t)

# For reading tracekey from /tmp/tmppub/tracekey_cache/usr/bin/rotee
polaris_btrace_tmppub_read(polaris_issu_comp_check_t)

# For reading /sys/devices/platform/cpld/platform_type
polaris_cpld_read(polaris_issu_comp_check_t)

# For reading /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_issu_comp_check_t)
# For ls on /tmp/ufs/crashinfo
optional_policy(
   polaris_ncd_tmp_read(polaris_issu_comp_check_t)
)

# work with /tmp files
type polaris_issu_comp_check_tmp_t;
files_tmp_file(polaris_issu_comp_check_tmp_t)
manage_dirs_pattern(polaris_issu_comp_check_t, tmp_t, polaris_issu_comp_check_tmp_t)
manage_files_pattern(polaris_issu_comp_check_t, polaris_issu_comp_check_tmp_t,
polaris_issu_comp_check_tmp_t)
files_tmp_filetrans(polaris_issu_comp_check_t, polaris_issu_comp_check_tmp_t, { file dir })

# For using push_using_rsync
polaris_chvrf_domtrans(polaris_issu_comp_check_t)

gen_require(
   type rsync_t;
   )
rsync_entry_domtrans(polaris_issu_comp_check_t, rsync_t)
polaris_manage_rsync_tmplog_dir(polaris_issu_comp_check_t)

# rsync inherits issu_comp_check.sh's stdout/stderr fifo files
allow rsync_t polaris_issu_comp_check_t:fifo_file write;

allow polaris_issu_comp_check_t self:capability sys_resource;

# reads /tmp/remote_sw_verinfo.txt
gen_require(
   type rsync_TMP_t;
   )
read_files_pattern(polaris_issu_comp_check_t, rsync_TMP_t, rsync_TMP_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_comp_check_t)

# hwutil modifies /sys/bus/i2c/drivers/pca9548/1-0076/reg_control
# TODO: label sysfs so that reg control gets its own label
dev_rw_sysfs(polaris_issu_comp_check_t)

# allow locking of /tmp/sysctrl_i2c.lck
# TODO: this file probably deserves its own label when created by cm_rp
polaris_cm_rp_tmp_manage(polaris_issu_comp_check_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissucompcheck.te
No license file was found, but licenses were detected in source scan.
## <summary>Polaris dmi_opdatamgrd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiopdatamgrd.if
No license file was found, but licenses were detected in source scan.

```c
policy_module(polarispttcd, 1.0);

generated_require(
    "type polaris_pttcd_t;
"
)

polaris_btrace_data_manage(polaris_pttcd_t)
polaris_crft_data_manage(polaris_pttcd_t)
polaris_chasfs_manage(polaris_pttcd_t)
polaris_tdlresolve_read(polaris_pttcd_t)
polaris_tdldb_list_dirs(polaris_pttcd_t)
polaris_lua_read(polaris_pttcd_t)
polaris_flashlib_read(polaris_pttcd_t)

auth_use_nsswitch(polaris_pttcd_t)
polaris_cpld_read(polaris_pttcd_t)

allow polaris_pttcd_t self:netlink_route_socket r_netlink_socket_perms;

polaris_disk_bootflash_search(polaris_pttcd_t)
polaris_bootflash_manage(polaris_pttcd_t)
polaris_persistent_getattr(polaris_pttcd_t)

type polaris_pttcd_tmp_t;
files_tmp_file(polaris_pttcd_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_pttcd_tmp_t, dir, "interceptor")
generated_require(
    "type polaris_btrace_tmppub_t;
")
```
manage_dirs_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)
manage_files_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)
manage_link_files_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)
allow polaris_pttcd_t self:tcp_socket create_socket_perms;
allow polaris_pttcd_t self:udp_socket create_socket_perms;
corencttcp_bind_generic_node(polaris_pttcd_t)
corencttcp_bind_polaris_pttcd_port(polaris_pttcd_t)
corencttcp_connect_polaris_pttcd_port(polaris_pttcd_t)
corenctudp_sendrecv_polaris_pttcd_port(polaris_pttcd_t)
sysnet-read_config(polaris_pttcd_t)
allow polaris_pttcd_t self:capability sys_resource;

Found in path(s):
*/opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispttcd.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

policy_module(polarisrrmmgr, 1.0);

gen_require(' type polaris_rrm_mgr_t; ')
polaris_btrace_data_manage(polaris_rrm_mgr_t)
polaris_chasfs_manage(polaris_rrm_mgr_t)
polaris_tdlresolve_read(polaris_rrm_mgr_t)
polaris_tdlldb_list_dirs(polaris_rrm_mgr_t)
polaris_cpld_read(polaris_rrm_mgr_t)
polaris_lua_read(polaris_rrm_mgr_t)
polaris_flashlib_read(polaris_rrm_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_rrm_mgr_t)
polaris_db_tdlldb_dir_use(polaris_rrm_mgr_t)

# allow to use setrlimit
allow polaris_rrm_mgr_t self:process setrlimit;
allow polaris_rrm_mgr_t self:capability sys_resource;
allow polaris_rrm_mgr_t self:capability dac_override;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_rrm_mgr_t)
polaris_socketat_nsfs_read(polaris_rrm_mgr_t)

# allow to open udp socket on port 12134
corenets_udp_bind_polaris_rrm_mgr_port(polaris_rrm_mgr_t)
corenets_udp_bind_generic_node(polaris_rrm_mgr_t)
allow polaris_rrm_mgr_t self:udp_socket { create_socket_perms recv_msg send_msg };

corenets_udp_bind_polaris_rrm_clnt_port(polaris_rrm_mgr_t)
polaris_odm_clnt2svr_mqipc_create(polaris_rrm_mgr_t)

# access "/bootflash/.dbpersist"
polaris_tlldbpersit_setup(polaris_rrm_mgr_t)

# access /tmp/rp/tlldb/persistent-config/ dir and files in this dir
polaris_tmp_tlldb_persist_setup(polaris_rrm_mgr_t)

logging_send_syslog_msg(polaris_rrm_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
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#
	policy_module(polariscyan, 1.0);

# dyncfg_setup.sh runs under cmand label

polaris_process_domain_template(dyncfg)

polaris_btrace_data_manage(polaris_dyncfg_t)
polaris_cpld_read(polaris_dyncfg_t)
polaris_lua_read(polaris_dyncfg_t)
polaris_cpld_dev_use(polaris_dyncfg_t)
polaris_rmonbifo_tmp_read(polaris_dyncfg_t)
polaris_chasfs_read(polaris_dyncfg_t)
# this script works with /tmp/dyncfg files

type polaris_dyncfg_tmp_t;
files_tmp_file(polaris_dyncfg_tmp_t)

files_tmp_filetrans(polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t, dir, "cyan")
files_tmp_filetrans(polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t, file)

manage_files_pattern(polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_dirs_pattern(polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_lnk_files_pattern(polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)

corecmd_exec_bin(polaris_dyncfg_t)
corecmd_exec_shell(polaris_dyncfg_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_dyncfg_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_dyncfg_t)

# dyncfg_setup calls luajit and luajit needs execute JIT generated code
allow polaris_dyncfg_t self:process execmem;

# allow objstore access
polaris_disk_objstore_read(polaris_dyncfg_t)

type polaris_dyncfg_log_t;
files_tmp_file(polaris_dyncfg_log_t)

gen_require('attribute polaris_domain;
')

filetrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan.log")
filetrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan_runtime.log")
files_tmp_filetrans(polaris_domain, polaris_dyncfg_log_t, file, "cyan.lock")
manage_files_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t)

polaris_dyncfg_tmp_read(polaris_domain)

# on utah need to get model info
optional_policy('polaris_dash_dev_use(polaris_dyncfg_t)
')

#access to /dev/dash_fpga device on fugazi platform
ifdef("fugazi_platform",
polaris_dash_dev_mcp_use(polaris_dyncfg_t)
)
`)

# allow search and read under /tmp/boot directory
polaris_boot_tmp_read(polaris_dyncfg_t)

logging_send_syslog_msg(polaris_dyncfg_t)

# dyncfg needs access to idprom. Idprom is accessed differently depending on # platform

# on utah idprom is in quack chip: hw_esg_read_midplane_idprom
# on platforms with idprom in quack chip need access to
# quack device as part of hw_esg_read_midplane_idprom call.
ifdef(`crankshaft_family',`
polaris_quack_dev_use(polaris_dyncfg_t)
')
ifdef(`starfleet_platform',`
polaris_quack_dev_use(polaris_dyncfg_t)
')

# on 1ng idprom is i2c device in sysfs like:
# /sys/devices/pci0000:00/0000:00:1f.3/i2c-0/i2c-1/1-0056/eeprom
# on ultra it is still emulated by i2c driver like:
# /sys/devices/i2c-0/i2c-1/1-0056/eeprom
dev_rw_sysfs(polaris_dyncfg_t)

# on nyquist and 1ng idprom value retrieved by flashlib and needs dac_override
allow polaris_dyncfg_t self:capability dac_override;
polaris_flashlib_read(polaris_dyncfg_t)

# LOOK AT ME on quake even rommon var read operation needs write access
# i.e flashutil -c getvar -N MODEL_NUM does open with O_RDWR
ifdef(`quake_platform',`
polaris_flashlib_write(polaris_dyncfg_t)
')

# In chassis_attrs.lua method THIS.WIRELESS checks whether wireless package is installed
# by opening (why open, not stat) wncmgrd binary.
optional_policy(`
gen_require(`
  type polaris_wncmgrd_exec_t;
')
  read_files_pattern(polaris_dyncfg_t, bin_t, polaris_wncmgrd_exec_t)
')

# lua/cyan/vwlc_chassis_attrs.lua needs to read /bootflash/rommon_vars file on vwlc
ifdef(`wlc_family',`
polaris_bootflash_read(polaris_dyncfg_t)
')

# lua/cyan/vwlc_chassis_attrs.lua needs to read /boot/vcpu_template file on vwlc
ifdef(`wlc_family',`
polaris_disk_varied_read(polaris_dyncfg_t)
')

# on macallan passport SUP card idprom is in act2 chip.
# hw_passport_read_midplane_idprom invoked from cyan_init
# reads /dev/act2 device.
ifdef(`ngwc_family',`
polaris_act2_dev_use(polaris_dyncfg_t)
')

ifdef(`passport_platform',`
# open /dev/ttyS0 console in hw_passport_read_midplane_idprom, invoked by
# cyaninit
term_use_unallocated_ttys(polaris_dyncfg_t)
')

# during wlc subpackage install cyan_init.sh called from
# C9800-Wireless_startup_script.sh script and output redirected
# into some install_tmp file
ifdef(`ngwc_family',`
polaris_install_tmp_log_write(polaris_dyncfg_t)
')

# /dev/aikido access
polaris_aikido_dev_use(polaris_dyncfg_t)

gen_require(`
    type rsync_t;
')

rsync_entry_domtrans(polaris_dyncfg_t, rsync_t)
corenét_tcp_connect_rsync_port(polaris_dyncfg_t)

ifdef(`sumatra_platform',`
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
# /dev/mem
polaris_dev_mem_use(polaris_dyncfg_t)
')

# For Cabo, allow for stronger permissions to access env_var
ifdef(`cabo_platform',`
polaris_proc_rmonbifo_read(polaris_dyncfg_t)
')
# For Cabo, also allow access to i2c-0
ifdef(`cabo_platform',`
polaris_i2c_use(polaris_dynefg_t)
')

# /dev/i2c-0 access
ifdef(`petra_platform',`
polaris_i2c_use(polaris_dynefg_t)
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.te
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#
# August 2017, Victor Kamensky
#
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#

policy_module(polarisflashcheck, 1.0);

gen_require(`
    type polaris_flashcheck_t;
')

# allow read of /etc/passwd
auth_use_nsswitch(polaris_flashcheck_t)
corecmd_exec_bin(polaris_flashcheck_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_flashcheck_t)

# uses pidof
domain_read_all_domains_state(polaris_flashcheck_t)
dev_read_sysfs(polaris_flashcheck_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_flashcheck_t)
polaris_btrace_data_manage(polaris_flashcheck_t)
polaris_chasfs_manage(polaris_flashcheck_t)
polaris_cpld_read(polaris_flashcheck_t)
polaris_read_debug_conf(polaris_flashcheck_t)
polaris_boot_tmp_read(polaris_flashcheck_t)

logging_send_syslog_msg(polaris_flashcheck_t)

# directly output to /dev/ttyS0
term_use_unallocated_ttys(polaris_flashcheck_t)

polaris_bootflash_read(polaris_flashcheck_t)

allow polaris_flashcheck_t self:capability { sys_resource dac_override };

# pidof needs below
allow polaris_flashcheck_t self:capability sys_ptrace;

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_flashcheck_t)

# access of crashinfo dir for flash_check.sh, it does source of pglobals.sh
# which needs acces to /crashinfo
polaris_disk_crashinfo_getattr(polaris_flashcheck_t)

# this is for NFS access mounted in a dir of ncd context
optional_policy(
   polaris_ncd_tmp_read(polaris_flashcheck_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.te

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#
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#

### <summary>Polaris caf Policy Rules.</summary>

### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
# interface('polaris_iox_files_read',
    gen_require(
        type polaris_iox_files_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type polaris_iox_shared_files_t;
        type polaris_iox_alt_hdd_files_t;
    )
)

read_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
allow $1 polaris_iox_files_t:file map;

#######################################
## <summary>
##      Manage /bootflash/iox/ files or harddisk IOX files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
# interface('polaris_iox_files_manage',
    gen_require(
        type polaris_iox_files_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type polaris_iox_shared_files_t;
        type polaris_iox_alt_hdd_files_t;
    )
)

manage_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
manage_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
manage_lnk_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
allow $1 polaris_iox_files_t:file map;
### <summary>
### List /bootflash/iox/ dir or hardisk IOX dir
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_iox_dir_list',`
    gen_require(
        type polaris_iox_files_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type httpd_var_run_t;
        type polaris_caf_var_run_t;
        type polaris_iox_shared_files_t;
        type polaris_iox_alt_hdd_files_t;
    )

    list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
    list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, httpd_var_run_t)
    list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_caf_var_run_t)
')

### <summary>
### Search /bootflash/iox/ dir or harddisk IOX
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_iox_dir_search',`
    gen_require(
        type polaris_iox_files_t;
        type polaris_iox_shared_files_t;
    )

    search_dirs_pattern($1, polaris_iox_files_t, polaris_iox_files_t)
')
### <summary>
### Read files like /guestshell/guestshell_set_netns.sh
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

```
interface(`polaris_guestshell_files_read',`
    gen_require(`
        type polaris_guestshell_t;
        type polaris_iox_shared_files_t;
    `)
    read_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)
    read_lnk_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)
`)
```

### <summary>
### Execute files with polaris_guestshell_exec_t type
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

```
interface(`polaris_guestshell_exec_files_exec',`
    gen_require(`
        type polaris_guestshell_exec_t;
    `)
    exec_files_pattern($1, polaris_guestshell_exec_t, polaris_guestshell_exec_t)
`)
```

### <summary>
### Manage /var/run/netns/guestshell files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
interface('polaris_guestshell_var_run_files_manage',
    gen_require(
        type polaris_guestshell_var_run_t;
        type var_run_t;
    )
)
manage_files_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)
manage_dirs_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)

interface('polaris_caf_tmp_files_read',
    gen_require(
        type polaris_caf_tmp_files_t;
    )
)
read_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
read_lnk_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
list_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)

interface('polaris_caf_tmp_files_manage',
    gen_require(
        type polaris_caf_tmp_files_t;
    )
)
manage_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
manage_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
interface('polaris_caf_var_run_files_manage',
  optional_policy(
    gen_require(
      type polaris_caf_var_run_t;
    )
    manage_files_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
    manage_dirs_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
  )
)

interface('polaris_guestshell_key_read',
  gen_require(
    type etc_t;
    type polaris_guestshell_ssh_key_t;
  )
  read_files_pattern($1, etc_t, polaris_guestshell_ssh_key_t)
)

interface('polaris_caf_local_core_files_manage',
  optional_policy('
gen_require(
  type polaris_caf_core_files_t;
  )

manage_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_dirs_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_lnk_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
  )
  }

#######################################
## <summary>
##      Manage /mnt/sd3/iox_alt_hdd.dsk and
##      /mnt/sd3/iox_alt_hdd_mount_dir
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(’polaris_iox_alt_hdd_manage’,
  gen_require(
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    type polaris_iox_alt_hdd_files_t;
    )
    manage_files_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)
    manage_dirs_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)
  )
  )

#############################################################
## <summary>
##      Getattr alternate harddisk files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(’polaris_iox_alt_hdd_getattr’,
  gen_require(
    type polaris_iox_alt_hdd_files_t;
    )
allow $1 polaris_iox_alt_hdd_files_t:filesystem getattr;

### <summary>
Manage tty device link files. Typically at /dev/
### </summary>
### <param name="domain">
Domain allowed access.
### </param>
#
interface(`polaris_caf_tty_lnk_manage',
  gen_require(
    type polaris_caf_tty_file_t;
  ')
  create_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
  read_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
  delete_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
')

### <summary>
Manage tty device chr files.
### </summary>
### <param name="domain">
Domain allowed access.
### </param>
#
interface(`polaris_caf_chr_file_read',
  gen_require(
    type devpts_t;
  ')
  setattr_chr_files_pattern($1, devpts_t, devpts_t)
  read_chr_files_pattern($1, devpts_t, devpts_t)
')

### <summary>
Execute caf in the polaris_caf domain.
### </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##	</summary>
## </param>
#
interface(`polaris_caf_domtrans`,
  gen_require(`
  type polaris_caf_t, polaris_caf_exec_t;
  `)
)

domtrans_pattern($1, polaris_caf_exec_t, polaris_caf_t)
`)

#
#<param name="domain">
#
#<summary>
# Domain allowed access.
#</summary>
# </param>
#
interface(`polaris_caf_proc_signal_perms`,
  gen_require(`
  type polaris_caf_t;
  `)
)

  allow $1 polaris_caf_t:process sigkill;
`)

#
#<param name="domain">
#
#<summary>
# Domain allowed access.
#</summary>
# </param>
#
interface(`polaris_ioxss_rp_tmp_manage`,
  gen_require(`
  type polaris_ioxss_rp_tmp_t;
  `)
)

  manage_files_pattern($1,{polaris_ioxss_rp_tmp_t }, polaris_ioxss_rp_tmp_t)
<summary>
Getattr of iosd_portal_app_lipc socket file
</summary>

<param name="domain">
Domain allowed access.
</param>

interface('polaris_iosd_portal_app_lipc_getattr',

    gen_require('type polaris_iosd_portal_app_lipc_t;

    getattr_sock_files_pattern($1, polaris_iosd_portal_app_lipc_t, polaris_iosd_portal_app_lipc_t)
    ')

Found in path(s):
*/opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscaf.if
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#
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#

/usr/cpp/bin/cpp_cp_svr -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_us_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_vwlc -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/binos/conf/geo_ipv4_db -- gen_context(system_u:object_r:polaris_geodb_files_t,s0)

Found in path(s):
*/opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.fc
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#
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#
policy_module(polarisgnmib, 1.0);

gen_require(
    type polaris_gnmib_t;
)

polaris_btrace_data_manage(polaris_gnmib_t)
polaris_crft_data_manage(polaris_gnmib_t)
polaris_chasfs_manage(polaris_gnmib_t)
polaris_tdlresolve_read(polaris_gnmib_t)
polaris_tdlldb_list_dirs(polaris_gnmib_t)
polaris_cpld_read(polaris_gnmib_t)
polaris_lua_read(polaris_gnmib_t)
polaris_flashlib_read(polaris_gnmib_t)
polaris_db_tdlldb_dir_use(polaris_gnmib_t)

optional_policy(
    # deals with /dev/shm/confd setup (schema and pid)
polaris_confdf_shm_setup(polaris_gnmib_t)
    # and allow read shared schema
polaris_confdf_shared_schema_read(polaris_gnmib_t)
    # from evconfd_dynamic_load
polaris_confdf_shared_schema_watch(polaris_gnmib_t)
    # read /proc/confd_pid/exe file
polaris_confdf_read(polaris_gnmib_t)
)

allow polaris_gnmib_t self:capability dac_override;

logging_send_syslog_msg(polaris_gnmib_t)

# create ndbutil directory under /var/lock
polaris_confdf_ndbutil_create(polaris_gnmib_t)
polaris_ndbutil_lock_template(polaris_gnmib_t, gnmib, ".1.schema_use.gnmib")

# grpc library through sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_gnmib_t)

# gnmib uses multiple (configurable) tcp ports for secure and insecure mode
corenet_tcp_bind_generic_port(polaris_gnmib_t)
allow polaris_gnmib_t self:tcp_socket { shutdown };
corenet_tcp_connect_all_ports(polaris_gnmib_t)

# iosp_token_read_from_file reads /tmp/rp/iosp_gnmib
polaris_gnmib_token_read(polaris_gnmib_t)

# gnmib creates /var/tmp/gnmib.pid
type polaris_gnmib_var_t;
files_tmp_file(polaris_gnmib_var_t);
files_tmp_filetrans(polaris_gnmib_t, polaris_gnmib_var_t, file, "gnmib.pid");
manage_files_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
manage_dirs_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
manage_lnk_files_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)

# read access to /dev/random
dev_read_rand(polaris_gnmib_t)

kernel_read_net_sysctls(polaris_gnmib_t)

type polaris_gnmib_gnoi_images_t;
files_type(polaris_gnmib_gnoi_images_t);
polaris_bootflash_filetrans(polaris_gnmib_t, polaris_gnmib_gnoi_images_t, file,);
manage_files_pattern(polaris_gnmib_t, polaris_disk_bootflash_t, polaris_gnmib_gnoi_images_t)

# need to execute install engine scripts
polaris_install_engine_domtrans(polaris_gnmib_t)

# need access to shell to execute install scripts
corecmd_exec_shell(polaris_gnmib_t)
corecmd_exec_bin(polaris_gnmib_t)

# install script needs rmonbifo
polaris_rmonbifo_tmp_read(polaris_gnmib_t)

# not sure why this is needed
auth_map_passwd(polaris_gnmib_t)

#DB persistence
polaris_tlddbpersist_setup(polaris_gnmib_t)
polaris_tmp_tdlb_persist_setup(polaris_gnmib_t)

allow polaris_gnmib_t self:capability sys_resource;

# needed to fstat and check space when transferring image for os.proto install rpc
fs_getattr_xattr_fs(polaris_gnmib_t)

# needed by gnmib ui because uipeer heartbeat timer accesses TDL epoch files
polaris_issu_tmp_files_read(polaris_gnmib_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.te
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#
# October 2019, Patrick O'Halloran
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#

/usr/bin/os/conf/mcp_crft_request.sh -- gen_context(system_u:object_r:polaris_crft_request_exec_t,s0)

#NGWC - nyquist, edison, bigbang
/mnt/sd3/user/.CRFT(/.*)?   gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#NGWC - macallan, starfleet
/mnt/sd3/user/.CRFT(/.*)?   gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#MCP, QWLC
/vol/harddisk/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/vol/harddisk/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/vol/harddisk/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#VXE, WLC, CRANKSHAFT, MCP
/bootflash/CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/bootflash/CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/bootflash/CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#CRANKSHAFT - blackheart, sparrow
/flash1/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
#PETRA - petra
# USER is a reserved selinux keyword - escape it like this

```
/flash10/USE[R]/.CRFT/(.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash10/USE[R]/.CRFT/[0-9]*/(.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash10/USE[R]/.CRFT/archive/(.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

# polariscmm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.fc
No license file was found, but licenses were detected in source scan.

# July 2017, Victor Kamensky
#
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#

## <summary>Polaris install Policy Rules.</summary>
read_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
read_lnk_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
list_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
')

########################################################################
## <summary>
## Map polaris_sw_data_t, effectively path to map polaris
## base image packages
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_sw_data_map',
  gen_require('polaris_sw_data_t;
  allow $1 polaris_sw_data_t:file map;
')

########################################################################
## <summary>
## Manage polaris_sw_data_t, effectively path to set up polaris
## base image packages house holding
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_sw_data_manage',
  gen_require('polaris_sw_data_t;
  type tmp_t;
  manage_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
  manage_lnk_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
  manage_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
  allow $1 polaris_sw_data_t:dir mounton;
')

########################################################################
## Read polaris_patch_data_t, effectively path to read polaris smu patch or optional packages

```c
interface(`polaris_patch_data_read',
gen_require(`
type polaris_patch_data_t;
    type tmp_t;
')
    read_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
    read_lnk_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
    list_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
')
```

## Manage polaris_patch_data_t, effectively path to set up polaris smu patch or optional packages house holding

```c
interface(`polaris_patch_data_manage',
gen_require(`
type polaris_patch_data_t;
    type tmp_t;
')
    manage_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
    manage_lnk_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
    manage_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
')
```

## Watch patch_data directories

```c
```
interface('polaris_patch_data_watch',
    gen_require(
        type polaris_patch_data_t;
    ')
    allow $1 polaris_patch_data_t:dir watch;
')

########################################
## </summary>
##	Write into tmp files created by install_show.sh
## </summary>
## <param name="domain">
## <summary>
##	Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_install_show_tmp_write',
    gen_require(
        type polaris_install_show_tmp_t;
        type tmp_t;
    ')
    write_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t)
')

########################################
## <summary>
##	Read tmp files created by install_show.sh
## </summary>
## <param name="domain">
## <summary>
##	Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_install_show_tmp_read',
    gen_require(
        type polaris_install_show_tmp_t;
        type tmp_t;
    ')
    read_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t)
')

########################################
## <summary>
##      Manage tmp installer files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_install_show_tmp_manage',
    gen_require(''
        type polaris_install_show_tmp_t;
    ')
    manage_dirs_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
    manage_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
    manage_lnk_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
')

#######################################
## <summary>
##      Manage /bootflash/.issu_loc_lock files
## TODO: provfunc.sh and hman have reference to /bootflash/SISSU_LOCAL_LOCK_FILE.
##       For now, I am keeping manage_dirs_pattern for polaris_disk_bootflash_t.
##       Need to re-visit so that callers to this macro do not have write-permission
##       to all of bootflash..
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_issu_files_manage',
    gen_require(''
        type polaris_issu_files_t;
        type polaris_disk_bootflash_t;
    ')
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t, file, ".issu_loc_lock")
    manage_files_pattern($1, polaris_issu_files_t, polaris_issu_files_t)
    manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t)
')

########################################
## <summary>
##	Manage ISSU tmp files, allowing to record and
## check upgrade progress
interface('polaris_issu_tmp_files_manage',
  gen_require(''
    type polaris_issu_tmp_files_t;
      type tmp_t;
    ')
    manage_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    manage_lnk_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    manage_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
  ')
#
interface('polaris_disk_install_manage',
  gen_require(''
    type polaris_disk_install_t;
    ')
    manage_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    manage_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    allow $1 polaris_disk_install_t:dir watch;
  ')
#
interface('polaris_disk_install_read',
  gen_require(''
    type polaris_disk_install_t;
    ')
    manage_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    manage_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    allow $1 polaris_disk_install_t:dir watch;
  ')

gen_require('  
    type polaris_disk_install_t;
')
search_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
read_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
allow $1 polaris_disk_install_t:dir {watch read};
')

#######################################
## <summary>
##      Get attributes of any regular file/directory from /bootflash/install
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_install_fs_getattr',
    gen_require('      
        type polaris_disk_install_t;
    ')
    allow $1 polaris_disk_install_t:filesystem getattr;
')

######################################
## <summary>
##      Manage /tmp/installer files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_install_tmp_manage',
    gen_require('      
        type polaris_install_tmp_t;
    ')
    manage_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    manage_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    manage_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    manage_fifo_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
')

######################################
## <summary>
## Read /tmp/installer files and directories

### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>

```
interface('polaris_install_tmp_read',
  gen_require('type polaris_install_tmp_t;
  
  list_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  read_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  read_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  allow $1 polaris_install_tmp_t:dir watch;
  allow $1 polaris_install_tmp_t:file map;
  
  )

')
```

## Execute install related scripts in its own domain.

### <summary>
### <param name="domain">
### Domain allowed to transition.
### </summary>
### </param>

```
interface('polaris_install_engine_domtrans',
  gen_require('type polaris_install_engine_t, polaris_install_engine_exec_t;
  
  domtrans_pattern($1, polaris_install_engine_exec_t, polaris_install_engine_t)
  
  )

')
```

## Write into tmp log files created by install engine

### <summary>
### <param name="domain">
### Domain allowed to transition.
### </summary>
### </param>

```
interface('polaris_install_tmp_log_write',
  gen_require('type polaris_install_tmp_log_t;
  
  list_log_files_pattern($1, polaris_install_tmp_log_t, polaris_install_tmp_log_t)
  read_lnk_files_pattern($1, polaris_install_tmp_log_t, polaris_install_tmp_log_t)
  allow $1 polaris_install_tmp_log_t:dir watch;
  allow $1 polaris_install_tmp_log_t:file map;
  
  )

')
```
gen_require(
    type polaris_install_tmp_log_t;
)
write_files_pattern($1, polaris_install_tmp_log_t, polaris_install_tmp_log_t)
)

##############################################################################
## <summary>
##      Execute install selinux related scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(‘polaris_install_selinux_domtrans’,
    gen_require(
        type polaris_install_selinux_t, polaris_install_selinux_exec_t;
    )
)
domtrans_pattern($1, polaris_install_selinux_exec_t, polaris_install_selinux_t)
)

##############################################################################
## <summary>
##      Execute wireless install related scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(‘polaris_install_wireless_domtrans’,
    gen_require(
        type polaris_install_wireless_t, polaris_install_wireless_exec_t;
    )
)
domtrans_pattern($1, polaris_install_wireless_exec_t, polaris_install_wireless_t)
)

##############################################################################
## <summary>
##      Execute install show scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Execute install show snippets in its own domain.
##      </summary>
## </param>
## Domain allowed to transition.
## 

```c
interface('polaris_install_show_domtrans',
    gen_require(' 
        type polaris_install_show_t, polaris_install_show_exec_t;
    ')
)

domtrans_pattern($1, polaris_install_show_exec_t, polaris_install_show_t)
)

```

-------------------------------
## Allow the specified domain to manage KGV data files
## I.e under /tmp/pkg_cs_debug created by function verify_pkg
## common scripts file.
## 

```c
interface('polaris_pkg_cs_debug_manage',
    gen_require(' 
        type polaris_pkg_cs_debug_t;
    ')
)

type of polaris_pkg_cs_debug_t
) files_tmp_filetrans($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
fs_tmpfs_filetrans($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
manage_dirs_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)
manage_files_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)
)

```

-------------------------------
## Manage /file which is generated on "flock -u file /tmp/sysctrl_i2c.lck"
## 

```c
interface('polaris_i2c_lock_file_manage',
    gen_require(' 
        type polaris_i2c_lock_file_t;
    ')
)

```

-------------------------------
manage_dirs_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)
manage_files_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)

####################################
## <summary>
##      write /tmp/installer files and directories
## </summary>
## <param name="domain">
##      Domain allowed to transition.
## </param>
#
interface(`polaris_install_tmp_write',
`gen_require(`
type polaris_install_tmp_t;
`)
write_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
allow $1 polaris_install_tmp_t:dir watch;
`)

####################################
## <summary>
##      Read/Write /.images files and directories
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface(`polaris_install_images_manage',
`gen_require(`
type polaris_install_images_t;
`)
manage_dirs_pattern($1, polaris_install_images_t, polaris_install_images_t)
manage_files_pattern($1, polaris_install_images_t, polaris_install_images_t)
`)

####################################
## <summary>
##	Read ISSU tmp files
## </summary>
## <param name="domain">
##	Domain allowed access.
## </param>

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22951
#</summary>
#</param>
#
interface('polaris_issu_tmp_files_read';
gen_require(')
type polaris_issu_tmp_files_t;
type tmp_t;
')
list_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
read_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
read_link_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
allow $1 polaris_issu_tmp_files_t:file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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# All rights reserved
#
#
policy_module(polarisodm, 1.0);

gen_require(')
  type polaris_odm_t;
')
polaris_btrace_data_manage(polaris_odm_t)
polaris_crft_data_manage(polaris_odm_t)
polaris_chasfs_manage(polaris_odm_t)
polaris_tdlresolve_read(polaris_odm_t)
polaris_tdlldb_list_dirs(polaris_odm_t)
polaris_cppld_read(polaris_odm_t)
polaris_lua_read(polaris_odm_t)
polaris_flashlib_read(polaris_odm_t)
polaris_ripc_sman_ui_serv_connect(polaris_odm_t)
polaris_db_tdlldb_dir_use(polaris_odm_t)

# allow setrlimit
  allow polaris_odm_t self:capability sys_resource;
  allow polaris_odm_t self:process setrlimit;
  allow polaris_odm_t self:capability dac_override;
# odm_svr2clnt_data uses subdirectory for channels needs explicit rule
# to allow it. ODM elastic value is 2 now, add more if need in the
# future.

gen_require('  
type polaris_odm_server2client_data_mqipc_t;
')
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data-b1)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data-b0)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data)

logging_send_syslog_msg(polaris_odm_t)

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.te
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
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#

## <summary>Polaris polarisreflector Policy Rules.</summary>

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.if
No license file was found, but licenses were detected in source scan.

#  
# June 2017, Victor Kamensky  
#  
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#

policy_module(polariscontainer, 1.0);

# polaris_default_container_t type for not labeled container
polaris_container_domain_template(default)

# polaris_utd_container_t type for snort container
polaris_container_domain_template(utd)
polaris_utd_container(polaris_utd_container_t)

# polaris_utdl_container_t type for snort container, that has
# legacy configuration, need more permissions
polaris_container_domain_template(utdl)
polaris_utdl_container(polaris_utdl_container_t)

# manage /tmp/xml/{Utd*} dirs
polaris_vman_log_files_manage(polaris_utdl_container_t)
optional_policy(
    polaris_cedge_xml_tmp_manage(polaris_utdl_container_t)
)

allow polaris_utdl_container_t ramfs_t:file map;

polaris_iox_container_watch(polaris_utdl_container_t)

# work with memif
optional_policy(
    polaris_qfp_dgram_send(polaris_utdl_container_t)
)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(
    polaris_htx_iox_tmp_manage(polaris_utdl_container_t)
)

optional_policy(
    polaris_htx_use_client_socket(polaris_utdl_container_t)
)

# allow container to work with /tmp/binos-IOX
optional_policy(
    polaris_qfp_memif_manage(polaris_utdl_container_t)
)

# snort works with /dev/shm/SPO_DAQ_MMAP_OBJ_
fs_exec_tmpfs_files(polaris_utdl_container_t)

# allow container to work with /tmp/xml/* files
optional_policy(
    polaris_vman_tmp_manage(polaris_utdl_container_t)
)

gen_require(
    type container_file_t;
')
polaris_disk_type(container_file_t)

# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of ramfs on /tmp/snortlogs
fs_mount_ramfs(polaris_utdl_container_t)
# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of tmpfs on /dev/shm
fs_mount_tmpfs(polaris_utdl_container_t)
fs_manage_tmpfs_dirs(polaris_utdl_container_t)
fs_manage_tmpfs_files(polaris_utdl_container_t)
fs_manage_tmpfs_symlinks(polaris_utdl_container_t)

# Allow ramfs access to utd container
fs_manage_ramfs_dirs(polaris_utdl_container_t)
fs_manage_ramfs_files(polaris_utdl_container_t)

# Allow link file access from cron to crond
kernel_read_state(polaris_utdl_container_t)

# Allow Snort
allow polaris_utdl_container_t self:packet_socket map;

# polaris_iox_container_t type for generic IOx containers
polaris_container_domain_template(iox)

fs_mount_tmpfs(polaris_iox_container_t)
fs_manage_tmpfs_dirs(polaris_iox_container_t)
fs_manage_tmpfs_files(polaris_iox_container_t)
fs_manage_tmpfs_symlinks(polaris_iox_container_t)
fs_manage_tmpfs_sockets(polaris_iox_container_t)
# fs_manage_tmpfs_fifo_files is missing
gen_require(
  type tmpfs_t;
)
manage_fifo_files_pattern(polaris_iox_container_t, tmpfs_t, tmpfs_t)
fs_mouton_tmpfs(polaris_iox_container_t)
# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald
allow polaris_iox_container_t tmpfs_t:file map;

# container reads ip netns identity <pid>
fs_read_nsfs_files(polaris_iox_container_t)

# container systemd does remount of some file systems
gen_require(
  type svirt_sandbox_file_t;
)
allow polaris_iox_container_t svirt_sandbox_file_t:filesystem { remount };

polaris_caf_var_run_files_manage(polaris_iox_container_t)
# permit access to /local core files between host and container
polaris_caf_local_core_files_manage(polaris_iox_container_t)

allow polaris_iox_container_t self:cap_users { chown dac_override dac_read_search fsetid setgid setpcap setuid sys_admin sys_boot };
gen_require(
    type devpts_t;
    type polaris_irox_container_t;
    type container_runtime_t;
    class fifo_file { getattr ioctl read write };
    class chr_file { getattr ioctl open read setattr write };
)'

#============= polaris_irox_container_t ==============
allow polaris_irox_container_t container_runtime_t:fifo_file { getattr setattr ioctl open read write };
allow polaris_irox_container_t devpts_t:chr_file { getattr ioctl open read setattr write };

# Normally lipc denials are addressed by code that is generated from TDL.
# I.e if process need to access lipc service it just need to be listed as 'client' of proper TDL service.
# If in this case iox_container process does not have its own TDL proc_def entry,
# therefore we use autogenerated polaris_lipc_iosd_portal_app_write macro/interface.
# Marking this policy optional, so that if platform TDL does not have proper service defined
# then polaris_lipc_iosd_portal_app_write won't be generated, but container policy still would compile.
optional_policy(
    gen_require(
        type polaris_iosd_t;
    )
    polaris_lipc_iosd_portal_app_write(polaris_irox_container_t, polaris_iosd_t)
)

docker_exec_lib(polaris_irox_container_t)
fs_exec_hugetlbfs_files(polaris_irox_container_t)
kernel_read_ring_buffer(polaris_irox_container_t)
dev_read_sysfs(polaris_irox_container_t)
polaris_irox_container_watch(polaris_irox_container_t)

# polaris_sdavc_container_t type for SDAVC container, that has
# legacy configuration, need more permissions
polaris_container_domain_template(sdavc)
polaris_utd_container(polaris_sdavc_container_t)

# manage /tmp/xml/[SDAVC*] dirs
polaris_vman_log_files_manage(polaris_sdavc_container_t)

# legacy SDAVC containder in /etc/init.d/rc.local does unconditional
# mount of tmpfs on /dev/shm
fs_mount_tmpfs(polaris_sdavc_container_t)

# container systemd mounton tmpfs_t & tmpf_st management
fs_mounton_tmpfs(polaris_sdavc_container_t)
fs_manage_tmpfs_dirs(polaris_sdavc_container_t)
fs_manage_tmpfs_files(polaris_sdavc_container_t)
fs_manage_tmpfs_symlinks(polaris_sdavc_container_t)
fs_manage_tmpfs_sockets(polaris_sdavc_container_t)
manage_fifo_files_pattern(polaris_sdavc_container_t, tmpfs_t, tmpfs_t)
# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald
allow polaris_sdavc_container_t tmpfs_t:file map;
# Add watch on tmpfs_t/container_t dir/files
polaris_iox_container_watch(polaris_sdavc_container_t)

# map/mount/write hugtlbfs files
gen_require('`
   type hugtlbfs_t;
')
allow polaris_sdavc_container_t hugtlbfs_t:filesystem mount;
allow polaris_sdavc_container_t hugtlbfs_t:file map;
fs_manage_hugetlbfs_dirs(polaris_sdavc_container_t)

# Allow syslog_mod operation on kernel_t
kernel_clear_ring_buffer(polaris_sdavc_container_t)

# Allow tcpdump
allow polaris_sdavc_container_t self:packet_socket map;
allow polaris_utdl_container_t self:packet_socket map;

# add in the docker files labels to polaris_disk_type
gen_require('`
   type container_var_lib_t;
   type container_share_t;
   type container_log_t;
')
polaris_disk_type(container_var_lib_t)
polaris_disk_type(container_share_t)
polaris_disk_type(container_log_t)

# polaris_waas_container_t type for WAAS KVM
polaris_kvm_domain_template(waas)

# Allow rw block files access to /dev/lvm_raid
storage_dontaudit_write_fixed_disk(polaris_waas_container_t)
storage_dontaudit_read_fixed_disk(polaris_waas_container_t)
# Manage hugtlbfs files/dirs
fs_manage_hugetlbfs_dirs(polaris_waas_container_t)
manage_files_pattern(polaris_waas_container_t, hugtlbfs_t, hugtlbfs_t)
fs_exec_hugetlbfs_files(polaris_waas_container_t)

# allow access of /dev/kvm device
dev_rw_kvm(polaris_waas_container_t)

#allow domain to search/write to virlogd_t
polaris_vman_virtlog_allow(polaris_waas_container_t)

# Allow for guest-share
gen_require(
    type polaris_iox_shared_files_t;
')
manage_files_pattern(polaris_iox_container_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.te
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#
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#
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#
### <summary>Polaris polarispvp Policy Rules.</summary>

#################################################################
### <summary>
###   Execute a domain transition to run pvp.
### </summary>
### <param name="domain">
###   <summary>
###   Domain allowed to transition.
### </summary>
### </param>
#
interface(`polaris_pvp_domtrans',
    gen_require(
        type polaris_pvp_t, polaris_pvp_exec_t;
')
    domtrans_pattern($1, polaris_pvp_exec_t, polaris_pvp_t)
')

#################################################################
### <summary>
###   Manage pvp temporary files and directories in /tmp.
### </summary>
### <param name="domain">
###   <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(polaris_pvp_manage_tmp_files',
    gen_require(
        type polaris_pvp_tmp_t;
    ')
)
manage_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
manage_dirs_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
manage_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
')

########################################
## <summary>
##      Manage pvp process_state files and directories in
## /tmp/[rp][fp][cc]/pvp/process_state.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(polaris_pvp_manage_process_state_files',
    gen_require(
        type polaris_process_state_t;
    ')
)
manage_files_pattern($1, polaris_process_state_t, polaris_process_state_t)
')

########################################
## <summary>
##      Getattr dirs pvp temporary files and directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(polaris_pvp_getattrs_tmp_dirs',
    gen_require(
        type tmp_t;
        type polaris_pvp_tmp_t;
    ')
)
getattr_dirs_pattern($1, tmp_t, polaris_pvp_tmp_t)
')

########################################
## <summary>
## Read from pvp stdin. Should be granted to scripts spawned
## from pvp with domain transition. pvp stdin (0) points to fifo
## file like /tmp/rp/pvp/work/inot_fifo
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </param>
#
interface('polaris_pvp_stdin_read',
    gen_require(
        type polaris_pvp_tmp_t;
    ')
)

read_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
')

########################################
## <summary>
## Read pvp temporary files and directories in /tmp.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </param>
#
interface('polaris_pvp_read_tmp_files',
    gen_require(
        type tmp_t;
        type polaris_pvp_tmp_t;
    ')
)

rw_files_pattern($1, { tmp_t polaris_pvp_tmp_t }, polaris_pvp_tmp_t)
')

########################################
## <summary>
## Read pvp SAI files under
## /tmp/[rp|fp|cc/*]/pvp/sai_process.
## </summary>
## <summary>
## Read pvp SAI files under
## /tmp/[rp|fp|cc/*]/pvp/sai_process.
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_pvp_read_sai_files',
    gen_require(
        type polaris_pvp_sai_t;
    ')
read_files_pattern($1, polaris_pvp_sai_t, polaris_pvp_sai_t)
list_dirs_pattern($1, polaris_pvp_sai_t, polaris_pvp_sai_t)
allow $1 polaris_pvp_sai_t:dir watch;
')

######################################
## <summary>
##      Delete pvp SAI dirs and files under
## /tmp/[rp|fp|cc/*]/pvp/sai_process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_pvp_delete_sai_files',
    gen_require(
        type polaris_pvp_sai_t;
    ')
allow $1 polaris_pvp_sai_t:dir { remove_name rmdir write }
allow $1 polaris_pvp_sai_t:file unlink;
')

#######################################
## <summary>
##      Watch pvp process_state directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_process_state_watch',
    gen_require(
        type polaris_process_state_t;
    ')
allow $1 polaris_process_state_t:dir watch;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.if
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#
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#

policy_module(polarisrmonbifo, 1.0);

# Polaris Rmonbifo Driver policy

# note polaris_proc_rmonbifo_t is defined in kernel/kernel.te, since genfscon
# statements could be only in base policy

type polaris_rmonbifo_tmp_t;
files_type(polaris_rmonbifo_tmp_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_rmonbifo_tmp_t, dir, "rmonbifo")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.fc
No license file was found, but licenses were detected in source scan.

# February 2020, Victor Kamensky
#
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#

/bootflash/sdavc(/.*)? gen_context(system_u:object_r:polaris_sdavc_proxy_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.fc
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# August 2017, Shawn Lu
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#

# polarisodm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.fc
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#

/usr/binos/conf/auto_upgrade_client.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/binos/conf/auto_upgrade_helper.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/binos/conf/auto_upgrade_trigger.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/binos/conf/auto_upgrade_client_helper.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)

/tmp/etc/installer    gen_context(system_u:object_r:polaris_autoupgrade_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.fc
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#

# polariswstatsd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.fc
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#
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.fc
No license file was found, but licenses were detected in source scan.
## <summary>Polaris wncd Policy Rules.</summary>

### #interface(`polaris_wlc_ap_images_read',`
```
gen_require(`
    type polaris_wlc_ap_images_t;
)```
read_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
read_lnk_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
list_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
allow $1 polaris_wlc_ap_images_t:file map;
')
```

## <summary>Manage files under /mnt/images/...these are related to AccessPoint images</summary>

### #interface(`polaris_wlc_ap_images_manage',`
```
gen_require(`
    type polaris_wlc_ap_images_t;
    type mnt_t;
)```
manage_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_lnk_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
# transition when /mnt/images is created
filetrans_pattern($1, mnt_t, polaris_wlc_ap_images_t, dir, "images")
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.if
No license file was found, but licenses were detected in source scan.

#
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#
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#

## <summary>Polaris esg_tam_cfg Policy Rules.</summary>

# Getattr dirs pvp temporary directories in /tmp.
</summary>
## <param name="domain">
## Domain allowed access.
</summary>
## </param>
#
interface(`polaris_tam_getattrs_tmp_dirs',``
gen_require(`
    type tmp_t;
    type polaris_tam_tmp_t;
')
getattr_dirs_pattern($1, tmp_t, polaris_tam_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.if
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#
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#

## <summary>Polaris MQIPC Policy Rules.</summary>
## <summary>
## Make specified domain as one of mqipc types.
## </summary>
## <param name="domain">
## The domain serving as polaris_mqipc type
## </param>

interface('polaris_mqipc_type',
    gen_require(
        attribute polaris_mqipc;
        typeattribute $1 polaris_mqipc;
        files_type($1)
    )
)

## <summary>
## Manage mqipc shared memory file in /dev/shm directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="mqipc_label">
## Mqipc file label.
## </param>
## <param name="object">
## Mqipc channel file name stem. It is used to derive set of file names
## used by MQIPC.
## </param>

interface('polaris_mqipc_create_name',
    gen_require(
        type tmpfs_t;
        type tmp_t;
    )
)
manage_files_pattern($1, tmpfs_t, $2)  
allow $1 $2:file map;  
type_transition $1 tmpfs_t : file $2 "mq.-$3";  
manage_fifo_files_pattern($1, tmp_t, $2)  
type_transition $1 tmp_t : fifo_file $2 "mq_enf_fifo.-$3";  
type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";  
fs_getattr_tmpfs($1)

#######################################
## <summary>
## Manage mqipc shared memory file in /dev/shm/dir directory
## where dir is also derived from object parameter used as stem. It
## should be used only in cases where mqipc server operates with
## chanel under subdirectory. TDL autogeneration does not pick up
## this so interface call should be added explicitely.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="mqipc_label">
## Database file label.
## </param>
## <param name="object">
## Mqipc file name stem. It is used to derive set of file names
## used by MQIPC.
## </param>
#
interface('polaris_mqipc_create_name_dir',
  gen_require(
    type tmpfs_t;
    type tmp_t;
)
  manage_files_pattern($1, [ tmpfs_t $2 ], $2)
  allow $1 $2:file map;
  manage_dirs_pattern($1, tmpfs_t, $2)
  type_transition $1 tmpfs_t : [ file dir ] $2 "mq.-$3";
  manage_fifo_files_pattern($1, [ tmp_t $2 ], $2)
  type_transition $1 tmp_t : fifo_file $2 "mq_enf_fifo.-$3";
  type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
  fs_getattr_tmpfs($1)
')

 thácוךสร้างไฟล์ร่วมกันในโฟลเดอร์ /dev/shm

## <summary>
## Manage mqipc shared memory file in /dev/shm directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="mqipc_label">
## Mqipc channel file label.
## </param>
#
# interface('polaris_mqipc_use',
# gen_require('polaris_mqipc_use',
# type tmpfs_t,
')

read_files_pattern($1, { tmpfs_t $2 }, $2)
write_files_pattern($1, { tmpfs_t $2 }, $2)
read_fifo_files_pattern($1, { tmp_t $2 }, $2)
write_fifo_files_pattern($1, { tmp_t $2 }, $2)
f_s_getattr_tmpfs($1)
allow $1 $2:file map;
'}

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismqipc.if
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#
## <summary>Polaris issu_stack Policy Rules.</summary>

 thácוךสร้างไฟล์ tmp ที่ถูกสร้างโดย issu_stack.

## <summary>
## Manage tmp files created by issu_stack.
## </summary>
## <param name="domain">
## </param>

---
interface('polaris_issu_stack_tmp_manage',
    gen_require('type polaris_issu_stack_tmp_t;
')

manage_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
manage_link_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.if
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#

## <summary>Polaris Tmp Boot Policy Rules.</summary>

# /tmp/sw/boot policy

## <summary>
##      Read /tmp/sw/boot files. Does not cover rmonbifo file under
## /tmp/sw/boot/rmonbifo. For those use polaris_rmonbifo_tmp_read interface
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_boot_tmp_read',
    gen_require('type polaris_boot_tmp_t;
')
    read_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
')
### <summary>
### Write /tmp/sw/boot files.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_boot_tmp_write`,
    gen_require(`
    type polaris_boot_tmp_t;
    ')
    write_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
')

### <summary>
### Map any polaris_boot_tmp_t file, needed during install.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_boot_tmp_map`,
    gen_require(`
    type polaris_boot_tmp_t;
    ')
    allow $1 polaris_boot_tmp_t:file map;
')

### <summary>
### Manage /tmp/sw/boot files.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_boot_tmp_manage`,
    gen_require(`
type polaris_boot_tmp_t;
')
    manage_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
')

########################################
## <summary>
##
##<summary>
##</summary>
##<param name="domain">
##</summary>
##<param>
##<param name="object">
##</param>
##(#
interface('polaris_boot_tmp_filetrans',
    gen_require(`
type polaris_boot_tmp_t;
')
    fs_tmpfs_filetrans($1, polaris_boot_tmp_t, $2, $3)
    files_tmp_filetrans($1, polaris_boot_tmp_t, $2, $3)
')

########################################
## <summary>
##
##<summary>
##</summary>
##<param name="domain">
##</summary>
##<param>
##<param name="name" optional="true">
##</param>
##</param>
###
interface('polaris_boot_tmp_filetrans',
    gen_require(`
type polaris_boot_tmp_t;
')
    fs_tmpfs_filetrans($1, polaris_boot_tmp_t, $2, $3)
    files_tmp_filetrans($1, polaris_boot_tmp_t, $2, $3)
')

# Manage partition disk device that contains rommon image.
interface('polaris_rommon_device_manage',
    gen_require(`
type device_t;
    type polaris_rommon_device_t;
)
manage_blk_files_pattern($1, device_t, polaris_rommon_device_t)
manage_chr_files_pattern($1, device_t, polaris_rommon_device_t)
)

########################################################################
## <summary>
##      Read partition disk device that contains rommon image.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(polaris_rommon_device_read`,
    gen_require(`
        type device_t;
        type polaris_rommon_device_t;
)
    read_blk_files_pattern($1, device_t, polaris_rommon_device_t)
    read_chr_files_pattern($1, device_t, polaris_rommon_device_t)
)

########################################################################
## <summary>
##      Manage /bootflash/.prst_sync/reload_info
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(polaris_boot_file_manage`,
    gen_require(`
        type polaris_boot_file_t;
    )
    manage_files_pattern($1, polaris_boot_file_t, polaris_boot_file_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.if
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#
policy_module(polariscedgeTanman, 1.0);

# why /usr/binos/conf/cedge-tanman.sh is not described in TDL?
polaris_process_domain_template(ceedge_tanman)

polaris_boot_tmp_read(polarisc_edge_tanman_t)
polaris_chasfs_read(polarisc_edge_tanman_t)
polaris_cpld_read(polarisc_edge_tanman_t)
polaris_read_debug_conf(polarisc_edge_tanman_t)
polaris_use_btrace_fifo(polarisc_edge_tanman_t)

corecmd_exec_bin(polarisc_edge_tanman_t)
corecmd_exec_shell(polarisc_edge_tanman_t)
auth_use_nsswitch(polarisc_edge_tanman_t)

# /tmp/tan handling

type polarisc_edge_tanman_tmp_t;
files_tmp_file(polarisc_edge_tanman_tmp_t)
gen_require(

type tmp_t;
')
manage_dirs_pattern(polarisc_edge_tanman_t, tmp_t, polarisc_edge_tanman_tmp_t)
manage_fifo_files_pattern(polarisc_edge_tanman_t, polarisc_edge_tanman_tmp_t, polarisc_edge_tanman_tmp_t)
files_tmp_filetrans(polarisc_edge_tanman_t, polarisc_edge_tanman_tmp_t, dir, "tan")

# calls du -sk /tmp/xml/System
fs_getattr_tmpfs(polarisc_edge_tanman_t)

# work with /tmp/xml
polarisc_edge_xml_tmp_manage(polarisc_edge_tanman_t)

# work with /tmp/tmp
polarisc_edge_tmp_manage(polarisc_edge_tanman_t)

polarisc_btrace_tmppub_read(polarisc_edge_tanman_t)

allow polarisc_edge_tanman_t self:capability sys_resource;

# calls nice
allow polarisc_edge_tanman_t self:process setsched;

# runs inotifywait -mrq --format %f: -e moved_to /bootflash/tracelogs
# and removes files in /bootflash/tracelogs
polaris_btrace_persistent_data_manage(polaris_cedge_tanman_t)

# runs ps -eaf
# ps needs access to proc_t
kernel_read_system_state(polaris_cedge_tanman_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_cedge_tanman_t)
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_cedge_tanman_t)

# watch over /bootflash/tracelogs
polaris_btrace_data_watch(polaris_cedge_tanman_t)

# watches over /tmp for /tmp/boothed appearence
gen_require(
    type tmp_t;
)
allow polaris_cedge_tanman_t tmp_t:dir watch;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.te
No license file was found, but licenses were detected in source scan.

#
# Aug 2020, Sridhar
#
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#

## <summary>Polaris tlscd process Policy Rules.</summary>

## <summary>
## Allow the specified domain to manage UDS socket files. I.e /tmp/tlscd/
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_tlscd_uds_manage',
    gen_require(
        type polaris_tlscd_uds_t;
    )
)
manage_sock_files_pattern($1, polaris_tlsccd_uds_t, polaris_tlsccd_uds_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlsccd.if
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dnl
dnl Copyright (c) 2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Same as Nyquist
dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set`rp', `per_bay', 0)
max_bay_map_set`cc', `per_bay', 0)
max_bay_map_set`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set`fp', `elastictc, BPROC_ODM, 0)

max_elastic_map_set`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/msmaps.m4
No license file was found, but licenses were detected in source scan.

#
# September 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
### <summary>Polaris polarisunconfined Policy Rules</summary>

### <summary>Make the specified type usable
to be conditionally unconfined.</summary>

### <param name="domain">
## Summary
Type to be used for conditionally unconfined.

```
interface('polaris_domain_storage_unconfined_type',
    gen_require('attribute polaris_storage_unconfined_type;

    typeattribute $1 polaris_storage_unconfined_type;
    ')
)
```

## Summary
Mark domain unconfined, if polaris_unconfined build macro is defined. Or if polaris_unconfined_conditional macro is defined make domain unconfined only if polaris_unconfined_all SELinux boolean is set on.

```
interface('polaris_domain_maybe_unconfined',
    ifdef('polaris_unconfined',
        unconfined_domain($1)
    ')

    ifdef('polaris_unconfined_conditional',
        polaris_domain_storage_unconfined_type($1)

        tunable_policy('polaris_unconfined_all',
            polaris_unconfined_domain($1)
        ')
    ')

    '#implicitly confined domain being made permissive
    permissive $1;
    ')
```

## Summary
Mark iosd domain unconfined, if polaris_iosd_unconfined build macro is defined. Or if polaris_iosd_unconfined_conditional macro is defined make domain unconfined only if
## polaris_unconfined_iosd SELinux boolean is set on.

### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_iosd_maybe_unconfined',`
    ifdef(`polaris_iosd_unconfined',`
        unconfined_domain($1)
    ')
    ifdef(`polaris_iosd_unconfined_conditional',`
        polaris_domain_storage_unconfined_type($1)
        tunable_policy(`polaris_unconfined_iosd',`
            polaris_unconfined_domain($1)
        ')
    ')
')

########################################
## <summary>
## Unconfined access to kernel module resources.
## Like kernel_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_kernel_unconfined',`
    gen_require(`
        attribute proc_type;
        attribute sysctl_type;
        type kernel_t;
        type unlabeled_t;
        type proc_kcore_t;
        type proc_kmsg_t;
    ')
    allow $1 { proc_type - proc_kcore_t - proc_kmsg_t } :{ file } ~entrypoint;
    allow $1 { proc_type - proc_kcore_t - proc_kmsg_t }:{ dir lnk_file } *
    allow $1 sysctl_type:{ file } ~entrypoint;

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 22978
allow $1 sysctl_type:{ dir lnk_file } *;

allow $1 kernel_t:system *

allow $1 unlabeled_t:{ dir lnk_file sock_file fifo_file chr_file blk_file } *
allow $1 unlabeled_t:file ~entrypoint;
allow $1 unlabeled_t:filesystem *
allow $1 unlabeled_t:association *
allow $1 unlabeled_t:packet *
allow $1 unlabeled_t:process ~{ ptrace transition dyntransition execmem execstack execheap }

# LOOK AT ME
# kernel_load_module($1)
')

########################################
## <summary>
##	Unconfined access to network objects.
## Like corenet_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##	<summary>
##	The domain allowed access.
##
## </summary>
## </param>
#
interface( `polaris_corenet_unconfined`,
  gen_require( `attribute node_type;
    attribute netif_type;
    attribute packet_type;
    attribute port_type;
  `)

allow $1 node_type:node *
allow $1 netif_type:netif *
allow $1 packet_type:packet *
allow $1 port_type:dccp_socket { send_msg recv_msg name_connect };
allow $1 port_type:tcp_socket { send_msg recv_msg name_connect };
allow $1 port_type:udp_socket { send_msg recv_msg };

# Bind to any network address.
allow $1 port_type:{ dccp_socket tcp_socket udp_socket rawip_socket } name_bind;
allow $1 node_type:{ dccp_socket tcp_socket udp_socket rawip_socket } node_bind;

')

########################################
Unconfined access to devices.

Like dev_unconfined but without typeattribute use.

## <summary>
Domain allowed access.
## </summary>

## <param name="domain">
Domain allowed access.
## </param>

interface('polaris_dev_unconfined',``
gen_require(``
attribute device_node;
type memory_device_t;
type mtrr_device_t;
``
)

allow $1 self:capability sys_rawio;
allow $1 [ device_node - memory_device_t ] : { blk_file lnk_file } *;
allow $1 [ device_node - memory_device_t ] : { file chr_file } ~ { execmod entrypoint };
allow $1 mtrr_device_t:file ~ { execmod entrypoint };
dev_getattr_all($1)
``

Unconfined access to domains.

Like domain_unconfined but without typeattribute use.

## <summary>
Domain allowed access.
## </summary>

## <param name="domain">
Domain allowed access.
## </param>

# Use/sendto/connectto sockets created by any domain.
allow $1 domain: { socket_class_set socket key_socket } *;

allow $1 domain: system all_system_perms;

# Use descriptors and pipes created by any domain.
allow $1 domain: fd use;
allow $1 domain:fifo_file rw_file_perms;

allow $1 $1:dbus send_msg;

# Act upon any other process.
allow $1 domain:process ~{ ptrace transition dyntransition execmem execstack execcheap setcurrent }; allow $1 domain:process ptrace;

# Create/access any System V IPC objects.
allow $1 domain: { sem msgq shm } *;
allow $1 domain:msg { send receive };

# For /proc/pid
allow $1 domain:dir list_dir_perms;
allow $1 domain:file rw_file_perms;
allow $1 domain:lnk_file { read_link_file_perms ioctl lock }

# act on all domains keys
allow $1 domain:key *;

# pass constraints
# typeattribute $1 can_change_object_identity;
# typeattribute $1 set_curr_context;
# typeattribute $1 process_uncond_exempt;

# mcs_process_set_categories($1)

# userdom_filetrans_home_content($1)
')

#############################################################################
## <summary>
## Unconfined access to files.
## Like files_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
##
# interface('polaris_files_unconfined',
    gen_require("attribute file_type;
    type shadow_t;
')
# Create/access any file in a labeled filesystem:
allow $1 { file_type - shadow_t }:{ file chr_file } ~{ execmod entrypoint relabelto };
allow $1 file_type:{ dir lnk_file sock_file fifo_file blk_file } *;
allow $1 file_type:service *;

# Mount/unmount any filesystem with the context= option.
allow $1 file_type:filesystem all_filesystem_perms;
')

########################################
## <summary>
##	Unconfined access to filesystems
## Like fs_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface(`polaris_fs_unconfined',`
   gen_require(`
     attribute filesystem_type;
   `)

   allow $1 filesystem_type:filesystem all_filesystem_perms;

   # Create/access other files. fs_type is to pick up various
   # pseudo filesystem types that are applied to both the filesystem
   # and its files.
   allow $1 filesystem_type:{ file } ~entrypoint;
   allow $1 filesystem_type:{ dir lnk_file sock_file fifo_file chr_file blk_file } *;
')

########################################
## <summary>
##	Unconfined access to the SELinux kernel security server.
## Like selinux_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface(`polaris_selinux_unconfined',`
   gen_require(`
attribute boolean_type;

type security_t;

type secure_mode_policyload_t;

# use SELinuxfs
allow $1 security_t:dir list_dir_perms;
allow $1 security_t:file rw_file_perms;
allow $1 boolean_type:file read_file_perms;
allow $1 { boolean_type -secure_mode_policyload_t }:file write_file_perms;

# Access the security API.
allow $1 security_t:security ~{ load_policy setenforce setbool setsecparam };

ifdef(`distro_rhel4',`
    # needed for systems without audit support
    auditallow $1 security_t:security setbool;
    `)

#selinux_set_all_booleans($1)
#selinux_load_policy($1)
#selinux_set_parameters($1)
#selinux_set_enforce_mode($1)
`)

##########################################################
## <summary>
##	Make the specified domain unconfined.
## </summary>
## <param name="domain">
##	<summary>
##	Domain to make unconfined.
##	</summary>
## </param>
#
# interface(`polaris_unconfined_domain',`
  gen_require(`
    class dbus all_dbus_perms;
    class nscd all_nscd_perms;
    class passwd all_passwd_perms;
  `)

# Use any Linux capability.

allow $1 self:capability ~{ sys_module };
allow $1 self:capability2 ~{ mac_admin mac_override };

---
allow $1 self:fifo_file { manage_fifo_file_perms relabelfrom relabelto };

# Transition to myself, to make get_ordered_context_list happy.
allow $1 self:process { dyntransition transition };

# Write access is for setting attributes under /proc/self/attr.
allow $1 self:file rw_file_perms;
allow $1 self:dir rw_dir_perms;

# Userland object managers
allow $1 self:nscl all_nscl_perms;
allow $1 self:dbus all_dbus_perms;
allow $1 self:passwd all_passwd_perms;
allow $1 self:association all_association_perms;
allow $1 self:socket_class_set create_socket_perms;

polaris_kernel_unconfined($1)
polaris_corenet_unconfined($1)
polaris_dev_unconfined($1)
polaris_domain_unconfined($1)
polaris_files_unconfined($1)
polaris_fs_unconfined($1)
polaris_selinux_unconfined($1)

systemd_config_all_services($1)

    # in unconfined_domain_noaudit its under not deny_execmem
    allow $1 self:process execmem;

#domain_mmap_low($1)
#
#ubac_process_exempt($1)
#
#optional_policy`
#auth_unconfined($1)
#`
#
#optional_policy`
## Communicate via dbusd.
#dbus_system_bus_unconfined($1)
#dbus_unconfined($1)
#`
#
#optional_policy`
#ipsec_setcontext_default_spd($1)
#ipsec_match_default_spd($1)
#`
#optional_policy`
#nscd_unconfined($1)
#
#optional_policy`
#seutil_create_bin_policy($1)
#seutil_relabelto_bin_policy($1)
#
#
#optional_policy`
#storage_unconfined($1)
#
#
#optional_policy`
#xserver_unconfined($1)
#
')

########################################
## <summary>
## Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_unconfined_service_fifo_file_manage',
    gen_require(
        type unconfined_service_t;
    ')
    manage_fifo_files_pattern($1, unconfined_service_t, unconfined_service_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.if
No license file was found, but licenses were detected in source scan.

#
# March 2019, Shikhar Dogra
#
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#
policy_module(polarisfmancc, 1.0);

gen_require(
    type polaris_fman_cc_t;
)

polaris_btrace_data_manage(polaris_fman_cc_t)
polaris_crft_data_manage(polaris_fman_cc_t)
polaris_chasfs_manage(polaris_fman_cc_t)
polaris_tdlresolve_read(polaris_fman_cc_t)
polaris_tdlldb_list_dirs(polaris_fman_cc_t)
polaris_cpld_read(polaris_fman_cc_t)
polaris_lua_read(polaris_fman_cc_t)
polaris_flashlib_read(polaris_fman_cc_t)
polaris_cpld_dev_use(polaris_fman_cc_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_cc_t)

# ISR Nightwatch module accesses libraries compiled with icc
polaris_icc_broken_relocations(polaris_fman_cc_t)

# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_fman_cc_t)
polaris_cpp_tmp_files_use(polaris_fman_cc_t)

type polaris_iosd_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_fmanrp_mqipc_t)

polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0:cc0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0:cc1)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0:cc2)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0:cc3)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0:cc4)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.te
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dnl
dnl May 2020, Swati Kumari
dnl
dnl Copyright (c) 2018-2020 by Cisco Systems, Inc.
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dnl
dnl rpx86 Platform Max Bay Limits
max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 5)
max_bay_map_set('fp', 'per_bay', 2)

min_bay_ripc_map_set('rp', 'per_bay', 0)
min_bay_ripc_map_set('cc', 'per_bay', 1)
min_bay_ripc_map_set('fp', 'per_bay', 0)

max_bay_ripc_map_set('rp', 'per_bay', 2)
max_bay_ripc_map_set('cc', 'per_bay', 6)
max_bay_ripc_map_set('fp', 'per_bay', 2)

min_bay_ripc_map_set('rp', 'global', 0)
min_bay_ripc_map_set('cc', 'global', 1)
min_bay_ripc_map_set('fp', 'global', 0)

max_bay_ripc_map_set('rp', 'global', 2)
max_bay_ripc_map_set('cc', 'global', 6)
max_bay_ripc_map_set('fp', 'global', 2)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/rpx86maps.m4
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris polarispsvp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsvp.if
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#
# September 2017, Victor Kamensky
#
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#
/	mp/tmppub(/.*)?  gen_context(system_u:object_r:polaris_btrace_t:tmppub_t,s0)

# btrace utility to rotate logs
/usr/binos/bin/btman_rotate_immediate -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)
# btrace utility to dump meta data
/usr/binos/bin/dump_btrace_meta -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.fc
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
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#

policy_module(polarisnvram, 1.0);

###############################################################################
# NVRAM
###############################################################################

ifdef(`ngwc_family`,
# suppose that in edison case nvram is not in partition
type polaris_nvram_file_t;
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
')

ifdef(`blackheart_platform`,
gen_require(
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`sparrow_platform`,
gen_require(
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`aventus_platform',`
gen_require`
  type polaris_nvram_file_t;
  type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`cabo_platform',`
gen_require`
  type polaris_nvram_file_t;
  type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`petra_platform',`
type polaris_nvram_file_t;
files_type(polaris_nvram_file_t)
# suppose that in edison case nvram is not in partition
gen_require`
  type polaris_iosd_t;
')
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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# All rights reserved
#
policy_module(polarischasfs, 1.0);

generate(attribute domain);

type polaris_chasfs_t;
files_type(polaris_chasfs_t)

files_tmp_filetrans(domain, polaris_chasfs_t, dir, "chassis")
files_tmp_filetrans(domain, polaris_chasfs_t, lnk_file, "chasfs")

# LOOK AT ME: on ultra /tmp/cc/chasfs is created as directory, but
# on other platforms is it symbolic to /tmp/chassis/local/cc/chasfs
# as it happens for rp and fp. Would it be better to fix ultra
# script(s)?
files_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

cpld-symlink.service, creates /tmp/chassis while /tmp is
# still tmpfs_t, ie before systemd-tmpfiles runs and had a
# chance to set tmp_t label on /tmp

fs_tmpfs_filetrans(initrc_t, polaris_chasfs_t, dir, "chassis")

init_script_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

# chasync
corecmd_exec_bin(polaris_chasync_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_chasync_t)

polaris_btrace_data_manage(polaris_chasync_t)
polaris_chasfs_manage(polaris_chasync_t)
polaris_cpld_read(polaris_chasync_t)
polaris_boot_tmp_read(polaris_chasync_t)
polaris_read_debug_conf(polaris_chasync_t)
polaris_rmonbifo_tmp_read(polaris_chasync_t)
polaris_proc_rmonbifo_read(polaris_chasync_t)

polaris_disk_bootflash_read_link(polaris_chasync_t)
polaris_disk_harddisk_read_link(polaris_chasync_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_chasync_t)

allow polaris_chasync_t self:capability sys_resource;
allow polaris_chasync_t self:process setpgid;

# access of crashinfo dir for the domain
polaris_disk_crashinfo_getattr(polaris_chasync_t)

# allow access of /tmp/rp/chasync for the polaris_chasync_t domain to
# create/write/read dirs/files with domain specific context
type polaris_chasync_tmp_t;
files_type(polaris_chasync_tmp_t)
files_tmp_file(polaris_chasync_tmp_t)
files_tmp_filetrans(polaris_chasync_t, polaris_chasync_tmp_t, dir, "chasync")
manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
manage_fifo_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)

# allow creation/access of temporary files created by chasync.sh like
# /tmp/sh-thd-1499428203 etc
files_tmp_filetrans(polaris_chasync_t, polaris_chasync_tmp_t, file)
manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)

fs_getattr_tmpfs(polaris_chasync_t)

# access of flash util for the domain
polaris_flashlib_read(polaris_chasync_t)

# read /proc/cmdline
kernel_read_system_state(polaris_chasync_t)
gen_require(
  type rsync_t;
  type init_t;
  type rsync_tmp_t;
  )
rsync_entry_domtrans(polaris_chasync_t, rsync_t)
allow rsync_t polaris_chasync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t init_t:unix_stream_socket ioctl;

# upon exec rsync inherits chasync's stdout/stderr fifo files
allow rsync_t polaris_chasync_t:fifo_file { getattr write };# in chasync_prepost_rsync.sh, CHASYNC_PID_DIR (rsync pid files) is deleted by rsync
fs_getattr_tmpfs(rsync_t)

# allow file:map for rsync_tmp_t
allow rsync_t rsync_tmp_t:file map;
dev_getattr_generic_blk_files(rsync_t)
dev_getattr_loop_control(rsync_t)
# need access to /usr/bin/mount
mount_entry_type(rsync_t)
# need access to dev/sda1
storage_getattr_fixed_disk_dev(rsync_t)
ifdef(`ngwc_family',`
#Read and write RPC sysctls
kernel_rw_rpc_sysctls(rsync_t)
mount_domtrans(rsync_t)
fstools_domtrans(rsync_t)
#Create/read/write on fixed device disk nodes
storage_manage_fixed_disk(rsync_t)
#stat -f -L -c %T /mnt/usb0
polaris_getattr_removable(rsync_t)
storage_filetrans_all_named_dev(rsync_t)
')
#============= polaris_dyncfg ==============
polaris_dyncfg_tmp_read(rsync_t)

#============= polaris_chasync_t ==============
polaris_btrace_persistent_data_search(polaris_chasync_t)
#chasync.sh code executes mv command
allow polaris_chasync_t self:process { setfscreate };
#chasync.sh code executes ping command to check if ping works before trying rsync for the first time
netutils_domtrans_ping(polaris_chasync_t)
#chasync.sh code in wlc saves logs during cleanup to /var/log/chasync
type polaris_chasync_log_t;
logging_log_file(polaris_chasync_log_t)
manage_files_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
logging_log_filetrans(polaris_chasync_t, polaris_chasync_log_t, dir, "chasync")

#########################################################################
# chasfs_boottime script
#########################################################################

polaris_process_domain_template(chasfs_boottime)

unconfined_domain(polaris_chasfs_boottime_t)

# chasfs_boottime.sh starts cman_fp or cmdand with -C option; allow its
# transition to fman_fp_t type
optional_policy('
polaris_cm_rp_domtrans(polaris_chasfs_boottime_t)
')
optional_policy('
polaris_cm_fp_domtrans(polaris_chasfs_boottime_t)
')
optional_policy('
polaris_cm_cc_domtrans(polaris_chasfs_boottime_t)
')

ifdef(‘ngwc_family’,‘

# Allow iox_polaris.conf read
polaris_caf_files_read(polaris_chasync_t)

# Allow losetup in helper script
fstools_domtrans(polaris_chasync_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_chasync_t)

#Allow console logging
term_open_unallocated_ttys(polaris_chasync_t)

# Allow logger which is used for syslog message
allow polaris_chasync_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_chasync_t)

# logger needs to run pidof
dev_read_sysfs(polaris_chasync_t)
domain_read_all_domains_state(polaris_chasync_t)
type polaris_chasync_files_t;
files_type(polaris_chasync_files_t)
polaris_pfile_type(polaris_chasync_files_t)

optional_policy(
  gen_require(
    type polaris_disk_harddisk_t;
    type polaris_disk_bootflash_t;
  )
)
filetrans_pattern(polaris_chasync_t, {polaris_disk_bootflash_t polaris_disk_harddisk_t}, polaris_chasync_files_t, dir, "sys_report")
filetrans_pattern(polaris_chasync_t, {polaris_disk_bootflash_t polaris_disk_harddisk_t}, polaris_chasync_files_t, dir, "fp_cc_crash")
filetrans_pattern(polaris_chasync_t, polaris_disk_bootflash_t, polaris_chasync_files_t, file, "user_input_custom.xml")

# chasync can manage files inside of its own polaris_disk_chasync_t directories
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t)
manage_files_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t)
allow polaris_chasync_t polaris_chasync_files_t:dir watch;
polaris_install_disk_read(polaris_chasync_t)

optional_policy(
  # chasync invoked sys_report does ls /tmp/ufs/crashinfo
  polaris_ncd_tmp_read(polaris_chasync_t)
)

# chasync moves inv files from /tftp/inv to chasfs directory
allow polaris_chasync_t self:capability { chown fowner fsetid };
gen_require(
  type brctl_t;
)
# pd_iox.sh invokes brctl which needs access to chasfs
polaris_chasfs_read(brctl_t)

#allow chasync to unmount flash partition
mount_domtrans(polaris_chasync_t)

sysnet_domtrans_ifconfig(polaris_chasync_t)

# chasync.sh needs read access to /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_chasync_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polariscpp, 1.0);

*****************************************************************************
# Polaris cpp (ultra)
*****************************************************************************

type polaris_cpp_device_t;
dev_node(polaris_cpp_device_t)

# deals with /dev/shm files semaphors, etc
type polaris_cpp_tmpfs_t;
files_tmpfs_file(polaris_cpp_tmpfs_t)
attribute polaris_cpp_domain;
fs_tmpfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
manage_files_pattern(polaris_cpp_domain, tmpfs_t, polaris_cpp_tmpfs_t)
allow polaris_cpp_domain polaris_cpp_tmpfs_t:file map;
polaris_cpp_tmpfs manage(polaris_cpp_domain)
polaris_cerr_shm manage(polaris_cpp_domain)

# on TSN ucode_dram lives in hugetlbfs
fs_hugetlbfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
gen_require(
    type hugetlbfs_t;
)    manage_files_pattern(polaris_cpp_domain, hugetlbfs_t, polaris_cpp_tmpfs_t)

# deals with cpp /tmp files
type polaris_cpp_tmp_t;
files_tmp_file(polaris_cpp_tmp_t)
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, file, "cpp_anon_db")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, file, "qm_rt_dbg")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, fifo_file, "cpp_ifdev_rep")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, fifo_file, "cpp_ifdev_req")
manage_files_pattern(polaris_cpp_domain, tmp_t, polaris_cpp_tmp_t)
manage_fifo_files_pattern(polaris_cpp_domain, tmp_t, polaris_cpp_tmp_t)
allow polaris_cpp_domain polaris_cpp_tmp_t:file map;

fs_getattr_tmpfs(polaris_cpp_domain)
# overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
# when initializing the CPP DMAP library
optional_policy(
    polaris_cpp_cavium_dma_map(polaris_cpp_domain)
)

type polaris_i95_device_t;
dev_node(polaris_i95_device_t)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpp.te
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#
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#
#
# some platforms have /usr/binos/bin/fman_fp as hardlink to
# /usr/binos/bin/fman_fp_image
/usr/binos/bin/fman_fp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_vwlc_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_us_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.fc
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#
# July 2017, Victor Kamensky
#
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#
#
## <summary>Polaris ngiolite Policy Rules.</summary>

#<summary>Execute mcp_smartctl_cmds.sh in the polaris_smartctl domain.</summary>
#<param name="domain">Domain allowed to transition.
interface('polaris_smartctl.domtrans',
    gen_require(
        type polaris_smartctl_t, polaris_smartctl_exec_t;
    ')
)

corecmd_search_bin($1)
    domtrans_pattern($1, polaris_smartctl_exec_t, polaris_smartctl_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.if
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# # February 2018, Manohar Hungund
#
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#
/dev/act2 -c gen_context(system_u:object_r:polaris_act2_device_t,s0)
/tmp/hw_entropy -- gen_context(system_u:object_r:polaris_hw_entropy_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisact2.fc
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# # July 2017, Victor Kamensky
#
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#

policy_module(polariscmcc, 1.0);

gen_require(
    type polaris_cm_cc_t;
')

polaris_btrace_data_manage(polaris_cm_cc_t)
polaris_crft_data_manage(polaris_cm_cc_t)
polaris_chasfs Manage(polaris_cm_cc_t)
polaris_tdlresolve_read(polaris_cm_cc_t)
polaris_tldldb_list_dirs(polaris_cm_cc_t)
polaris_cpld_read(polaris_cm_cc_t)
polaris_lua_read(polaris_cm_cc_t)
polaris_flashlib_read(polaris_cm_cc_t)

polaris_cpld_dev_use(polaris_cm_cc_t)
polaris_proc_rmonbifo_read(polaris_cm_cc_t)

polaris_ripc_sman_ui_serv_connect(polaris_cm_cc_t)

optional_policy(''
    # access to /dev/iocp0
    polaris_spa_dev_use(polaris_cm_cc_t)
')
optional_policy(''
    # access to /dev/htdb[0-9]*
    polaris_htdp_dev_use(polaris_cm_cc_t)
')

# read /proc/cmdline
kernel_read_system_state(polaris_cm_cc_t)
# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_cc_t)

polaris_obfl_data_read(polaris_cm_cc_t)
# cmcc module as part of init calls cmem_obfl_write_voltage_log(),
# which writes to obfl device.
polaris_obfl_data_manage(polaris_cm_cc_t)
# on vxe platform /obfl is symlink to /varied
ifdef('vxe_family','
polaris_disk_varied_list(polaris_cm_cc_t)
')

# on 1ng works with /dev/cpld-virtual-cc
polaris_cpp_dev_use(polaris_cm_cc_t)

polaris_i2c_use(polaris_cm_cc_t)
dev_rw_sysfs(polaris_cm_cc_t)

ifdef('crankshaft_family','
# read,getattr, map access to /firmware/ files for Switzer-CC
polaris_firmware_read(polaris_cm_cc_t)
polaris_firmware_getattr(polaris_cm_cc_t)
polaris_firmware_map(polaris_cm_cc_t)
')

# allow objstore access
polaris_disk_objstore_read(polaris_cm_cc_t)

# get interface address cmlib_if_config_addr at cman/lib/cmlib_msgs/src/cmlib_eobc.c
allow polaris_cm_cc_t self:udp_socket { create ioctl };

# on utah need to get model info
optional_policy(
    polaris_dash_dev_use(polaris_cm_cc_t)
)

# access to /dev/dash_fpga device on fugazi platform
ifdef('fugazi_platform',
    polaris_dash_dev_mcp_use(polaris_cm_cc_t)
)

# access to /dev/nutella_fpga device on nutella platform
optional_policy(
    polaris_nutella_fpga_dev_use(polaris_cm_cc_t)
)

# handle /tmp/pci files on utah
type polaris_pci_tmp_t;
files_tmp_file(polaris_pci_tmp_t)
# /tmp/pci/bus, /tmp/pci/vendor, /tmp/pic/device created by systemd unit
gen_require(
    type initrc_t;
    type unconfined_service_t;
    type tmp_t;
    )
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_pci_tmp_t, dir, "pci")
manage_dirs_pattern(initrc_t, tmp_t, polaris_pci_tmp_t)
manage_files_pattern(initrc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)
manage_files_pattern(polaris_cm_cc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)
logging_send_syslog_msg(polaris_cm_cc_t)

# cmcc module creates the PCI rescan shm mutex.
# /dev/shm/rescan_shm file.
type polaris_cm_cc_tmpfs_t;
files_tmpfs_file(polaris_cm_cc_tmpfs_t)
fs_tmpfs_filetrans(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t, file)
manage_files_pattern(polaris_cm_cc_t, tmpfs_t, polaris_cm_cc_tmpfs_t)
mmap_files_pattern(polaris_cm_cc_t, tmpfs_t, polaris_cm_cc_tmpfs_t)
device_read_sysfs(polaris_cm_cc_t)
device_getattr_sysfs_fs(polaris_cm_cc_t)
fs_getattr_tmpfs(polaris_cm_cc_t)

# /tmp/udev-cc should it not be polaris_udev_tmp_t
type polaris_cm_cc_tmp_t;
files_tmp_file(polaris_cm_cc_tmp_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t, dir, "udev-cc")
manage_files_pattern(polaris_cm_cc_t, polaris_cm_cc_tmp_t, polaris_cm_cc_tmp_t)
gen_require('  type tmp_t;
')
manage_dirs_pattern(polaris_cm_cc_t, [ tmp_t polaris_cm_cc_tmp_t ], polaris_cm_cc_tmp_t)

# on tsn need access to /dev/moka_fpga
optional_policy('  polaris_mokafpga_dev_use(polaris_cm_cc_t)
')

optional_policy('  # betelgeuse need access to /dev/sirius_fpga
  polaris_sirius_fpga_dev_use(polaris_cm_cc_t)
')

# on macallan need access to /dev/quack
optional_policy('  polaris_quack_dev_use(polaris_cm_cc_t)
')
polaris_cpld_write(polaris_cm_cc_t)

optional_policy('  # on starfleet access gettysburg_fpga
  polaris_gettysburg_fpga_dev_use(polaris_cm_cc_t)
')

# /dev/epactrlN on qwlc
optional_policy('  polaris_epa_dev_use(polaris_cm_cc_t)
')

# /dev/luna_fpga on qwlc
optional_policy('  polaris_luna_mbfpga_dev_use(polaris_cm_cc_t)
')

# /dev/astro on qwlc
optional_policy('  polaris_astro_dev_use(polaris_cm_cc_t)
')

# /dev/huron_fpga on Sumatra
optional_policy('  polaris_huron_dev_use(polaris_cm_cc_t)
')
type polaris_nim_xxd_tmp_t;
files_tmp_file(polaris_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, polaris_nim_xxd_tmp_t)
ifdef(‘starfleet_platform’,
    # In cman_cc
    # cmcc_starfleet_act2_authentication_udi in cman/cc/src/cmcc_starfleet.c
    # cmcc_starfleet_cpupboard_act2_authentication_udi cman/cc/src/cmcc_starfleet.c
    # tam_lib_device_open infra/act2/tam_act2/tam_lib/src/tam_lib_device.c:
    polaris_act2_dev_use(polaris_cm_cc_t)
)

ifdef(‘crankshaft_family’,
# modprobe sm_nim_adpt.ko for Switzer-CC
modutils_domtrans_insmod(polaris_cm_cc_t)
# /dev/sm_nim_adpt device files for Switzer-CC
polaris_sm_nim_adpt_dev_use(polaris_cm_cc_t)
)

# Mapping permission for /dev/shm/\<name\>
ifdef(‘crankshaft_family’,
gen_require(‘
    type systemd_tmpfiles_t;
’)
mmmap_files_pattern(systemd_tmpfiles_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
’)

# on ngwc cmcc needs to access /dev/chdrvmmap for asic memory mapping
optional_policy(‘
polaris_chdrvmmap_dev_use(polaris_cm_cc_t)
’)

ifdef(‘vxe_family’,
# bind to BMC_AGENT_CLIENT_PORT port from cman_tlv_init
corenet_tcp_bind_polaris_bmc_agent_client_port(polaris_cm_cc_t)
’)

# allow /usr/binos/bin/cmcc to access /tmp/hd_sz
gen_require(‘
    type udev_tmp_t;
’)
read_files_pattern(polaris_cm_cc_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
fstools_exec(polaris_cm_cc_t)

# using existing interface "polaris_cm_rp_tmp_manage" for polaris_cm_cc_t
# to acces /tmp/cmlib_eeprom_sim_smartctl.out
polaris_cm_rp_tmp_manage(polaris_cm_CC_t)
files_tmp_filetrans(polaris_cm_CC_t, polaris_cm_rp_tmp_t, file, "cmlib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
dev_nvme_chr_files_manage(polaris_cm_CC_t)
dev_nvme_blk_files_manage(polaris_cm_CC_t)

# access to /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_CC_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.te
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#
# June 2017, Victor Kamensky
#
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#

### <summary>Polaris tservice Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.if
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#

### <summary>Polaris polarisortfiles Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisortfiles.if
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris Storage Policy Rules.</summary>

### Persistent storage policy

### Make the specified type usable as default type for files in a Polaris persistent (bootflash, hardisk, etc) filesystem.

### <param name="type">Type to be used for files.</param>

```
interface('polaris_disk_type',
  files_type($1)
  gen_require('attribute polaris_disk;
    ')
  typeattribute $1 polaris_disk;
')
```

### Make the specified type usable for files in a Polaris persistent (bootflash, hardisk, etc) filesystem.

### <param name="type">Type to be used for files.</param>

```
interface('polaris_pfile_type',
  files_type($1)
  gen_require('attribute polaris_disk;
    ')
  typeattribute $1 polaris_disk;
')
```

### Read any regular file/directory from persistent storage.

```
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_persistent_read',
    gen_require('attribute polaris_disk;
')
read_files_pattern($1, polaris_disk, polaris_disk)
read_lnk_files_pattern($1, polaris_disk, polaris_disk)
list_dirs_pattern($1, polaris_disk, polaris_disk)
')

#######################################
## <summary>
## Getattr of any regular file/directory from persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_persistent_getattr',
    gen_require('attribute polaris_disk;
')
list_dirs_pattern($1, polaris_disk, polaris_disk)
getattr_files_pattern($1, polaris_disk, polaris_disk)
getattr_lnk_files_pattern($1, polaris_disk, polaris_disk)
')

#######################################
## Listdir of any regular directory from persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_persistent_list_dirs',
    gen_require('attribute polaris_disk;
`) list_dirs_pattern($1, polaris_disk, polaris_disk) `)

########################################################
## <summary>
## Write/read any regular file/directory from persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_persistent_manage',
    gen_require(
        attribute polaris_disk;
    )
    manage_files_pattern($1, polaris_disk, polaris_disk)
    manage_dirs_pattern($1, polaris_disk, polaris_disk)
    manage_lnk_files_pattern($1, polaris_disk, polaris_disk)
) `)

########################################################
## <summary>
## Map any regular file/directory from persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_persistent_map',
    gen_require(
        attribute polaris_disk;
    )
    allow $1 polaris_disk:file map;
) `)

########################################################
# debug.conf
########################################################

########################################################
## <summary>
## Read debug.conf from persistent storage.
## </summary>
# debug.conf
interface('polaris_read_debug_conf',
  gen_require(
    type polaris_debug_conf_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    type tmp_t;
  )
  read_files_pattern($1, polaris_disk_bootflash_t, polaris_debug_conf_t)
  read_files_pattern($1, polaris_disk_harddisk_t, polaris_debug_conf_t)
  read_files_pattern($1, tmp_t, polaris_debug_conf_t)
  read_lnk_files_pattern($1, tmp_t, polaris_debug_conf_t)
  polaris_disk_bootflash_read_lnk($1)
)

########################################
## <summary>
##	Read packages.conf from persistent storage.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
# interface('polaris_read_packages_conf',
# gen_require(
#     type polaris_packages_conf_t;
#     type polaris_disk_bootflash_t;
#     type polaris_disk_harddisk_t;
# )
# read_files_pattern($1, polaris_disk_bootflash_t, polaris_packages_conf_t)
# read_files_pattern($1, polaris_disk_harddisk_t, polaris_packages_conf_t)
# )

########################################
## <summary>
##	Manage packages.conf in persistent storage.
# Interface for Managing Packages

```c
interface('polaris_manage_packages_conf',
    gen_require('polaris_packages_conf_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    ')
    manage_files_pattern($1, polaris_disk_bootflash_t, polaris_packages_conf_t)
    manage_files_pattern($1, polaris_disk_harddisk_t, polaris_packages_conf_t)
)
```

# Interface for Managing Files from /varied

```c
interface('polaris_disk_varied_manage',
    gen_require('polaris_disk_varied_t;
    ')
    manage_files_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)
```

# Interface for Reading Files from /varied

```c
interface('polaris_disk_varied_read',
    gen_require('polaris_disk_varied_t;
    ')
)
```
read_files_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
')

########################################################################
########################################################################
## <summary>
##      Search /varied directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_varied_search',
        gen_require(
            type polaris_disk_varied_t;
        ')
        search_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
        ')

########################################################################
########################################################################
## <summary>
##      List/read /varied directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_varied_list',
        gen_require(
            type polaris_disk_varied_t;
        ')
        list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
        ')

########################################################################
########################################################################
## <summary>
##	Write/read/remove polaris_core_file_t file/directory from
## persistent storage.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
## <summary>
## </param>
#
interface(`polaris_core_file_manage`,
    gen_require(`
    type polaris_core_file_t;
`)
    allow $1 polaris_core_file_t:dir rmdir;
    manage_files_pattern($1, polaris_core_file_t, polaris_core_file_t)

    allow $1 polaris_core_file_t:dir watch;
`)

#######################################
## <summary>
## Search polaris_core_file_t dir
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
#
interface(`polaris_core_file_search`,
    gen_require(`
    type polaris_core_file_t;
`)
    search_dirs_pattern($1, polaris_core_file_t, polaris_core_file_t)
`)

#######################################
## <summary>
## Read/Open/Search polaris_core_file_t dir
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
#
interface(`polaris_core_file_read`,
    gen_require(`
    type polaris_core_file_t;
`)
    allow $1 polaris_core_file_t:dir read;
    getattr_files_pattern($1, polaris_core_file_t, polaris_core_file_t)
`)}
### <summary>
### Get attrib of bootflash fifo file.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface(`polaris_disk_bootflash_fifo_file_getattr',`
#    gen_require(`
#        type polaris_disk_bootflash_t;
#    `)
#   getattr_fifo_files_pattern($1, polaris_disk_bootflash_t,
#        polaris_disk_bootflash_t)
#
### <summary>
### Get attrib of bootflash sock file.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface(`polaris_disk_bootflash_sock_file_getattr',`
#    gen_require(`
#        type polaris_disk_bootflash_t;
#    `)
#   getattr_sock_files_pattern($1, polaris_disk_bootflash_t,
#        polaris_disk_bootflash_t)
#
### <summary>
### Read links of polaris_disk_bootflash_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
type polaris_disk_bootflash_t;

read_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)

interface(`polaris_disk_bootflash_search',
    gen_require(
        type polaris_disk_bootflash_t;
    )
    search_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
)

interface(`polaris_disk_csl_manage',
    gen_require(
        type polaris_disk_csl_p_t;
        type polaris_disk_csl_s_t;
    )
    manage_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
    manage_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
    read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
    read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
)

### <summary>
### Write/read any regular file/directory under /csl_p_0/, /csl_p_1, /csl_s_0, and /csl_s_1
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### </param>
#
### /csl_s_0, and /csl_s_1
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_disk_csl_read',
  gen_require(
    type polaris_disk_csl_p_t;
    type polaris_disk_csl_s_t;
  ')
read_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
read_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
')

###############################################################
### <summary>
### Write/read any regular file/directory under /objstore,
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_disk_objstore_manage',
  gen_require(
    type polaris_disk_objstore_t;
  ')
manage_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
read_lnk_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
')

interface('polaris_disk_objstore_read',
  gen_require(
    type polaris_disk_objstore_t;
  ')
read_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
list_dirs_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
')

###############################################################
### <summary>
### Read links of polaris_disk_harddisk_t

## <summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_harddisk_read_lnk',`
    gen_require(`
        type polaris_disk_harddisk_t;
    `)
read_link_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
`)

#######################################
## <summary>
##      Read harddisk files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_harddisk_read',`
    gen_require(`
        type polaris_disk_harddisk_t;
    `)
read_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
list_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
`)

#######################################
## <summary>
##      Read bootflash files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_bootflash_read',`
    gen_require(`
        type polaris_disk_bootflash_t;
    `)
read_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
read_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
list_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)

')

########################################################################
## <summary>
## Manage bootflash files 
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </param>
#
# interface('polaris_bootflash_manage',
  gen_require(
    type polaris_disk_bootflash_t;
  )
  manage_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
  manage_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
  manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)

')

########################################################################
## <summary>
## Create an object in the polaris_disk_bootflash_t directories, 
## with a private type using a type transition. 
## </summary>
## <param name="domain">
## Domain allowed access. 
## </param>
## <param name="private type">
## The type of the object to be created. 
## </param>
## <param name="object">
## The object class of the object being created. 
## </param>
## <param name="name" optional="true">
## The name of the object being created. 
## </param>
#
interface('polaris_bootflash_filetrans',
  gen_require(
    type polaris_disk_bootflash_t;
  ')
)

filetrans_pattern($1, polaris_disk_bootflash_t, $2, $3, $4)
')

#################################################
## <summary>
## Manage bootflash files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_harddisk_manage',
  gen_require(
    type polaris_disk_harddisk_t;
  ')
)

manage_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
manage_link_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
manage_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
')

#################################################
## Create an object in the polaris_disk_harddisk_t directories,
## with a private type using a type transition.
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="private type">
## <summary>
## The type of the object to be created.
## </summary>
## </param>
## <param name="object">
## <summary>
## The object class of the object being created.
## </summary>
## <param name="name" optional="true">
## 
## <summary>
## The name of the object being created.
## </summary>
## </param>

# interface(`polaris_harddisk_filetrans`,
  gen_require(
    type polaris_disk_harddisk_t;
  ')

filetrans_pattern($1, polaris_disk_harddisk_t, $2, $3, $4)
')

########################################################################
## <summary>
## Getattr of polaris_disk_crashinfo_t (typically /crashinfo
## symbolic link and real disk it points to)
## </summary>
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>

# interface(`polaris_disk_crashinfo_getattr`,
  gen_require(
    type polaris_disk_crashinfo_t;
  ')

read_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
')

########################################################################
## <summary>
## Manage polaris_disk_crashinfo_t (typically /crashinfo
## symbolic link and real disk it points to)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>

#
interface('polaris_disk_crashinfo_manage',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
    manage_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
    manage_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
    manage_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
)

#######################################
## <summary>
##	Read links of polaris_disk_crashinfo_t
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface('polaris_disk_crashinfo_read_lnk',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
    read_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
)

#######################################
## <summary>
##	Write/read polaris_disk_license_t files/directories
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface('polaris_disk_license_manage',
    gen_require(
        type polaris_disk_license_t;
    )
    manage_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
    manage_lnk_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
    allow $1 polaris_disk_license_t:file map;
)

#######################################
## <summary>
##	Read polaris_disk_license_t files/directories
## </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_disk_license_read',
#     gen_require('  
#       type polaris_disk_license_t:
#     ')
#     read_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
#     read_lnk_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
# )

########################################
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_getattr_removable',
#     gen_require('  
#       type removable_t;
#     ')
#
# allow $1 removable_t:filesystem getattr;
# allow $1 removable_t:dir        getattr;
# )

########################################
### <summary>
### Get the attributes of an removable filesystem.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### </param>
#
# interface('polaris_removable_manage',
#     gen_require('  
#       type removable_t;
#     ')
#
#
manage_files_pattern($1, removable_t, removable_t)
manage_dirs_pattern($1, removable_t, removable_t)
')

########################################
## <summary>
##      read all removable files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(\'polaris removable read\',
     gen_require(
       type removable_t;
     )
read_files_pattern($1, removable_t, removable_t)
list_dirs_pattern($1, removable_t, removable_t)
read_lnk_files_pattern($1, removable_t, removable_t)
')

########################################
## <summary>
##      Get the attributes of silent roll partition filesystem.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(\'polaris getattr filesystem disk ucode\',
     gen_require(
       type polaris_disk_ucode_t;
     )
allow $1 polaris_disk_ucode_t:filesystem getattr;
')

########################################
## <summary>
##      Get the attributes of an bootflash filesystem.
## </summary>
### <summary>
### Get the attributes of an harddisk filesystem.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_getattr_harddisk',
    gen_require(
        type polaris_disk_harddisk_t;
    '
    )

allow $1 polaris_disk_harddisk_t:filesystem getattr;
')

###############################################################################
### <summary>
### Get the attributes of an harddisk file.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_getattr_file_harddisk',
    gen_require(
        type polaris_disk_harddisk_t;
    '
    )

allow $1 polaris_disk_harddisk_t:filesystem getattr;
')
### <summary>
## Watch persistent file or directories
### </summary>
### <param name="domain">
### <summary>
## Domain allowed access.
### </summary>
### </param>
### <rolebase/>
#
interface('polaris_persistent_watch',
  gen_require('`
attribute polaris_disk;
')
  allow $1 polaris_disk: {dir file } watch;
')

### <summary>
## Create an object in the polaris_disk_crashinfo_t directories,
#### with a private type using a type transition.
### </summary>
### <param name="domain">
### <summary>
## Domain allowed access.
### </summary>
### </param>
### <param name="private type">
### <summary>
## The type of the object to be created.
### </summary>
### </param>
### <param name="object">
### <summary>
## The object class of the object being created.
### </summary>
### </param>
### <param name="name" optional="true">
### <summary>
## The name of the object being created.
### </summary>
### </param>
### 

interface('polaris_crashinfo_filetrans',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
)

filetrans_pattern($1, polaris_disk_crashinfo_t, $2, $3, $4)
)

########################################
## <summary>
##      Get the attributes of an polaris_disk_config_t file or directory.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_getattr_disk_config',
gen_require(
    type polaris_disk_config_t;
    )
)

getattr_files_pattern($1, polaris_disk_config_t, polaris_disk_config_t)

getattr_dirs_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
)

########################################
## Create an object in the polaris_disk_config_t directories, with a private type using a type transition.
## <summary>
##Domain allowed access.
## </summary>
## <param name="domain">
## <summary>
##Domain allowed access.
## </summary>
## <param name="private type">
## <summary>
##The type of the object to be created.
## </summary>
## <param name="object">
## <summary>
##The object class of the object being created.
## </summary>
## <param name="name" optional="true">
###<summary>
The name of the object being created.
</summary>

#<param>

interface('polaris_disk_config_filetrans',
gen_require(
    type polaris_disk_config_t;
')

filetrans_pattern($1, polaris_disk_config_t, $2, $3, $4)
')

### <summary>
Manage bootflash files mmap
</summary>

### <param name="domain">

### <summary>
Domain allowed access.
</summary>

### </param>

#<param>

interface('polaris_bootflash_files_mmap',
gen_require(
    type polaris_disk_bootflash_t;
')

mmap_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.if
No license file was found, but licenses were detected in source scan.

#
# March 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisjvm, 1.0);

gen_require('    type polaris_jvm_t;
')

# access /etc/passwd
auth_use_nsswitch(polaris_jvm_t)

# java through posix_sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_jvm_t)

# checks whether IPV6 is configured accessing /proc/pid/net/if_inet6
kernel_read_network_state(polaris_jvm_t)

# handling ~/.oracle_jre_usage
type polaris_jvm_home_t;
files_type(polaris_jvm_home_t)
gen_require(
    type user_home_dir_t;
')
filetrans_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t, dir, ".oracle_jre_usage")
manage_dirs_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t)
manage_files_pattern(polaris_jvm_t, polaris_jvm_home_t, polaris_jvm_home_t)

# handling /tmp/hsperfdata_root
type polaris_jvm_tmp_t;
files_type(polaris_jvm_tmp_t)
gen_require(
    type tmp_t;
')
files_tmp_filetrans(polaris_jvm_t, polaris_jvm_tmp_t, dir, "hsperfdata_root")
manage_dirs_pattern(polaris_jvm_t, tmp_t, polaris_jvm_tmp_t)
manage_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)
mmap_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)

# listen on 9093 websocket tcp port
corenet_tcp_bind_polaris_poljvm_websocket_port(polaris_jvm_t)
corenet_tcp_bind_polaris_generic_node(polaris_jvm_t)
allow polaris_jvm_t self:tcp_socket create_stream_socket_perms;

# java uses jit and needs executable anonymous mapping
allow polaris_jvm_t self:process execmem;

# Allow JDK access to read cpu and memory utilization data on start up
gen_require(
    type proc_t;
')
allow polaris_jvm_t proc_t:file { getattr open read };
fs_read_cgroup_files(polaris_jvm_t)
fs_search_cgroup_dirs(polaris_jvm_t)

Found in path(s):
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolecap/>
#
interface('polaris_hm_tmp_read',
    gen_require(
        type polaris_hm_tmp_t;
    ')
)

read_files_pattern($1, polaris_hm_tmp_t, polaris_hm_tmp_t)
')

########################################
## <summary>
##      Execute pkg_summary.sh in its own domain
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolecap/>
#
interface('polaris_pkg_summary_domtrans',
    gen_require(
        type polaris_pkg_summary_t;
        type polaris_pkg_summary_exec_t;
    ')
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_pkg_summary_exec_t, polaris_pkg_summary_t)
')

########################################
## <summary>
##      Execute pkg_to_tree.sh in its own domain
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolecap/>
interface('polaris_pkg_to_tree_domtrans',
    gen_require(
        type polaris_pkg_to_tree_t;
        type polaris_pkg_to_tree_exec_t;
    )
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_pkg_to_tree_exec_t, polaris_pkg_to_tree_t)
')

########################################
## <summary>
##	Execute hman in the polaris_cli_fs_cmds domain.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##	</summary>
## </param>
#
# interface('polaris_cli_fs_cmds_domtrans',
#    gen_require(
#        type polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_exec_t;
#    )
#)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_cli_fs_cmds_exec_t, polaris_cli_fs_cmds_t)
')

#######################################
## <summary>
##      Read file /tmp/pkg_summary.txt file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_pkg_summary_tmp_read',
#    gen_require(
#        type polaris_pkg_summary_tmp_t;
#    )
#    read_files_pattern($1, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t)
#')

#######################################
## <summary>
##
##</summary>
## read the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_show_provision_temp_read',
    gen_require('polaris_show_provision_tmp_t;
    read_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
')

## manage the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_show_provision_temp_manage',
    gen_require('polaris_show_provision_tmp_t;
    manage_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
    manage_link_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
    manage_dirs_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
    files_tmp_filetrans($1, polaris_show_provision_tmp_t, { file dir })
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.if
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# March 2017, Victor Kamensky
#
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#

policy_module(polarispsvp, 1.0);
polaris_process_domain_template(psvp)

# transition to pman domain, once pman is invoked by psvp
polaris_pman_domtrans(polaris_psvp_t)
# transition to pvp domain, once pvp is invoked by psvp
polaris_pvp_domtrans(polaris_psvp_t)

corecmd_exec_bin(polaris_psvp_t)
corecmd_exec_shell(polaris_psvp_t)

# can execute process in polaris domain
polaris_exec(polaris_psvp_t)

# LOOK AT ME start-stop-daemon from busy box iterates all
# /proc/<pid> directories and reads /proc/<pid>/cmdline
# /proc/<pid>/exe. I.e it need quite a bit of privileges
domain_read_all_domains_state(polaris_psvp_t)

# another issue of running busybox start-stop-daemon under
# psvp_t label
# type=AVC msg=audit(1480527500.482:46): avc: denied { sys_ptrace } for pid=14853 comm="start-stop-daem"
capability=19  scontext=system_u:system_r:polaris_psvp_t:s0 tcontext=system_u:system_r:polaris_psvp_t:s0
tclass=capability
allow polaris_psvp_t self:capability sys_ptrace;

# allow to read /proc/meminfo
kernel_read_system_state(polaris_psvp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_psvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_psvp_t)

# work with /tmp files
# type polaris_psvp_tmp_t;
files_tmp_file(polaris_psvp_tmp_t)
manage_dirs_pattern(polaris_psvp_t, tmp_t, polaris_psvp_tmp_t)
manage_files_pattern(polaris_psvp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
manage_fifo_files_pattern(polaris_psvp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
files_tmp_filetrans(polaris_psvp_t, polaris_psvp_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_psvp_tmp_t, dir, "psvp")

ifdef(`ngwc_family',`
# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy(`
polaris_ncd_tmp_read(polaris_psvp_t)

```


allow polaris_psvp_t self:capability sys_resource;

polaris_pvp_getattrs_tmp_dirs(polaris_psvp_t)

dmidecode_domtrans(polaris_psvp_t)

polaris_btrace_data_manage(polaris_psvp_t)
polaris_chasfs_manage(polaris_psvp_t)
polaris_cpld_read(polaris_psvp_t)
polaris_cpld_write(polaris_psvp_t)
polaris_rmonbifo_tmp_read(polaris_psvp_t)
polaris_tdldb_list_dirs(polaris_psvp_t)
polaris_boot_tmp_read(polaris_psvp_t)
polaris_disk_crashinfo_getattr(polaris_psvp_t)
polaris_flashlib_read(polaris_psvp_t)
polaris_read_debug_conf(polaris_psvp_t)

allow polaris_psvp_t self:capability dac_override;

# watch /tmp/sai/psvp
allow polaris_psvp_t polaris_psvp_tmp_t:dir watch;

# creates /tmp/sai/pvp/rp/run_stg2
polaris_pvp_manage_tmp_files(polaris_psvp_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
ifdef(`vwlc_platform',`
optional_policy(`
polaris_ncd_tmp_read(polaris_psvp_t)
')
')

# permissions during shutdown
polaris_pvp_manage_tmp_files(polaris_psvp_t);

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#
# October 2019, Patrick O'Halloran
#
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policy_module(polariscrft, 1.0);

gen_require('attribute domain;
  attribute polaris_extended_domain;
')

# persistent CRFT files stored under crft_data
type polaris_crft_data_t;
files_type(polaris_crft_data_t)

# allow crft data file reside on persistent storage
polaris_pfile_type(polaris_crft_data_t)

attribute polaris_crft_data_domain;

type attribute polaris_crft_data_t polaris_crft_data_domain;

# Start of mcp_crft_request context elements
polaris_utility_domain_template(crft_request)

# smand calls the mcp_crft_request.sh in bexec context
polaris_bexecute_domtrans(polaris_crft_request_t)
polaris_bexecute_domain(polaris_crft_request_t, polaris_crft_request_exec_t)

# read the cpld information
polaris_cpld_read(polaris_crft_request_t)

# dev/pty access as part of bexec operations
telnet_use_ptys(polaris_crft_request_t)

# filesystem attributes for df /
fs_getattr_xattr_fs(polaris_crft_request_t)

# btrace used in script uses these
polaris_btrace_tmppub_manage(polaris_crft_request_t)
polaris_use_btrace_fifo(polaris_crft_request_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_crft_request_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_manage(polaris_crft_request_t)
# ufs information captured by the chasfs utils
ifdef(`ngwc_family',`
optional_policy(`
polaris_ncd_tmp_manage(polaris_crft_request_t)
')
')
# scripts read /proc/cmdline
kernel_read_system_state(polaris_crft_request_t)

# ping the vrf
netutils_domtrans_ping(polaris_crft_request_t)
sysnet_domtrans_ifconfig(polaris_crft_request_t)

# rsync operations for members and standby rps
gen_require(`
    type rsync_exec_t;
    type rsync_port_t;
')
allow polaris_crft_request_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
allow polaris_crft_request_t rsync_port_t:tcp_socket name_connect;

# access to /etc/hosts for rp/members information
gen_require(`
    type net_conf_t;
')
files_etc_filetrans(polaris_crft_request_t, net_conf_t, file, "hosts")
auth_use_nsswitch(polaris_crft_request_t)

# execute the bash script
corecmd_exec_bin(polaris_crft_request_t)

# net namespace filesystem
fs_read_nsfs_files(polaris_crft_request_t)
polaris_chasfs_manage(polaris_crft_request_t)

# script also accesses the persistent files from crft
polaris_persistent_manage(polaris_crft_request_t)
polaris_crft_data_manage_all(polaris_crft_request_t)

# ping operations via ip netns
gen_require(`
    type ifconfig_t;
')
netutils_domtrans_ping(ifconfig_t)

# Curl accesses from IoT boxes like petra/sparrow
gen_require(`
type polaris_curl_t;
  type polaris_iosd_t;
  
allow polaris_curl_t polaris_crft_request_t:process sigchld;

# handle mktemp creation and cleanup
files_manage_generic_tmp_dirs(polaris_crft_request_t)
allow polaris_crft_request_t self:capability sys_resource;

Found in path(s):
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# July 2017, Victor Kamensky
#
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#

custom_module(polaristamdrp, 1.0);

gen_require(""
  type polaris_tamd_rp_t;
  
  polaris_btrace_data_manage(polaris_tamd_rp_t)
polaris_crft_data_manage(polaris_tamd_rp_t)
polaris_chasfs_manage(polaris_tamd_rp_t)
polaris_tdlresolve_read(polaris_tamd_rp_t)
polaris_tdlldb_list_dirs(polaris_tamd_rp_t)
polaris_flashlib_read(polaris_tamd_rp_t)
logging_send_syslog_msg(polaris_tamd_rp_t)

  # allow read of /etc/passwd
auth_use_nsswitch(polaris_tamd_rp_t)

polaris_cpld_read(polaris_tamd_rp_t)
polaris_cpld_write(polaris_tamd_rp_t)
polaris_quack_dev_use(polaris_tamd_rp_t)

  # tmp file for udi authentication
  type polaris_tamd_rp_tmp_t;
files_tmp_file(polaris_tamd_rp_tmp_t);
files_tmp_filetrans(polaris_tamd_rp_tmp_t, polaris_tamd_rp_tmp_t, file, "tam_uid_validation")
manage_files_pattern(polaris_tamd_rp_tmp_t, polaris_tamd_rp_tmp_t, polaris_tamd_rp_tmp_t)
polaris_cm_rp_tmp Manage(polaris_tamd_rp_tmp_t)""
# hybrid tam needs access to /objstore/swtam

gen_require(
    type polaris_disk_objstore_t;
    type root_t;
')

filetrans_pattern(polaris_tamd_rp_t, root_t, polaris_disk_objstore_t, dir, "objstore")
manage_dirs_pattern(polaris_tamd_rp_t, polaris_disk_objstore_t, polaris_disk_objstore_t)
polaris_disk_objstore_manage(polaris_tamd_rp_t)

# need access to dash fpga to read/write TAM
optional_policy(
    polaris_dash_dev_use(polaris_tamd_rp_t)
')

#access to /dev/dash_fpga device on fugazi platform
ifdef("fugazi_platform","
    polaris_dash_dev_mcp_use(polaris_tamd_rp_t)
')

allow polaris_tamd_rp_t self:capability net_admin;

# LOOK AT ME tamd_rp needs shell access to do something like this
# sh -c "echo 0x04 > /sys/devices/platform/cpld/reg_rp_reset_control"
# need to rework into simple open,write,close
corecmd_exec_shell(polaris_tamd_rp_t)

# LOOK AT ME access should be restricted after /flash/dummy_check is removed,
# which is tracked under CSCvh68866. Allow access to bootflash till then.
polaris_bootflash_read(polaris_tamd_rp_t)

optional_policy(
    # Allow /dev/dmammap access
    polaris_dmammap_dev_use(polaris_tamd_rp_t)
')

# LOOK AT ME: /dev/mem access restriction
polaris_dev_mem_use(polaris_tamd_rp_t)

optional_policy(
    polaris_ngwc_shm_manage(polaris_tamd_rp_t)
')

optional_policy(
    polaris_remap_mem_dev_use(polaris_tamd_rp_t)
')

polaris_cpld_dev_use(polaris_tamd_rp_t)
optional_policy(
    # allow access to /sys/devices/virtual/misc/gpio/gpio_out_assert
    polaris_gpio_dev_read_write(polaris_tamdrp_t)
)

optional_policy(
    polaris_quake_i2c_manage(polaris_tamdrp_t)
)

# /dev/aikido access
polaris_aikido_dev_use(polaris_tamdrp_t)

# tamlib debug file access
polaris_tamlib_dbg_file_manage(polaris_tamdrp_t)

# tam gpio sysfs access
optional_policy(
    dev_rw_sysfs(polaris_tamdrp_t)
)

ifdef(`petra_platform',`
    # allow access to /dev/i2c-0 for hash value
    polaris_i2c_use(polaris_tamdrp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.te
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#
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#
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#

/usr/bin/ols/conf/sort_files_by_inode.sh -- gen_context(system_u:object_r:polaris_sort_files_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.fc
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#
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#
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policy_module(polariscedgestart, 1.0);

gen_require(
    type polaris_cedge_start_t;
)

polaris_chasfs_manage(polaris_cedge_start_t)
polaris_boot_tmp_read(polaris_cedge_start_t)
polaris_bootflash_manage(polaris_cedge_start_t)
polaris_cpld_read(polaris_cedge_start_t)
polaris_flashlib_read(polaris_cedge_start_t)
polaris_rmonbifo_tmp_read(polaris_cedge_start_t)
polaris_btrace_tmppub_read(polaris_cedge_start_t)

# needed by install_util.sh
polaris_read_packages_conf(polaris_cedge_start_t)

corecmd_exec_bin(polaris_cedge_start_t)
corecmd_exec_shell(polaris_cedge_start_t)
auth_use_nsswitch(polaris_cedge_start_t)

polaris_dmi_ports_fetch_domtrans(polaris_cedge_start_t)

# runs ps -C cfgmgr -o pid=
# ps needs access to proc_t
kernel_read_system_state(polaris_cedge_start_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_cedge_start_t)
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_cedge_start_t)

# runs vip-confd-startup.sh needs transition into polaris_confd_t domain
polaris_confd_domtrans(polaris_cedge_start_t)

# runs systemctl start logrotate.service
systemd_exec_systemctl(polaris_cedge_start_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_cedge_start_t)

# runs install_assist.sh
polaris_install_engine_domtrans(polaris_cedge_start_t)

# write /bootflash/.installer/images/pkg_boot_17.3.01/version
polaris_disk_install_manage(polaris_cedge_start_t)
gen_require(
    type polaris_disk_install_t;
"
)  
# du -s /bootflash/.installer/images/pkg_boot_17.3.01/confd0/cdb
# allow polaris_cedge_start_t polaris_disk_install_t:filesystem getattr;

# chown -R binos /bootflash/sdwan
fs_getattr_xattr_fs(polaris_cedge_start_t)

allow polaris_cedge_start_t self:capability { chown fowner net_admin };

# PLEASE LOOK AT ME cedge_start.sh modifies set of directories that 
# are supposed to be read only, like usr_t, etc_t, root_t
files_rw_usr_dirs(polaris_cedge_start_t)

gen_require(
    type usr_t;
"
)  
manage_lnk_files_pattern(polaris_cedge_start_t, usr_t, usr_t)

libs_manage_lib_dirs(polaris_cedge_start_t)

gen_require(
    type lib_t;
"
)  
manage_lnk_files_pattern(polaris_cedge_start_t, lib_t, lib_t)

files_manage_etc_symlinks(polaris_cedge_start_t)
files_manage_var_symlinks(polaris_cedge_start_t)

# creates /home directory in root


# PLEASE LOOK AT ME copy unit files into /lib/systemd/system

# cp /tmp/sw/rp/0/0/rp_daemons/mount/lib/systemd/system/logrotate.service /lib/systemd/system

# PLEASE LOOK AT ME need to have separate label for logrotate.service
# allow only to start if, do it once copy of logrotate.service is fixed
systemd_config_generic_services(polaris_cedge_start_t)
init_start(polaris_cedge_start_t)

# creates /var/log/confd
polaris_confd_var_log_manage(polaris_cedge_start_t)

# executes touch /etc/resolv.conf for case when it is missing
# check create_etc_resolv_conf make sure that it becomes net_conf_t
gen_require(
  type net_conf_t;
)
files_etc_filetrans(polaris_cedge_start_t, net_conf_t, file, "resolv.conf")
sysnet_create_config(polaris_cedge_start_t)
sysnet_write_config(polaris_cedge_start_t)

# creates /var/confd0 when box boots with startup config disabled
polaris_confd_var_filetrans(polaris_cedge_start_t, dir, "confd0")
polaris_confd_var_dir_manage(polaris_cedge_start_t)

########################################################################################
# During controller-mode enablement/bringup,
# viptela scripts are not loaded as part of the base packages.
# viptela-start.sh script takes care of creating these references.
# It creates softlink copies them as below to desired location depending on the packaging (mono vs subpackage).
# "cp $PKG_PATH/lib/systemd/system/logrotate.service /lib/systemd/system"
# Below policy statement allow copy access needed for viptela-logrotate.sh
# for updating /lib/systemd/system and /usr/binos/conf path
write_files_pattern(polaris_cedge_start_t, systemd_unit_file_t, systemd_unit_file_t)

# While creating softlink as below
# "ln -sf $PKG_PATH/usr/binos/conf/viptela-logrotate.sh /usr/binos/conf/viptela-logrotate.sh"
# As the ln command tries to create the new link, it removes the already existing link.
# ln deletes the file associated with the path name if this path name is the last link to the file.
# If ln can't get rid of the conflicting path name, it does not attempt to establish the new link.
# If ln successfully removes the conflicting path name, it then establishes the link.
# delete file permissions are hence needed for ln command to perform unlinking previous link
files_delete_etc_files(polaris_cedge_start_t)

########################################################################################
# During cEdge upgrade, viptela-start.sh needs permissions to maintain the
# state of roll back timer in /bootflash/.rollback_timer/*
polaris_rbtimer_bootflash_manage(polaris_cedge_start_t)

#Nutella-XE - Vedge image install
#/bin/bash /tmp/sw/rp/0/0/rp_security/mount/usr/binos/conf/viptela-start.sh
mount_domtrans(polaris_cedge_start_t)
1.2214 jaeger-thrift 1.6.0

1.2214.1 Available under license:

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jar/io/jaegertracing/thrift/internal/senders/HttpSender.java
* /opt/cola/permits/1177915129_1646092917.68/0/jaeger-thrift-1-6-0-sources-
jar/io/jaegertracing/thrift/internal/reporters/protocols/JaegerThriftSpanConverter.java
* /opt/cola/permits/1177915129_1646092917.68/0/jaeger-thrift-1-6-0-sources-
jar/io/jaegertracing/thrift/internal/senders/UdpSender.java
* /opt/cola/permits/1177915129_1646092917.68/0/jaeger-thrift-1-6-0-sources-
jar/io/jaegertracing/thrift/internal/senders/ThriftSender.java

1.2215 bsf-all 3.0.0.wso2v5

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Found in path(s):
* /opt/cola/permits/1362376742_1657710653.8776984/0/bsf-all-3-0-0-wso2v5-jar-zip/bsf-all-3-0-0-wso2v5-
jar/META-INF/maven/org.apache.bsf.wso2/bsf-all/pom.xml

1.2216 object.getownpropertydescriptors

2.1.4

1.2216.1 Available under license :

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<!- $Id: lwres_getrrsetbyname.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

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</refentryinfo>
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<manvolnum>3</manvolnum>
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</refmeta>
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<refname>lwres_getrrsetbyname</refname>
<refname>lwres_freerrset</refname>
<refpurpose>retrieve DNS records</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include &lt;lwres/netdb.h&gt;</funcsynopsisinfo>
<funcprototype>
<funcdef>
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<function>lwres_getrrsetbyname</function></funcdef>
<paramdef>const char *hostname</paramdef>
<paramdef>unsigned int rdclass</paramdef>
<paramdef>unsigned int rdtype</paramdef>
<paramdef>unsigned int flags</paramdef>
<paramdef>struct rrsetinfo **res</paramdef>
</funcprototype>
</funcsynopsis>
<funcprototype>
<funcdef>
void
<function>lwres_freerrset</function></funcdef>
</funcsynopsis>
</refsynopsisdiv>
</refentry>
The following structures are used:

```c
struct  rdatainfo {
    unsigned int  rdi_length;  /* length of data */
    unsigned char  *rdi_data;   /* record data */
};

struct  rrsetinfo {
    unsigned int  rri_flags;   /* RRSET_VALIDATED... */
    unsigned int  rri_rdclass; /* class number */
    unsigned int  rri_rdtype;  /* RR type number */
    unsigned int  rri_ttl;     /* time to live */
    unsigned int  rri_nrdatas; /* size of rdatas array */
    unsigned int  rri_nsigs;   /* size of sigs array */
    char          *rri_name;    /* canonical name */
    struct rdatainfo  *rri_rdatas; /* individual records */
    struct rdatainfo  *rri_sigs;  /* individual signatures */
};
```

After a successful call to `lwres_getrrsetbyname()`,

and

The `hostname` parameter is a pointer to null-terminated string. The `flags` field is currently unused and must be zero.

After a successful call to `lwres_getrrsetbyname()`,
is a pointer to an `rrsetinfo` structure, containing a list of one or more `rdatainfo` structures containing resource records and potentially another list of `rdatainfo` structures containing SIG resource records associated with those records.

The members

- `<constant>ri_rclass</constant>`
- `<constant>ri_rdtype</constant>`
- `<constant>ri_ttl</constant>`
- `<constant>ri_name</constant>`

are copied from the parameters.

- `<constant>ri_rdatas</constant>`
- `<constant>ri_sigs</constant>`

are in uncompressed DNS wire format.

Properties of the rdataset are represented in the `<constant>ri_flags</constant>` bitfield. If the RRSET_VALIDATED bit is set, the data has been DNSSEC validated and the signatures verified.

All of the information returned by

- `<function>lwres_getrrsetbyname()</function>`

is dynamically allocated: the
- `<constant>rrsetinfo</constant>`
- `<constant>rdatainfo</constant>`

structures, and the canonical host name strings pointed to by the
- `<constant>rrsetinfo</constant>`

Memory allocated for the dynamically allocated structures created by a successful call to

- `<function>lwres_getrrsetbyname()</function>`

is released by

- `<function>lwres_freerrset()</function>`.

is a pointer to a
<type>struct rrset</type> created by a call to
<function>lwres_getrrsetbyname()</function>.

</para>
<para>
</para>
</refsect1>
<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_getrrsetbyname()</function> returns zero on success, and one of the following error
codes if an error occurred:
<variablelist>

<varlistentry><term><constant>ERRSET_NONAME</constant></term>
</varlistentry>
<listitem><para>
the name does not exist
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_NODATA</constant></term>
</varlistentry>
<listitem><para>
the name exists, but does not have data of the desired type
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_NOMEMORY</constant></term>
</varlistentry>
<listitem><para>
memory could not be allocated
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_INVAL</constant></term>
</varlistentry>
<listitem><para>
a parameter is invalid
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_FAIL</constant></term>
</varlistentry>
<listitem><para>
other failure
</para></listitem></varlistentry>

</variablelist>
</para>
</para>
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/memcluster.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/heap.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/heap.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/list.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/cygwin/include/ansi_realloc.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/memcluster.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/assertions.c

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</table>

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```
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" 
" The following six UNCOMMENTED lines are required.
" Os OPERATING_SYSTEM [version/release]
" Dt DOCUMENT_TITLE [section number] [volume]
" The following requests should be uncommented and
" used where appropriate. This next request is
" for sections 2 and 3 function return values only.
" This next request is for sections 1, 6, 7 & 8 only
```
**ENVIRONMENT**

This next request is for sections 1, 6, 7 & 8 only

(command return values (to shell) and

fprintf(stderr type diagnostics)

**DIAGNOSTICS**

The next request is for sections 2 and 3 error

and signal handling only.

**STANDARDS**

**HISTORY**

**BUGS**

---

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$Id: lwres_gethostent.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/zonekey.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/refcount.h

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccfg/namedconf.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccfg/include/isccfg/grammar.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/ds.c

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<!-- $Id: lwres_resutil.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>

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</refentryinfo>

<refmeta>
<refentrytitle>lwres_resutil</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_string_parse</refname>
<refname>lwres_addr_parse</refname>
<refname>lwres_getaddrsbyname</refname>
<refname>lwres_getnamebyaddr</refname>
<refpurpose>lightweight resolver utility functions</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;
</funcsynopsisinfo>
<funcprototype>

lwres_result_t

<function>lwres_string_parse</function>

@paramdef>lwres_buffer_t *b</paramdef>
@paramdef>char **c</paramdef>
@paramdef>lwres_uint16_t *len</paramdef>
</funcprototype>
<funcprototype>

lwres_result_t

<function>lwres_addr_parse</function>

@paramdef>lwres_buffer_t *b</paramdef>
@paramdef>lwres_addr_t *addr</paramdef>
</funcprototype>
<funcprototype>

lwres_result_t

</refentry>
<function>lwres_getaddrsbyname</function>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsect1>
<title>DESCRIPTION</title>

<para>
<function>lwres_string_parse()</function> retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer
<parameter>b</parameter>: i.e. <constant>b-&gt;current</constant>. When the function returns, the address of the first byte of the encoded string is returned via <parameter>*c</parameter> and the length of that string is given by <parameter>*len</parameter>. The buffer's current pointer is advanced to point at the character following the string length, the encoded string, and the trailing <type>NULL</type> character.
</para>

<para>
<function>lwres_addr_parse()</function> extracts an address from the buffer <parameter>b</parameter>. The buffer's current pointer <constant>b-&gt;current</constant> is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to <constant>addr-&gt;address</constant> and <constant>addr-&gt;length</constant> indicates the size in bytes of the address that was copied. <constant>b-&gt;current</constant> is advanced to point at the next byte of available data in the buffer following the encoded address.
</para>

<para>
<function>lwres_getaddrsbyname()</function>
and
<function>lwres_getnamebyaddr()</function>
use the
<typename>lwres_gnbaresponse_t</typename>
structure defined below:
<programlisting>
typedef struct {
    lwres_uint32_t  flags;
    lwres_uint16_t  naliases;
    lwres_uint16_t  naddrs;
    char           *realname;
    char          **aliases;
    lwres_uint16_t  realnamelen;
    lwres_uint16_t  *aliaslen;
    lwres_addrlist_t  addrs;
    void           *base;
    size_t         baselen;
} lwres_gnbaresponse_t;
</programlisting>
The contents of this structure are not manipulated directly but
they are controlled through the
<citerefentry>
<refentrytitle>lwres_gnba</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
functions.
</para>

<para>
The lightweight resolver uses
<function>lwres_getaddrsbyname()</function> to perform forward lookups.
Hostname <parameter>name</parameter> is looked up using the resolver
context <parameter>ctx</parameter> for memory allocation.
<parameter>addrtypes</parameter> is a bitmask indicating which type of
addresses are to be looked up. Current values for this bitmask are
<type>LWRES_ADDRTYPE_V4</type> for IPv4 addresses and
<type>LWRES_ADDRTYPE_V6</type> for IPv6 addresses. Results of the
lookup are returned in <parameter>*structp</parameter>.
</para>

<para>
<function>lwres_getnamebyaddr()</function> performs reverse lookups.
Resolver context <parameter>ctx</parameter> is used for memory
allocation. The address type is indicated by
<parameter>addrtype</parameter>: <type>LWRES_ADDRTYPE_V4</type> or
<type>LWRES_ADDRTYPE_V6</type>. The address to be looked up is given
by <parameter>addr</parameter> and its length is
<parameter>addrlen</parameter> bytes. The result of the function call is made available through <parameter>*structp</parameter>.

<refsect1>
<title>RETURN VALUES</title>

Successful calls to <function>lwres_string_parse()</function> and <function>lwres_addr_parse()</function> return <errorcode>LWRES_R_SUCCESS.</errorcode> Both functions return <errorcode>LWRES_R_FAILURE</errorcode> if the buffer is corrupt or <errorcode>LWRES_R_UNEXPECTEDEND</errorcode> if the buffer has less space than expected for the components of the encoded string or address.

<para>
成功的调用lwres_getaddrsbyname()返回 <errorcode>LWRES_R_SUCCESS</errorcode>。如果函数返回 <errorcode>LWRES_R_NOTFOUND</errorcode>，则是由于hostname <parameter>name</parameter>未被找到。

<para>
成功调用lwres_getnamebyaddr()返回 <errorcode>LWRES_R_SUCCESS</errorcode>。当内存分配请求失败时，函数返回 <errorcode>LWRES_R_NOMEMORY</errorcode>，如果用于发送查询和接收回复的缓冲区太小。

Both <function>lwres_getaddrsbyname()</function> and <function>lwres_getnamebyaddr()</function> return <errorcode>LWRES_R_NOMEMORY</errorcode> when memory allocation requests fail and <errorcode>LWRES_R_UNEXPECTEDEND</errorcode> if the buffers used for sending queries and receiving replies are too small.
SEE ALSO

lwres_buffer
lwres_gabn

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/* $Id: lwres_getaddrinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp $ */

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/gen.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/rdata.h
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/rcode.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/task.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/types.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/name.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/socket.c
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$Id: lwres_resutil.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

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<refentry>

<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

<refmeta>
<refentrytitle>lwres_getaddrinfo</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_getaddrinfo</refname>
<refname>lwres_freeaddrinfo</refname>
<refpurpose>socket address structure to host and service name</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/netdb.h&gt;
</funcsynopsis>
</refsynopsisdiv>

<funcdef>
int
</funcdef>

<int>lwres_getaddrinfo</int>
If the operating system does not provide a
<type>struct addrinfo</type>,
the following structure is used:

<programlisting>
struct addrinfo {
    int ai_flags; /**< AI_PASSIVE, AI_CANONNAME */
    int ai_family; /**< PF_xxx */
    int ai_socktype; /**< SOCK_xxx */
    int ai_protocol; /**< 0 or IPPROTO_xxx for IPv4 and IPv6 */
    size_t ai_addrlen; /**< length of ai_addr */
    char *ai_canonname; /**< canonical name for hostname */
    struct sockaddr *ai_addr; /**< binary address */
    struct addrinfo *ai_next; /**< next structure in linked list */
};
</programlisting>
<parameter>servname</parameter>
are pointers to null-terminated
strings or
<type>NULL</type>.

<parameter>hostname</parameter>
is either a host name or a numeric host address string: a dotted decimal
IPv4 address or an IPv6 address.
<parameter>servname</parameter>
is either a decimal port number or a service name as listed in
<filename>/etc/services</filename>.
</para>

<para>
<parameter>hints</parameter>
is an optional pointer to a
<type>struct addrinfo</type>.  
This structure can be used to provide hints concerning the type of socket
that the caller supports or wishes to use.
The caller can supply the following structure elements in
<parameter>*hints</parameter>:

<variablelist>
  <varlistentry>
    <term><constant>ai_family</constant></term>
    <listitem>
      <para>The protocol family that should be used.  
When
      <constant>ai_family</constant>
      is set to
      <type>PF_UNSPEC</type>, 
      it means the caller will accept any protocol family supported by the
      operating system.
    </listitem>
  </varlistentry>
  <varlistentry>
    <term><constant>ai_socktype</constant></term>
    <listitem>
      <para>denotes the type of socket &mdash;
      <type>SOCK_STREAM</type>,
      <type>SOCK_DGRAM</type>
      or
      <type>SOCK_RAW</type>
      &mdash; that is wanted.  
When
      <constant>ai_socktype</constant>
      is zero the caller will accept any socket type.
    </listitem>
  </varlistentry>
</variablelist>
<varlistentry><term><constant>ai_protocol</constant></term>
</varlistentry>
<listitem>
<para>indicates which transport protocol is wanted: IPPROTO_UDP or IPPROTO_TCP.
If 
<constant>ai_protocol</constant>
is zero the caller will accept any protocol.
</para>
</listitem>
</varlistentry>
<varlistentry><term><constant>ai_flags</constant></term>
</varlistentry>
<listitem>
<para>Flag bits.
If the 
<type>AI_CANONNAME</type> bit is set, a successful call to 
<function>lwres_getaddrinfo()</function> will return a null-terminated string containing the canonical name of the specified hostname in 
<constant>ai_canonname</constant> of the first 
<type>addrinfo</type> structure returned.
Setting the 
<type>AI_PASSIVE</type> bit indicates that the returned socket address structure is intended for used in a call to 
<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.
</para>
</listitem>
</para>
</listitem>
</varlistentry>
<listitem>
<para>When 
<constant>ai_flags</constant> does not set the 
<type>AI_PASSIVE</type> bit, the returned socket address structure will be ready.
for use in a call to
<refentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</refentry>
for a connection-oriented protocol or
<refentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</refentry>,
<refentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</refentry>,
or
<refentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</refentry>
if a connectionless protocol was chosen.
The IP address portion of the socket address structure will be
set to the loopback address if
<parameter>hostname</parameter> is a
<type>NULL</type>
pointer and
<type>AI_PASSIVE</type> is not set in
<constant>ai_flags</constant>.
</para>
If
<constant>ai_flags</constant> is set to
<type>AI_NUMERICHOST</type> it indicates that
<parameter>hostname</parameter> should be treated as a numeric string defining an IPv4 or IPv6 address
and no name resolution should be attempted.
</para>
</listitem>
</varlistentry>
</variablelist>
</para>
All other elements of the <type>struct addrinfo</type> passed
via <parameter>hints</parameter> must be zero.
A <parameter>hints</parameter> of <type>NULL</type> is treated as if the caller provided a <type>struct addrinfo</type> initialized to zero with <constant>ai_family</constant> set to <constant>PF_UNSPEC</constant>. After a successful call to <function>lwres_getaddrinfo()</function>, <parameter>*res</parameter> is a pointer to a linked list of one or more <type>addrinfo</type> structures. Each <type>struct addrinfo</type> in this list can be processed by following the <constant>ai_next</constant> pointer, until a <type>NULL</type> pointer is encountered. The three members <constant>ai_family</constant>, <constant>ai_socktype</constant>, and <constant>ai_protocol</constant> in each returned <type>addrinfo</type> structure contain the corresponding arguments for a call to <citerefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>. For each <type>addrinfo</type> structure in the list, the <constant>ai_addr</constant> member points to a filled-in socket address structure of length <constant>ai_addrlen</constant>. All of the information returned by <function>lwres_getaddrinfo()</function> is dynamically allocated: the addrinfo structures, and the socket.
address structures and canonical host name strings pointed to by the
<constant>addrinfo</constant> structures.
Memory allocated for the dynamically allocated structures created by
a successful call to
<function>lwres_getaddrinfo()</function>
is released by
<function>lwres_freeaddrinfo()</function>.
<parameter>ai</parameter>
is a pointer to a
<type>struct addrinfo</type>
created by a call to
<function>lwres_getaddrinfo()</function>.
</para>

</refsect1>

<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_getaddrinfo()</function>
returns zero on success or one of the error codes listed in
<citerefentry>
<refentrytitle>gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
if an error occurs.
If both
<parameter>hostname</parameter>
and
<parameter>servname</parameter>
are
<type>NULL</type>
<function>lwres_getaddrinfo()</function>
returns
<errorcode>EAI_NONAME</errorcode>.
</para>
</refsect1>

<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>lwres_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>RFC2133</refentrytitle>
</citerefentry>,

<citerefentry>
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.

<para>

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/sshfp_44.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/rrsig_46.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/include/isc/stat.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/ifiter_getifaddrs.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/nsec_47.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/stdlib.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/sshfp_44.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/dnskey_48.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/trsig_46.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/hash.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/portlist.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/portlist.h

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<!-- $Id: lwres_getipnode.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>

<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

<refmeta>
<refentrytitle>lwres_getipnode</refentrytitle>
</refmeta>
These functions perform thread safe, protocol independent nodename-to-address and address-to-nodename translation as defined in RFC2553.
They use a
<type>struct hostent</type>
which is defined in
<filename>namedb.h</filename>:

<programlisting>
struct hostent {
    char *h_name;        /* official name of host */
    char **h_aliases;    /* alias list */
    int h_addrtype;     /* host address type */
    int h_length;       /* length of address */
    char **h_addr_list;  /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
</programlisting>

The members of this structure are:

<varlistentry><term><constant>h_name</constant></term>
<listitem>
    The official (canonical) name of the host.
</listitem>

<varlistentry><term><constant>h_aliases</constant></term>
<listitem>
    A NULL-terminated array of alternate names (nicknames) for the host.
</listitem>

<varlistentry><term><constant>h_addrtype</constant></term>
<listitem>
    The type of address being returned - usually
    <type>PF_INET</type>
    or
    <type>PF_INET6</type>.
</listitem>

<varlistentry><term><constant>h_length</constant></term>
<listitem>
    The length of the address in bytes.
</listitem>
A null-terminated array of network addresses for the host. Host addresses are returned in network byte order.

lwres_getipnodebyname() looks up addresses of protocol family for the hostname.

The flags parameter contains ORed flag bits to specify the types of addresses that are searched for, and the types of addresses that are returned. The flag bits are:

- **AI_V4MAPPED**: This is used with an address family of AF_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.
- **AI_ALL**: This is used with an address family of AF_INET6, and causes all known addresses (IPv6 and IPv4) to be returned. If AI_V4MAPPED is also set, the IPv4 addresses are returned as mapped IPv6 addresses.
Only return an IPv6 or IPv4 address if there is an active network interface of that type. This is not currently implemented in the BIND 9 lightweight resolver, and the flag is ignored.

This default sets the flag bits.

This function performs a reverse lookup of address which is bytes long, denotes the protocol family, typically or .

releases all the memory associated with the pointer.

Any memory allocated for the , and is freed, as is the memory for the
<para>structure itself.</para>
</refsect1>
<refsect1>
<title>RETURN VALUES</title>
<para>If an error occurs,</para> <function>lwres_getipnodebyname()</function> and <function>lwres_getipnodebyaddr()</function> set <parameter>*error_num</parameter> to an appropriate error code and the function returns a <type>NULL</type> pointer.
The error codes and their meanings are defined in <filename>&lt;lwres/netdb.h&gt;</filename>:
<variablelist>
<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>
<listitem>
<para>No such host is known.</para>
</listitem>
</varlistentry>
<varlistentry><term><constant>NO_ADDRESS</constant></term>
<listitem>
<para>The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.</para>
</listitem>
</varlistentry>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
<listitem>
<para>A temporary and possibly transient error occurred, such as a failure of a server to respond. The request may succeed if retried.</para>
</listitem>
</varlistentry>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
<listitem>
<para>An unexpected failure occurred, and retrying the request is pointless.</para>
</listitem>
</varlistentry>
</variablelist>
translates these error codes to suitable error messages.

SEE ALSO

RFC2553, lwres, lwres_gethostent, lwres_getaddrinfo, lwres_getnameinfo, lwres_hstrerror.

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<!-- $Id: lwres_config.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>

<date>Jun 30, 2000</date>
</refentryinfo>

<refmeta>
<refentrytitle>lwres_config</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_conf_init</refname>
<refname>lwres_conf_clear</refname>
<refname>lwres_conf_parse</refname>
<refname>lwres_conf_print</refname>
<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;
</funcsynopsisinfo>
</funcprototype>
<funcdef>
void
<function>lwres_conf_init</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>

<funcdef>
void
<function>lwres_conf_clear</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>

<funcdef>
lwres_result_t
<function>lwres_conf_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *filename</paramdef>
</funcprototype>

<funcdef>
lwres_result_t
<function>lwres_conf_print</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>

<funcdef>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_conf_init()</function> creates an empty
<type>lwres_conf_t</type> structure for lightweight resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_clear()</function> frees up all the internal memory used by that
<type>lwres_conf_t</type>
</refsect1>
structure in resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_parse()</function>
opens the file
<parameter>filename</parameter>
and parses it to initialise the resolver context
<parameter>ctx</parameter>’s
<type>lwres_conf_t</type>
structure.
</para>
<para>
<function>lwres_conf_print()</function>
prints the
<type>lwres_conf_t</type>
structure for resolver context
<parameter>ctx</parameter>
to the
<type>FILE</type>
<parameter>fp</parameter>.
</para>
</refsect1>
<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_conf_parse()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
if it successfully read and parsed
<parameter>filename</parameter>.
It returns
<errorcode>LWRES_R_FAILURE</errorcode>
if
<parameter>filename</parameter>
could not be opened or contained incorrect
resolver statements.
</para>
<para>
<function>lwres_conf_print()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
unless an error occurred when converting the network addresses to a
numeric host address string.
If this happens, the function returns
<errorcode>LWRES_R_FAILURE</errorcode>.
</para>
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* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
*/
To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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"
" $Id: lwres_gabn.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
"

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<!-- $Id: lwres_gethostent.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_gethostent</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_gethostbyname</refname>
<refname>lwres_gethostbyname2</refname>
<refname>lwres_gethostbyaddr</refname>
<refname>lwres_gethostent</refname>
<refname>lwres_sethostent</refname>
</refnamediv>
<refname>lwres_endhostent</refname>
<refname>lwres_gethostbyname_r</refname>
<refname>lwres_gethostbyaddr_r</refname>
<refname>lwres_gethostent_r</refname>
<refname>lwres_sethostent_r</refname>
<refname>lwres_endhostent_r</refname>
<refpurpose>lightweight resolver get network host entry</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include &lt;lwres/netdb.h&gt;</funcsynopsisinfo>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname</function></funcdef>
@paramdef>const char *name</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname2</function></funcdef>
@paramdef>const char *name</paramdef>
@paramdef>int af</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr</function></funcdef>
@paramdef>const char *addr</paramdef>
@paramdef>int len</paramdef>
@paramdef>int type</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent</function></funcdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
@paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
</funcprototype>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>

struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>

struct hostent *
<function>lwres_gethostent_r</function></funcdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>

void
<function>lwres_sethostent_r</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>

void
<function>lwres_endhostent_r</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
These functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver. They are similar to the standard functions provided by most operating systems. They use a

```c
struct hostent {
    char    *h_name;        /* official name of host */
    char    **h_aliases;    /* alias list */
    int     h_addrtype;     /* host address type */
    int     h_length;       /* length of address */
    char    **h_addr_list;  /* list of addresses from name server */
};
#define h_addr  h_addr_list[0]  /* address, for backward compatibility */
```

The members of this structure are:

- **h_name**: The official (canonical) name of the host.
- **h_aliases**: A NULL-terminated array of alternate names (nicknames) for the host.
- **h_addrtype**: The type of address being returned — `PF_INET` or
<para>
The length of the address in bytes.
</para>
</listitem></varlistentry>

<varlistentry><term><constant>h_addr_list</constant></term>
<listitem>
<para>
A <type>NULL</type> terminated array of network addresses for the host.
Host addresses are returned in network byte order.
</para>
</listitem></varlistentry>

For backward compatibility with very old software,
<constant>h_addr</constant> is the first address in
<constant>h_addr_list</constant>. 
</para>
</listitem></varlistentry>
</variablelist>

<para>
<function>lwres_gethostent()</function>,
<function>lwres_sethostent()</function>,
<function>lwres_endhostent()</function>,
<function>lwres_gethostent_r()</function>,
<function>lwres_sethostent_r()</function>
and
<function>lwres_endhostent_r()</function>
provide iteration over the known host entries on systems that
provide such functionality through facilities like
<filename>/etc/hosts</filename>
or NIS. The lightweight resolver does not currently implement
these functions; it only provides them as stub functions that always
return failure.
</para>

<para>
<function>lwres_gethostbyname()</function> and
<function>lwres_gethostbyname2()</function> look up the hostname
<parameter>name</parameter>.
<function>lwres_gethostbyname()</function> always looks for an IPv4
address while <function>lwres_gethostbyname2()</function> looks for an
address of protocol family <parameter>af</parameter>: either
<type>PF_INET</type> or <type>PF_INET6</type> &mdash; IPv4 or IPV6 addresses respectively. Successful calls of the functions return a <type>struct hostent</type> for the name that was looked up. <type>NULL</type> is returned if the lookups by <function>lwres_gethostbyname()</function> or <function>lwres_gethostbyname2()</function> fail.

Reverse lookups of addresses are performed by <function>lwres_gethostbyaddr()</function>. 

<parameter>addr</parameter> is an address of length <parameter>len</parameter> bytes and protocol family <parameter>type</parameter> &mdash; <type>PF_INET</type> or <type>PF_INET6</type>

<function>lwres_gethostbyname_r()</function> is a thread-safe function for forward lookups. If an error occurs, an error code is returned in <parameter>*error</parameter>. <parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres_gethostbyname_r()</function>. 

<parameter>buf</parameter> is a buffer of length <parameter>len</parameter> bytes which is used to store the <constant>h_name</constant>, <constant>h_aliases</constant>, and <constant>h_addr_list</constant> elements of the <type>struct hostent</type> returned in <parameter>resbuf</parameter>. Successful calls to <function>lwres_gethostbyname_r()</function> return <parameter>resbuf</parameter>, which is a pointer to the <type>struct hostent</type> it created.

<function>lwres_gethostbyaddr_r()</function> is a thread-safe function that performs a reverse lookup of address <parameter>addr</parameter> which is <parameter>len</parameter> bytes long and is of protocol family <parameter>type</parameter> &mdash; <type>PF_INET</type> or <type>PF_INET6</type>. If an error occurs, the error code is returned in <parameter>*error</parameter>. The other function parameters are identical to those in <function>lwres_gethostbyname_r()</function>. <parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres_gethostbyaddr_r()</function>. 

<parameter>buf</parameter> is a buffer of length <parameter>len</parameter> bytes which is used to store the <constant>h_name</constant>, <constant>h_aliases</constant>, and <constant>h_addr_list</constant> elements of the <type>struct hostent</type> returned in <parameter>resbuf</parameter>. Successful calls to <function>lwres_gethostbyaddr_r()</function> return
<parameter>resbuf</parameter>, which is a pointer to the
<function>struct hostent()</function> it created.
</para>

</refsect1>

<refsect1>
<title>RETURN VALUES</title>
<para>
The functions
<function>lwres_gethostbyname()</function>,
<function>lwres_gethostbyname2()</function>,
<function>lwres_gethostbyaddr()</function>,
and
<function>lwres_gethostent()</function>
return NULL to indicate an error. In this case the global variable
<type>lwres_h_errno</type>
will contain one of the following error codes defined in
<filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>
<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>
</listitem>
<para>
The host or address was not found.
</para>
</varlistentry>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
</listitem>
<para>
a recoverable error occurred, e.g., a timeout.
Retrying the lookup may succeed.
</para>
</varlistentry>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
</listitem>
<para>
a non-recoverable error occurred.
</para>
</varlistentry>
<varlistentry><term><constant>NO_DATA</constant></term>
</listitem>
<para>
The name exists, but has no address information
associated with it (or vice versa in the case
of a reverse lookup). The code NO_ADDRESS
is accepted as a synonym for NO_DATA for backwards
compatibility.
translates these error codes to suitable error messages.

Successful calls to <function>lwres_gethostbyname_r()</function> and
<function>lwres_gethostbyaddr_r()</function> return
<parameter>resbuf</parameter>, a pointer to the <type>struct
hostent</type> that was initialised by these functions. They return
<type>NULL</type> if the lookups fail or if <parameter>buf</parameter>
was too small to hold the list of addresses and names referenced by
the <constant>h_name</constant>, <constant>h_aliases</constant>, and
<constant>h_addr_list</constant> elements of the <type>struct
hostent</type>. If <parameter>buf</parameter> was too small, both
<function>lwres_gethostbyname_r()</function> and
<function>lwres_gethostbyaddr_r()</function> set the global variable
<type>errno</type> to <errorcode>ERANGE</errorcode>.  

SEE ALSO
<refentry>gethostent</refentry>,
<refentry>lwres_getipnode</refentry>,
<refsect1>
<title>BUGS</title>
<para>
<function>lwres_gethostbyname()</function>,
<function>lwres_gethostbyname2()</function>,
<function>lwres_gethostbyaddr()</function>
and
<function>lwres_endhostent()</function>
are not thread safe; they return pointers to static data and provide error codes through a global variable.
Thread-safe versions for name and address lookup are provided by
<function>lwres_gethostbyname_r()</function>,
and
<function>lwres_gethostbyaddr_r()</function>
respectively.
</para>
<para>
The resolver daemon does not currently support any non-DNS name services such as
<filename>/etc/hosts</filename>
or
<type>NIS</type>,
consequently the above functions don't, either.
</para>
</refsect1>
<refentry>
<para>Found in path(s):
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/win32/condition.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/win32/include/isc/time.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/pthreads/include/isc/thread.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/win32/version.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/condition.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/win32/version.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/include/isc/time.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/win32/version.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/error.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/md_3.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/minfo_14.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/mr_9.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/mg_8.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/mr_9.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/minfo_14.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/mr_9.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/minfo_14.h
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$Id: lwres_hstrerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irp_pw.c
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-->

<!-- $Id: lwres_context.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>

<date>Jun 30, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_context</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_context_create</refname>
<refname>lwres_context_destroy</refname>
<refname>lwres_context_nextserial</refname>
<refname>lwres_context_initserial</refname>
<refname>lwres_context_freemem</refname>
<refname>lwres_context_allocmem</refname>
<refname>lwres_context_sendrecv</refname>
<refpurpose>lightweight resolver context management</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;
</funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_context_create</function></funcdef>
<paramdef>lwres_context_t **contextp</paramdef>
<paramdef>void *arg</paramdef>
<paramdef>lwres_malloc_t malloc_function</paramdef>
<paramdef>lwres_free_t free_function</paramdef>
</funcprototype>
<funcprototype>
lwres_result_t
lwres_context_destroy
lwres_context_initserial
lwres_context_nextserial
lwres_context_freemem
lwres_context_allocmem
lwres_context_sendrecv
<para>
<function>lwres_context_create()</function>
creates a
<type>lwres_context_t</type>
structure for use in lightweight resolver operations.
It holds a socket and other data needed for communicating
with a resolver daemon.
The new
<type>lwres_context_t</type>
is returned through
<parameter>contextp</parameter>,
a pointer to a
<type>lwres_context_t</type>
pointer. This
<type>lwres_context_t</type>
pointer must initially be NULL, and is modified
to point to the newly created
<type>lwres_context_t</type>.
</para>

<para>
When the lightweight resolver needs to perform dynamic memory
allocation, it will call
<parameter>malloc_function</parameter>
to allocate memory and
<parameter>free_function</parameter>
to free it. If
<parameter>malloc_function</parameter>
and
<parameter>free_function</parameter>
are NULL, memory is allocated using
.Xr malloc 3
and
<citerefentry>
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.

It is not permitted to have a NULL
<parameter>malloc_function</parameter>
and a non-NULL
<parameter>free_function</parameter>
or vice versa.
<parameter>arg</parameter>
is passed as the first parameter to the memory
allocation functions.
If
<parameter>malloc_function</parameter>
and
<parameter>free_function</parameter>
are NULL,
<parameter>arg</parameter>
is unused and should be passed as NULL.
</para>
</para>
Once memory for the structure has been allocated,
it is initialized using
<citerefentry>
<refentrytitle>lwres_conf_init</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
and returned via
<parameter>*contextp</parameter>.
</para>
</para>
<function>lwres_context_destroy()</function>
destroys a
<type>lwres_context_t</type>,
closing its socket.
<parameter>contextp</parameter> is a pointer to a pointer to the context that is to be destroyed.
The pointer will be set to NULL when the context has been destroyed.
</para>
</para>
The context holds a serial number that is used to identify resolver
request packets and associate responses with the corresponding requests.
This serial number is controlled using
<function>lwres_context_initserial()</function>
and
<function>lwres_context_nextserial()</function>. 
<function>lwres_context_initserial()</function>
sets the serial number for context
<parameter>*ctx</parameter>
to
<parameter>serial</parameter>.

<function>lwres_context_nextserial()</function>
increments the serial number and returns the previous value.
</para>
</para>
Memory for a lightweight resolver context is allocated and freed using
<function>lwres_context_allocmem()</function>
and
<function>lwres_context_freemem()</function>.
These use whatever allocations were defined when the context was
created with
<function>lwres_context_create()</function>.
<function>lwres_context_allocmem()</function> allocates
<parameter>len</parameter> bytes of memory and if successful returns a pointer to the allocated storage.
<function>lwres_context_freemem()</function> frees
<parameter>len</parameter> bytes of space starting at location
<parameter>mem</parameter>.

<para>
<para>
<function>lwres_context_sendrecv()</function> performs I/O for the context
<parameter>ctx</parameter>.
Data are read and written from the context's socket.
It writes data from
<parameter>sendbase</parameter>— typically a lightweight resolver query packet—and waits for a reply which is copied to the receive buffer at
<parameter>recvbase</parameter>.
The number of bytes that were written to this receive buffer is returned in
<parameter>*recvd_len</parameter>.

</para>
</refsect1>
</refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_context_create()</function> returns
<errorcode>LWRES_R_NOMEMORY</errorcode> if memory for the
<type>struct lwres_context</type> could not be allocated,
<errorcode>LWRES_R_SUCCESS</errorcode> otherwise.
</para>
Successful calls to the memory allocator
<function>lwres_context_allocmem()</function>
return a pointer to the start of the allocated space.
It returns NULL if memory could not be allocated.
</para>
<para>
<errorcode>LWRES_R_SUCCESS</errorcode>
is returned when
<function>lwres_context_sendrecv()</function>
completes successfully.
<errorcode>LWRES_R_IOERROR</errorcode>
is returned if an I/O error occurs and
<errorcode>LWRES_R_TIMEOUT</errorcode>
is returned if
<function>lwres_context_sendrecv()</function>
times out waiting for a response.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_conf_init</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>
</refsect1>
</refentry>

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/*
 * Get the response to 'request' by filling in 'message'.
 *
 * 'options' is passed to dns_message_parse(). See dns_message_parse()
 * for more details.
 *
 * Requires:
 *
 * 'request' is a valid request for which the caller has received the
 * completion event.
 *
 * The result code of the completion event was ISC_R_SUCCESS.
 *
 * Returns:
 *
 * ISC_R_SUCCESS
 *
 * Any result that dns_message_parse() can return.
 */

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/timer.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/fsaccess.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/resource.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/include/lwres/ipv6.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/os.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/timer.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/quota.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/stdio.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/win32/include/lwres/platform.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/nothreads/include/isc/mutex.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/lwpacket.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/nothreads/include/isc/thread.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/nothreads/thread.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/task_p.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/stats.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/lwres_grbn.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/lwbuffer.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/bit.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/include/lwres/context.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/soa.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/forward.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/hmacmd5.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/os.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/sec/dst/include/dst/gssapi.h
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/sdb.h
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 */
/*
 * SHA-1 in C
 * By Steve Reid <steve@edmweb.com>
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 *
 * Test Vectors (from FIPS PUB 180-1)
 * "abc"
 * A993E36 4706816A BA3E2571 7850C26C 9CD0D89D
 * "abcedcdefghijklmnopqrstuvwxyz" 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
 * A million repetitions of "a"
 * 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F
 */

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" $Id: memcluster.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
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"
" The following six UNCOMMENTED lines are required.
" Os OPERATING_SYSTEM [version/release]
" Dt DOCUMENT_TITLE [section number] [volume]
" This next request is for sections 1, 6, 7 & 8 only
" .Sh ENVIRONMENT
" .Sh FILES
" .Sh EXAMPLES
" This next request is for sections 1, 6, 7 & 8 only
" (command return values (to shell) and
" fprintf/stderr type diagnostics)
" .Sh DIAGNOSTICS
" The next request is for sections 2 and 3 error
" and signal handling only.
" .Sh STANDARDS
" .Sh HISTORY
" .Sh BUGS

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// "UH Universal Hashing Library"

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#
#$Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp $
# Search for machine-generated header files in the build tree,
# and for normal headers in the source tree (${top_srcdir}).
# We only need to look in OS-specific subdirectories for the
# latter case, because there are no machine-generated OS-specific
# headers.

ISC_INCLUDES = @BIND9_ISC_BUILDINCLUDE@ \
-Is[top_srcdir]/lib/isc \
-Is[top_srcdir]/lib/isc/include \n-Is[top_srcdir]/lib/isc/unix/include \n-Is[top_srcdir]/lib/isc/@ISC_THREAD_DIR@/include

ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \
-Is[top_srcdir]/lib/isccfg/include

DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \
-Is[top_srcdir]/lib/dns/include \n-Is[top_srcdir]/lib/dns/sec/dst/include

OMAPI_INCLUDES = @BIND9_OMAPI_BUILDINCLUDE@ \
-Is[top_srcdir]/lib/omapi/include

LWRES_INCLUDES = @BIND9_LWRES_BUILDINCLUDE@ \
-Is[top_srcdir]/lib/lwres/include

TEST_INCLUDES = \
-Is[top_srcdir]/lib/tests/include

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/make/includes.in

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/check.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/parseint.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/syslog.c

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; $Id: bindevt.mc,v 1.1 2004/11/03 01:39:06 abstine Exp $

MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase = 16

MessageId=0x1
Severity=Error
Facility=Application
SymbolicName=BIND_ERR_MSG
Language=English
%1

MessageId=0x2
Severity=Warning
Facility=Application
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Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccfg/include/isccfg/namedconf.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/netscope.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/win32/lwconfig.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/region.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/ds_43.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/sec/dst/dst_openssl.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/ds_43.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/order.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/apl_42.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/opcode.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/apl_42.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/win32os.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/order.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/ds.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/win32os.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/netscope.h

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$Id: lwres_gai_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/types.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/base64.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/base64.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/sexpr.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccc/include/isccc/ccmsg.h
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/time.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/result.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/mx_15.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/task.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/result.h
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/inet/nsap_addr.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/gen.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/logging.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/lcl_ng.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/resolv/res_update.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getgrent.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/lcl.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/dns_p.h
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/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp $ */

#ifndef LWRES_PLATFORM_H
#define LWRES_PLATFORM_H 1

/*****
***** Platform-dependent defines.
*****/

/ ***
*** Network.
***/

/*
* Define if this system needs the <netinet/in6.h> header file for IPv6.
*/
@LWRES_PLATFORM_NEEDINETINET6H@

/*
* Define if this system needs the <netinet6/in6.h> header file for IPv6.
*/
@LWRES_PLATFORM_NEEDINETINET6IN6H@

/*
* If sockaddrs on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
* will be defined.
*/
@LWRES_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
* will be defined.
*/
@LWRES_PLATFORM_HAVEIPV6@
/*
 * If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
 * be defined.
 */
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
 * If this system is missing in6addr_loopback,
 * LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
 */
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
 * If this system has in_addr6, rather than in6_addr,
 * LWRES_PLATFORM_HAVEINADDR6 will be defined.
 */
@LWRES_PLATFORM_HAVEINADDR6@

/*
 * Defined if unistd.h does not cause fd_set to be declared.
 */
@LWRES_PLATFORM_NEEDSYSSELECTH@

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@LWRES_PLATFORM_USEDECLSPEC@

/*
 * Defined if this system needs vsnprintf() and snprintf().
 */
@LWRES_PLATFORM_NEEDVSNPRINTF@

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@LWRES_PLATFORM_NEEDSPRINTF@

#ifndef LWRES_PLATFORM_USEDECLSPEC
#define LIBLWRES_EXTERNAL_DATA
#else
#ifdef LIBLWRES_EXPORTS
#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif
#endif /* LWRES_PLATFORM_H */

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*/ /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/port/sco42/include/sys/cdefs.h
*/ /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/port/hpux9/include/sys/cdefs.h
*/ /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/port/cygwin/include/sys/cdefs.h
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*/ /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/port/unixware20/include/sys/cdefs.h
*/ /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/port/hpux/include/sys/cdefs.h
*/ /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/port/irix/include/sys/cdefs.h
*/ /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/port/aix32/include/sys/cdefs.h
*/ /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/bind/port/sunos/include/sys/cdefs.h
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*------------------------------------------------------------------
*/
*/ eventlib definitions specific to binsos
*/
*/ January 2007, Vikram Visweswaraiyah
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" The following requests should be uncommented and
" used where appropriate. This next request is
" for sections 2 and 3 function return values only.
" This next request is for sections 1, 6, 7 & 8 only
" .Sh ENVIRONMENT
" .Sh EXAMPLES
" This next request is for sections 1, 6, 7 & 8 only
" (command return values (to shell) and
" fprintf(stderr type diagnostics)
" The next request is for sections 2 and 3 error
" and signal handling only.
" .Sh STANDARDS
" .Sh HISTORY
" .Sh BUGS
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/dbtable.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/win32/dir.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/int.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/bitstring.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/Interfaceiter.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/once.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/dbtable.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/app.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/lib.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/lib.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/msgcat.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/nls/msgcat.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/taskpool.h
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/event.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/pthreads/include/isc/mutex.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/buffer.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/null_10.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/opt_41.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/dst_internal.h
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/ratelimiter.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/tsig.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getpwent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getprotoent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/gethostent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getnetgrent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getservent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getgrent_r.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getnetent_r.c
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<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_gabn</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_gabnrequest_render</refname>
<refname>lwres_gabnresponse_render</refname>
<refname>lwres_gabnrequest_parse</refname>
<refname>lwres_gabnresponse_parse</refname>
<refname>lwres_gabnresponse_free</refname>
<refname>lwres_gabnrequest_free</refname>
<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>
</funcsynopsis>
<funcprototype>
lwres_result_t
<function>lwres_gabnrequest_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t *req</paramdef>
lwres_result_t

lwres_gabnresponse_render

lwres_gabnrequest_parse

lwres_gabnresponse_parse

lwres_gabnresponse_free

lwres_gabnrequest_free

DESCRIPTION
These are low-level routines for creating and parsing lightweight resolver name-to-address lookup request and response messages.

There are four main functions for the getaddrbyname opcode. One render function converts a getaddrbyname request structure to the lightweight resolver's canonical format. It is complemented by a parse function that converts a packet in this canonical format to a getaddrbyname request structure. Another render function converts the getaddrbyname response structure to the canonical format. This is complemented by a parse function which converts a packet in canonical format to a getaddrbyname response structure.

These structures are defined in `<lwres/lwres.h>`.

```c
#define LWRES_OPCODE_GETADDRSBYNAME 0x00010001U

typedef struct lwres_addr lwres_addr_t;
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;

typedef struct {
    lwres_uint32_t flags;
    lwres_uint32_t addrtypes;
    lwres_uint16_t namelen;
    char *name;
} lwres_gabnrequest_t;

typedef struct {
    lwres_uint32_t flags;
    lwres_uint16_t naliases;
    lwres_uint16_t naddrs;
    char *realname;
    char **aliases;
    lwres_uint16_t realnamelen;
    lwres_uint16_t *aliaslen;
    lwres_addrlist_t addrs;
    void *base;
    size_t baselen;
} lwres_gabnresponse_t;
```

These structures are shown below.
lwres_gabnrequest_render() uses resolver context
ctx to convert getaddrbyname request structure
req to canonical format.
The packet header structure
pkt is initialised and transferred to
buffer
b.

The contents of
*req are then appended to the buffer in canonical format.
lwres_gabnresponse_render() performs the same task, except it converts a getaddrbyname response structure
lwres_gabnresponse_t to the lightweight resolver's canonical format.

lwres_gabnrequest_parse() uses context
ctx to convert the contents of packet
pkt to a
lwres_gabnrequest_t structure.
Buffer
b provides space to be used for storing this structure.
When the function succeeds, the resulting
lwres_gabnrequest_t is made available through
*structp.

lwres_gabnresponse_parse() offers the same semantics as
lwres_gabnrequest_parse() except it yields a
lwres_gabnresponse_t structure.

lwres_gabnresponse_free() and
<function>lwres_gabnrequest_free()</function>
release the memory in resolver context

<parameter>ctx</parameter>
that was allocated to the
<type>lwres_gabnresponse_t</type>
or
<type>lwres_gabnrequest_t</type>
structures referenced via
<parameter>structp</parameter>.

Any memory associated with ancillary buffers and strings for those
structures is also discarded.

The getaddrbyname opcode functions
<function>lwres_gabnrequest_render()</function>,
<function>lwres_gabnresponse_render()</function>
<function>lwres_gabnrequest_parse()</function>
and
<function>lwres_gabnresponse_parse()</function>
all return
<errorcode>LWRES_R_SUCCESS</errorcode>
on success.
They return
<errorcode>LWRES_R_NOMEMORY</errorcode>
if memory allocation fails.
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>
is returned if the available space in the buffer
<parameter>b</parameter>
is too small to accommodate the packet header or the
<type>lwres_gabnrequest_t</type>
and
<type>lwres_gabnresponse_t</type>
structures.
<function>lwres_gabnrequest_parse()</function>
and
<function>lwres_gabnresponse_parse()</function>
will return
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>
if the buffer is not empty after decoding the received packet.
These functions will return
<errorcode>LWRES_R_FAILURE</errorcode>
if
<structfield>pktflags</structfield>
in the packet header structure.
<type>lwres_lwpacket_t</type>
indicate that the packet is not a response to an earlier query.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_packet</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</refsect1>
</refentry>

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This is the header file for the MD5 message-digest algorithm.
The algorithm is due to Ron Rivest. This code was
written by Colin Plumb in 1993, no copyright is claimed.
This code is in the public domain; do with it what you wish.
Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
except that you don't need to include two pages of legalese
with every copy.

To compute the message digest of a chunk of bytes, declare an
MD5Context structure, pass it to MD5Init, call MD5Update as
needed on buffers full of bytes, and then call MD5Final, which
will fill a supplied 16-byte array with the digest.
Changed so as no longer to depend on Colin Plumb's `usual.h'
header definitions; now uses stuff from dpkg's config.h
- Ian Jackson <ijackson@nyx.cs.du.edu>.
Still in the public domain.

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/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp $ */

ifndef ISC_PLATFORM_H
#define ISC_PLATFORM_H

/*****
 ***** Platform-dependent defines.
 *****/

/****
 *** Network.
 ***/

/*
 * Define if this system needs the <netinet/in6.h> header file included
 * for full IPv6 support (pretty much only UnixWare).
 */
@ISC_PLATFORM_NEEDNETINETIN6H@

/*
 * Define if this system needs the <netinet6/in6.h> header file included
 * to support in6_pkinfo (pretty much only BSD/OS).
 */
@ISC_PLATFORM_NEEDNETINET6IN6H@

/*
 * If sockaddrs on this system have an sa_len field, ISC_PLATFORM_HAVESALEN
 * will be defined.
 */
@ISC_PLATFORM_HAVESALEN@

/*
 * If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
 * will be defined.
 */
@ISC_PLATFORM_HAVEIPV6@

/*
 * If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
 * be defined.
 */
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
 * If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
 * will be defined.
 */
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
 * If this system has in6_pktinfo, ISC_PLATFORM_HAVEIN6PKTINFO will be defined.
 */
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
 * If this system has in6_addr6, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
 * will be defined.
 */
@ISC_PLATFORM_HAVEINADDR6@

/*
 * If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
 */
@ISC_PLATFORM_HAVESCOPEID@

/*
 * If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
 */
@ISC_PLATFORM_NEEDNTOP@

/*
 * If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
 */
@ISC_PLATFORM_NEEDPTON@

/*
 * If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.
 */
@ISC_PLATFORM_NEEDATON@

/*
 * If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined.
 */
/*
 * If the system needs strlcpy(), ISC_PLATFORM_NEEDSTRLCPY will be defined.
 */
@ISC_PLATFORM_NEEDSTRLCPY@

/*
 * If the system needs strlcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined.
 */
@ISC_PLATFORM_NEEDSTRLCAT@

/*
 * Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.
 */
@ISC_PLATFORM_MSGHDRFLAVOR@

/*
 * Define if PTHREAD_ONCE_INIT should be surrounded by braces to
 * prevent compiler warnings (such as with gcc on Solaris 2.8).
 */
@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*
 * Define on some UnixWare systems to fix erroneous definitions of various
 * IN6_IS_ADDR_* macros.
 */
@ISC_PLATFORM_FIXIN6ISADDR@

/***
*** Printing.
***/

/*
 * If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
 * will be defined.
 */
@ISC_PLATFORM_NEEDVSNPRINTF@

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@ISC_PLATFORM_NEEDSPRINTF@

/*
 * The printf format string modifier to use with isc_uint64_t values.
 */
@ISC_PLATFORM_QUADFORMAT@
/* Defined if we are using threads. */ @ISC_PLATFORM_USETHREADS@

/* Defined ifunistd.h does not cause fd_set to be declared. */ @ISC_PLATFORM_NEEDSYSSELECTH@

/* Type used for resource limits. */ @ISC_PLATFORM_RLIMITTYPE@

/* Define if your compiler supports "long long int". */ @ISC_PLATFORM_HAVELONGLONG@

/* Define if the system has struct lifconf which is a extended struct ifconf * for IPv6. */ @ISC_PLATFORM_HAVELIFCONF@

/* Define if the system has struct if_laddrconf which is a extended struct ifconf for IPv6. */ @ISC_PLATFORM_HAVEIF_LADDRCONF@

/* Define if the system has struct if_laddrreq. */ @ISC_PLATFORM_HAVEIF_LADDRREQ@

/* Used to control how extern data is linked; needed for Win32 platforms. */ @ISC_PLATFORM_USEDECLSPEC@

/* Define if the system supports if_nametoindex. */ @ISC_PLATFORM_HAVEIFNAMETOINDEX@
/*
 * Define if this system needs strtoul.
 */
@ISC_PLATFORM_NEEDSTRTOUL@

/*
 * Define if this system needs memmove.
 */
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#endif

#ifndef ISC_PLATFORM_USEDECLSPEC
#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#else /* ISC_PLATFORM_USEDECLSPEC */
#endif

/*
 * Tell emacs to use C mode for this file.
 */

* Local Variables:
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/*
 * eventlib.em
 *
 * Eventlib error message compiler input file
 *
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 */

/*
 * The file basename is the facility name, the name is made
 * uppercase. This file defines facility EVENTLIB
 */
module {
    description "EVENTLIB system messages";
}

errmsg HISTSUMM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
    arg {
        "int" dispatch_time "event dispatch time";
        "int" elapsed_time "event elapsed time";
        "int" hog_detected "event hog detected";
        "int" set_count "event set count since dispatch"
    }
    explanation
        "Eventlib historical summary for detected hog.";

action
"This event summary is part of a CPUHOG or TIMEHOG error, 
"providing diagnostic details useful to engineering. 
"Save this summary message along with the HOG error. ";

tac_details
  "Eventlib historical summary for detected hog.";
}

errmsg HISTELEM {
  severity err;
  category software;
  cdets_component iosxe-binos-utils;

  format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

  arg {
    "int" set_count "element set count";
    "char *" position_string "event call type";
    "char *" position_string "event condition";
    "int" set_time "element set time";
    "int" unset_time "element unset time";
    "int" hog_check "element hog check result";
    "int" caller "caller builtin return address";
    "char *" any_string "element callback render buffer";
  }

  explanation
    "Eventlib historical element for detected hog.";
}

action
"This event element is part of a CPUHOG or TIMEHOG error, 
"providing diagnostic details useful to engineering. 
"Save all element messages along with the HOG error. ";

tac_details
  "Eventlib historical element for detected hog.";
}

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/misc.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/ev_connects.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/ev_files.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/ev_timers.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/eventlib.c

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irp_ho.c

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* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/nis_ng.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/getnetent.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/irs_p.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/gen_nw.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/sco42/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/netbsd/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/nameser/ns_name.c
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* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/nameser/ns_parse.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/util.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/getpwent.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/hpux10/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/hpux/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/getservent.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/cygwin/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/dns_pw.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/nameser/ns_netint.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/unixware212/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/nis_pr.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/freebsd/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/pathnames.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/irs_data.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/hpux9/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/nis_ho.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/gen_ng.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/bsdos/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/getnetgrent.c
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* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/nis_sv.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/unixware20/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/nis_pw.c
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/irs/irs_p.h
* /opt/cola/permits/1130450060_1615189005.74/lib-tar/bind/port/inet/inet_pton.c
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 * BINOS specific changes to associate memcluster with an evctx
 * 
 * March 2014, Aswin Kuppusami
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" $Id: lwres_context.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_context.3

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AC_REVISION($Revision: 1.1 $)

AC_INIT(resolv/herror.c)
AC_PREREQ(2.13)

AC_CONFIG_HEADER(config.h)

AC_CANONICAL_HOST

AC_PROG_MAKE_SET
AC_PROG_RANLIB
AC_PROG_INSTALL

AC_SUBST(STD_CINCLUDES)
AC_SUBST(STD_CDEFINES)
AC_SUBST(STD_CWARNINGS)
AC_SUBST(CCOPT)

AC_PATH_PROG(AR, ar)
ARFLAGS="cruv"
AC_SUBST(AR)
AC_SUBST(ARFLAGS)

# The POSIX ln(1) program.  Non-POSIX systems may substitute
# "copy" or something.
LN=ln
AC_SUBST(LN)

case "$AR" in
  *)
    AC_MSG_ERROR([ar program not found. Please fix your PATH to include the directory in which ar resides, or set AR in the environment with the full path to ar. ])
  ;;
 esac

#
# Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs-etags)

#
# Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
#
if test "X$ETAGS" != "X"; then
  AC_MSG_CHECKING(for Exuberant Ctags etags)
  if $ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
    AC_MSG_RESULT(yes)
    ETAGS="$ETAGS -L."
  else
    AC_MSG_RESULT(no)
  fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL, perl5 perl)
AC_SUBST(PERL)

#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
  '${prefix}/include')
    includedir="${prefix}/bind/include"
  ;;
 esac
case "$libdir" in
  '${prefix}/lib')
    libcdir="${prefix}/bind/lib"
  ;;
 esac
libdir='${prefix}/bind/lib'
::
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
  /*)
    ;;
  *)
    #
    # Not all systems have dirname.
    #
    changequote(, )
    ac_dir="" echo "$INSTALL" | sed 's%/%[^/]*$%%'
    changequote([, ])
    ac_prog="" echo "$INSTALL" | sed 's%/%[^/]*$%%'
    test "$ac_dir" = "$ac_prog" && ac_dir=.
    test -d "$ac_dir" && ac_dir="" (cd "$ac_dir" && pwd)
    INSTALL="" "$ac_dir"/"" "$ac_prog"
    ;;
esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found.  The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "$XCC" = "X" ; then
case "$host" in
  *-dec-osf*)
    CC="cc"
    ;;
  *-solaris*)
    # Use Sun's cc if it is available, but watch
    # out for /usr/ucb/cc; it will never be the right
    # compiler to use.
    #
# If setting CC here fails, the AC_PROG_CC done
# below might still find gcc.
IFS="${IFS=}"; ac_save_ifs="IFS"; IFS="":
for ac_dir in $PATH; do
test -z "$ac_dir" && ac_dir=.
case "$ac_dir" in
/usr/ucb)
  # exclude
  ;;
  *)
if test -f "$ac_dir/cc"; then
  CC="$ac_dir/cc"
  break
fi
::
esac
done
IFS="$ac_save_ifs"
::
*.-hp-hpux*)
  CC="cc"
::
mips-sgi-irix*)
  CC="cc"
::
esac
fi

AC_PROG_CC

AC_HEADER_STDC

AC_CHECK_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/socket.h sys/select.h sys/timers.h)

AC_C_CONST
AC_C_INLINE
AC_TYPE_SIZE_T
AC_HEADER_TIME
#
# check if we need to #include sys/select.h explicitly
#
case $ac_cv_header_unistd_h in
  yes)
  AC_MSG_CHECKING(if unistd.h defines fd_set)
  AC_TRY_COMPILE([
#include <unistd.h>
[fd_set read_set; return (0);]

[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDSYSSELECTH="#undef ISC_PLATFORM_NEEDSYSSELECTH"
],
[AC_MSG_RESULT(no)
case ac_cv_header_sys_select_h in
yes)
ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
;;
no)
AC_MSG_ERROR([need either working unistd.h or sys/select.h])
;;
esac
])
;;
no)
case ac_cv_header_sys_select_h in
yes)
ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
;;
no)
AC_MSG_ERROR([need either unistd.h or sys/select.h])
;;
esac
;;
esac
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)

# # Find the machine's endian flavor. #
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-grBuild ....],
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
yes) WANT_IRS_GR="#define WANT_IRS_GR 1"

WANT_IRS_GR_OBJS="$(WANT_IRS_GR_OBJS)"
;;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pwBuild ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
    WANT_IRS_PW_OBJS="\${WANT_IRS_PW_OBJS}";;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nisBuild ....],
    want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
    yes)
    WANT_IRS_NIS="#define WANT_IRS_NIS 1"
    WANT_IRS_NIS_OBJS="\${WANT_IRS_NIS_OBJS}""
    *)
    WANT_IRS_NIS_OBJS="";;
esac
case "$want_irs_gr" in
    yes)
    WANT_IRS_NISGR_OBJS="\${WANT_IRS_NISGR_OBJS}""
    *)
    WANT_IRS_NISGR_OBJS="";;
esac
case "$want_irs_pw" in
    yes)
    WANT_IRS_NISPW_OBJS="\${WANT_IRS_NISPW_OBJS}""
    *)
    WANT_IRS_NISPW_OBJS="";;
esac
; ;
; )
WANT_IRS_NIS="#undef WANT_IRS_NIS"
WANT_IRS_NIS_OBJS=""
WANT_IRS_NISGR_OBJS=""
WANT_IRS_NISPW_OBJS="";;
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
    #ifdef HAVE_DB_H
    int have_db_h = 1;
    #else
    int have_db_h = 0;
    #endif
    main() { return(!have_db_h); }
],
    WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}""
    WANT_IRS_DBPW_OBJS=""
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
  use_randomdev="$withval", use_randomdev="unspec")

case "$use_randomdev" in
  unspec)
    case "$host" in
      *-openbsd*)
      devrandom=/dev/srandom
      ;;
      *)
      devrandom=/dev/random
      ;;
esac
  AC_MSG_RESULT($devrandom)
  AC_CHECK_FILE($devrandom,
    AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
      "$devrandom"),)
  ;;
  yes)
  AC_MSG_ERROR([--with-randomdev must specify a path])
  ;;
  *)
  AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
  AC_MSG_RESULT(using "$use_randomdev")
  ;;
esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[ --disable-threads	disable multithreading],
  case "$enable_threads" in
    yes|'')
    use_threads=true
  ;;
  esac
  AC_MSG_RESULT(yes)
  use_threads=true
  AC_DEFINE_UNQUOTED(THREADS, "$enable_threads")
  AC_MSG_RESULT(effective "$enable_threads")
  ;
  yes)
  AC_MSG_ERROR([--disable-threads must specify a value])
  ;
  *)
  AC_DEFINE_UNQUOTED(THREADS, "$enable_threads")
  AC_MSG_RESULT(effective "$enable_threads")
  ;
esac


if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
case "$host" in
  *-netbsd*)
    # NetBSD has multiple pthreads implementations. The
    # recommended one to use is "unproven-pthreads". The
    # older "mit-pthreads" may also work on some NetBSD
    # versions. The PTL2 thread library does not
    # currently work with bind9, but can be chosen with
    # the --with-ptl2 option for those who wish to
    # experiment with it.
    CC="gcc"
    AC_MSG_CHECKING(which NetBSD thread library to use)

    AC_ARG_WITH(ptl2,
      [ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental),
        use_ptl2="$withval", use_ptl2="no" ]
      : '${LOCALBASE:=/usr/pkg}'

      if test "X$use_ptl2" = "Xyes"
      then
        AC_MSG_RESULT(PTL2)
        AC_MSG_WARN([linking with PTL2 is highly experimental and not expected to work])
        CC=ptlgcc
      else
        if test ! -d $LOCALBASE/pthreads
        then
          AC_MSG_RESULT(none)
          use_threads=false
        fi
      fi
    )
  esac
endif

if $use_threads
then

AC_MSG_RESULT(no)
use_threads=false

AC_MSG_ERROR([--enable-threads takes yes or no])

esac
AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
pkg="SLOCALBASE/pthreads"
lib1="-L$pkg/lib -lw1 -R$pkg/lib"
lib2="-lpthread -lm -lgcc -lpthread"
LIBS="$lib1 $lib2 $LIBS"
CPPFLAGS="$CPPFLAGS -I$pkg/include"
STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
fi
fi
::*
*)
AC_CHECK_LIB(pthread, pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create_system,,
AC_CHECK_LIB(c_r, pthread_create,,
AC_CHECK_LIB(c, pthread_create,,
use_threads=false))))
::
esac
fi
if $use_threads
then
#
# We'd like to use sigwait() too
#
AC_CHECK_LIB(c, sigwait,
   AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, sigwait,
   AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, _Psigwait,
   AC_DEFINE(HAVE_SIGWAIT),))
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
   AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)
#
# Additional OS-specific issues related to pthreads and sigwait.
#
case "$host" in
#
# One more place to look for sigwait.
#
*-*freebsd*)
AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
::
#
# BSDI 3.0 through 4.0.1 needs pthread_init() to be
called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*-bsd3.*|*-bsd4.0*)
AC_DEFINE(NEED_PTHREAD_INIT)
;;
#
# LinuxThreads requires some changes to the way we
deal with signals.
#
*-linux*)
AC_DEFINE(HAVE_LINUXTHREADS)
;;
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*-solaris*)
AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
AC_CHECK_FUNC(pthread_setconcurrency,
   AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
AC_DEFINE(POSIX_GETPWUID_R)
AC_DEFINE(POSIX_GETPWNAM_R)
AC_DEFINE(POSIX_GETGGRPID_R)
AC_DEFINE(POSIX_GETGRNAM_R)
;;
*hpx11*)
AC_DEFINE(_PTHREADS_DRAFT4)
;;
#
# UnixWare does things its own way.
#
*-UnixWare*)
AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
;;
esac

#
# Look for sysconf to allow detection of the number of processors.
#
ACHECK_FUNC(sysconf, AC_DEFINE(HAVE_SYSCONF),)

if test "X$GCC" = "Xyes"; then
case "$host" in
  *-freebsd*)
    CC="$CC -pthread"
    CCOPT="$CCOPT -pthread"
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
::*-openbsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
::*-solaris*)
LIBS="$LIBS -lthread"
::*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
::
esac
else
case $host in
*--dec-osf*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
::*-solaris*)
CC="$CC -mt"
CCOPT="$CCOPT -mt"
::*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
::*-UnixWare*)
CC="$CC -Kthread"
CCOPT="$CCOPT -Kthread"
::
esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="${WANT_IRS_THREADSGR_OBJS}"
WANT_IRS_THREADSPW_OBJS="${WANT_IRS_THREADSPW_OBJS}"
WANT_IRS_THREADS_OBJS="${WANT_IRS_THREADS_OBJS}"
thread_dir=pthreads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat, AC_DEFINE(HAVE_STRLCAT))
AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(Do_pthreads)
AC_SUBST(Want_irs_threadsg_r_objs)
AC_SUBST(Want_irs_threadspw_objs)
AC_SUBST(Want_irs_threads_objs)

AC_CHECK_FUNC(if_nametoindex, 
[Use_ifnamelinkid="#define USE_IFNAMELINKID 1"],
[Use_ifnamelinkid="#undef USE_IFNAMELINKID"]
AC_SUBST(Use_ifnamelinkid)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon, 
[Daemon_objs="" NeedDaemon="#undef NEED_DAEMON"]
,
[Daemon_objs="$[DAEMON_OBJS]" NeedDaemon="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep, 
[Strsep_objs="" NeedStrsep="#undef NEED_STRSEP"]
,
[Strsep_objs="$[STRSEP_OBJS]" NeedStrsep="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)
AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],
[NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)

#
# flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.
#
AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

#
# Indicate what the final decision was regarding threads.
#
AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
AC_MSG_RESULT(yes)
else
AC_MSG_RESULT(no)
fi

#
# End of pthreads stuff.
#

#
# Additional compiler settings.
#
MKDEPCC="$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSEC_WARNINGS_HACK=""

if test "X$GCC" = "Xyes"; then
STD_CWARNINGS="$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
case $host in
  *-dec-osf*)
    CC="$CC -std"
    CCOPT="$CCOPT -std"
    MKDEPCC="$CC"
    ;;
  *-hp-hpux*)
    CC="$CC -Ae -z"
# The version of the C compiler that constantly warns about
# 'const' as well as alignment issues is unfortunately not
# able to be discerned via the version of the operating
# system, nor does cc have a version flag.
case "$CC +W 123 2>&1" in
  Unknown?option*)
    STD_CWARNINGS="+w1"
    ;;
  *)
# Turn off the pointlessly noisy warnings.
    STD_CWARNINGS="+w1 +W 474,530"
    ;;
esac
  CC="$CC -Ae -z"

CCOPT="$CCOPT -Ae -z"
LIBS="-Wl,+vnocompatwarnings $LIBS"
MKDEPPROG=cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk """"BEGIN {colon=0; rec="""";} { for (i = 0 ; i < NF; i++)
  { if (colon &;& a[Si]) continue; if ($i == \\"\") continue; if (!colon) { rec = rec " " $i continue; } if ($i == \\") { rec = rec \\":\" colon = 1 continue; } if (length(rec $i) > 76) { print rec " \\"; rec = \\"a$Si; a[Si] = 1; } else { rec = rec " $i a[Si] = 1;
  } } } END {print rec}"""">>$TMP'
MKDEPPROG=cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'
  ;;
  *-sgi-irix*)
STD_CWARNINGS="-fullwarn -woff 1209"
# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.

# IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
::
  *-solaris*)
MKDEPCFLAGS="-xM"
::
  *-UnixWare*)
CC="$CC -w"
::
esac
fi

# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
# case $host in
  *linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
::
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

# # NLS
# # AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS)),

# -lxnet buys us one big porting headache... standards, gotta love ‘em.
# # AC_CHECK_LIB(xnet, socket, ,
# #  AC_CHECK_LIB(socket, socket)
# #  AC_CHECK_LIB(nsl, inet_ntoa)
# #)
# # Use this for now, instead:
case "$host" in
    mips-sgi-irix*)
        ;;
    *)
        AC_CHECK_LIB(d4r, gethostbyname_r)
        AC_CHECK_LIB(socket, socket)
        AC_CHECK_LIB(nsl, inet_ntoa)
        ;;
        esac
#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
    [  --with-purify[=PATH] use Rational purify],
    use_purify="$withval", use_purify="no")

case "$use_purify" in
    no)
        ;;
    yes)
AC_PATH_PROG(purify_path, purify, purify)
        ;;
    *)
        purify_path="$use_purify"
        ;;
        esac

case "$use_purify" in
    no)
        AC_MSG_RESULT(no)
        PURIFY=""
        ;;
    *)
        if test -f $purify_path || test $purify_path = purify; then
            AC_MSG_RESULT($purify_path)
            PURIFYFLAGS="`echo $PURIFYOPTIONS`"
            PURIFY="$purify_path $PURIFYFLAGS"
        else
            AC_MSG_ERROR([$purify_path not found. Please choose the proper path with the following command:]

                configure --with-purify=PATH
            )
        fi
        ;;

Please choose the proper path with the following command:
esac

AC_SUBST(PURIFY)

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
  [ --with-libtool=use GNU libtool (following indented options supported)],
  use_libtool="$withval", use_libtool="no")

case $use_libtool in
  yes)
    AM_PROG_LIBTOOL
    O=lo
    A=la
    LIBTOOL_MKDEP_SED='s;\o;\lo;'
    LIBTOOL_MODE_COMPILE='--mode=compile'
    LIBTOOL_MODE_INSTALL='--mode=install'
    LIBTOOL_MODE_LINK='--mode=link'
    ::
    *)
    O=o
    A=a
    LIBTOOL=
    AC_SUBST(LIBTOOL)
    LIBTOOL_MKDEP_SED=
    LIBTOOL_MODE_COMPILE=
    LIBTOOL_MODE_INSTALL=
    LIBTOOL_MODE_LINK=
    ::
    esac

#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#
#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[  --enable-ipv6		use IPv6 [default=autodetect]])

case "$enable_ipv6" in
  yes|''|autodetect)
    AC_DEFINE(WANT_IPV6)
  ;;
  no)
  ;;
    esac

# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([ #include <sys/types.h>
  #include <sys/socket.h>
  #include <netinet/in.h>],
  [struct sockaddr_in6 sin6; return (0);],
  [AC_MSG_RESULT(yes)
    found_ipv6=yes],
  [AC_MSG_RESULT(no)
    found_ipv6=no])

# See whether IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,
[  --with-kame[=PATH]	use Kame IPv6 [default path /usr/local/v6]],
  use_kame="$withval", use_kame="no")

case "$use_kame" in
  no)
    ;;
  yes)
    kame_path=/usr/local/v6
    ;;
kame_path="$use_kame"
;
esac

case "$use_kame" in
no)
   AC_MSG_RESULT(no)
   ;;
   *)
   if test -f $kame_path/lib/libinet6.a; then
      AC_MSG_RESULT($kame_path/lib/libinet6.a)
      LIBS="-L$kame_path/lib -linet6 $LIBS"
   else
      AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.])
   fi
   ;;
esac

Please choose the proper path with the following command:

   configure --with-kame=PATH

}
fi
;;
esac

# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without it -- BSD/OS 4.0 through 4.1.
# This is done before the in6_pktinfo check because that's what
# netinet6/in6.h is needed for.
#
# changequote({, })
case "$host" in
   *
   *.bsd4.[01]*)
      ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
      isc_netinet6in6_hack="#include <netinet6/in6.h>"
   ;;
   *)
      ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
      isc_netinet6in6_hack=""
   ;;
esac
changequote([, ])

# This is similar to the netinet6/in6.h issue.
#
case "$host" in
  *-UnixWare*)
    ISC_PLATFORM_NEEDINETIN6H="#define ISC_PLATFORM_NEEDINETIN6H 1"
    ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
    isc_netinetin6_hack="#include <netinet/in6.h>"
    ;;
    *)
    ISC_PLATFORM_NEEDINETIN6H="#undef ISC_PLATFORM_NEEDINETIN6H"
    ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
    isc_netinetin6_hack=""
    ;;
    esac

# Now delve deeper into the suitability of the IPv6 support.
#
# case "$found_ipv6" in
  yes)
    HAS_INET6_STRUCTS="#define HAS_INET6_STRUCTS 1"
    AC_MSG_CHECKING(for in6_addr)
    AC_TRY_COMPILE(
      [ include <sys/types.h>
      [ include <sys/socket.h>
      [ include <netinet/in.h>
      [ isc_netinetin6_hack
      [ isc_netinet6in6_hack
      ],
      [ struct in6_addr in6; return (0);],
      [ AC_MSG_RESULT(yes)
      HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
      isc_in_addr6_hack=""],
      [ AC_MSG_RESULT(no)
      HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
      isc_in_addr6_hack="#define in6_addr in_addr6"],
    ]
    AC_MSG_CHECKING(for in6addr_any)
    AC_TRY_LINK(
      [ include <sys/types.h>
      [ include <sys/socket.h>
      [ include <netinet/in.h>
      [ isc_netinetin6_hack
      [ isc_netinet6in6_hack
      [ isc_in_addr6_hack
      ],
      [ struct in6_addr in6; in6 = in6addr_any; return (0);],
      [ AC_MSG_RESULT(yes)
      NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
      ],
      [ AC_MSG_RESULT(no)
      NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"
      isc_in_addr6_hack="#define in6_addr in_addr6"],
    ]
   ]
  esac
[AC_MSG_RESULT(no)
NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1")]

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
},
[struct sockaddr_in6 xyzzy; xyzzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID"]
HAVE_SIN6_SCOPE_ID="#result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
},
[struct in6_pktinfo xyzzy; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"])

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
},
[struct sockaddr_storage xyzzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"],
[AC_MSG_RESULT(no)
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"])
::
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs to come after checking for a Kame add-on,
# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],
[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="SISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="SISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>,
[inet_pton(0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJ="$ISC_EXTRA_OBJ inet_pton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON 1"]
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>,
[struct in_addr in; inet_aton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJ="$ISC_EXTRA_OBJ inet_aton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"]
AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
  *-dec-osf*)
  # Turn on 4.4BSD style sa_len support.
  AC_DEFINE(_SOCKADDR_LEN)
  ;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>,
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)
# HAVE_MINIMUM_IFREQ

case "$host" in
  *-bsd[2345]*) have_minimum_ifreq=yes;;
  -*darwin*) have_minimum_ifreq=yes;;
  -*freebsd*) have_minimum_ifreq=yes;;
  -*lynxos*) have_minimum_ifreq=yes;;
  -*netbsd*) have_minimum_ifreq=yes;;
  -*next*) have_minimum_ifreq=yes;;
  -*openbsd*) have_minimum_ifreq=yes;;
  -*rhapsody*) have_minimum_ifreq=yes;;
  esac

case "$have_minimum_ifreq" in
  yes)
    HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
  no)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
  *)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
  esac

AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR

PORT_DIR=port/unknown

SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"

case "$host" in
  *aix3.2*) PORT_DIR="port/aix32";;
  *aix4*) PORT_DIR="port/aix4";;
  *aux3*) PORT_DIR="port/aux3";;
  -*bsd2*) PORT_DIR="port/bsdos2";;
  -*bsd*) PORT_DIR="port/bsdos";;
  -*cygwin*) PORT_DIR="port/cygwin";;
  -*darwin*) PORT_DIR="port/darwin";;
  -*osf*) PORT_DIR="port/decupni";;
  -*freebsd*) PORT_DIR="port/freebsd";;
  -*hpux9*) PORT_DIR="port/hpux9";;
  -*hpux10*) PORT_DIR="port/hpux10";;
  -*hpux11*) PORT_DIR="port/hpux";;
  -*irix*) PORT_DIR="port/irix";;
  -*linux*) PORT_DIR="port/linux";;
  -*lynxos*) PORT_DIR="port/lynxos";;
  -*mpe*) PORT_DIR="port/mpe";;
  -*netbsd*) PORT_DIR="port/netbsd";;
  -*next*) PORT_DIR="port/next";;
  -*openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.[[01234]]*)
BSD_COMP="#define BSD_COMP 1"
SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
PORT_DIR="port/solaris";;
*-solaris2.5*)
BSD_COMP="#define BSD_COMP 1"
SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
# Look for a 4.4BSD or 4.3BSD struct msghdr
#
AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)]
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"]
[AC_MSG_RESULT(4.3BSD)]
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"]
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define ISC_PLATFORM_NEEDPORTT 1"]
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"])
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for int endnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endnetent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)
AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1",
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"]
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE({
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0)];,
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1",
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"]
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE({
#include <netdb.h>],
[h_errno = 1; return(0)];,
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO",
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"]
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
   [ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],
   [ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
   [ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
   [ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
   [ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"],
   [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
   [NEED_PSELECT="#undef NEED_PSELECT"],
   [NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
   [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
   [NEED_GETTIMEOFDAY="#define NEED_GETTIMEOFDAY 1"])

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AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
    #include <sys/param.h>
    #include <sys/sysctl.h>
    #include <sys/socket.h>
    #ifdef NET_RT_IFLIST
    found_rt_iflist
    #endif
    ],
    [AC_MSG_RESULT(yes)
        AC_DEFINE(HAVE_IFLIST_SYSCTL)],
    [AC_MSG_RESULT(no)])

#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,
    [ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
    [ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
    [ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
    [ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)
AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
    [USE_SYSERROR_LIST="#undef USE_SYSERROR_LIST"],
    [USE_SYSERROR_LIST="#define USE_SYSERROR_LIST 1"])
AC_SUBST(USE_SYSERROR_LIST)

# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d".
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)]
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "l"',
[AC_MSG_RESULT(ll)]
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"',
[AC_MSG_RESULT(default ll)]
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"')
AC_SUBST(ISC_PLATFORM_QUADFORMAT)
#
# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))
#
# for accept, recvfrom, getpeername etc.
#
AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, socklen_t *);
},[
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T socklen_t"
AC_MSG_RESULT(socklen_t)]
,
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
},[
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
,
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
},[
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
,
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>

int accept(int, struct sockaddr *, long *);

ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)

ISC_SOCKLEN_T="#define ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)

AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
#include <unistd.h>
int
getcallee(const char *name, int basegid, int *groups, int *ngroups) {
}
).
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int *ngroups"
.
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
).
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgroupeent, AC_DEFINE(NEED_SETGROUPENT))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
#define _REENTRANT
#define _OSF_SOURCE
#include <netdb.h>
struct netent *
gnetbyaddr_r(long net, int type, struct netent *result, char *buffer, int buflen) {}?
).
[return (0)];,
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#define NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA"
]
AC_TRY_COMPILE(
[
 #undef _REENTRANT
#define _REENTRANT
#define __OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetbyaddr_r (unsigned long int, int, struct netent *,
  char *, size_t, struct netent **, int *);
]
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errnop"
NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long int"
NETENT_DATA="#define NETENT_DATA"
]
AC_TRY_COMPILE(
[
 #undef _REENTRANT
#define _REENTRANT
#define __OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
]
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
}
,
#define __USE_MISC

#endif

"include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
]
,
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
],
)
)
)
)
)
,
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)

case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void setnetent_r (int);
].,return (0);],[
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
[
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
].,return (0);],[
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)
)
.
.
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)
AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endnetent_r (void);
AC_TRY_COMPILE(
    [
        #undef _REENTRANT
        #define _REENTRANT
        #undef __USE_MISC
        #define __USE_MISC
        #include <netdb.h>
        extern int endnetent_r(struct netent_data *);
    ],[return (0)];,[],
    NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
    NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
    [
        #undef _REENTRANT
        #define _REENTRANT
        #undef __USE_MISC
        #define __USE_MISC
        #include <netdb.h>
        extern void endnetent_r(struct netent_data *);
    ],[return (0)];,[],
    NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
    NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))
AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
    [
        #include <grp.h>
        struct group *getgrent_r(struct group *grp, char *buffer,
             int buflen) {}
    ],[return (0)];,[


GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *
",
)
,
GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
GROUP_R_ENT_ARGS="#define GROUP_R_ENT_ARGS void"
AC_DEFINE(NEED_ENDGRENT_R)
)
AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)
AC_CHECK_FUNC(setgrent_r,
,
GROUP_R_SET_RESULT="#define GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_RETURN void"
AC_DEFINE(NEED_SETGRENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
|
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct hostent  *gethostbyname_r
(const char *name, struct hostent *hp, char *buf, int len, int *h_errno) {}
].
[return (0);],

[ return (0); ],

HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errno"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errno = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
]

, AC_TRY_COMPILE(
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
  int gethostbyname_r(const char *name,
                      struct hostent *result,
                      struct hostent_data *hdptr);
  },

HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
],

AC_TRY_COMPILE(
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
  extern int gethostbyname_r (const char *,
                               struct hostent *,
                               char *, size_t,
                               struct hostent **,
                               int *);
  },

HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errno"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errno = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
}
))
,
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errno"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errno = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE({
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
},
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
,
AC_TRY_COMPILE({
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
},
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
AC_TRY_COMPILE(
#define __REENTRANT
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
),[],

HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
),
)

HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE(
#define __REENTRANT
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);
),[],

HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"
)
AC_TRY_COMPILE(
#define __REENTRANT
#define __USE_MISC
#include <netdb.h>
extern int sethostent_r(int flag, struct hostent_data *ht_data);
),[],

HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"
)
AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE(
    #include <sys/types.h>
    #include <pwd.h>
    ],[struct passwd *pw; pw->pw_class = "";],
    AC_MSG_RESULT(yes)
    AC_DEFINE(HAS_PW_CLASS)
    ,
    AC_MSG_RESULT(no)
)

AC_TRY_COMPILE(
    #include <sys/types.h>
    #include <grp.h>
    void
    setgrent(void) {}
    ],
    [return (0);],
    SETPWENT_VOID="#define SETPWENT_VOID 1"
    ,
    SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)
SETGRENVOID="#define SETGRENVOID 1"

SETGRENVOID="#undef SETGRENVOID"

AC_SUBST(SETGRENVOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
  int getnetgrent_r(char **m, char **u, char **d, char *b, int l) {}
]
.
[return (0);],
[
  NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
  NGR_R_BAD="#define NGR_R_BAD (0)"
  NGR_R_COPY="#define NGR_R_COPY buf, buflen"
  NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
  NGR_R_OK="#define NGR_R_OK 1"
  NGR_R_RETURN="#define NGR_R_RETURN int"
]
.
AC_TRY_COMPILE(
[
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
  int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) {}
]
.
[return (0);],
[
  NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
  NGR_R_BAD="#define NGR_R_BAD (0)"
  NGR_R_COPY="#define NGR_R_COPY buf, buflen"
  NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
  NGR_R_OK="#define NGR_R_OK 1"
  NGR_R_RETURN="#define NGR_R_RETURN int"
]
.
AC_TRY_COMPILE(
[
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
extern int getnetgrent_r( char **, char **, char **, void **);


extern int getnetgrent_r( char **, char **, char **, void **);


AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(getnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"

NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)

AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
case "$host" in
  *bsd*)
    NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
    NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
    ;;
    *
    NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
    NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
    ;;
  esac

AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
  [ #undef __USE_MISC
    define __USE_MISC
    include <netdb.h>
    struct protoent *getprotoent_r(struct protoent *result,
      char *buffer, int buflen) {}
  ]

, [return (0);]

, [ PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
    PROTO_R_BAD="#define PROTO_R_BAD NULL"
    PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
    PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
    PROTO_R_OK="#define PROTO_R_OK pptr"
    PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
    PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
  ]

, AC_TRY_COMPILE(
  [ #undef __USE_MISC
    define __USE_MISC
    include <netdb.h>
int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);

[return (0);]

[PROTO_R_ARGS="\#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
PROTO_R_BAD="\#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="\#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="\#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="\#define PROTO_R_OK 0"
PROTO_R_SETANSWER="\#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="\#define PROTO_R_RETURN int"
]

[PROTO_R_ARGS="\#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="\#define PROTO_R_BAD NULL"
PROTO_R_COPY="\#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="\#define PROTO_R_COPY_ARGS buf, buflen"
PROTO_R_OK="\#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="\#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="\#define PROTO_R_RETURN struct protoent **"
]

AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]
,,
[PROTO_R_END_RESULT="\#define PROTO_R_END_RESULT(x) /*empty*/"]

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PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
)
,
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)
AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void               setprotoent_r __P((int));
],[].
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
.
)
,
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
)
AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)
AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[
#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) {} 
] [].
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"

PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
AC_DEFINE(NEED_GETPWENT_R)

AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(  
  [  
    #include <pwd.h>
    void endpwent_r(FILE **pwfp);
  ],
  PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
  PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
  PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
),
)

PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
AC_DEFINE(NEED_ENDPWENT_R)

AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,
AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,
AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE({
#include <pwd.h>
void setpwent_r(FILE **pwfp);
.
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
.
AC_TRY_COMPILE({
#include "pwd.h"
int setpwent_r(FILE **pwfp);
},
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
).
)
.
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))

AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE({
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) {} []return (0);[];
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *
[
]
AC_TRY_COMPILE({
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);
], [return (0);];

[ SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
,
,
)

SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE(
[ #undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endservent_r(void);
]
,
,
)
[ SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void"
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
]
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(
    [  
        #ifndef _REENTRANT
        #define _REENTRANT
        #ifndef __USE_MISC
        #define __USE_MISC
        #include <netdb.h>
        void            setservent_r(int);
    ]
    
    [  
        SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
        SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
    ]
    
    [  
        SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
        SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
    ]
    
    AC_SUBST(SERV_R_SET_RESULT)
    AC_SUBST(SERV_R_SET_RETURN)

    AC_TRY_COMPILE(
    [  
        #ifndef _REENTRANT
        #define _REENTRANT
        #ifndef __USE_MISC
        #define __USE_MISC
        #include <unistd.h>
        #include <netdb.h>
        int innetgr(const char *netgroup, const char *host, const char *user, const char *domain);
    ]
    
    [  
    [  
        INNETGR_ARGS="#undef INNETGR_ARGS"
AC_TRY_COMPILE( ,
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int innetgr(char *netgroup, char *host, char *user, char *domain);
]
,,
[ INNETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
] ,
))

AC_TRY_COMPILE( ,
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);
]
,,
[ SETNETGRENT_ARGS="#define SETNETGRENT_ARGS" ,
] ,
AC_TRY_COMPILE( ,
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(char *);
]
,,
[ SETNETGRENT_ARGS="#define SETNETGRENT_ARGS char *netgroup"
] )
# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
  *-bsdi3.1*)
    hack_shutup_sputaux=yes
    ;;
  *-bsdi4.0*)
    hack_shutup_sigwait=yes
    hack_shutup_sputaux=yes
    hack_shutup_in6addr_init_macros=yes
    ;;
  *-bsdi4.1*)
    hack_shutupstdargcast=yes
    ;;
  *-solaris2.8)
    hack_shutup_pthreadonceinit=yes
    hack_shutup_in6addr_init Macros=yes
    ;;
esac

case "$hack_shutup_pthreadonceinit" in
  yes)
  #
  # Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
  #
  ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"
  ;;
esac

 case "$hack_shutup_sigwait" in
   yes)
   #
   # Shut up a -Wmissing-prototypes warning for sigwait().
   #
   AC_DEFINE(SHUTUP_SIGWAIT)
   ;;
esac
case "$hack_shutup_sputaux" in
  yes)
    # Shut up a -Wmissing-prototypes warning from <stdio.h>.
    AC_DEFINE(SHUTUP_SPUTAUX)
  ;;
  esac

  case "$hack_shutup_stdargcast" in
    yes)
      # Shut up a -Wcast-qual warning from va_start().
      AC_DEFINE(SHUTUP_STDARG_CAST)
    ;;
    esac

  case "$hack_shutup_in6addr_init_macros" in
    yes)
      AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
    ;;
    esac

  # Substitutions
  #
  AC_SUBST(BIND9_TOP_BUILDDIR)
  BIND9_TOP_BUILDDIR=`pwd`

  AC_SUBST_FILE(BIND9_INCLUDES)
  BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

  AC_SUBST_FILE(BIND9_MAKE_RULES)
  BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

  . $srcdir/../../version
  BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}" 
  AC_SUBST(BIND9_VERSION)

  AC_SUBST_FILE(LIBBIND_API)
  LIBBIND_API=$srcdir/api

  AC_OUTPUT(
    make/rules
    make/mkdep
  )
make/includes
Makefile
bsd/Makefile
dst/Makefile
include/Makefile
inet/Makefile
irs/Makefile
isc/Makefile
nameser/Makefile
port_after.h
port_before.h
resolv/Makefile
port/Makefile
${PORT_DIR}/Makefile
${PORT_INCLUDE}/Makefile
)

# Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/configure.in

1.2221 lodash._basecopy 3.0.1
1.2221.1 Available under license:
No license file was found, but licenses were detected in source scan.

/**
 * lodash 3.0.1 (Custom Build) <https://lodash.com/>
 * Build: `lodash modern modularize exports="npm" -o ./`
 * Copyright 2012-2015 The Dojo Foundation <http://dojofoundation.org/>
 * Based on Underscore.js 1.8.3 <http://underscorejs.org/LICENSE>
 * Copyright 2009-2015 Jeremy Ashkenas, DocumentCloud and Investigative Reporters & Editors
 * Available under MIT license <https://lodash.com/license>
 */

Found in path(s):
* /opt/cola/permits/1136075491_1613674481.4/0/fis-components-lodash-basecopy-3-0-1-0-gf3b51bf-1-tar-gz/fis-
components-lodash._basecopy-8843e24/index.js

1.2222 go-openapi-validate 0.19.14
1.222.1 Available under license:

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1.2223 maven-repository-metadata 2.0.9

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1.2224 go-systemd 0.0.0-20190321100706-95778dfbb74e

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<td>bundle</td>
<td>apache2</td>
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1.2230 wso2-carbon-event-stream-stub 5.1.42

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Manifest-Version: 1.0
Bnd-LastModified: 1405961146472
Build-Jdk: 1.7.0_60
Built-By: magro
Bundle-Description: High performance Java reflection using code generation
Bundle-License: http://www.opensource.org/licenses/bsd-license.php
Bundle-ManifestVersion: 2
Bundle-Name: ReflectASM
Bundle-SymbolicName: com.esotericsoftware.reflectasm
Bundle-Version: 1.10.0
Created-By: Apache Maven Bundle Plugin
Export-Package: com.esotericsoftware.reflectasm;version="1.10.0"
Import-Package: org.objectweb.asm;version="[4.2.5)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.5))"
Tool: Bnd-2.3.0.201405100607

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1.2253 go-resiliency 1.2.0

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Found in path(s):
* /opt/cola/permits/1362377269_1657710706.2194169/0/step2-1-0-wso2v2-jar-zip/step2-1-0-wso2v2-jar/step2-
common-1-0-0-wso2v2-jar/META-INF/maven/com.google.step2/step2-common/pom.xml

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1362377269_1657710706.2194169/0/step2-1-0-wso2v2-jar-zip/step2-1-0-wso2v2-jar/META-
INF/maven/com.google.step2/wso2/step2/pom.xml

1.2257 spdx-correct 3.0.0
1.2257.1 Available under license :
Apache-2.0
1.2258 shebang-command 1.2.0
1.2258.1 Available under license:
   The MIT License (MIT)

   Copyright (c) Kevin Martensson <kevinmartensson@gmail.com> (github.com/kevva)

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1.2259 perl-threads 2.21 2.el8
1.2259.1 Available under license:
   No license file was found, but licenses were detected in source scan.

   ---
   abstract: 'Perl interpreter-based threads'
   author:
     - 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
   build_requires:
     ExtUtils::MakeMaker: '0'
   configure_requires:
     ExtUtils::MakeMaker: '0'
   dynamic_config: 1
   generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
   license: perl
   meta-spec:
     url: http://module-build.sourceforge.net/META-spec-v1.4.html
     version: '1.4'
   name: threads
   no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Config: '0'
  ExtUtils::testlib: '0'
  Hash::Util: '0'
  IO::File: '0'
  Test::More: '0'
  XSLoader: '0'
  overload: '0'
  strict: '0'
  warnings: '0'
version: '2.21'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
No license file was found, but licenses were detected in source scan.

License:        GPL+ or Artistic

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*

******************************************************************************

ppport.h -- Perl/Pollution/Portability Version 3.32

Automatically created by Devel::PPPort running under perl 5.022001.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

******************************************************************************

SKIP

=pod

=head1 NAME
=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>. 
If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither `--patch` or `--copy` are given, the default is to simply print the diffs for each file. This requires either `Text::Diff` or a `diff` program to be installed.

Manually set the diff program and options to use. The default is to use `Text::Diff`, when installed, and output unified context diffs.

Tell `ppport.h` to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of `ppport.h` if you intend to be backward compatible only down to a certain Perl version.

Usually, `ppport.h` will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs `ppport.h` to leave C++ comments untouched.

Be quiet. Don't print anything except fatal errors.

Don't output any diagnostic messages. Only portability alerts will be printed.
Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

Strip all script and documentation functionality from <ppport.h>.
This reduces the size of <ppport.h> dramatically and may be useful
if you want to include <ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped <ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

Lists the API elements for which compatibility is provided by
<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

Lists the API elements that are known not to be supported by
<ppport.h> and below which version of Perl they probably
won't be available or work.

Show portability information for API elements matching I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

In order for a Perl extension (XS) module to be as portable as possible
across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL
Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>mg_findext()</td>
<td>NEED_mg_findext</td>
<td>NEED_mg_findext_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontextLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontextLOBAL</td>
</tr>
<tr>
<td>sv_unmagicext()</td>
<td>NEED_sv_unmagicext</td>
<td>NEED_sv_unmagicext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C\<DPPP_NAMESPACE> macro. Just C\<#define> the macro before including C\<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C\<DPPP >.
The good thing is that most of the above can be checked by running `F<ppport.h>` on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether `F<ppport.h>` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `F<ppport.h>` can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn
Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/.

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back
For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.
=head1 COPYRIGHT
Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.
Version 2.x, Copyright (C) 2001, Paul Marquess.
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
=head1 SEE ALSO
See L<Devel::PPPort>.
=cut
use strict;
# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my $VERSION = 3.32;
my %opt = (
quiet => 0,
diag
=> 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);
my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])'; # line feed
my $HS = "[ \t]";
# horizontal whitespace
# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 23436


eval {
require Getopt::Long;
Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
)) or usage();
}

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION.
";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: '$opt{'compat-version'}'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^\w+\|([^|]*)\|([^|]*)\|([^|]*)\$/ ? ($1 => { ($2 ? ( base => $2 ) : () ), ($3 ? ( todo => $3 ) : () ), (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()), (index($4, 'p') >= 0 ? ( provided => 1 ) : ()), (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()), }) : die "invalid spec: $._" } qw(ASCII_TO_NEED|5.007001|AvFILL|5.004050|AvFILL||BhkDISABLE|5.021008)
GvSVn5.009003]
GvSV||
Gv_AMupdate||5.011000|
HEI_SVKEY5.003070]
HeHASH||5.003070|
HeKEY||5.003070|
HeKLEN5.003070|
HePV5.004000|
HeSVKEY_force5.003070|
HeSVKEY_set5.004000|
HeSVKEY5.003070|
HeUTF85.010001|5.008000]
HeVAL5.003070|
HvENAMELEN5.015004|
HvENAMEUTF85.015004|
HvNAME5.013007|
HvNAMELEN5.009003]p
HvNAMELEN5.015004|
HvNAMEUTF85.015004|
HvNAME_get5.009003]p
HvNAME5.003070]
INT2PTR5.006000]p
IN_LOCALE_COMPILETIME5.007002]p
IN_LOCALE_RUNTIME5.007002]p
IN_LOCALE5.007002]p
IN_PERL_COMPILETIME5.008001]p
IS_NUMBER_GREATER_THAN_UV_MAX5.007002]p
IS_NUMBER_INFINITY5.007002]p
IS_NUMBER_IN_UV5.007002]p
IS_NUMBER_NAN5.007003]p
IS_NUMBER_NEG5.007002]p
IS_NUMBER_NOT_INT5.007002]p
IVSIZE5.006000]p
IVTYPE5.006000]p
IVdf5.006000]p
LEAVE|
LINKLIST5.013006|
LVRET|
MARK|
MULTICALL5.021008|
MUTABLE_PTR5.010001]p
MUTABLE_SV5.010001]p
MY_CXT_CLONE5.009002]p
MY_CXT_INIT5.007003]p
MY_CXT5.007003]p
MoveD5.009002|5.004050]p
Move|
NATIVE_TO_NEED5.007001]n
PERL_LONG_MIN|5.003070||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bmp|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.021008||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.021008||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.021008||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.021008||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_RE|5.009005||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PL_curcop|5.004050|p
PL_curpad|5.005000|
PL_curstash|5.004050|p
PL_debstash|5.004050|p
PL_defgv|5.004050|p
PL_diehook|5.004050|p
PL_dirty|5.004050|p
PL_dowarn|pn
PL_errovg|5.004050|p
PL_error_count|5.021008|p
PL_expect|5.021008|p
PL_hexdigit|5.005000|p
PL_hints|5.005000|p
PL_in_my_stash|5.021008|p
PL_in_my|5.021008|p
PL_keyword_plugin|5.011002|
PL_last_in_gv|n
PL_laststatval|5.005000|p
PL_lex_state|5.021008|p
PL_lex_stuff|5.021008|p
PL_linestr|5.021008|p
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sv_usepvn
sv_utf8_decode[5.006000]
sv_utf8 downgrade[5.006000]
sv_utf8 encode[5.006000]
sv_utf8 upgrade_flags_grow[5.011000]
yyunlex|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}

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else {
  if (exists $API{define->[0]} & & define->[1] !~ /^DPPP_\(\)/) {
    my @n = find_api(define->[1]);
    push @{$depends{define->[0]}}, @n if @n
  }
  undef $define;
}
}

$define = [$1, $2] if m{^\s*\#s*define\s+((\w+(?:(^)\{}\))?)\s+\(.*\)};

if ($function) {
  if (/^\)/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  } else {
    $function->[1] .= $_;
  }
}

$function = [$1, ""] if m{^DPPP_\(\w+\)};

$replace     = $1 if m{^\s*\#s*replace\s+\(\w+\)\s+\(\w+\)\s+\(\w+\)};
$replace{$2} = $1 if $replace and m{^\s*\#s*define\s+\(\w+\)\s+\(\w+\)\s+\(\w+\)\s+\(\w+\)};
$replace{$1} = $2 if m{^\s*\#s*replace \(\w+\) with \(\w+\)\s+\(\w+\)\s+\(\w+\)};

if (m{^\s*\#s*rcce\s+\(\w+\)\s+\(\w+\)\s+\(\w+\)}{
  my @deps = map { s/\s+/g; 
          } split //, $3;
  my $d;
  for $d (map { s/\s+/g; 
           } split //, $1) {
    push @{$depends{$d}}, @deps;
  }
}

$need{$1} = 1 if m{^#if\s+defined\(\(\w+\)\)?_.GLOBAL\)\}};
}

for (values %depends) {
  my %s;
  $._ = {sort grep !$s{$_}++, @$_};
}

if (exists $opt{‘api-info’}) {
my $f;
my $count = 0;
my $match = $opt{'api-info'} =~ m!/(.*)/! ? $1 : "\Q$opt{'api-info'}\E";
for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "\n\n=== $f ===\n\n";
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
        my $base = format_version($API{$f}{base} || $API{$f}{todo}) ;
        print "Supported at least starting from perl-$base\n";
        $info++;
    }
    if ($API{$f}{provided}) {
        my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
        print "Support by $ppport provided back to perl-$todo\n";
        print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
        print "Depends on: '" . join(',', @{$depends{$f}}) . '": \n" if exists $depends{$f};
        print "\n\n\nWARNING:\n\n$warnings{$f}" if exists $warnings{$f};
        $info++;
    }
    print "No portability information available\n" unless $info;
    $count++; 
}
$count or print "Found no API matching \'$opt{'api-info'}\'.: \n";
print "\n";
exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '[' . join(',', @flags) . '] : "
        print "$f$flags\n";
    }
    exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

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for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};

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for ($func, @deps) {
    $file{needs}{$_} = 'static' if exists $need{$_};
}

if (exists $API{$func}{todo} &amp; $API{$func}{todo} &gt; $opt{'compat-version'}) {
    if ($c =~ /$func\b/) {
        $file{uses_todo}{$func}++;
    }
}

while ($c =~ /^\$HS*#define\$HS+(NEED_(\w+?)(_GLOBAL)?\b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
}

for qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}

$files{$filename} = %$file;

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
    if (@{$global{needs}{$need}} &gt; 1) {
        my @targets = @{$global{needs}{$need}};
        my @t = grep $files{$_}{needed_global}{$need}, @targets;
        @targets = @t if @t;
        @t = grep \.xs$/i, @targets;
        @targets = @t if @t;
        my $target = shift @targets;
        $files{$target}{needs}{$need} = 'global';
        for (@{$global{needs}{$need}}) {
            $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
        }
    }
}

...
for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s/{Perl_$func}\(\s*\([^)]+\)\)?\aTHX_(\s+)\aTHX\/\1\2/g);
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            } else {
                warning("Uses Perl_$func instead of $func");
                $file{changes} += ($c =~ s/{Perl_$func}\(\s*\([^)]+\)\)?\aTHX\/\1\2/g);
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s/\bPerl_$func\(\s*\([^)]+\)\)?\aTHX\/\1\2/g);
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s\b$func\b\/$replace{$func}/g);
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                diag("Uses $func, which depends on ", join(", ", @{$file{uses_deps}{$func}}));
            } else {
                diag("Uses $func");
            }
        }
        $warnings += hint($func);
    }

    unless ($opt{quiet}) {
        for $func (sort keys %{$file{uses_todo}}) {
            print "*** WARNING: Uses $func, which may not be portable below perl ",
        }
    }
}
format_version($API{func}{todo}), ", even with "$ppport"un"

$warnings++;
}
}

for $func (sort keys %{$file{needed_static}})) {
  my $message = "";
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_${func} if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_${func} when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}})) {
  my $message = "";
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBALb.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = "";

  for $func (sort keys %{$file{needs}})) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    unless (exists $file{"needed_${type}"}{$func}) {
if ($type eq 'global') {
    diag("Files [@ {$global{needs}{$func}}] need $func, adding global request");
} else {
    diag("File needs $func, adding static request");
}
$pp .= "#define NEED_$func$suffix\n";
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w++)/$pp/m)) {
    $pp = ":
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport\n")
}

if ($pp) {
    $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+.*?)/$1/ppp/ms)
        || ($c =~ s/^(?=$HS*#$HS*include.*$ppport)/$ppp/m)
        || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*\s*?)^/$1/ppp/m)
        || ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff("PATCH", $filename, $c);
        } else {
            fallback:
            info("Suggested changes:");
            mydiff("STDOUT", $filename, $c);
        }
    } else {
        fallback:
        info("Suggested changes:");
        mydiff("STDOUT", $filename, $c);
    }
}
else {
    my $s = $file{changes} == 1 ? 's' : 's;
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;": return $@ eq ""
}

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }
print F $diff;
}

sub run_diff
{
my($prog, $file, $str) = @_;  
my $tmp = 'dppptemp'; 
my $suf = 'aaa'; 
my $diff = ''; 
local *F;

while (-e "$tmp.$suf") { $suf++ } 
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
  print F $str;
  close F;

  if (open F, "$prog $file $tmp |") {
    while (<F>) {
      s/\Q$tmp\E/$file.patched/;
      $diff .= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
  }
  unlink $tmp;
}
else {
  error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub rec_depend
{
my($func, $seen) = @_; 
return () unless exists $depends{$func}; 
$seen = {%{$seen||{}}}; 
return () if $seen->{$func}++; 
my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
my $ver = shift;

if ($ver =~ /^\d+.(\d+).\d+$/) {
    return ($1, $2, $3);
} elsif ($ver !~ /^\d+\.[\d_]*$/) {
    die "cannot parse version '$ver\n";
}

$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\d+.(\d{3})(\d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version '$ver\n";
    }
}

return ($r, $v, $s);
}

sub format_version {
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+.(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver\n";
        }
    }
    $s /= 10;

    $ver = sprintf "%.%d.%.%d", $r, $v, $s;
    $s > 0 and $ver .= sprintf "%02d", $s;

    return $ver;
}
return sprintf "%.d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
    $opt{quiet} and return;
    my $func = shift;
    my $rv = 0;
    if (exists $warnings{$func} && !$given_warnings{$func}++) {
        my $warn = $warnings{$func};
        $warn =~ s!^!*** !mg;
        print "*** WARNING: $func\n", $warn;
        $rv++;
    }
    if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
        my $hint = $hints{$func};
        $hint =~ s/^/   /mg;
        print "   --- hint for $func ---\n", $hint;
    }
    $rv;
}
sub usage
{
  my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
  my %M = ( 'I' => '*' );
  $usage =~ s/\s*perl\s+\S+/$^X $0/;
  $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
  print <<ENDUSAGE;
  Usage: $usage
  See perldoc $0 for details.
  ENDUSAGE
  exit 2;
}

sub strip
{
  my $self = do { local(@ARGV,$/)=($0); <> }
  my($copy) = $self =~ /^=head\d+\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
  $copy =~ s/^\w+/    /gms;
  $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
  $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
  if (@ARGV && $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort }; 
    \$@ and die "Cannot require Devel::PPPort, please install.\n";
    if (eval $Devel::PPPort::VERSION < $VERSION) {
      die "$0 was originally generated with Devel::PPPort $VERSION.\n"    
      "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n"    
      "Please install a newer version, or --unstrip will not work.\n";
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
  }
  print <<END;
  Sorry, but this is a stripped version of $0.
  To be able to use its original script and doc functionality,
  please try to regenerate this file using:

  \$^X $0 --unstrip

END

/\s*\n
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
threads - Perl interpreter-based threads

This document describes threads version 2.21

The "interpreter-based threads" provided by Perl are not the fast, lightweight system for multitasking that one might expect or hope for. Threads are implemented in a way that make them easy to misuse. Few people know how to use them correctly or will be able to provide help.

The use of interpreter-based threads in perl is officially discouraged.

=head1 SYNOPSIS

use threads ('yield',
  'stack_size' => 64*4096,
  'exit' => 'threads_only',
  'stringify');
sub start_thread {
    my @args = @_;  
    print('Thread started: ', join(' ', @args), "\n");
}
my $thr = threads->create('start_thread', 'argument');
$thr->join();

threads->create(sub { print("I am a thread\n"); })->join();

my $thr2 = async { foreach (@files) { ... } };  
$thr2->join();  
if (my $err = $thr2->error()) {
    warn("Thread error: $err\n");
}

# Invoke thread in list context (implicit) so it can return a list
my ($thr) = threads->create(sub { return (qw/a b c/); });
# or specify list context explicitly
my $thr = threads->create(‘context’ => ‘list’),
    sub { return (qw/a b c/); });
my @results = $thr->join();
$thr->detach();

# Get a thread's object
$thr = threads->self();
$thr = threads->object($tid);

# Get a thread's ID
$tid = threads->tid();
$tid = $thr->tid();
$tid = "$thr";

# Give other threads a chance to run
threads->yield();
yield();

# Lists of non-detached threads
my @threads = threads->list();
my $thread_count = threads->list();

my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);

# Test thread objects
if ($thr1 == $thr2) {
    ...

...
# Manage thread stack size
$stack_size = threads->get_stack_size();
$old_size = threads->set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads->create(
    'context'    => 'list',
    'stack_size' => 32*4096,
    'exit'       => 'thread_only',
    \&foo);

# Get thread's context
my $wantarray = $thr->wantarray();

# Check thread's state
if ($thr->is_running()) {
    sleep(1);
}
if ($thr->is_joinable()) {
    $thr->join();
}

# Send a signal to a thread
$thr->kill('SIGUSR1');

# Exit a thread
threads->exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called
I<interpreter threads> which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between threads.

(Prior to Perl 5.8, I<5005threads> was available through the C<Thread.pm> API.
This threading model has been deprecated, and was removed as of Perl 5.10.0.)

As just mentioned, all variables are, by default, thread local. To use shared
variables, you need to also load L<threads::shared>:

    use threads;
    use threads::shared;

When loading L<threads::shared>, you must C<use threads> before you
C<use threads::shared>. (C<threads> will emit a warning if you do it the
other way around.)
It is strongly recommended that you enable threads via C<use threads> as early
as possible in your script.
If needed, scripts can be written so as to run on both threaded and
non-threaded Perls:
my $can_use_threads = eval 'use threads; 1';
if ($can_use_threads) {
# Do processing using threads
...
} else {
# Do it without using threads
...
}
=over
=item $thr = threads->create(FUNCTION, ARGS)
This will create a new thread that will begin execution with the specified
entry point function, and give it the I<ARGS> list as parameters. It will
return the corresponding threads object, or C<undef> if thread creation failed.
I<FUNCTION> may either be the name of a function, an anonymous subroutine, or
a code ref.
my $thr = threads->create('func_name', ...);
# or
my $thr = threads->create(sub { ... }, ...);
# or
my $thr = threads->create(\&func, ...);
The C<-E<gt>new()> method is an alias for C<-E<gt>create()>.
=item $thr->join()
This will wait for the corresponding thread to complete its execution. When
the thread finishes, C<-E<gt>join()> will return the return value(s) of the
entry point function.
The context (void, scalar or list) for the return value(s) for C<-E<gt>join()>
is determined at the time of thread creation.
# Create thread in list context (implicit)
my ($thr1) = threads->create(sub {
my @results = qw(a b c);
return (@results);

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my $thr1 = threads->create({'context' => 'list'},
    sub {
        my @results = qw(a b c);
        return (@results);
    });
# Retrieve list results from thread
my @res1 = $thr1->join();

my $thr2 = threads->create(sub {
    my $result = 42;
    return ($result);
});
# Retrieve scalar result from thread
my $res2 = $thr2->join();

my $thr3 = threads->create({'void' => 1},
    sub { print("Hello, world\n"); });
# Join the thread in void context (i.e., no return value)
$thr3->join();

See L</"THREAD CONTEXT"> for more details.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already joined thread will cause an error to be thrown.

=item $thr->detach()

Makes the thread unjoinable, and causes any eventual return value to be discarded. When the program exits, any detached threads that are still running are silently terminated.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already detached thread will cause an error to be thrown.

=item threads->detach()

Class method that allows a thread to detach itself.
=item threads->self()

Class method that allows a thread to obtain its own I<threads> object.

=item $thr->tid()

Returns the ID of the thread. Thread IDs are unique integers with the main thread in a program being 0, and incrementing by 1 for every thread created.

=item threads->tid()

Class method that allows a thread to obtain its own ID.

=item "$thr"

If you add the C<stringify> import option to your C<use threads> declaration, then using a threads object in a string or a string context (e.g., as a hash key) will cause its ID to be used as the value:

    use threads qw(stringify);

    my $thr = threads->create(...);
    print("Thread $thr started\n");  # Prints: Thread 1 started

=item threads->object($tid)

This will return the I<threads> object for the I<active> thread associated with the specified thread ID. If C<$tid> is the value for the current thread, then this call works the same as C<-E<gt>self()>. Otherwise, returns C<undef> if there is no thread associated with the TID, if the thread is joined or detached, if no TID is specified or if the specified TID is undef.

=item threads->yield()

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.

You may do C<use threads qw(yield)>, and then just use C<yield()> in your code.

=item threads->list()

=item threads->list(threads::all)

=item threads->list(threads::running)

=item threads->list(threads::joinable)
With no arguments (or using C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.

With a I<true> argument (using C<threads::running>), returns a list of all non-joined, non-detached I<threads> objects that are still running.

With a I<false> argument (using C<threads::joinable>), returns a list of all non-joined, non-detached I<threads> objects that have finished running (i.e., for which C<-E<gt>join()> will not I<block>).

=item $thr1->equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

if ($thr1 == $thr2) {
    print("Threads are the same\n");
} # or
if ($thr1 !=$thr2) {
    print("Threads differ\n");
}

(Thread comparison is based on thread IDs.)

=item async BLOCK;

C<async> creates a thread to execute the block immediately following it. This block is treated as an anonymous subroutine, and so must have a semicolon after the closing brace. Like C<threads-E<gt>create>(), C<async> returns a I<threads> object.

=item $thr->error()

Threads are executed in an C<eval> context. This method will return C<undef> if the thread terminates I<normally>. Otherwise, it returns the value of C<$@> associated with the thread's execution status in its C<eval> context.

=item $thr->_handle()

This I<private> method returns a pointer (i.e., the memory location expressed as an unsigned integer) to the internal thread structure associated with a threads object. For Win32, this is a pointer to the C<HANDLE> value returned by C<CreateThread> (i.e., C<HANDLE *>); for other platforms, it is a pointer to the C<pthread_t> structure used in the C<pthread_create> call (i.e., C<pthread_t *>).
This method is of no use for general Perl threads programming. Its intent is to provide other (XS-based) thread modules with the capability to access, and possibly manipulate, the underlying thread structure associated with a Perl thread.

=item threads->_handle()

Class method that allows a thread to obtain its own I<handle>.

=back

=head1 EXITING A THREAD

The usual method for terminating a thread is to 
L<return()|perlfunc/"return EXPR"> from the entry point function with the appropriate return value(s).

=over

=item threads->exit()

If needed, a thread can be exited at any time by calling C<threads->exit()> . This will cause the thread to return C<undef> in a scalar context, or the empty list in a list context.

When called from the I<main> thread, this behaves the same as C<exit(0)>.

=item threads->exit(status)

When called from a thread, this behaves like C<threads->exit()> (i.e., the exit status code is ignored).

When called from the I<main> thread, this behaves the same as C<exit(status)>.

=item die()

Calling C<died()> in a thread indicates an abnormal exit for the thread. Any C<$SIG{__DIE__}> handler in the thread will be called first, and then the thread will exit with a warning message that will contain any arguments passed in the C<died()> call.

=item exit(status)

Calling L<exit()|perlfunc/"exit EXPR"> inside a thread causes the whole application to terminate. Because of this, the use of C<exit()> inside threaded code, or in modules that might be used in threaded applications, is strongly discouraged.
If `exit()` really is needed, then consider using the following:

```perl
threads->exit() if threads->can('exit');  # Thread friendly
exit(status);
```

=item use threads 'exit' => 'threads_only'

This globally overrides the default behavior of calling `exit()` inside a thread, and effectively causes such calls to behave the same as `threads-＞exit()`. In other words, with this setting, calling `exit()` causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules or the like.

The `<main>` thread is unaffected by this setting.

=item `threads-＞create({'exit' => 'thread_only'}, ...)`

This overrides the default behavior of `exit()` inside the newly created thread only.

=item `$thr-＞set_thread_exit_only(boolean)`

This can be used to change the `exit thread only` behavior for a thread after it has been created. With a `true` argument, `exit()` will cause only the thread to exit. With a `false` argument, `exit()` will terminate the application.

The `<main>` thread is unaffected by this call.

=item `threads-＞set_thread_exit_only(boolean)`

Class method for use inside a thread to change its own behavior for `exit()`.

The `<main>` thread is unaffected by this call.

=back

=head1 THREAD STATE

The following boolean methods are useful in determining the `state` of a thread.

=over

=item `$thr-＞is_running()`
Returns true if a thread is still running (i.e., if its entry point function has not yet finished or exited).

=item $thr->is_joinable()

Returns true if the thread has finished running, is not detached and has not yet been joined. In other words, the thread is ready to be joined, and a call to C<$thr-E<gt>join()> will not I<block>.

=item $thr->is_detached()

Returns true if the thread has been detached.

=item threads->is_detached()

Class method that allows a thread to determine whether or not it is detached.

=head1 THREAD CONTEXT

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's I<context>: list, scalar or void. The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via L<wantarray()> perlfunc/"wantarray">. The thread may then specify a value of the appropriate type to be returned from C<-E<gt>join()>.

=head2 Explicit context

Because thread creation and thread joining may occur in different contexts, it may be desirable to state the context explicitly to the thread's entry point function. This may be done by calling C<-E<gt>create()> with a hash reference as the first argument:

    my $thr = threads->create({context => 'list'}, \&foo);
    ...
    my @results = $thr->join();

In the above, the threads object is returned to the parent thread in scalar context, and the thread's entry point function C<foo> will be called in list (array) context such that the parent thread can receive a list (array) from the C<-E<gt>join()> call. (C<'array'> is synonymous with C<'list'>.)

Similarly, if you need the threads object, but your thread will not be returning a value (i.e., I<void> context), you would do the following:
my $thr = threads->create({'context' => 'void'}, \&foo);
...
$thr->join();

The context type may also be used as the I<key> in the hash reference followed by a I<true> value:

threads->create({'scalar' => 1}, \&foo);
...
my ($thr) = threads->list();
my $result = $thr->join();

=head2 Implicit context

If not explicitly stated, the thread's context is implied from the context of the C<-E<gt>create() call:

# Create thread in list context
my ($thr) = threads->create(...);

# Create thread in scalar context
my $thr = threads->create(...);

# Create thread in void context
threads->create(...);

=head2 $thr->wantarray()

This returns the thread's context in the same manner as L<wantarray()>.

=head2 threads->wantarray()

Class method to return the current thread's context. This returns the same value as running L<wantarray()> inside the current thread's entry point function.

=head1 THREAD STACK SIZE

The default per-thread stack size for different platforms varies significantly, and is almost always far more than is needed for most applications. On Win32, Perl's makefile explicitly sets the default stack to 16 MB; on most other platforms, the system default is used, which again may be much larger than is needed.

By tuning the stack size to more accurately reflect your application's needs, you may significantly reduce your application's memory usage, and increase the number of simultaneously running threads.
Note that on Windows, address space allocation granularity is 64 KB, therefore, setting the stack smaller than that on Win32 Perl will not save any more memory.

=item threads-&gt;get_stack_size();

Returns the current default per-thread stack size. The default is zero, which means the system default stack size is currently in use.

=item $size = $thr-&gt;get_stack_size();

Returns the stack size for a particular thread. A return value of zero indicates the system default stack size was used for the thread.

=item $old_size = threads-&gt;set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in a warning, and the minimum stack size will be used.

Some Linux platforms have a maximum stack size. Setting too large of a stack size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call C<pthread_attr_setstacksize()> I<(for pthreads platforms)> or supply the stack size to C<CreateThread()> I<(for Win32 Perl)>.

(Obviously, this call does not affect any currently extant threads.)

=item use threads ('stack_size' =&gt; VALUE);

This sets the default per-thread stack size at the start of the application.

=item $ENV{'PERL5_ITHREADS_STACK_SIZE'}

The default per-thread stack size may be set at the start of the application through the use of the environment variable C<PERL5_ITHREADS_STACK_SIZE>:  

PERL5_ITHREADS_STACK_SIZE=1048576
export PERL5_ITHREADS_STACK_SIZE
perl -e'use threads; print(threads->get_stack_size(), "\n")'

This value overrides any C<stack_size> parameter given to C<use threads>. Its primary purpose is to permit setting the per-thread stack size for legacy threaded applications.

=item threads->create({'stack_size' => VALUE}, FUNCTION, ARGS)

To specify a particular stack size for any individual thread, call C<-E<gt>create()> with a hash reference as the first argument:

my $thr = threads->create({'stack_size' => 32*4096},
    \&foo, @args);

=item $thr2 = $thr1->create(FUNCTION, ARGS)

This creates a new thread (C<$thr2>) that inherits the stack size from an existing thread (C<$thr1>). This is shorthand for the following:

my $stack_size = $thr1->get_stack_size();
my $thr2 = threads->create({'stack_size' => $stack_size},
    FUNCTION, ARGS);

=back

=head1 THREAD SIGNALLING

When safe signals is in effect (the default behavior - see L</"Unsafe signals"> for more details), then signals may be sent and acted upon by individual threads.

=over 4

=item $thr->kill('SIG...');

Sends the specified signal to the thread. Signal names and (positive) signal numbers are the same as those supported by L<kill()>|perlfunc/"kill SIGNAL, LIST">. For example, 'SIGTERM', 'TERM' and (depending on the OS) 15 are all valid arguments to C<-E<gt>kill()>.

Returns the thread object to allow for method chaining:

$thr->kill('SIG...')->join();

=back

Signal handlers need to be set up in the threads for the signals they are expected to act upon. Here's an example for L<cancelling> a thread:
use threads;

sub thr_func
{
    # Thread 'cancellation' signal handler
    $SIG{'KILL'} = sub { threads->exit(); };

    ...
}

# Create a thread
my $thr = threads->create('thr_func');

...

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();

Here's another simplistic example that illustrates the use of thread
signalling in conjunction with a semaphore to provide rudimentary I<suspend>
and I<resume> capabilities:

use threads;
use Thread::Semaphore;

sub thr_func
{
    my $sema = shift;

    # Thread 'suspend/resume' signal handler
    $SIG{'STOP'} = sub {
        $sema->down();      # Thread suspended
        $sema->up();        # Thread resumes
    };

    ...
}

# Create a semaphore and pass it to a thread
my $sema = Thread::Semaphore->new();
my $thr = threads->create('thr_func', $sema);

# Suspend the thread
$sema->down();
$thr->kill('STOP');
# Allow the thread to continue
$sema->up();

CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It emulates signals at the Perl-level such that signal handlers are called in the appropriate thread. For example, sending C<$thr->kill('STOP')> does not actually suspend a thread (or the whole process), but does cause a C<$SIG{'STOP'}> handler to be called in that thread (as illustrated above).

As such, signals that would normally not be appropriate to use in the C<kill()> command (e.g., C<kill(KILL, $$)> are okay to use with the C<-E<gt>kill()> method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation the thread is currently working on: The signal will be acted upon after the current operation has completed. For instance, if the thread is stuck on an I/O call, sending it a signal will not cause the I/O call to be interrupted such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS

=over 4

=item Perl exited with active threads:

If the program exits without all threads having either been joined or detached, then this warning will be issued.

NOTE: If the I<main> thread exits, then this warning cannot be suppressed using C<no warnings 'threads';> as suggested below.

=item Thread creation failed: pthread_create returned #

See the appropriate I<man> page for C<pthread_create> to determine the actual cause for the failure.

=item Thread # terminated abnormally: ...

A thread terminated in some manner other than just returning from its entry point function, or by using C<threads-E<gt>exit()> . For example, the thread may have terminated because of an error, or by using C<die>.

=item Using minimum thread stack size of #
Some platforms have a minimum thread stack size. Trying to set the stack size
below this value will result in the above warning, and the stack size will be
set to the minimum.

=item Thread creation failed: pthread_attr_setstacksize(I<SIZE>) returned 22

The specified I<SIZE> exceeds the system's maximum stack size. Use a smaller
value for the stack size.

=back

If needed, thread warnings can be suppressed by using:

    no warnings 'threads';

in the appropriate scope.

=head1 ERRORS

=over 4

=item This Perl not built to support threads

The particular copy of Perl that you're trying to use was not built using the
C<useithreads> configuration option.

Having threads support requires all of Perl and all of the XS modules in the
Perl installation to be rebuilt; it is not just a question of adding the
L<threads> module (i.e., threaded and non-threaded Perls are binary
incompatible).

=item Cannot change stack size of an existing thread

The stack size of currently extant threads cannot be changed, therefore, the
following results in the above error:

    $thr->set_stack_size($size);

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the C<-E<gt>kill()> signalling method.
See L</"Unsafe signals"> for more details.

=item Unrecognized signal name: ...

The particular copy of Perl that you're trying to use does not support the
specified signal being used in a C<-E<gt>kill()> call.
BUGS AND LIMITATIONS

Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if what you've encountered is a known problem.

Thread-safe modules

See L<perlmod/"Making your module threadsafe"> when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not I<thread-safe>. For example, they may crash the Perl interpreter during execution, or may dump core on termination. Depending on the module and the requirements of your application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the module from inside the thread entry point function using C<require> (and C<import> if needed):

```perl
sub thr_func
{
    require Unsafe::Module
    # Unsafe::Module->import(...);

    ....
}
```

If the module is needed inside the I<main> thread, try modifying your application so that the module is loaded (again using C<require> and C<-E<gt>import()> after any threads are started, and in such a way that no other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file a bug report on L<http://rt.cpan.org/Public/> against the problematic module.

Memory consumption

On most systems, frequent and continual creation and destruction of threads can lead to ever-increasing growth in the memory footprint of the Perl
interpreter. While it is simple to just launch threads and then
C<-E<gt>join()> or C<-E<gt>detach()> them, for long-lived applications, it is
better to maintain a pool of threads, and to reuse them for the work needed,
using L<queues|Thread::Queue> to notify threads of pending work. The CPAN
distribution of this module contains a simple example
(F<examples/pool_reuse.pl>) illustrating the creation, use and monitoring of a
pool of I<reusable> threads.

=item Current working directory

On all platforms except MSWin32, the setting for the current working directory
is shared among all threads such that changing it in one thread (e.g., using
C<chdir()>) will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory
setting.

=item Environment variables

Currently, on all platforms except MSWin32, all I<system> calls (e.g., using
C<system()> or back-ticks) made from threads use the environment variable
settings from the I<main> thread. In other words, changes made to C<%ENV> in
a thread will not be visible in I<system> calls made by that thread.

To work around this, set environment variables as part of the I<system> call.
For example:

    my $msg = 'hello';
    system("FOO=$msg; echo \$FOO"); # Outputs 'hello' to STDOUT

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals

Signals are I<caught> by the main thread (thread ID = 0) of a script.
Therefore, setting up signal handlers in threads for purposes other than
L</"THREAD SIGNALLING"> as documented above will not accomplish what is
intended.

This is especially true if trying to catch C<SIGALRM> in a thread. To handle
alarms in threads, set up a signal handler in the main thread, and then use
L</"THREAD SIGNALLING"> to relay the signal to the thread:

    # Create thread with a task that may time out
    my $thr = threads->create(sub {
        threads->yield();
        eval {
            $SIG{ALRM} = sub { die("Timeout\n"); };
        }
    ),

```
alarm(10);
... # Do work here
alarm(0);
};
if ($@ =~ /Timeout/) {
    warn("Task in thread timed out\n");
}
};

# Set signal handler to relay SIGALRM to thread
$SIG{ALRM} = sub { $thr->kill('ALRM') };  

... # Main thread continues working

=item Parent-child threads

On some platforms, it might not be possible to destroy I<parent> threads while there are still existing I<child> threads.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their handling until the interpreter is in a I<safe> state. See L<perl58delta/"Safe Signals"> and L<perlipc/"Deferred Signals (Safe Signals)"> for more details.

Safe signals is the default behavior, and the old, immediate, unsafe signalling behavior is only in effect in the following situations:

=over 4

=item * Perl has been built with C<PERL_OLD_SIGNALS> (see C<perl -V>).

=item * The environment variable C<PERL_SIGNALS> is set to C<unsafe> (see L<perlrun/"PERL_SIGNALS">).

=item * The module L<Perl::Unsafe::Signals> is used.

=back

If unsafe signals is in effect, then signal handling is not thread-safe, and the C<-E<gt>kill()> signalling method cannot be used.

=item Identity of objects returned from threads

When a value is returned from a thread through a C<join> operation, the value and everything that it references is copied across to the joining thread, in much the same way that values are copied upon thread
creation. This works fine for most kinds of value, including arrays, hashes, and subroutines. The copying recurses through array elements, reference scalars, variables closed over by subroutines, and other kinds of reference.

However, everything referenced by the returned value is a fresh copy in the joining thread, even if a returned object had in the child thread been a copy of something that previously existed in the parent thread. After joining, the parent will therefore have a duplicate of each such object. This sometimes matters, especially if the object gets mutated; this can especially matter for private data to which a returned subroutine provides access.

=item Returning blessed objects from threads

Returning blessed objects from threads does not work. Depending on the classes involved, you may be able to work around this by returning a serialized version of the object (e.g., using L<Data::Dumper> or L<Storable>), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports L<shared objects|threads::shared"OBJECTS">, you can pass them via L<shared queues|Thread::Queue>.

=item END blocks in threads

It is possible to add L<END blocks|perlmod"BEGIN, UNITCHECK, CHECK, INIT and END"> to threads by using L<require|perlfunc"require VERSION"> or L<eval|perlfunc"eval EXPR"> with the appropriate code. These C<END> blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a C<-E<gt>join()> call, or at program termination).

However, calling any L<threads> methods in such an C<END> block will most likely I<fail> (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the L<threads> module.

For this reason, the use of C<END> blocks in threads is B<strongly> discouraged.

=item Open directory handles

In perl 5.14 and higher, on systems other than Windows that do not support the C<fchdir> C function, directory handles (see L<opendir|perlfunc"opendir DIRHANDLE,EXPR">) will not be copied to new threads. You can use the C<d_fchdir> variable in L<Config.pm|Config> to determine whether your system supports it.

In prior perl versions, spawning threads with open directory handles would crash the interpreter.
Detached threads and global destruction

If the main thread exits while there are detached threads which are still running, then Perl's global destruction phase is not executed because otherwise certain global structures that control the operation of threads and that are allocated in the main thread's memory may get destroyed before the detached thread is destroyed.

If you are using any code that requires the execution of the global destruction phase for clean up (e.g., removing temp files), then do not use detached threads, but rather join all threads before exiting the program.

Perl Bugs and the CPAN Version of L<threads>

Support for threads extends beyond the code in this module (i.e., F<threads.pm> and F<threads.xs>), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the latest version of L<threads> from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for L<threads> related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

REQUIREMENTS

Perl 5.8.0 or later

SEE ALSO

threads on MetaCPAN: L<https://metacpan.org/release/threads>


L<threads::shared>, L<perlthrtut>

Perl threads mailing list:
L<http://lists.perl.org/list/sithreads.html>

Stack size discussion:
L<http://www.perlmonks.org/?node_id=532956>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 AUTHOR

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CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>

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=head1 ACKNOWLEDGEMENTS

Richard Soderberg E<lt>perl AT crystalflame DOT netE<gt> -
Helping me out tons, trying to find reasons for races and other weird bugs!

Simon Cozens E<lt>simon AT brecon DOT co DOT ukE<gt> -
Being there to answer zillions of annoying questions

Rocco Caputo E<lt>troc AT netrus DOT netE<gt>

Vipul Ved Prakash E<lt>mail AT vipul DOT DOT netE<gt> -
Helping with debugging

Dean Arnold E<lt>darnold AT presicient DOT comE<gt> -
Stack size API

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014324276_1591897366.99/0/perl-threads-2.21-2.el8.src.rpm-cosi-expand-
archive-Nd1sJ2w3/threads-2.21.tar.gz-cosi-expand-archive-XgGyr8xL/threads-2.21/lib/threads.pm
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014324276_1591897366.99/0/perl-threads-2.21-2.el8.src.rpm-cosi-expand-
1.2260 ulid 1.3.1

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1.2263 validate-npm-package-license 3.0.4
**1.2263.1 Available under license:**

validate-npm-package-license

=========================================

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```

SPDX expressions are valid, too ...

```javascript
```
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('GPL-3.0-only OR BSD-2-Clause'),
  validSPDXExpression
);
  
... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ],
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);
assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  
```
If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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1.2264 error-inject 1.0.0

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1.2266 dom 1.0
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ElementEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObject.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/NodeEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java

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*/
/**
* Checks if this content model has had its min/maxOccurs values reduced for
* purposes of speeding up UPA. If so, this content model should not be used
* for any purpose other than checking unique particle attribution
*
* @return a boolean that says whether this content has been compacted for UPA
*/

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
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*/
/**
* DOM Level 3 LS CR - Experimental.
* Create a new <code>LSParser</code>. The newly constructed parser may
* then be configured by means of its <code>DOMConfiguration</code>
* object, and used to parse documents by means of its <code>parse</code>
* method.
* @param mode  The <code>mode</code> argument is either
*   <code>MODE_SYNCHRONOUS</code> or <code>MODEASYNCHRONOUS</code>, if
*   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
*   <code>LSParser</code> that is created will operate in synchronous
*   mode, if it's <code>MODEASYNCHRONOUS</code> then the
*   <code>LSParser</code> that is created will operate in asynchronous
*   mode.
* @param schemaType  An absolute URI representing the type of the schema
* language used during the load of a <code>Document</code> using the
* newly created <code>LSParser</code>. Note that no lexical checking
* is done on the absolute URI. In order to create a
* <code>LSParser</code> for any kind of schema types (i.e. the
* LSParser will be free to use any schema found), use the value
* <code>null</code>.
* , applications must use the value
* <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
* applications must use the value
* <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* @return The newly created <code>LSParser</code> object. This
* <code>LSParser</code> is either synchronous or asynchronous
* depending on the value of the <code>mode</code> argument.
* <p>Note: By default, the newly created <code>LSParser</code>
* does not contain a <code>DOMErrorHandler</code>, i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>" configuration parameter is <code>null</code>. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the <code>"error-handler"</code> configuration
* parameter on the new created <code>LSParser</code> contains a
* reference to the default error handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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  jar/org/apache/xerces/dom/DOMImplementationListImpl.java
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*/
/**
* used to check the 3 constraints against each complex type
* (should be each model group):
* Unique Particle Attribution, Particle Derivation (Restriction),
* Element Declrations Consistent.
*/

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/xs/XSConstraints.java
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  jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/wml/dom/WMLImgElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/wml/WMLImgElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/xs/dom/DeferredCDATASectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/xx/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/xs/StringList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/wml/WMLWmlElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xx/AnySimpleDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/xs/StringList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/wml/WMLTimerElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/parsers/XMLGrammarCachingConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLBaseElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xpointer/XPointerPart.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/QName.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLEmElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/grammars/XMLGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/<HTMLFormControl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DeferredTextImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/FloatDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/XML11DocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/ErrorHandlerWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSAttributeGroupDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMAny.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/stax/events/StartElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/ErrorProcessorWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSModelGroupDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/stax/events/EndElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLBrElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/QNameDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLEntElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java
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jar/org/apache/html/dom/HTMLScriptElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java
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jar/org/apache/xerces/xinclude/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xersesimpl-2-12-0-sources-
jar/org/apache/xerces/stax/events/DTDImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xersesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xersesimpl-2-12-0-sources-
jar/org/apache/wml/WMLTrElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xersesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMUniOp.java
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jar/org/apache/xerces/dom/DocumentFragmentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xersesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLSelectElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xersesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xersesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/XML11EntityScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xersesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/dxs/IDREFDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xersesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xersesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSDFACM.java

1.2267 make-iterator 1.0.1
1.2267.1 Available under license:
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1.2269 eslint-visitor-keys 1.3.0

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1.2270 httpasyncclient 4.1.2

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@example
one line to give the program's name and a brief idea of what it does.

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@end example

Also add information on how to contact you by electronic and paper mail.

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program Copyright (C) year name of author

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@end example
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Version 2.1, February 1999

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DRuntime: Runtime Library for the D Programming Language

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* /opt/cola/permits/1242748333_1645822598.75/0/gin-1-5-0-sources-
jar/com/google/gwt/inject/guiceapi/java/inject/Scope.java
* /opt/cola/permits/1242748333_1645822598.75/0/gin-1-5-0-sources-
jar/com/google/gwt/inject/guiceapi/com/google/inject/Singleton.java

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* /opt/cola/permits/1242748333_1645822598.75/0/gin-1-5-0-sources-jar/com/google/gwt/inject/rebind/util/KeyUtil.java
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* /opt/cola/permits/1242748333_1645822598.75/0/gin-1-5-0-sources-jar/com/google/gwt/inject/rebind/GinjectorGeneratorModule.java

1.2281 slf4j-log4j 1.7.35

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import (
    "encoding/json"
    "github.com/go-openapi/swag"
)
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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package api

import (  
    "io/ioutil"  
    "strings"  
    "time"
)

type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`  

    // The customer ID associated with the license  
    CustomerID string `json:"customer_id"`  

    // If set, an identifier that should be used to lock the license to a  
    // particular site, cluster, etc.  
    InstallationID string `json:"installation_id"`  

    // The time at which the license was issued  
    IssueTime time.Time `json:"issue_time"`  

    // The time at which the license starts being valid  
    StartTime time.Time `json:"start_time"`  

    // The time after which the license expires  
    ExpirationTime time.Time `json:"expiration_time"`  

    // The time at which the license ceases to function and can  
    // no longer be used in any capacity  
    TerminationTime time.Time `json:"termination_time"`  

    // The product the license is valid for
Product string `json:"product"`

// License Specific Flags
Flags map[string]interface{} `json:"flags"`

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"`

// List of features enabled by the license
Features []string `json:"features"`

}


type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query(`/v1/operator/license`, &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest(`GET`, `/v1/operator/license`)
    r.params.Set(`signed`, `1`)
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return `"", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return `"", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
var reply LicenseReply
r := op.c.newRequest("DELETE", "/v1/operator/license")
r.setWriteOptions(opts)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
    return nil, err
}
deferr resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}
return &reply, nil

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
r.setWriteOptions(opts)
r.body = strings.NewReader(license)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
    return nil, err
}
deferr resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}
return &reply, nil

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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* /opt/cola/permits/1163925133_1620933582.81/0/commander-4-1-1-gem/data-tar-gz/lib/commander.rb

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= Commander

The complete solution for Ruby command-line executables. Commander bridges the gap between other terminal related libraries you know and love (OptionParser, HighLine), while providing many new features, and an elegant API.

== Features

* Easier than baking cookies
* Parses options using OptionParser
* Auto-populates struct with options (no more { |v| options[:recursive] = v })
* Auto-generates help documentation via pluggable help formatters
* Optional default command when none is present
* Global / Command level options
* Packaged with two help formatters (Terminal, TerminalCompact)
* Imports the highline gem for interacting with the terminal
* Adds additional user interaction functionality
* Highly customizable progress bar with intuitive, simple usage
* Multi-word command name support such as 'drupal module install MOD', rather than 'drupal module_install MOD'
* Sexy paging for long bodies of text
* Support for MacOS text-to-speech
* Command aliasing (very powerful, as both switches and arguments can be used)
* Growl notification support for MacOS
* Use the 'commander' executable to initialize a commander driven program

== Installation

$ gem install commander

== Quick Start
To generate a quick template for a commander app, run:
$ commander init yourfile.rb
== Example
For more option examples view the Commander::Command#option method. Also
an important feature to note is that action may be a class to instantiate,
as well as an object, specifying a method to call, so view the RDoc for more information.
require 'rubygems'
require 'commander/import'
# :name is optional, otherwise uses the basename of this executable
program :name, 'Foo Bar'
program :version, '1.0.0'
program :description, 'Stupid command that prints foo or bar.'
command :foo do |c|
c.syntax = 'foobar foo'
c.description = 'Displays foo'
c.action do |args, options|
say 'foo'
end
end
command :bar do |c|
c.syntax = 'foobar bar [options]'
c.description = 'Display bar with optional prefix and suffix'
c.option '--prefix STRING', String, 'Adds a prefix to bar'
c.option '--suffix STRING', String, 'Adds a suffix to bar'
c.action do |args, options|
options.default :prefix => '(', :suffix => ')'
say "#{options.prefix}bar#{options.suffix}"
end
end
$ foobar bar
# => (bar)
$ foobar bar --suffix '{' --prefix '}'
# => {bar}
== HighLine
As mentioned above the highline gem is imported into 'global scope', below
are some quick examples for how to utilize highline in your command(s):

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# Ask for password masked with '*' character
ask("Password: ") { |q| q.echo = "*" }

# Ask for password
ask("Password: ") { |q| q.echo = false }

# Ask if the user agrees (yes or no)
agree("Do something?")

# Asks on a single line (note the space after ':')
ask("Name: ")

# Asks with new line after "Description:
ask("Description:")

# Calls Date#parse to parse the date string passed
ask("Birthday? ", Date)

# Ensures Integer is within the range specified
ask("Age? ", Integer) { |q| q.in = 0..105 }

# Asks for a list of strings, converts to array
ask("Fav colors?", Array)

== HighLine & Interaction Additions

In addition to highline's fantastic choice of methods, commander adds the following methods to simplify common tasks:

# Ask for password
password

# Ask for password with specific message and mask character
password "Enter your password please: ", '

# Ask for CLASS, which may be any valid class responding to #parse. Date, Time, Array, etc
names = ask_for_array 'Names: '
bday = ask_for_date 'Birthday?: '

# Simple progress bar (Commander::UI::ProgressBar)
uris = %w[
  http://vision-media.ca
  http://google.com
  http://yahoo.com
]
progress uris do |uri|
  res = open uri
  # Do something with response
end

# 'Log' action to stdout
log "create", "path/to/file.rb"

# Enable paging of output after this point
enable_paging

# Ask editor for input (EDITOR environment variable or whichever is available: TextMate, vim, vi, emacs, nano, pico)
ask_editor

# Ask editor, supplying initial text
ask_editor 'previous data to update'

# Ask editor, preferring a specific editor
ask_editor 'previous data', 'vim'

# Choose from an array of elements
choice = choose("Favorite language?", :ruby, :perl, :js)

# Alter IO for the duration of the block
io new_input, new_output do
  new_input_contents = $stdin.read
  puts new_input_contents # outputs to new_output stream
end
# $stdin / $stdout reset back to original streams

# Speech synthesis
speak 'What is your favorite food? '
food = ask 'favorite food?: '
speak "Wow, I like #{food} too. We have so much in common."

# Execute arbitrary applescript
applescript 'foo'

# Converse with speech recognition server
case converse 'What is the best food?', :cookies => 'Cookies', :unknown => 'Nothing'
  when :cookies
    speak 'o.m.g. you are awesome!'
  else
    case converse 'That is lame, shall I convince you cookies are the best?', :yes => 'Ok', :no => 'No', :maybe =>
      'Maybe another time'
      when :yes
        speak 'Well you see, cookies are just fantastic, they melt in your mouth.'
      else
        speak 'Ok then, bye.'
  end
== Growl Notifications

Commander provides methods for displaying Growl notifications. To use these methods you need to install http://github.com/visionmedia/growl which utilizes the growlnotify[http://growl.info/extras.php#growlnotify] executable. Note that growl is auto-imported by Commander when available, no need to require.

# Display a generic Growl notification
 notify 'Something happened'

# Display an 'info' status notification
 notify_info 'You have #{emails.length} new email(s)'

# Display an 'ok' status notification
 notify_ok 'Gems updated'

# Display a 'warning' status notification
 notify_warning '1 gem failed installation'

# Display an 'error' status notification
 notify_error "Gem #{name} failed"

growlnotify can also be installed via homebrew[http://mxcl.github.com/homebrew/]:

$ brew install growlnotify

== Commander Goodies

=== Option Defaults

The options struct passed to #action provides a #default method, allowing you to set defaults in a clean manner for options which have not been set.

command :foo do |c|
  c.option '--interval SECONDS', Integer, 'Interval in seconds'
  c.option '--timeout SECONDS', Integer, 'Timeout in seconds'
  c.action do |args, options|
    options.default \
    :interval => 2,
    :timeout  => 60
  end
end

=== Command Aliasing

Aliases can be created using the alias_command method like below:
command :'install gem' do |c|
  c.action { puts 'foo' }
end
alias_command :'gem install', :'install gem'

Or more complicated aliases can be made, passing any arguments as if it was invoked via the command line:

command :'install gem' do |c|
  c.syntax = 'install gem <name> [options]'
  c.option '--dest DIR', String, 'Destination directory'
  c.action { |args, options| puts "installing #{args.first} to #{options.dest}" }
end
alias_command :update, :'install gem', 'rubygems', '--dest', 'some_path'

$ foo update
# => installing rubygems to some_path

=== Command Defaults

Although working with a command executable framework provides many benefits over a single command implementation, sometimes you still want the ability to create a terse syntax for your command. With that in mind we may use #default_command to help with this. Considering our previous :'install gem' example:

default_command :update

$ foo
# => installing rubygems to some_path

Keeping in mind that commander searches for the longest possible match when considering a command, so if you were to pass arguments to foo like below, expecting them to be passed to :update, this would be incorrect, and would end up calling :'install gem', so be careful that the users do not need to use command names within the arguments.

$ foo install gem
# => installing to

=== Additional Global Help

Arbitrary help can be added using the following #program symbol:

program :help, 'Author', 'TJ Holowaychuk <tj@vision-media.ca>'

Which will output the rest of the help doc, along with:
AUTHOR:

TJ Holowaychuk <tj@vision-media.ca>

=== Global Options

Although most switches will be at the command level, several are available by default at the global level, such as --version, and --help. Using #global_option you can add additional global options:

```
global_option('-c', '--config FILE', 'Load config data for your commands to use') { |file| ... }
```

This method accepts the same syntax as Commander::Command#option so check it out for documentation.

All global options regardless of providing a block are accessible at the command level. This means that instead of the following:

```
global_option('--verbose') { $verbose = true }
...
```

```
c.action do |args, options|
  say 'foo' if $verbose
...
```

You may:

```
global_option '--verbose' { $verbose = true }
...
```

```
c.action do |args, options|
  say 'foo' if options.verbose
...
```

=== Formatters

Two core formatters are currently available, the default Terminal formatter as well as TerminalCompact. To utilize a different formatter simply use :help_formatter like below:

```
program :help_formatter, Commander::HelpFormatter::TerminalCompact
```

Or utilize the help formatter aliases:

```
program :help_formatter, :compact
```

This abstraction could be utilized to generate HTML documentation for your executable.

== Tips

When adding a global or command option, OptionParser implicitly adds a small
switch even when not explicitly created, for example `-c` will be the same as `--config` in both examples, however `-c` will only appear in the documentation when explicitly assigning it.

    global_option `-c`, `--config FILE`
    global_option `--config FILE`

== ASCII Tables

For feature rich ASCII tables for your terminal app check out visionmedia’s terminal-table gem at http://github.com/visionmedia/terminal-table

```
+----------+-------+----+--------+-----------------------+
<table>
<thead>
<tr>
<th>Terminal</th>
<th>Table</th>
<th>Is</th>
<th>Wicked</th>
<th>Awesome</th>
</tr>
</thead>
</table>
+----------+--------+----+--------+-----------------------|
|          |        |    |        | get it while its hot! |
+----------+--------+----+--------+-----------------------+
```

== Running Specifications

$ rake spec

OR

$ spec --color spec

== Contrib

Feel free to fork and request a pull, or submit a ticket
http://github.com/visionmedia/commander/issues

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* /opt/cola/permits/1163925133_1620933582.81/0/commander-4-1-1-gem/data-tar-gz/README.rdoc

1.2292 libtool 2.4.7-r0

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* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/resource/InputStreamResource.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/resource/ClassPathResource.java

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* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/route/HttpMethod.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/http/matching/ResponseWrapper.java
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* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/http/matching/MatcherFilter.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/Request.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/ExceptionHandlerImpl.java
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* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/RequestResponseFactory.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/Access.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/servlet/SparkFilter.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/route/SimpleRouteMatcher.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/utils/SparkUtils.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/routematch/RouteMatch.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/route/Routes.java
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* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/ResponseTransformerRouteImpl.java
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* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/utils/ObjectUtils.java

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* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/ServletRoutes.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/staticfiles/StaticFilesConfiguration.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/embeddedserver/NotSupportedException.java
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```
\* Utf8 Appendable abstract base class
\* This abstract class wraps a standard \{@link java.lang.Appendable} and provides methods to append UTF-8
\* encoded bytes, that are converted into characters.
\* This class is stateful and up to 4 calls to \{@link Appendable#append(byte)} may be needed before state a character is
\* appended to the string buffer.
\* The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
\* inspired by
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/**
 * Utf8 Appendable abstract base class
 * This abstract class wraps a standard \{@link java.lang.Appendable} and provides methods to append UTF-8
 * encoded bytes, that are converted into characters.
 * This class is stateful and up to 4 calls to \{@link Appendable#append(byte)} may be needed before state a character is
 * appended to the string buffer.
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
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* /opt/cola/permits/1270997486_1644867409.87/0/spark/resource/AbstractResourceHandler.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/resource/ExternalResourceHandler.java
* /opt/cola/permits/1270997486_1644867409.87/0/spark-core-2-9-3-sources-jar/spark/utils/urldecoding/Utf8StringBuilder.java

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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  jar/com/esotericsoftware/kryo/util/IntMap.java
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* /opt/cola/permits/1151708694_1617966949.44/0/kryo-3-0-3-sources-2-
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* /opt/cola/permits/1151708694_1617966949.44/0/kryo-3-0-3-sources-2-
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* /opt/cola/permits/1151708694_1617966949.44/0/kryo-3-0-3-sources-2-
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* /opt/cola/permits/1151708694_1617966949.44/0/kryo-3-0-3-sources-2-
1.2300 minimist 1.2.5

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1.2301 miekg-dns v1.1.43

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1.2302 dumb-init 1.2.2-1.1

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1.2303 python3-dnspython 1.16.0-1

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1.2304 lvm2 1.02.175-5.el8

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#
name: License

env:
MAVEN_ARGS: -B -C -V -ntp -Dhttp.keepAlive=false -e

on:
push:
   branches:
      - master
pull_request:

concurrency:
# Only run once for latest commit per ref and cancel other (previous) runs.
group: ci-license-kubernetes-client-{{ github.ref }}
cancel-in-progress: true

jobs:
style-check:
   name: License & Code Style Checks
   runs-on: ubuntu-latest
   steps:
      - name: Checkout
        uses: actions/checkout@v3
        with:
          fetch-depth: 0
      - name: Setup Java 8
        uses: actions/setup-java@v2
        with:
          java-version: '8'
          distribution: 'temurin'
      - name: Check License Headers
        run: ./mvnw ${MAVEN_ARGS} -N license:check

1.2306 jboss-interceptors 1.0.0-8.module_el8.0.0+39+6a9b6e22
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 */

Found in path(s):
* /opt/cola/permits/1274552126_1645214596.9/0/kafka-oauth-keycloak-authorizer-0-8-1-sources-
  jar/io/strimzi/kafka/oauth/server/authorizer/ScopesSpec.java
* /opt/cola/permits/1274552126_1645214596.9/0/kafka-oauth-keycloak-authorizer-0-8-1-sources-
  jar/io/strimzi/kafka/oauth/server/authorizer/AuthzConfig.java
* /opt/cola/permits/1274552126_1645214596.9/0/kafka-oauth-keycloak-authorizer-0-8-1-sources-
  jar/io/strimzi/kafka/oauth/server/authorizer/UserSpec.java
* /opt/cola/permits/1274552126_1645214596.9/0/kafka-oauth-keycloak-authorizer-0-8-1-sources-
  jar/io/strimzi/kafka/oauth/server/authorizer/ResourceSpec.java
* /opt/cola/permits/1274552126_1645214596.9/0/kafka-oauth-keycloak-authorizer-0-8-1-sources-
  jar/io/strimzi/kafka/oauth/server/authorizer/JwtKafkaPrincipalBuilder.java
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 */

/**
 * The method that makes the authorization decision.
 *
 * We assume authorize() is thread-safe in a sense that there will not be two concurrent threads
 * calling it at the same time for the same session.
 */
* Should that not be the case, the side effect could be to make more calls to token endpoint than necessary.
* Other than that it should not affect proper functioning of this authorizer.

* @param session Current session
* @param operation Operation to authorize
* @param resource Resource to authorize
* @return true if permission is granted
*/

Found in path(s):
* /opt/cola/permits/1274552126_1645214596.9/0/kafka-oauth-keycloak-authorizer-0-8-1-sources-jar/io/strimzi/kafka/oauth/server/authorizer/KeycloakRBACAuthorizer.java

1.2308 maven-shared-utils 3.1.0

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1.2309 @babel/plugin-transform-arrow-functions 7.18.6

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1.2310 libcroco 0.6.11-3

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That's all there is to it!

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* /opt/cola/permits/1151704924_1617968430.32/0/jctools-core-1-2-1-sources-2-jar/org/jctools/queues/SpscUnboundedArrayQueue.java
* /opt/cola/permits/1151704924_1617968430.32/0/jctools-core-1-2-1-sources-2-jar/org/jctools/queues/MessagePassingQueue.java
* /opt/cola/permits/1151704924_1617968430.32/0/jctools-core-1-2-1-sources-2-jar/org/jctools/queues/QueueFactory.java
* /opt/cola/permits/1151704924_1617968430.32/0/jctools-core-1-2-1-sources-2-jar/org/jctools/queues/SpmcArrayQueue.java
* /opt/cola/permits/1151704924_1617968430.32/0/jctools-core-1-2-1-sources-2-jar/org/jctools/queues/SpscLinkedAtomicQueue.java
* /opt/cola/permits/1151704924_1617968430.32/0/jctools-core-1-2-1-sources-2-jar/org/jctools/queues/SpscArrayQueue.java
* /opt/cola/permits/1151704924_1617968430.32/0/jctools-core-1-2-1-sources-2-jar/org/jctools/queues/SpscLinkedQueue.java
* /opt/cola/permits/1151704924_1617968430.32/0/jctools-core-1-2-1-sources-2-jar/org/jctools/util/Pow2.java
1.2316 stack 1.8.0

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1.2317 pgbackrest 2.32-1.pgdg100+1

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1.2318 jetty-servlets 9.4.43.v20210629

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

1.2319 libtls-standalone 2.7.4-r6
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1.2320 grpc-gateway 1.16.0
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1.2322 shadow-utils 4.6-14.el8

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1.2324 jersey-client 1.12

1.2325 python 3.7.3-1
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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from
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the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
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Current maintainer is Matthias Klose <doko@debian.org> until the final
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--------------------------------------------------------------

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/SortedMapDifference.java
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jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-
jar/com/google/common/reflect/MutableTypeToInstanceMap.java
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jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-
jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-
jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/io/CharSink.java
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jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-
jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-
jar/com/google/common/math/LinearTransformation.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-
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jar/com/google/common/math/PairedStats.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/StandardSystemProperty.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ServiceManager.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/CartesianList.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/BiMap.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ForwardingList.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ByFunctionOrdering.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/Multiset.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ObjectArrays.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/AbstractTable.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collect/EnumMultiset.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/util/concurrent/Closeables.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/package-info.java

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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/io/Resources.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/io/Files.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/io/ByteStreams.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/Platform.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableMultiset.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/RegularImmutableBiMap.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/Tables.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableMap.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/Table.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/UnmodifiableIterator.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/StandardRowSortedTable.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/Range.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/EmptyImmutableListMultimap.java
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 * Holder for extra methods of {code Objects} only in web. Intended to be empty for regular
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/graph/ImmutableGraph.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/graph/MutableNetwork.java

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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/graph/ElementOrder.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/TreeRangeSet.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/RemovalListeners.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/collection/RegularImmutableMultiset.java
* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/hash/HashCode.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/hash/AbstractStreamingHashFunction.java
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* /opt/cola/permits/1229376795_1640888458.31/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
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*<p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler wouldn't recognize
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*/

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 */

/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 */

<code>
public void createEvent(Date start, Date end) { ... }
</code>

* Can be specified on any method or constructor.

@<i>author</i> Gunnar Morling

*/

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Author: Philippe Muller
Author-email: philippe.muller@gmail.com
License: BSD
Description: procfs

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Easy to use

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>>> proc.self.uptime
datetime.timedelta(0, 346, 380262)

>>> proc.processes
  <Process 5: watchdog/0>, <Process 6: migration/1>, <Process 7: ksoftirqd/1>, <Process 8: watchdog/1>, <Process
  9: events/0>, <Process 10: events/1>, ...]>

>>> len(proc.processes)
110

>>> proc.processes.cmdline('(vim|ssh)')
  <Process 10440: sshd>, <Process 10504: sshd>]>

>>> proc.processes.uid(1000)
  10876: screen>, <Process 12908: bash>, ...]>

>>> proc.processes.user('pmuller').cmdline('python')[0]
<Process 3093: python>

Links
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.. _documentation: http://packages.python.org/procfs/
.. _github: http://github.com/pmuller/procfs

.. image:: https://d2weczhvl823v0.cloudfront.net/pmuller/procfs/trend.png
   :alt: Bitdeli badge
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Keywords: linux proc procfs system kernel
Platform: Linux
Classifier: Development Status :: 3 - Alpha
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: POSIX :: Linux
Classifier: Topic :: System :: Operating System Kernels :: Linux
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Found in path(s):
* /opt/cola/permits/1325652042_1652325992.1821346/0/procfs-0.3.0-tar-gz/procfs-0.3.0/procfs.egg-info/PKG-

INFO
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gdal/frmts/gtiff/tif_float.c

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gdal/frmts/hdf4/hdf-eos/*

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gdal/frmts/pcraster/libcsf

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gdal/ogr/ogrsf_frmts/dxf/intronurbs.cpp
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gdal/alg/thinplatespline.cpp

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IEEE754 log() code derived from:
@(#)_log.c 1.3 95/01/18

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gdal/frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())

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gdal/frmts/mrf/* (apply when MRF driver included in build)

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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.2397 wso2-carbon-tenant-mgt-core 4.6.15

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1.2401 jackson-datatype-jsr310 2.12.1

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1.2402 wso2-carbon-event-stream-admin

5.1.42

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1.2403 wso2-carbon-mediation-configadmin-ui 4.6.105

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1.2404 xorg 7.7+19

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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 * Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
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 */

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* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-
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jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-
jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-
jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-
jar/io/netty/channel/epoll/native-epoll-4-1-68-final-sources-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-
jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-
jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.2412 go-uuid v1.2.0

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1.2413 fdisk 2.32.1

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Eclipse

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.2415 afero wso2-apimcli-1.2.0

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fileNew.png
fileOpen.png
fileSave.png,
fit-page-32.png
Max-Planck-Institute Saarbruecken (Germany).
Fernando Luis Cacciola Carballal
AABB_tree 3D Fast Intersection and Distance Computation
Advancing_front_surface_reconstruction Advancing Front Surface Reconstruction
Alpha_shapes_2 2D Alpha Shapes
Alpha_shapes_3 3D Alpha Shapes
Apollonius_graph_2 2D Apollonius Graphs (Delaunay Graphs of Disks)
Arrangement_on_surface_2 2D Arrangements
Barycentric_coordinates_2 2D Generalized Barycentric Coordinates
Boolean_set_operations_2 2D Regularized Boolean Set-Operations
Bounding_volumes Bounding Volumes
Box_intersection_d Intersecting Sequences of dD Iso-oriented Boxes
Circular_kernel_2 2D Circular Geometry Kernel
Circular_kernel_3 3D Spherical Geometry Kernel
Classification Classification
Cone_spanners_2 Cone-Based Spanners
Convex_decomposition_3 Convex Decomposition of Polyhedra
Convex_hull_2 2D Convex Hulls and Extreme Points
Convex_hull_3 3D Convex Hulls
Convex_hull_d dD Convex Hulls and Delaunay Triangulations
Envelope_2 2D Envelopes
Envelope_3 3D Envelopes
GraphicsView CGAL and the Qt Graphics View Framework
Inscribed_areas Inscribed Areas
Interpolation 2D and Surface Function Interpolation
Interval_skip_list Interval Skip List
Jet_fitting_3 Estimation of Local Differential Properties of Point-Sampled Surfaces
Matrix_search Monotone and Sorted Matrix Search
Mesh_2 2D Conforming Triangulations and Meshes
Mesh_3 3D Mesh Generation
Minkowski_sum_2 2D Minkowski Sums
Minkowski_sum_3 3D Minkowski Sum of Polyhedra
Nef_2 2D Boolean Operations on Nef Polygons
Nef_3 3D Boolean Operations on Nef Polyhedra
Nef_S2 2D Boolean Operations on Nef Polygons Embedded on the Sphere
Optimal_transportation_reconstruction_2 Optimal Transportation Curve Reconstruction
Partition_2 2D Polygon Partitioning
Periodic_2_triangulation_2 2D Periodic Triangulations
Periodic_3_mesh_3 3D Periodic Mesh Generation
Periodic_3_triangulation_3 3D Periodic Triangulations
Point_set_2 2D Range and Neighbor Search
Point_set_3 3D Point Set
Point_set_processing_3 Point Set Processing
Point_set_shape_detection_3 Point Set Shape Detection
Poisson_surface_reconstruction_3 Poisson Surface Reconstruction
Polygon_mesh_processing Polygon Mesh Processing
Polygon_mesh_processing/Compute_normal Polygon Mesh Processing - Normal Computation
Polygon_mesh_processing/connected_components Polygon Mesh Processing - Connected Components
Polygon_mesh_processing/corefinement Polygon Mesh Processing - Corefinement
Polygon_mesh_processing/core Polygon Mesh Processing - Core
Polygon_mesh_processing/distance Polygon Mesh Processing - Distance
Polygon_mesh_processing/measure Polygon Mesh Processing - Geometric Measure
Polygon_mesh_processing/meshing_hole_filling Polygon Mesh Processing - Meshing and Hole Filling
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```
cmake -P generate_files.cmake
```

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```
fileOpen.png
```

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- include/CGAL/internal/boost/array_binary_tree.hpp
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#!/bin/zsh

# Script to be run at the root of a CGAL branch.
# It scans the license of the files in */include, and write the files
# */package_info/*/license.txt

setopt extendedglob

for p in ^*build*/; do
    if [ -d $p/include ]; then
        licFile=$p/package_info/$p/license.txt
        l=`licensecheck -r $p/include $p/src | awk -F': ' '{print $2}' | grep -v BSL | sed -e 's/ *GENERATED FILE//' | sort -u`
        if [ "x`echo $l | wc -l" = "x1" ]; then
            echo $l > "$licFile"
        elif [ -z "`echo $l | grep -Ev '^L?GPL (v3 or later) *$'" ]; then
            echo 'GPL (v3 or later)' > "$licFile"
        else
            #          echo "MULTIPLE!" > "$licFile";
            echo $l > "$licFile"
        fi
    fi
done

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Min_quadrilateral_2
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Manifest-Version: 1.0
Build-Jdk: 1.8.0_91
Built-By: mdb
Bundle-ActivationPolicy: lazy
Bundle-Description: A Java implementation of the Mustache templating language.
1.2430 client-golang 1.1.0

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1.2436 http-errors 2.0.0
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1.2437 jackson-annotations 2.10.2

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1.2438 apimachinery 0.17.2

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1.2439 has-symbol-support-x 1.4.2
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**1.2440 perl-threads-shared 1.58-2.el8**

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```plaintext
/* shared.xs
 *
 * Copyright (c) 2001-2002, 2006 Larry Wall
 *
 * You may distribute under the terms of either the GNU General Public
 * License or the Artistic License, as specified in the README file.
 *
 * "Hand any two wizards a piece of rope and they would instinctively pull in
 * opposite directions."
 * --Sourcery
 *
 * Contributed by Artur Bergman <sky AT crucially DOT net>
 * Pulled in the (an)other direction by Nick Ing-Simmons
 * <nick AT ing-simmons DOT net>
 * CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>
 */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548094_1591901909.08/0/perl-threads-shared-1.58-2.el8.src.rpm-cosi-
expand-archive-r04CR91Q/threads-shared-1.58.tar.gz-cosi-expand-archive-XH2RZBES/threads-shared-1.58/shared.xs

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/*

====================================================================

ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

====================================================================

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.
Tell *ppport.h* to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of *ppport.h* if you intend to be backward compatible only down to a certain Perl version.

Usually, *ppport.h* will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs *ppport.h* to leave C++ comments untouched.

Be quiet. Don't print anything except fatal errors.

Don't output any diagnostic messages. Only portability alerts will be printed.

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

Strip all script and documentation functionality from *ppport.h*. This reduces the size of *ppport.h* dramatically and may be useful if you want to include *ppport.h* in smaller modules without increasing their distribution size too much.

The stripped *ppport.h* will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radixGLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```perl
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```perl
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions
for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using
the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function,
use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression,
you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/^

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

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=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $ perl_version_num >= 5.009004 && $ perl_version_num <= 5.009005 }

my $VERSION = 3.19;

my %opt = (
quiet => 0,
diag => 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|\r\n)';  # line feed
my $HS = "[ \t]";        # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/*';
my $cce = '*/';
my $rccs = quotemeta $ccs;
my $rcc = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw( 
        help quiet diag! filter! hints! changes! cplusplus strip version 
        patch=s copy=s diff=s compat-version=s 
        list-provided list-unsupported api-info=s 
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION.
";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: "$opt{'compat-version'}
    }
    die "Only Perl 5 is supported'\n" if $r ! 5;
die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
$opt{'compat-version'} = sprintf "%.3d%.3d", $r, $v, $s;
}
else {
$opt{'compat-version'} = 5;
}

my %API = map { /^\w+\|\[^|\]*\|\[^|\]*\|\w+$*/
  ? ( $1 => { ($2                  ? ( base     => $2 ) : ()),
                ($3                  ? ( todo     => $3 ) : ()),
                (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
                (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
                (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())
  )
GIMME|||n
GROK_NUMERIC_RADIX[5.007002][p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_METHOD[5.006001][p
G_NOARGS|||
G_SCALAR|||
G_VOID[5.004000]
GetVars|||
GvSVn[5.009003][p
GvSV|||
Gv_AMupdate|||
HEf_SVKEY[5.004000]
HeHASH[5.004000]
HeKEY[5.004000]
HeKLEN[5.004000]
HePV[5.004000]
HeSVKEY_force[5.004000]
HeSVKEY_set[5.004000]
HeSVKEY[5.004000]
HeUTF8[5.011000]
HeVAL[5.004000]
HvNAMELEN_get[5.009003][p
HvNAME_get[5.009003][p
HvNAME|||
INT2PTR[5.006000][p
IN_LOCALE_COMPILETIME[5.007002][p
IN_LOCALE_RUNTIME[5.007002][p
IN_LOCALE[5.007002][p
IN_PERL_COMPILETIME[5.008001][p
IS_NUMBER_GREATER_THAN_UV_MAX[5.007002][p
IS_NUMBER_INFINITY[5.007002][p
IS_NUMBER_IN_UV[5.007002][p
IS_NUMBER_NAN[5.007003][p
IS_NUMBER_NEG[5.007002][p
IS_NUMBER_NOT_INT[5.007002][p
IVSIZE[5.006000][p
IVTYPE[5.006000][p
IVdf[5.006000][p
LEAVE|||
LVRET|||
MARK|||
MULTICALL[5.011000]
MY_CXT_CLONE[5.009002][p
MY_CXT_INIT[5.007003][p
MY_CXT[5.007003][p
MoveD[5.009002][p
Move||
NOOP[5.005000]|p
NUM2PTR[5.006000]|p
NVTYPE[5.006000]|p
NVef[5.006001]|p
NVrf[5.006001]|p
NVgf[5.006001]|p
Newxc[5.009003]|p
Newxz[5.009003]|p
Newx[5.009003]|p
Nullav||
Nullch||
Nullcv||
Nullhv||
Nullsv||
ORIGMARK||
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_DUP|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SV|||
PAD_SV|||
PERLIO_FUNCS_CAST[5.009003]|p
PERLIO_FUNCS_DECL[5.009003]|p
PERL_ABS[5.008001]|p
PERL_BCDVERSION[5.011000]|p
PERL_GCC_BRACE_GROUPS_FORBIDDEN[5.008001]|p
PERL_HASH[5.004000]|p
PERL_INT_MAX[5.004000]|p
PERL_INT_MIN[5.004000]|p
PERL_LONG_MAX[5.004000]|p
PERL_LONG_MIN[5.004000]|p
PERL_MAGIC_arylen[5.007002]|p
PERL_MAGIC_backref[5.007002]|p
PERL_MAGIC_bmp[5.007002]|p
PERL_MAGIC_collxfrm[5.007002]|p
PERL_MAGIC_dbfile[5.007002]|p
PERL_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3|5.006000|
PERL_SYS_INIT||
PERL_SYS_TERM|5.011000|
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_UNUSED_Arg|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle||pn
PL_DBsub||pn
PL_DBtrace||pn
PL_Sv|5.005000||p
PL_bufend|5.011000||p
PL_bufptr|5.011000||p
PL_compiling|5.004050||p
PL_copline|5.011000||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn||pn
PL_errgv|5.004050||p
PL_error_count|5.011000||p
STMT_END||p
STMT_START||p
STR_WITH_LEN[5.009003]|p
ST|||
SV_CONST_RETURN[5.009003]|p
SV_COW_DROP_PV[5.008001]|p
SV_COW_SHARED_HASH_KEYS[5.009005]|p
SV_GMAGIC[5.007002]|p
SV_HAS_TRAILING_NUL[5.009004]|p
SV_IMMEDIATE_UNREF[5.007001]|p
SV_MUTABLE_RETURN[5.009003]|p
SV_NOSTEAL[5.009002]|p
SV_SMAGIC[5.009003]|p
SV_UTF8_NO_ENCODING[5.008001]|p
SVfARG[5.009005]|p
SVf_UTF8[5.006000]|p
SVf[5.006000]|p
SV_IV|||
SV_IV_NV|||
SV_IV_PVAV|||
SV_IV_PVCV|||
SV_IV_PVHV|||
SV_IV_PVMG|||
SV_IV_PV|||
Safefree|||
Slab_Alloc|||
Slab_Free|||
Slab_to_rw|||
StructCopy|||
SvCUR_set|||
SvCUR|||
SvEND|||
SvGAMAGIC[5.006001]
SvGETMAGIC[5.004050]|p
SvGROW|||
SvIOK_UV[5.006000]
SvIOK_notUV[5.006000]
SvIOK_off|||
SvIOK_only_UV[5.006000]
SvIOK_only|||
SvIOK_on|||
SvIOKp|||
SvIOK|||
SvIVX|||
SvIV_nomg[5.009001]|p
SvIV_set|||
SvIVx|||
SvIV|||

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 24816
SvIsCOW_shared_hash|5.008003|
SvIsCOW|5.008003|
SvLEN_set||
SvLEN||
SvLOCK|5.007003|
SvMAGIC_set|5.009003||p
SvNIOK_off||
SvNIOKp||
SvNIOK||
SvNOK_off||
SvNOK_only||
SvNOK_on||
SvNOKp||
SvNOK||
SvNVX||
SvNV_set||
SvNVx||
SvNV||
SvOK||
SvOOK_offset|5.011000|
SvOOK||
SvPOK_off||
SvPOK_only=UTF8|5.006000|
SvPOK_only||
SvPOK_on||
SvPOKp||
SvPOK||
SvPVX_const|5.009003||p
SvPVX_mutable|5.009003||p
SvPVX||
SvPV_const|5.009003||p
SvPV_flags_const_nolen|5.009003||p
SvPV_flags_const|5.009003||p
SvPV_flags_mutable|5.009003||p
SvPV_flags|5.007002||p
SvPV_force_flags_mutable|5.009003||p
SvPV_force_flags_nolen|5.009003||p
SvPV_force_flags_nomg_nolen|5.009003||p
SvPV_force_nomg|5.007002||p
SvPV_force|5.009003||p
SvPV_mutable|5.009003||p
SvPV_nolen_const|5.009003||p
SvPV_nolen|5.006000||p
SvPV_nomg_const_nolen|5.009003||p
SvPV_nomg_const|5.009003||p
SvPV_nomg|5.007002||p
SvPV_renew|5.009003||p
SvPV_set||
SvPVbyte_force|5.009002|
SvPVbyte_nolen|5.006000|
SvPVbytex_force|5.006000|
SvPVbytex|5.006000||p
SvPVutf8_force|5.006000|
SvPVutf8_nolen|5.006000|
SvPVutf8x_force|5.006000|
SvPVutf8x|5.006000|
SvPVutf8|5.006000|
SvPVx||]
SvPV||
SvREFCNT_dec||
SvREFCNT_inc_NN|5.009004||p
SvREFCNT_inc_simple_NN|5.009004||p
SvREFCNT_inc_simple_void_NN|5.009004||p
SvREFCNT_inc_simple_void|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_void_NN|5.009004||p
SvREFCNT_inc_void|5.009004||p
SvREFCNT_inc|5.009004||p
SvREFCNT||
SvROK_off||
SvROK_on||
SvROK||
SvRV_set|5.009003||p
SvRV||
SvRXOK|5.009005|
SvRX|5.009005|
SvSETMAGIC||
SvSHARED_HASH|5.009003||p
SvSHARE|5.007003|
SvSTASH_set|5.009003||p
SvSTASH||
SvSetMagicSV_nosteal|5.004000|
SvSetMagicSV|5.004000|
SvSetSV_nosteal|5.004000|
SvSetSV||
SvTAINTED_off|5.004000|
SvTAINTED_on|5.004000|
SvTAINTED|5.004000|
SvTAINT||
SvTRUE||
SvTYPE||
SvUNLOCK|5.007003|

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 24818
av_shift||
av_store||
av_undef||
av_unshift||
ax||n
bad_type||
bind_match||
block_end||
block_gimme[5.004000]
block_start||
boolSV[5.004000]|p
boot_core_PerlIO||
boot_core_UNIFORMAL||
boot_core_mro||
bytes_from_utf8[5.007001]
bytes_to_uni||n
bytes_to_utf8[5.006001]
call_argv[5.006000]|p
call_atexit[5.006000]
call_list[5.004000]
call_method[5.006000]|p
call_pv[5.006000]|p
call_sv[5.006000]|p
calloc[5.007002]|p
cando||
cast_i32[5.006000]
cast_iv[5.006000]
cast_ulong[5.006000]
cast_uv[5.006000]
check_type_and_open||
check_uni||
checkcomma||
checkposixcc||
ckWARN[5.006000]|p
ck_anoncode||
ck_bitop||
ck_concat||
ck_defined||
ck_delete||
ck_die||
ck_each||
ck_eof||
ck_eval||
ck_exec||
ck_exists||
ck_exit||
ck_fst||
ck_fun||
cv_ckproto_len||
cv_clone||
cv_const_sv||
cv_dump||
cv_UNDEF||
cx_dump||
cx_dup||
cxinc||
dAXMARK||
dAX||
dITEMS||
dMARK||
dMULTICALL||
dMY_CXT_SV||
dMY_CXT||
dNOOP||
dORIGMARK||
ESP||
dTHR||
dTHXR||
dTHXa||
dTHXoa||
dTHX||
dUNDERBAR||
dVAR||
dXCPT||
dXSARGS||
dXSI32||
dXSTARG||
deb_curcv||
deb_nocontext||
deb_stack_all||
deb_stack_n||
debop||
debprofdump||
debprof||
debstackptrs||
debstack||
deb_start_match||
deb||
del_sv||
delete_eval_scope||
delimcpy||
deprecate_old||
deprecate||
despatch_signals||
destroy_matcher||
die_nocontext||
die_where

die

dirp_dup

div128

djSP

do_aexec5

do_aexec4

do_aspawn

do_binmode[5.004050]
do_chomp

do_chop

do_close

do_dump_pad

do_eof

do_exec3

do_execfree

do_exec

do_gv_dump[5.006000]
do_gvgv_dump[5.006000]
do_hv_dump[5.006000]
do_ipcctl

do_ipcget

do_join

do_kv

do_magic_dump[5.006000]
do_msgrecv

do_msgsnd

do_oddball

do_op_dump[5.006000]
do_op_xmldump

do_open9[5.006000]
do_openn[5.007001]
do_open[5.004000]
do_pmop_dump[5.006000]
do_pmop_xmldump

do_print

do_readline

do_seek

do_semop

do_shmio

do_smartmatch

do_spawn_nowait

do_spawn

do_sprintf

do_sv_dump[5.006000]
do_sysseek

do_tell

do_trans_complex_utf8
fbm_compile
fbm_instr
feature_is_enabled
fetch_cop_label
filter_add
filter_del
filter_gets
filter_read
find_and_forget_pmops
find_array_subscript
find_beginning
find_byclass
find_hash_subscript
find_in_my_stash
find_runcv
find_rundefsvoffset
find_script
find_uninit_var
first_symbol
fold_constants
forbid_setid
force_ident
force_list
force_next
force_version
force_word
forget_pmop
form_nocontext
form
fp_dup
fprintf_nocontext
free_global_struct
free_tied_hv_pool
free_tmps
gen_constant_list
get_arena
get_aux_mg
get_av
get_context
get_cvn_flags
get_cv
get_db_sub
get_debug_opts
get_hash_seed
get_hv
get_isa_hash
get_mstats
get_no_modify
gv_get_super_pkg[|]
gv_handler[5.007001]
gv_init_sv[|]
gv_init[|]
gv_name_set[5.009004]
gv_stashpvn[5.004000][p]
gv_stashpvs[5.009003][p]
gv_stashpv[|]
gv_stashsv[|]
he_dup[|]
hek_dup[|]
hfreeentries[|]
hsplit[|]
hv_assert[5.011000]
hv_auxinit[|]n
hv_backreferences_p[|]
hv_clear_placeholders[5.009001]
hv_clear[|]
hv_common_key_len[5.010000]
hv_common[5.010000]
hv_copyhints_hv[|]
hv_delayfree_ent[5.004000]
hv_delete_common[|]
hv_delete_ent[5.004000]
hv_delete[|]
hv_eiter_p[5.009003]
hv_eiter_set[5.009003]
hv_exists_ent[5.004000]
hv_exists[|]
hv_fetch_ent[5.004000]
hv_fetchs[5.009003][p]
hv_fetch[|]
hv_free_ent[5.004000]
hv_iterinit[|]
hv_iterkeys[5.004000]
hv_iterkey[|]
hv_iternext_flags[5.008000]
hv_iternextsv[|]
hv_iternext[|]
hv_iterval[|]
hv_kills_backrefs[|]
hv_ksplit[5.004000]
hv_magic_check[|]n
hv_magic[|]
hv_name_set[5.009003]
hv_notallowed[|]
hv_placeholders_get[5.009003]
hv_placeholders_p[5.009003]
hv_placeholders_set[5.009003]
hv_riter_p[5.009003]
hv_riter_set[5.009003]
hv_scalar[5.009001]
hv_store_ent[5.004000]
hv_store_flags[5.008000]
hv_stores[5.009004]
hv_store
hv_undef]
ibcmp_locale[5.004000]
ibcmp_utf8[5.007003]
ibcmp]
incline]
incpush_if_exists]
incpush_use_sep]
incpush]
ingroup]
init_argv_symbols]
init_debugger]
init_global_struct]
init_i18n10n[5.006000]
init_i18n14n[5.006000]
init_ids]
init_interp]
init_main_stash]
init_perllib]
init_postdump_symbols]
init_predump_symbols]
init_stacks[5.005000]
init_tm[5.007002]
instr]
intro_my]
intuit_method]
intuit_more]
invert]
io_close]
isALNUMC[5.006000]
isALNUM]
isALPHA]
isASCII[5.006000]
isBLANK[5.006001]
isCNTRL[5.006000]
isDIGIT]
isGRAPH[5.006000]
isGV_with_GP[5.009004]
isLOWER]
isPRINT[5.004000]
isPSXSPC[5.006001]
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make_trie
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markstack_grow
matcher_matches_sv
measure_struct
memEQ\[5.004000\]
memNE\[5.004000\]
mem_collxfrm
mem_log_common
mess_alloc
mess_nocontext
mess\[5.006000\]
method_common
mfree\[5.007002\]
mg_clear
mg_copy
mg_dup
mg_find
mg_free
mg_get
mg_length\[5.005000\]
mg_localize
mg_magical
mg_set
mg_size\[5.005000\]
mini_mktime\[5.007002\]
missingterm
mode_from_discipline
modkids
mod
more_bodies
more_sv
moreswitches
mro_get_from_name\[5.011000\]
mro_get_linear_isa
mro_get_linear_isa_dfs
mro_get_private_data\[5.011000\]
mro_isa_changed_in
mro_meta_dup
mro_meta_init
mro_method_changed_in\[5.009005\]
mro_register\[5.011000\]
mro_set_mro
mro_set_private_data\[5.011000\]
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mulexp10||n
my_atof2][5.007002]
my_atof][5.006000]
my_attrs||
my_bcopy][n
my_betoh16][n
my_betoh32][n
my_betoh64][n
my_betohi][n
my_betohl][n
my_betols][n
my_bzero][n
my_chsize][
my_clearenv][
my_cxt_index][
my_cxt_index][
my_dirfd][5.009005]
my_exit_jump][
my_exit][
my_failure_exit][5.004000]
my_fflush_all][5.006000]
my_fork][5.007003][n
my_htobe16][n
my_htobe32][n
my_htobe64][n
my_htobei][n
my_htobei][n
my_htobes][n
my_htole16][n
my_htole32][n
my_htole64][n
my_htolei][n
my_htolei][n
my_htoles][n
my_htonl][
my_kid][
my_letoh16][n
my_letoh32][n
my_letoh64][n
my_letohi][n
my_letohi][n
my_letohs][n
my_lstat][
my_memcmp][5.004000][n
my_memset][n
my_ntohl][
my_pclose][5.004000]
my_popen_list][5.007001]
pad_push
pad_reset
pad_setsv
pad_sv
pad_swipe
pad_tidy
pad_undef
parse_body
parse_unicode_opts
parser_dup
parser_free
path_is_absolute
peep
pending_Slabs_to_ro
perl_alloc_using
perl_alloc
perl_clone_using
perl_clone
perl_construct
perl_destruct
perl_free
perl_parse
perl_run
pidgone
pm_description
pmflag
pmop_dump
pmop_xmlDump
pmruntime
pmtrans
pop_scope
pregcomp
pregexec
pregfree2
pregfree
prepend_elem
prepend_madprops
printbuf
printf_nocontext
process_special_blocks
ptr_table_clear
ptr_table_fetch
ptr_table_find
ptr_table_free
ptr_table_new
ptr_table_split
ptr_table_store
push_scope
regatom
regbranch
regclass_swash
regclass
regcppop
regcppush
regcurly
regdump_extflags
regdump
regdupe_internal
regexec_flags
regfree_internal
reghop3
reghop4
reghopmaybe3
reginclass
reginitcolors
reginsert
regmatch
regnext
regpiece
regpposixcc
regprop
regrepeat
regtail_study
regtail
regtry
reguni
regwhite
reg
repeatcpy
report_evil_fh
report_uninit
require_pv
require_tie_mod
restore_magic
minstr
rsignal_restore
rsignal_save
rsignal_state
rsignal
run_body
run_user_filter
runops_debug
runops_standard
rvpv_dup
rxres_free
rxres_restore
rxres_save||
safesyscalloc[5.006000]
safesysfree[5.006000]
safesysmalloc[5.006000]
safesysrealloc[5.006000]
same_dirent||
save_116[5.004000]
save_132||
save_18[5.006000]
save_adelete[5.011000]
save_aelem[5.004050]
save_alloc[5.006000]
save_aptr||
save_ary||
save_boo[5.008000]
save_clearsv||
save_delete||
saveDestructor_x[5.006000]
saveDestructor[5.006000]
save_freeop||
save_frepv||
save_freesv||
save_generic_pvref[5.006000]
save_generic_svref[5.005030]
save_gp[5.004000]
save_hash||
save_hek_flags||n
save_helem_flags[5.011000]
save_helem[5.004050]
save_hints||
save_hptr||
save_int||
save_item||
save_iv[5.005000]
save_lines||
save_list||
save_long||
save_magic||
save_mortalizesv[5.007000]
save_nogv||
save_op||
save_pads_and_mortalize[5.011000]
save_pptr||
save_pushi32ptr||
save_pushptr32ptr||
save_pushptrptr||
save_pushptr[5.011000]
save_re_context[5.006000]
save_scalar_at
save_scalar
save_set_svflags[5.009000]
save_shared_pvref[5.007003]
save_sptr
save_svref
save_vpfr[5.006000]
savepvn
savepvs[5.009003]
savepv
savesharedpvn[5.009005]
savesharedpv[5.007003]
savestack_grow_cnt[5.008001]
savestack_grow
savespv[5.009002]
sawparen
scalar_mod_type[n]
scalarboolean
scalarkids
scalarseq
scalarvoid
scalar
scan_bin[5.006000]
scan_commit
scan_const
scan_formline
scan_heredoc
scan_hex
scan_ident
scan_inputsymbol
scan_num[5.007001]
scan_oct
scan_pat
scan_str
scan_subst
scan_trans
scan_version[5.009001]
scan_vstring[5.009005]
scan_word
scope
screaminstr[5.005000]
search_const
seed[5.008001]
sequence_num
sequence_tail
sequence
set_context[5.006000]
set_numeric_local[5.006000]
sv_does||5.009004|
sv_dump||
sv_dup_inc_multiple||
sv_dup||
sv_eq||
sv_exp_grow||
sv_force_normal_flags||5.007001|
sv_force_normal||5.006000|
sv_free2||
sv_free_arenas||
sv_free||
sv_gets||5.004000|
sv_grow||
sv_incmp||
sv_inc||
sv_insert_flags||5.011000|
sv_insert||
sv_isa||
sv_isobject||
sv_iv||5.005000|
sv_kill_backrefs||
sv_len_utf8||5.006000|
sv_len||
sv_magic_portable||5.011000|5.004000|p
sv_magicext||5.007003|
sv_magic||
sv_mortalcopy||
svncmp||
sv_newmortal||
sv_newref||
sv_nolocking||5.007003|
sv_nosharing||5.007003|
sv_nounlocking||
sv_nv||5.005000|
sv_peek||5.005000|
sv_pos_b2u_midway||
sv_pos_b2u||5.006000|
sv_pos_u2b_cached||
sv_pos_u2b_forwards||n
sv_pos_u2b_midway||n
sv_pos_u2b||5.006000|
sv_pvbyten_force||5.006000|
sv_pvbyten||5.006000|
sv_pvbyte||5.006000|
sv_pvn_force_flags||5.007002|p
sv_pvn_force||
sv_pvn_nomg||5.007003|5.005000|p
sv_pvn||5.005000|
sv_usepvn_flags||5.009004|
sv_usepvn_mg|5.004050|p
sv_usepvn
sv_utf8_decode|5.006000|
sv_utf8 downgrade|5.006000|
sv_utf8 encode|5.006000|
sv_utf8 upgrade_flags_grow|5.011000|
sv_utf8 upgrade_flags|5.007002|
sv_utf8 upgrade_nonmg|5.007002|
sv_utf8 upgrade|5.007001|
sv_uv|5.005000|p
sv_vcatpvf_mg|5.006000|5.004000|p
sv_vcatpvfn|5.004000|
sv_vcatpvf|5.006000|5.004000|p
sv_vsetpvf_mg|5.006000|5.004000|p
sv_vsetpvfn|5.004000|
sv_vsetpvf|5.006000|5.004000|p
sv_xmlpeek||
svtype||
swallow_bom||
swap_match_buff||
swash_fetch|5.007002|
swash_get||
swash_init|5.006000|
sys_init3|5.010000|n
sys_init|5.010000|n
sys_intern_clear||
sys_intern_dup||
sys_intern_init||
sys_term|5.010000|n
taint_env||
taint_proper||
tmps_grow|5.006000|
toLOWER||
toUPPER||
to_byte_substr||
to_uni_fold|5.007003|
to_uni_lower_lc|5.006000|
to_uni_lower|5.007003|
to_uni_title_lc|5.006000|
to_uni_title|5.007003|
to_uni_upper_lc|5.006000|
to_uni_upper|5.007003|
to_utf8_case|5.007003|
to_utf8_fold|5.007003|
to_utf8_lower|5.007003|
to_utf8_substr||
to_utf8_title|5.007003|
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vload_module|5.006000||p
vmess||5.006000|
vnsvpbv|5.006000|5.004000|p
vnormal|5.009002|
vnnumify|5.009000|
vstringify|5.009000|
vverify|5.009003|
vwarn|5.006000|
warn|5.006000|
wait4pid||
warn_nocontext||vn
warner_nocontext||vn
warnerv|5.006000|5.004000|pv
warn||v
watch||
whichsig||
write_no_mem||
write_to_stderr||
xmldump_all||
xmldump_attr||
xmldump_eval||
xmldump_form||
xmldump_indent||v
xmldump_packsubs||
xmldump_sub||
xmldump_vindent||
yerror||
yylex||
yyparse||
yywarn||
);

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), ","n";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {

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$function->[1] = $_;
}
}
$function = [S1, ""] if m{/^DPPP_\(my_(\w+)\)/};

$replace = S1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+\$rcce\s*\$};
$replace[S2] = S1 if $replace and m{^\s*$\#define\s+(\w+)\(?\([^)]*\)\)?\s+\$rcce\s*\$};
$replace[S2] = S1 if m{^\s*$\#define\s+\+(\w+)\(...\)?\s+\+\$(\d+)\s+\$rcce\s*\$};
$replace[S1] = S2 if m{^\s*$rccs\s+Replace \((\w+)\) with \((\w+)\)\s+\$rcce\s*\$};

if (m{^\s*$rccs\s+\+(\w+\+\(\w+\+\(\w+\+\(\w+)\)?\s+\$rcce\s*\$}) { $replace and m{^\s*$\#define\s+(\w+)\(?\([^)]*\)\)?\s+\$rcce\s*\$};
  my @deps = map { s/\s+/g; $_. } split /, /3;
  my $d;
  for $d (map { s/\s+/g; $_. } split /, /1) {
    push @[$depends{$d}], @deps;
  }
}

$need[S1] = 1 if m{/^\#if\s+defined\(NEED_\(\w+\)?\_GLOBAL\)?\)/};
}

for (values %depends) {
  my \%s;
  $= [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "$\Q$opt{'api-info'}\E";
  for $f (sort { lc $a cmp lc $b } keys $API) {
    next unless $f =~ /$match/;
    print "$\n=== $f ===

" if ($API{$f}{base} || $API{$f}{todo})
    print "Supported at least starting from perl-$base.";
    $info++;
    if ($API{$f}{provided})
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo.";
      print "$\nDepends on: ", join(',', @[$depends{$f}]), ",\n" if exists $depends{$f};
      print "$\nHints:\n$\ $hints{$f}" if exists $hints{$f};
      print "$\nWarnings:\n$\ $warnings{$f}" if exists $warnings{$f};
      $info++;
" if exists $warnings{$f};
      $info++;
    }
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching 'sopt\{'api-info\}'.';"
print "\n";
exit 0;
}
if (exists $sopt\{'list-provided\'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $API{$f}{provided};
  my @flags;
  push @flags, 'explicit' if exists $need{$f};
  push @flags, 'depend' if exists $depends{$f};
  push @flags, 'hint' if exists $hints{$f};
  push @flags, 'warning' if exists $warnings{$f};
  my $flags = @flags ? '['.join(',', @flags).']': "";
  print "$f$flags\n";
 } exit 0;
 }
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
 my %seen;
 for (@ARGV) {
 if (-e) {
 if (-f) {
 push @files, $_ unless $seen{$_}++; }
 else { warn "'$_' is not a file.\n" }
 } else { warn "$_ is not a file.\n" }
 } else {
 my @new = grep { -f } glob $_
 or warn "$_ does not exist.\n";
 push @files, grep { !$seen{$_}++ } @new;
 } }
else {
 eval {
 require File::Find;
 File::Find::find(sub {


$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )

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my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "\$revreplace\{$func\}" if exists $revreplace{$func};
    if ($c =~ /$match/()) {
        $file{uses_replace}{$func}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /\bPerl_\b/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}{$func}++;
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
                my @deps = rec_depend($func);
                for (@deps) {
                    $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                }
            }
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
        if ($c =~ /\b\$func\b/)
            $file{uses_todo}{$func}++;
    }
}

while ($c =~ /\bdefine\b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
}
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}

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for $func (sort keys %{$file{uses_replace}}) {  
    warning("Uses $func instead of $replace{$func}");  
    $file{changes} += ($c =~ s\bPerl_$func\(\s*\)\((\s*aTHX_?\)?\s*)\$func\1\)g);  
}

for $func (sort keys %{$file{uses_provided}}) {  
    if ($file{uses} {$func}) {  
        if (exists $file{uses_deps} {$func}) {  
            diag("Uses $func, which depends on ", join(’,’, @{$file{uses_deps} {$func}}));  
        } else {  
            diag("Uses $func");  
        }  
    }  
    $warnings += hint($func);  
}

unless ($opt{quiet}) {  
    for $func (sort keys %{$file{uses_todo}}) {  
        print "*** WARNING: Uses $func, which may not be portable below perl ",  
            format_version($API{$func} {todo}), ", even with \"$ppport\u\";  
        $warnings++;  
    }  
}

for $func (sort keys %{$file{needed_static}}) {  
    my $message = ";;  
    if (not exists $file{uses} {$func}) {  
        $message = "No need to define NEED_$func if $func is never used";  
    } elsif (exists $file{needs} {$func} & $file{needs} {$func} ne 'static') {  
        $message = "No need to define NEED_$func when already needed globally";  
    } if ($message) {  
        diag($message);  
        $file{changes} += ($c =~ s/^\S*\S*define\S*NEED_$func\.*$LF//mg);  
    }  
}

for $func (sort keys %{$file{needed_global}}) {
my $message = "";
if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
}
elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
        $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
        $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
}
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "",
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files @{$global{needs}{$func}} need $func, adding global request");
            }
            else {
                diag("File needs $func, adding static request");
            }
        }
        $pp .= "#define NEED_${func}suffix\n";
    }
}
if ($pp && ($c =~ s/^\$HS*\$HS*define\$HS+NEED_.+[w+]\$/pp/m)) {
    $pp = "",
    $file{changes}++;
}
unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp = qq(#include "$ppport\n"
if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
        || ($c =~ s/^($HS*#/SHS*include.\Q$ppport\E)/$pp/m)
        || ($c =~ s/^($HS*#SHS*include.\Q$ppport\E.*XSUB.\w*?)/$1$pp/m)
        || ($c =~ s/^/$pp/);
}
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'" );
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\E/\Q$ppport\E.*?SLF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}"
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'" );
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'" );
                print F $c;
            } else {
                error("Failed to open '$newfile' for writing" );
            }
        }
    }
}
close F;
}
else {
    error("Cannot open '$newfile' for writing: $!");
}
}

elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            }
        }
        else {
            error("Cannot open '$opt{patch}' for writing: $!");
            delete $opt{patch};
            $opt{changes} = 1;
            goto fallback;
        }
        mydiff(*PATCH, $filename, $c);
    }
    else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    } else { 
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    } 
    else { 
        info("Looks good");
    }
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;": return $@ eq "" }

sub mydiff
{
    local *F = shift;

my($file, $str) = @_;  
my $diff;

if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
}

if ('!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER

    if ('!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if ('!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if ('!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = '';  
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "<$tmp") {
            while (<F>) {
                

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s/$tmp$/file.patched/;
$diff .= $_; 
}
close F;
unlink $tmp;
return $diff;
}

unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}
return undef;
}

sub rec_depend
{
    my($func, $seen) = @_;
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+(\d+\d*)\d+$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\d+\d+\d+$/) {
        die "cannot parse version '$ver'
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /(\d+)(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
die "cannot parse version '$ver\n";  
}
}

return ($r, $v, $s);
}

sub format_version
{
my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+/\.\d{3}\.\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver\n";
    }
    $s /= 10;

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{

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=head1 NAME

threads::shared - Perl extension for sharing data structures between threads

=head1 VERSION

This document describes threads::shared version 1.58

=head1 SYNOPSIS

use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone({'foo' => [qw/foo bar baz/]});
$hsh{‘foo’} = $scalar_value;
$hsh{‘bar’} = $shared_ref_value;
$hsh{‘baz’} = shared_clone($non_shared_ref_value);
$hsh{‘quz’} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone([ {}, [] ]);  

{  lock(%hash); ...  }

cond_wait($scalar);
cond_timedwait($scalar, time() + 30);
cond_broadcast(@array);
cond_signal(%hash);

my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time()+30, $lockvar);

=head1 DESCRIPTION

By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the L<threads> module.

This module supports the sharing of the following data types only: scalars and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>, C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal> and C<cond_broadcast>

Note that if this module is imported when L<threads> has not yet been loaded, then these functions all become no-ops. This makes it possible to write modules that will work in both threaded and non-threaded environments.

=head1 FUNCTIONS

=over 4

=item share VARIABLE
C<share> takes a variable and marks it as shared:

```perl
my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);
```

C<share> will return the shared rvalue, but always as a reference.

Variables can also be marked as shared at compile time by using the C<shared> attribute:

```perl
my ($var, %hash, @array) :shared;
```

Shared variables can only store scalars, refs of shared variables, or refs of shared data (discussed in next section):

```perl
my ($var, %hash, @array) :shared;
my $bork;

# Storing scalars
$var = 1;
$hash{'foo'} = 'bar';
$array[0] = 1.5;

# Storing shared refs
$var = %hash;
$hash{'ary'} = @array;
$array[1] = $var;

# The following are errors:
#   $var = $bork;                    # ref of non-shared variable
#   $hash{'bork'} = [];               # non-shared array ref
#   push(@array, { 'x' => 1 });       # non-shared hash ref
```

C<shared_clone> takes a reference, and returns a shared version of its argument, performing a deep copy on any non-shared elements. Any shared elements in the argument are used as is (i.e., they are not cloned).

```perl
my $cpy = shared_clone({'foo' => ['foo bar baz']});
```

Object status (i.e., the class an object is blessed into) is also cloned.

```perl
my $obj = {'foo' => ['foo bar baz']};
bless($obj, 'Foo');
```
my $cpy = shared_clone($obj);
print(ref($cpy), "\n"); # Outputs 'Foo'

For cloning empty array or hash refs, the following may also be used:

$var = &share([]); # Same as $var = shared_clone([]);
$var = &share({}); # Same as $var = shared_clone({});

Not all Perl data types can be cloned (e.g., globs, code refs). By default, C<shared_clone> will L<croak|Carp> if it encounters such items. To change this behaviour to a warning, then set the following:

$threads::shared::clone_warn = 1;

In this case, C<undef> will be substituted for the item to be cloned. If set to zero:

$threads::shared::clone_warn = 0;

then the C<undef> substitution will be performed silently.

=item is_shared VARIABLE

C<is_shared> checks if the specified variable is shared or not. If shared, returns the variable's internal ID (similar to C<refaddr()> (see L<Scalar::Util>). Otherwise, returns C<undef>.

if (is_shared($var)) {
    print("$var is shared\n");
} else {
    print("$var is not shared\n");
}

When used on an element of an array or hash, C<is_shared> checks if the specified element belongs to a shared array or hash. (It does not check the contents of that element.)

my %hash :shared;
if (is_shared(%hash)) {
    print("%hash is shared\n");
}

$hash{\'elem\'} = 1;
if (is_shared($hash{\'elem\'})) {
    print("$hash{\'elem\'} is in a shared hash\n");
}
C<lock> places a B<advisory> lock on a variable until the lock goes out of scope. If the variable is locked by another thread, the C<lock> call will block until it's available. Multiple calls to C<lock> by the same thread from within dynamically nested scopes are safe -- the variable will remain locked until the outermost lock on the variable goes out of scope.

C<lock> follows references exactly I<one> level:

```perl
my %hash :shared;
my $ref = %hash;
lock($ref);       # This is equivalent to lock(%hash)
```

Note that you cannot explicitly unlock a variable; you can only wait for the lock to go out of scope. This is most easily accomplished by locking the variable inside a block.

```perl
my $var :shared;
{
    lock($var);
    # $var is locked from here to the end of the block
    ...
}
# $var is now unlocked
```

As locks are advisory, they do not prevent data access or modification by another thread that does not itself attempt to obtain a lock on the variable.

You cannot lock the individual elements of a container variable:

```perl
my %hash :shared;
$hash{'foo'} = 'bar';
#lock($hash{'foo'});          # Error
lock(%hash);                  # Works
```

If you need more fine-grained control over shared variable access, see L<Thread::Semaphore>.

=item cond_wait VARIABLE

=item cond_wait CONDVAR, LOCKVAR

The C<cond_wait> function takes a B<locked> variable as a parameter, unlocks the variable, and blocks until another thread does a C<cond_signal> or C<cond_broadcast> for that same locked variable. The variable that C<cond_wait> blocked on is re-locked after the C<cond_wait> is satisfied. If there are multiple threads C<cond_wait>ing on the same variable, all but one will re-block waiting to reacquire the
lock on the variable. (So if you're only
using C<cond_wait> for synchronization, give up the lock as soon as possible).
The two actions of unlocking the variable and entering the blocked wait state
are atomic, the two actions of exiting from the blocked wait state and
re-locking the variable are not.

In its second form, C<cond_wait> takes a shared, B<unlocked> variable followed
by a shared, B<locked> variable. The second variable is unlocked and thread
execution suspended until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread
C<cond_signal> or C<cond_broadcast> on the variable. It is therefore
important to check the value of the variable and go back to waiting if the
requirement is not fulfilled. For example, to pause until a shared counter
drops to zero:

{ lock($counter); cond_wait($counter) until $counter == 0; }

=item cond_timedwait VARIABLE, ABS_TIMEOUT

=item cond_timedwait CONDVAR, ABS_TIMEOUT, LOCKVAR

In its two-argument form, C<cond_timedwait> takes a B<locked> variable and an
absolute timeout in I<epoch> seconds (see L<time() in perlfunc|perlfunc/time>
for more) as parameters, unlocks the variable, and blocks until the
timeout is reached or another thread signals the variable. A false value is
returned if the timeout is reached, and a true value otherwise. In either
case, the variable is re-locked upon return.

Like C<cond_wait>, this function may take a shared, B<locked> variable as an
additional parameter; in this case the first parameter is an B<unlocked>
condition variable protected by a distinct lock variable.

Again like C<cond_wait>, waking up and reacquiring the lock are not atomic,
and you should always check your desired condition after this function
returns. Since the timeout is an absolute value, however, it does not have to
be recalculated with each pass:

lock($var);
my $abs = time() + 15;
until ($ok = desired_condition($var)) {
    last if !cond_timedwait($var, $abs);
}
# we got it if $ok, otherwise we timed out!

=item cond_signal VARIABLE

The C<cond_signal> function takes a B<locked> variable as a parameter and
unblocks one thread that's \texttt{C<cond\_wait>}ing
on that variable. If more than one
thread is blocked in a \texttt{C<cond\_wait>} on that variable, only one (and which one
is indeterminate) will be unblocked.

If there are no threads blocked in a \texttt{C<cond\_wait>} on the variable, the signal
is discarded. By always locking before
signaling, you can (with care), avoid
signaling before another thread has entered \texttt{cond\_wait}().

\texttt{C<cond\_signal>} will normally generate a warning if you attempt to use it on an
unlocked variable. On the rare occasions
where doing this may be sensible, you
can suppress the warning with:

\begin{verbatim}
{ no warnings 'threads'; cond\_signal($foo); }
\end{verbatim}

\texttt{C<cond\_broadcast>} VARIABLE

The \texttt{C<cond\_broadcast>} function works similarly to \texttt{C<cond\_signal>}.
\texttt{C<cond\_broadcast>}, though, will unblock \texttt{B<all>} the threads that are blocked in
a \texttt{C<cond\_wait>} on the locked variable, rather than only one.

=head1 OBJECTS

\texttt{L<threads::shared>} exports a version of \texttt{L<bless()|perlfunc/"bless REF"> that}
works on shared objects such that \texttt{I<blessings>} propagate across threads.

\begin{verbatim}
# Create a shared 'Foo' object
my $foo :shared = shared\_clone({});
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared\_clone({});
bless($bar, 'Bar');

# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;

# Rebless the objects via a thread
threads->create(sub {
    # Rebless the outer object
    bless($foo, 'Yin');

    # Cannot directly rebless the inner object
    #bless($foo->{'bar'}, 'Yang');
\end{verbatim}
# Retrieve and rebless the inner object
my $obj = $foo->{'bar'};
bless($obj, 'Yang');
$foo->{'bar'} = $obj;

})->[join();

print(ref($foo), "\n"); # Prints 'Yin'
print(ref($foo->{'bar'}), "\n"); # Prints 'Yang'
print(ref($bar), "\n"); # Also prints 'Yang'

=head1 NOTES

L<threads::shared> is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used in both threaded and non-threaded applications.

If you want access to threads, you must C<use threads> before you C<use threads::shared>. L<threads> will emit a warning if you use it after L<threads::shared>.

=head1 WARNINGS

=over 4

=item cond_broadcast() called on unlocked variable

=item cond_signal() called on unlocked variable

See L</"cond_signal VARIABLE">, above.

=back

=head1 BUGS AND LIMITATIONS

When C<share> is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());

# Create a 'foo' object
my $foo = { 'data' => 99 };
bless($foo, 'foo');

# Share the object
share($foo);    # Contents are now wiped out
print("ERROR: \$foo is empty\n")
    if (! exists($foo->{'data'}));

Therefore, populate such variables B<after> declaring them as shared. (Scalar and scalar refs are not affected by this problem.)

Blessing a shared item after it has been nested in another shared item does not propagate the blessing to the shared reference:

my $foo = &share({});
my $bar = &share({});
$bar->{foo} = $foo;
bless($foo, 'baz'); # $foo is now of class 'baz',
                 # but $bar->{foo} is unblessed.

Therefore, you should bless objects before sharing them.

It is often not wise to share an object unless the class itself has been written to support sharing. For example, a shared object's destructor may get called multiple times, once for each thread's scope exit, or may not get called at all if it is embedded inside another shared object. Another issue is that the contents of hash-based objects will be lost due to the above mentioned limitation. See F<examples/class.pl> (in the CPAN distribution of this module) for how to create a class that supports object sharing.

Destructors may not be called on objects if those objects still exist at global destruction time. If the destructors must be called, make sure there are no circular references and that nothing is referencing the objects before the program ends.

Does not support C<splice> on arrays. Does not support explicitly changing array lengths via $#array -- use C<push> and C<pop> instead.

Taking references to the elements of shared arrays and hashes does not автовивфи the elements, and neither does slicing a shared array/hash over non-existent indices/keys автовивфи the elements.

C<share()> allows you to C<< share($hashref->{key}) >> and C<< share($arrayref->[idx]) >> without giving any error message. But the C<< $hashref->{key} >> or C<< $arrayref->[idx] >> is B<not> shared, causing the error "lock can only be used on shared values" to occur when you attempt to C<< lock($hashref->{key}) >> or C<< lock($arrayref->[idx]) >> in another thread.

Using C<refaddr()> is unreliable for testing whether or not two shared references are equivalent (e.g., when testing for
circular references). Use `is_shared()` instead:

```perl
use threads;
use threads::shared;
use Scalar::Util qw(refaddr);

# If ref is shared, use threads::shared's internal ID.
# Otherwise, use refaddr().
my $addr1 = is_shared($ref1) || refaddr($ref1);
my $addr2 = is_shared($ref2) || refaddr($ref2);

if ($addr1 == $addr2) {
    # The refs are equivalent
}
```

`each()` does not work properly on shared references embedded in shared structures. For example:

```perl
my %foo :shared;
$foo{ 'bar' } = shared_clone({ 'a' => 'x', 'b' => 'y', 'c' => 'z' });

while (my ($key, $val) = each(%{$foo{ 'bar' }})) {
    ...
}
```

Either of the following will work instead:

```perl
my $ref = $foo{ 'bar' };
while (my ($key, $val) = each(%{$ref})) {
    ...
}
```

```perl
foreach my $key (keys(%{$foo{ 'bar' } })) {
    my $val = $foo{ 'bar' }{ $key };
    ...
}
```

This module supports dual-valued variables created using `dualvar()` from `Scalar::Util`. However, while `C<$!>` acts like a dualvar, it is implemented as a tied SV. To propagate its value, use the `follow` construct, if needed:

```perl
my $errno :shared = dualvar($!, $!);
```

View existing bug reports at, and submit any new bugs, problems, patches, etc. to:

L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>

=head1 SEE ALSO
threads::shared on MetaCPAN:
L<https://metacpan.org/release/threads-shared>

Code repository for CPAN distribution:

L<threads>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 AUTHOR

Artur Bergman E<lt>sky AT crucially DOT netE<gt>

Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E<lt>jdhedden AT cpan DOT orgE<gt>.

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author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>''
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  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mitname.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Hutturnen (Ari.Hutturnen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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[[contribution-getting-started]]
== Getting started

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.. xref:setting-up-git[Install and set up Git]
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  ** Include a caption
  ** Provide alternative text
  ** Are described in the surrounding text
* Images of text are not used (such as with code fragments)
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  ** Contain headings
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```
Example image caption and description
[source,asciidoc]
---
.Operators within the Strimzi architecture
image:operators.png[Operators within the Strimzi architecture]
---

Example table headings
[source,asciidoc]
---
.File connectors
[cols="2*",options="header"]
|===
|File Connector
|Description
|FileStreamSourceConnector
|Transfers data to your Kafka cluster from a file (the source).
|===
---

```

== Contributing to the documentation

Once you have your local repository set up and have up to date copies of upstream content you need to follow these steps to contribute to the documentation.

```
Procedure
```
. Open your terminal
. `cd` to the directory where your documentation resides
. Checkout the main branch
+ [source]
----
$ git checkout main
----
. Update your local repository and fork with the upstream content
+ [source]
----
$ git pull upstream main
$ git push origin main --force
----
. Create a new branch for your work (using the issue number is helpful)
+ [source,options="nowrap",subs="+quotes"]
----
$ git checkout -b <branch-name>
----
. Make your edits in the editor of your choice
. Save your changes locally
. Build your documentation to verify that there are no build errors and that everything looks right
. This can be done with the xref:make-tooling[Make tooling]
. If you are creating new files, add the files to the repository
+ [source,options="nowrap",subs="+quotes"]
----
$ git status
$ git add <file-name>
----

. Commit your changes
+ [source,options="nowrap",subs="+quotes"]
----
$ git commit -a -s -m "<message>"
----

Note that the project requires all commits to be signed off, indicating that _you_ certify the changes with the link:https://developercertificate.org/[developer certificate of origin (DCO)].
. Push your changes to your fork
+ [source]
----
$ git push origin HEAD
----
If the update is rejected because the commit is behind, merge your changes

[source]

```bash
$ git pull upstream main
$ git push -f origin HEAD
```

Visit your fork on GitHub

. Click *Compare & pull request*

. If a SME review is needed:

. Add *SME Review Needed* label.

. When SME review is complete, remove *SME Review Completed* label and go to step 16.

. Add *Peer Review Needed* label and assign a Reviewer.

. When peer review has been completed, the reviewer deletes the *Peer Review Needed* label and adds the *Peer Review Done* label.

. When *Peer Review Done* label has been added:

. If no changes are needed, remove *Peer Review Done* label and add *Ready for Merge* label.

. If changes are needed and the changes are minor, make changes to the files, commit, and push, and then remove *Peer Review Done* label and add *Ready for Merge* label.

. If you want an additional review on the updated content, add the *Peer Review Needed* label and ask for another review in a comment.

---

1.2459 busybox 1.34.1-r5

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of
suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It’s now a 128GB, 48 core machine, with 4 SSD’s and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We’d like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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1.2471 bootstrap-rating 0.0.1

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1.2495 golang-protobuf-extensions v1.5.0

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1.2529 jackson-jaxrs 2.8.4

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ASN.1 library for Python

------------------------

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)
Why using pyasn1

-----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems][1](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```bash

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType('room', Integer().subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0)))
  )
```

[1]: Communication between heterogeneous systems
It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
```
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The `pyasn1` classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their `pyasn1` classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```  

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, `pyasn1` supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming `pyasn1` release.

More information on `pyasn1` APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the `pyasn1-modules` [repo](https://github.com/etingof/pyasn1-modules).

How to get `pyasn1`

--------------
The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python
========================

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Abstract Syntax Notation One (`ASN.1`_ is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1`_ library implements ASN.1 support in pure-Python.
What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
--------------

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation
--------------

.. toctree::
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   /pyasn1/contents

Use case
--------

.. toctree::
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   /example-use-case

Download & Install
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Changes
-------
All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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Getting help
------------


Books on ASN.1
--------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:

by Burton S. Kaliski

If you are working with ASN.1, we’d highly recommend reading a proper book on the subject.

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* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/codec/der/__main__.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pytest/datetime.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/type/useful.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/type/char.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/type/tagmap.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/codec/native/decoder.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/codec/cer/test_encoder.py
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Found in path(s):
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
df3a2b7/LICENSE.rst

1.2539 escalade 3.1.1

1.2539.1 Available under license :
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1.2540 maven-plugin-api 3.0

1.2541 uuid 8.3.2
1.2541.1 Available under license:

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1.2542 koa-router 7.4.0

1.2542.1 Available under license:

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1.2543 json-schema 0.2.3

1.2543.1 Available under license:

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/**
 * JSONSchema Validator - Validates JavaScript objects using JSON Schemas
 * *(http://www.json.com/json-schema-proposal/)
 *
 * Copyright (c) 2007 Kris Zyp SitePen (www.sitepen.com)
 * Licensed under the MIT (MIT-LICENSE.txt) license.
 *
 * To use the validator call the validate function with an instance object and an optional schema object.
 * If a schema is provided, it will be used to validate. If the instance object refers to a schema (self-validating),
 * that schema will be used to validate and the schema parameter is not necessary (if both exist,
 * both validations will occur).
 * The validate method will return an array of validation errors. If there are no errors, then an
 * empty list will be returned. A validation error will have two properties:
 * "property" which indicates which property had the error
 * "message" which indicates what the error was
 */

Found in path(s):
* /opt/cola/permits/1173677558_1623725378.39/0/kriszyp-json-schema-v0-2-3-0-g07ae2c6-1-tar-gz/kriszyp-json-schema-07ae2c6/lib/validate.js
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/**
 * JSON Schema link handler
 * *(http://www.json.com/json-schema-proposal/)
 *
 * Copyright (c) 2007 Kris Zyp SitePen (www.sitepen.com)
 * Licensed under the MIT (MIT-LICENSE.txt) license.
 */

Found in path(s):
* /opt/cola/permits/1173677558_1623725378.39/0/kriszyp-json-schema-v0-2-3-0-g07ae2c6-1-tar-gz/kriszyp-json-schema-07ae2c6/lib/links.js
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JSON Schema is a repository for the JSON Schema specification, reference schemas and a CommonJS
implementation of JSON Schema (not the only JavaScript implementation of JSON Schema, JSV is another excellent JavaScript validator).

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and all contributions require a Dojo CLA.

Found in path(s):
* /opt/cola/permits/1173677558_1623725378.39/0/kriszyp-json-schema-v0-2-3-0-g07ae2c6-1-tar-gz/kriszyp-json-
1.2544 kafka-oauth-server 0.9.0

1.2544.1 Available under license:

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 */

Found in path(s):
* /opt/cola/permits/1283600574_1646732506.14/0/kafka-oauth-server-0-9-0-sources-jar/io/strimzi/kafka/oauth/server/OAuthKafkaPrincipalBuilder.java
* /opt/cola/permits/1283600574_1646732506.14/0/kafka-oauth-server-0-9-0-sources-jar/io/strimzi/kafka/oauth/server/OAuthSessionAuthorizer.java

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 */

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 */

Found in path(s):
* /opt/cola/permits/1283600574_1646732506.14/0/kafka-oauth-server-0-9-0-sources-jar/io/strimzi/kafka/oauth/server/OAuthKafkaPrincipal.java

1.2545 go-bigtable 1.2.0
1.2545.1 Available under license:

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (  
"bytes"  
"context"  
"fmt"  
"io/ioutil"  
"math"  
"net/http"  
"net/url"

  gax "github.com/googleapis/gax-go/v2"  
  "google.golang.org/api/googleapi"  
  "google.golang.org/api/iterator"  
  "google.golang.org/api/option"  
  "google.golang.org/api/option/internaloption"  
  httptransport "google.golang.org/api/transport/http"  
  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  
  "google.golang.org/grpc"  
  "google.golang.org/grpc/metadata"  
  "google.golang.org/protobuf/encoding/protojson"  
  "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {  
Delete []gax.CallOption  
Get []gax.CallOption  
GetIamPolicy []gax.CallOption  
}
Insert []gax.CallOption
List []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
// The http endpoint to connect to.
    endpoint string

// The http client.
    httpClient *http.Client

// operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

// The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
// 
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

c := &licensesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

    o := []option.ClientOption{
option.WithHttpClient(httpClient),
option.WithEndpoint(endpoint),
}

opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}, nil}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}
// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    params := url.Values{}
    if req != nil & req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if err != nil {
                return err
            }
            httpReq = httpReq.WithContext(ctx)
            httpReq.Header = headers
            httpRsp, err := c.httpClient.Do(httpReq)
            if err != nil {
                return err
            }
            defer httpRsp.Body.Close()
            if err := googleapi.CheckResponse(httpRsp); err != nil {
                return err
            }
            buf, err := ioutil.ReadAll(httpRsp.Body)
            if err != nil {
                return err
            }
            e := unm.Unmarshal(buf, resp); err != nil {
                return maybeUnknownEnum(err)
            }
            return nil
        }, opts...)
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if err != nil {
                return err
            }
            httpReq = httpReq.WithContext(ctx)
            httpReq.Header = headers
            httpRsp, err := c.httpClient.Do(httpReq)
            if err != nil {
                return err
            }
            defer httpRsp.Body.Close()
            if err = googleapi.CheckResponse(httpRsp); err != nil {
                return err
            }
            buf, err := ioutil.ReadAll(httpRsp.Body)
            if err != nil {
                return err
            }
            if err := unm.Unmarshal(buf, resp); err != nil {
                return maybeUnknownEnum(err)
            }
            return nil, e
        })
    return op, nil
}
// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    params := url.Values{
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))

    resp := &computepb.Policy{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if err != nil {
                return err
            }
            httpReq = httpReq.WithContext(ctx)
            httpReq.Header = headers

            httpRsp, err := httpReq.Do()
            if err != nil {
                return err
            }
            defer httpRsp.Body.Close()

            buf, err := ioutil.ReadAll(httpRsp.Body)
            if err != nil {
                return err
            }

            return &computepb.Policy{
                e := gax.UnmarshalOptions(buf, unm, allowPartial, discardUnknown)
            }
        })
        return resp, nil
    }
```
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return resp, nil,

e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReqWithContext(ctx)
    httpReq.Header = headers
    e := gax.SendRequest(ctx, httpReq)
    if err != nil {
        return err
    }
    resp := &computepb.Operation{}
    e := gax.Unmarshal(buf, resp)
    if err != nil {
        return maybeUnknownEnum(err)
    }
    return resp, nil,

    baseUrl := url.Parse(c.endpoint)
    params := url.Values{
        "requestId": fmt.Sprintf("%v", req.GetRequestId())
    }
    baseUrl.RawQuery = params.Encode()
    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReqWithContext(ctx)
        httpReq.Header = headers
        e := gax.SendRequest(ctx, httpReq)
        if err != nil {
            return err
        }
        resp := &computepb.Operation{}
        e := gax.Unmarshal(buf, resp)
        if err != nil {
            return maybeUnknownEnum(err)
        }
        return resp, nil,
    })
    return resp, nil,

    // Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
    func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
        m := protojson.MarshalOptions{AllowPartial: true}
        body := req.GetLicenseResource()
        jsonReq, err := m.Marshal(body)
        if err != nil {
            return nil, err
        }
        baseUrl := url.Parse(c.endpoint)
        params := url.Values{
            "requestId": fmt.Sprintf("%v", req.GetRequestId())
        }
        baseUrl.RawQuery = params.Encode()
        // Build HTTP headers from client and context metadata.
        headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        resp := &computepb.Operation{}
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if err != nil {
                return err
            }
            httpReq = httpReqWithContext(ctx)
            httpReq.Header = headers
            e := gax.SendRequest(ctx, httpReq)
            if err != nil {
                return err
            }
            resp := &computepb.Operation{}
            e := gax.Unmarshal(buf, resp)
            if err != nil {
                return maybeUnknownEnum(err)
            }
            return resp, nil,
        })
        return resp, nil,
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
}, opts...)}

if e != nil {
    return nil, e
}

op := &Operation{
    &globalOperationsHandle{
        c:       c.operationClient,
        proto:   resp,
        project: req.GetProject(),
    },
}

return op, nil

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
        req = proto.Clone(req).(*computepb.ListLicensesRequest)
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
            resp := &computepb.LicensesListResponse{
                []}
req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32 {
    req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
    req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, _ := url.Parse(c.endpoint)

params := url.Values{
    if req != nil && req.Filter != nil {
    }
    if req != nil && req.MaxResults != nil {
        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
    }
    if req != nil && req.ReturnPartialSuccess != nil {
    }
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    return 
},)}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()
return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
req.GetResource())
// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReqWithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

// Copyright 2022 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
package compute_test

import (  "context"

compute "cloud.google.com/go/compute/apiv1"  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {  ctx := context.Background()  c, err := compute.NewLicenseCodesRESTClient(ctx)  if err != nil {    // TODO: Handle error.  }  defer c.Close()

  // TODO: Use client.  _ = c
}

func ExampleLicenseCodesClient_Get() {  ctx := context.Background()  c, err := compute.NewLicenseCodesRESTClient(ctx)  if err != nil {    // TODO: Handle error.  }  defer c.Close()

```go
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
  ctx := context.Background()
  c, err := compute.NewLicenseCodesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
    }
  defer c.Close()

  req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See
    // https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest
    }
  resp, err := c.TestIamPermissions(ctx, req)
  if err != nil {
    // TODO: Handle error.
    }
  // TODO: Use resp.
  _ = resp
}
```

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LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
package compute_test

import (
    "context"
    "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}
// TODO: Handle error.
}
deferr c.Close()

req := &computepb.DeleteLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
deferr c.Close()

req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
deferr c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
} // TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

    err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
it := c.List(ctx, req)
for {

resp, err := it.Next()
if err == iterator.Done {
    break
}
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
            // TODO: Fill request struct fields.
            // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
        }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
            // TODO: Fill request struct fields.
            // See
            https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
        }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
// TODO: Use resp
_ = resp

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get gax.CallOption
    TestIamPermissions gax.CallOption
}
// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval ...string)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption { return []}
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSIdentifier("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/")
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}

// setGoogleClientInfo sets the name and version of the application in
// the ‘x-goog-api-client’ header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicenseCode{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        // Replace httpClient with nil to force cleanup.
        c.httpClient = nil
        return nil
    })
    return resp, e
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
    }, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()}
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if err != nil {
  return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
  return err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
  return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
}

return nil,
}, opts...)
if e != nil {
  if e != nil {
    return nil, e
  }
  return resp, nil
}

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the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
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 * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see {@link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */
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/**
 * Constructs a new { @link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the { @link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 * 
 * @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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/**
 * Constructs a new { @link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the { @link #LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 * 
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see { @link Type}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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  jar/org/objectweb/asm/commons/FieldRemapper.java
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1.2555 spdystream 0.0.0-20160310174837-449fdfce4d96

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1.2556 wso2-carbon-tenant-usage-agent

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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1.2560 http-proxy 1.18.1

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: 1.5.0_19 (Sun Microsystems Inc.)
Built-By: japod
Build-Jdk: 1.5.0_19
Build-Id: 11/09/2009 01:45 PM
Extension-Name: javax.ws.rs
Specification-Title: JAX-RS: Java API for RESTful Web Services
Specification-Vendor: Sun Microsystems, Inc.
Specification-Version: 1.1.1
Bundle-Name: jsr311-api
Bundle-License: http://www.opensource.org/licenses/cddl1.php
Bundle-DocURL: http://www.sun.com/
Bundle-Vendor: Sun Microsystems, Inc
Bundle-ManifestVersion: 2
Bundle-SymbolicName: javax.ws.rs.jsr311-api
Tool: Bnd-0.0.357
Bnd-LastModified: 1257770751193
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* /opt/cola/permits/1362377428_1657710561.5899465/0/wadl-core-1-1-6-wso2v1-jar-jaxb-xjc-2-2-6-jar/org/kohsuke/rngom/parse/xml/Messages.properties

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package com.sun.tools.xjc.runtime;

import javax.xml.bind.DatatypeConverter;
import javax.xml.bind.annotation.adapters.XmlAdapter;

/**
 * Serializes <tt>boolean</tt> as 0 or 1.
 *
 * @author Kohsuke Kawaguchi
 * @since 2.0
 */
public class ZeroOneBooleanAdapter extends XmlAdapter<String,Boolean> {
    public Boolean unmarshal(String v) {
        if(v==null)     return null;
        return DatatypeConverter.parseBoolean(v);
    }

    public String marshal(Boolean v) {
        if(v==null)     return null;
        if(v) {
            return "1";
        } else {
            return "0";
        }
    }
}

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* /opt/cola/permits/1362377428_1657710561.5899465/0/wadl-core-1-1-6-wso2v1-jar-xjc-2-2-6-jar/com/sun/tools/jxc/MessageBundle.properties
* /opt/cola/permits/1362377428_1657710561.5899465/0/wadl-core-1-1-6-wso2v1-jar/jaxb-impl-2-2-6-jar/com/sun/xml/bind/v2/Messages.properties

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package com.sun.tools.xjc.runtime;

import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.StringTokenizer;
import javax.xml.bind.JAXBContext;
import javax.xml.bind.JAXBException;

/**
 * This class implements the actual logic of {@link JAXBContext#newInstance}.
 *
 * <p>
 * This class works as a facade and all the actual work is delegated to
 * a JAXB provider that happens to be in the runtime (not necessarily the JAXB RI.)
 * This allows the generated code to be run with any JAXB provider.
 *
 * <p>
 * This code is only used when XJC generates interfaces/implementations.
 */

/package com.sun.tools.xjc.runtime;

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import java.util.List;
import java.util.Map;
import java.util.StringTokenizer;
import javax.xml.bind.JAXBContext;
import javax.xml.bind.JAXBException;

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 * This allows the generated code to be run with any JAXB provider.
 *
 * <p>
 * This code is only used when XJC generates interfaces/implementations.
The trick to make this work is two ObjectFactory classes that we generate in the interface/implementation mode.

The public ObjectFactory follows the spec, and this is the one that's exposed to users. The public ObjectFactory refers to interfaces, so they aren't directly usable by a JAXB 2.0 implementation.

The private one lives in the impl package, and this one is indistinguishable from the ObjectFactory that we generate for the value class generation mode. This private ObjectFactory refers to implementation classes, which are also indistinguishable from value classes that JAXB generates.

All in all, the private ObjectFactory plus implementation classes give a JAXB provider an illusion that they are dealing with value classes that happens to implement some interfaces.

In this way, the JAXB RI can provide the portability even for the interface/implementation generation mode.

@since 2.0
@author Kohsuke Kawaguchi

public class JAXBContextFactory {
    private static final String DOT_OBJECT_FACTORY = ".ObjectFactory";
    private static final String IMPL_DOT_OBJECT_FACTORY = ".impl.ObjectFactory";

    /**
     * The JAXB API will invoke this method via reflection
     */
    public static JAXBContext createContext( Class[] classes, Map properties ) throws JAXBException {
        Class[] r = new Class[classes.length];
        boolean modified = false;

        // find any reference to our 'public' ObjectFactory and
        // replace that to our 'private' ObjectFactory.
        for( int i=0; i<r.length; i++ ) {
            Class c = classes[i];
            String name = c.getName();
            if(name.endsWith(DOT_OBJECT_FACTORY)
                && !name.endsWith(IMPL_DOT_OBJECT_FACTORY)) {
                // we never generate into the root package, so no need to worry about FQCN "ObjectFactory"
            }
        }

        return new JAXBContext( r, properties );
    }
}
// if we find one, tell the real JAXB provider to
// load foo.bar.impl.ObjectFactory
name = name.substring(0, name.length() -
DOT_OBJECT_FACTORY.length()) + IMPL_DOT_OBJECT_FACTORY;

try {
    c = getClassClassLoader(c).loadClass(name);
} catch (ClassNotFoundException e) {
    throw new JAXBException(e);
}

modified = true;

r[i] = c;

}/*!
/* The JAXB API will invoke this method via reflection
*/
public static JAXBContext createContext(String contextPath,
ClassLoader classLoader, Map properties) throws JAXBException {

List<Class> classes = new ArrayList<Class>();
StringTokenizer tokens = new StringTokenizer(contextPath, ".");

// each package should be pointing to a JAXB RI generated
// content interface package.
//
// translate them into a list of private ObjectFactories.
try {
    while(tokens.hasMoreTokens()) {
        String pkg = tokens.nextToken();
        classes.add(classLoader.loadClass(pkg+IMPL_DOT_OBJECT_FACTORY));
    }
} catch (ClassNotFoundException e) {
    throw new JAXBException(e);
}

// delegate to the JAXB provider in the system
return JAXBContext.newInstance(classes.toArray(new Class[classes.size()]),properties);

private static ClassLoader getClassClassLoader(final Class c) {
    if (System.getSecurityManager() == null) {
        return c.getClassLoader();
    } else {
        return (ClassLoader) java.security.AccessController.doPrivileged(
            new java.security.PrivilegedAction() {
                public java.lang.Object run() {
                    return c.getClassLoader();
                }
            });
    }
}

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any resulting litigation.
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It was downloaded from http://www.graphviz.org/

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>

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1.2587 perl-scalar-list-utils 1.49-2.el8
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=head1 NAME

List::Util::XS - Indicate if List::Util was compiled with a C compiler

=head1 SYNOPSIS

use List::Util::XS 1.20;

=head1 DESCRIPTION

C<List::Util::XS> can be used as a dependency to ensure List::Util was installed using a C compiler and that the XS version is installed.

During installation C<$List::Util::XS::VERSION> will be set to C<undef> if the XS was not compiled.

Starting with release 1.23_03, Scalar-List-Util is B<always> using the XS implementation, but for backwards compatibility, we still ship the C<List::Util::XS> module which just loads C<List::Util>.

=head1 SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

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=head2 RT #95409
If the block of code given to \texttt{pairmap} contains lexical variables that are captured by a returned closure, and the closure is executed after the block has been re-used for the next iteration, these lexicals will not see the correct values. For example:

```perl
my @subs = pairmap {
    my $var = "$a is $b";
    sub { print "$var \n" ; }
} one => 1, two => 2, three => 3;
$_->() for @subs;
```

Will incorrectly print

three is 3
three is 3
three is 3

This is due to the performance optimisation of using \texttt{MULTICALL} for the code block, which means that fresh SVs do not get allocated for each call to the block. Instead, the same SV is re-assigned for each iteration, and all the closures will share the value seen on the final iteration.

To work around this bug, surround the code with a second set of braces. This creates an inner block that defeats the \texttt{MULTICALL} logic, and does get fresh SVs allocated each time:

```perl
my @subs = pairmap {
    {
        my $var = "$a is $b";
        sub { print "$var \n" ; }
    }
} one => 1, two => 2, three => 3;
```

This bug only affects closures that are generated by the block but used afterwards. Lexical variables that are only used during the lifetime of the block's execution will take their individual values for each invocation, as normal.

=head2 uniqnum() on oversized bignums

Due to the way that \texttt{uniqnum()} compares numbers, it cannot distinguish differences between bignums (especially bigints) that are too large to fit in the native platform types. For example,

```perl
my $x = Math::BigInt->new( "1" x 100 );
```
my $y = $x + 1;

say for uniqnum( $x, $y );

Will print just the value of C<$x>, believing that C<$y> is a numerically-equivalent value. This bug does not affect C<uniqstr()>, which will correctly observe that the two values stringify to different strings.

=head1 SUGGESTED ADDITIONS

The following are additions that have been requested, but I have been reluctant to add due to them being very simple to implement in perl

# How many elements are true

sub true { scalar grep { $_ } @_ }

# How many elements are false

sub false { scalar grep { !$_ } @_ }

=head1 SEE ALSO

L<Scalar::Util>, L<List::MoreUtils>

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/*

ppport.h -- Perl/Pollution/Portability Version 3.19_02

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the 
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

----------------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19_02

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
version 5.003. You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.
Strip all script and documentation functionality from \texttt{ppport.h}. This reduces the size of \texttt{ppport.h} dramatically and may be useful if you want to include \texttt{ppport.h} in smaller modules without increasing their distribution size too much.

The stripped \texttt{ppport.h} will have a \texttt{--unstrip} option that allows you to undo the stripping, but only if an appropriate \texttt{Devel::PPPort} module is installed.

Lists the API elements for which compatibility is provided by \texttt{ppport.h}. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

Lists the API elements that are known not to be supported by \texttt{ppport.h} and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching \texttt{I<name>}. If \texttt{I<name>} is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

\begin{verbatim}
perl ppport.h --list-provided
\end{verbatim}

to see which API elements are provided by \texttt{ppport.h}.
You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.
If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```bash
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```bash
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```bash
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```bash
perl ppport.h --copy=.new
```

To display portability information for the C<newSVpvn> function, use:

```bash
perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression, you can use

```bash
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```bash
perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4
=item 1.
The complete output from running "perl -V"
=item 2.
This file.
=item 3.
The name and version of the module you were trying to build.
=item 4.
A full log of the build that failed.
=item 5.
Any other information that you think could be relevant.
=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19_02;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
);

my($ppport) = $0 =~ /\([\w.]+)/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = '[ ]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.*/';
my $cce = '*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION.
";
    exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) }; 
    if ($@) {
        die "Invalid version number format: "$opt{'compat-version'}"\n";
    }
    die "Only Perl 5 is supported" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}"\n" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)|([^|]* )|([^|]* )|([^|]*)/ ? ( $1 => {
    ($2                  ? ( base     => $2 ) : ()),
    ($3                  ? ( todo     => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())
    ) : die "invalid spec: $_") qw(
AvFILLp[5.004050][p
AvFILL][[n
CLASS][n
CPERLscope[5.005000][p
CX_CURPAD_SAVE][[n
CX_CURPAD_SV][[n
CopFILEAV[5.006000][p
CopFILEGV_set[5.006000][p
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Copy][n
CvPADLIST][[n
CvSTASH][[n
CvWEAKOUTSIDE][[n
DEFSV_set[5.010001][p

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 25645
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LVRET||
MARK||
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NVrf[5.006001]|p
NVgf[5.006001]|p
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Newx[5.009003]|p
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Nullch||
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Nullhv||
Nullsv||
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PAD_SET_CUR||
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PAD_SV||
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PERL_HASH[5.004000]|p
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<th>Value</th>
<th>Type</th>
</tr>
</thead>
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<tr>
<td>PL_curcop</td>
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</tr>
<tr>
<td>PL_curstash</td>
<td>5.004050</td>
<td>p</td>
</tr>
<tr>
<td>PL_debstash</td>
<td>5.004050</td>
<td>p</td>
</tr>
<tr>
<td>PL_defgv</td>
<td>5.004050</td>
<td>p</td>
</tr>
<tr>
<td>PL_diehook</td>
<td>5.004050</td>
<td>p</td>
</tr>
<tr>
<td>PL_dirty</td>
<td>5.004050</td>
<td>p</td>
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<tr>
<td>PL_dowarn</td>
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<td>PL_errovgv</td>
<td>5.004050</td>
<td>p</td>
</tr>
<tr>
<td>PL_error_count</td>
<td>5.011004</td>
<td>p</td>
</tr>
<tr>
<td>PL_expect</td>
<td>5.011004</td>
<td>p</td>
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<tr>
<td>PL_hexdigit</td>
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<td>p</td>
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<td>PL_hints</td>
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<td>p</td>
</tr>
<tr>
<td>PL_in_my_stash</td>
<td>5.011004</td>
<td>p</td>
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<tr>
<td>PL_in_my</td>
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<td>p</td>
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<tr>
<td>PL_keyword_plugin</td>
<td>5.011002</td>
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<td>PL_last_in_gv</td>
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<td>PL_laststatval</td>
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<td>PL_lex_state</td>
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<td>p</td>
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<td>PL_lex_stuff</td>
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<td>PL_linestr</td>
<td>5.011004</td>
<td>p</td>
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<td>PL_modglobal</td>
<td>5.005000</td>
<td>n</td>
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<tr>
<td>PL_na</td>
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<td>pn</td>
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<tr>
<td>PL_no_modify</td>
<td>5.006000</td>
<td>p</td>
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<tr>
<td>PL_ofsgv</td>
<td>n</td>
<td></td>
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<tr>
<td>PL_opfreehook</td>
<td>5.011000</td>
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<tr>
<td>PL_parser</td>
<td>5.009005, 5.009005</td>
<td>p</td>
</tr>
<tr>
<td>PL_perl_destruct_level</td>
<td>5.004050</td>
<td>p</td>
</tr>
<tr>
<td>PL_perldb</td>
<td>5.004050</td>
<td>p</td>
</tr>
<tr>
<td>PL_ppaddr</td>
<td>5.006000</td>
<td>p</td>
</tr>
<tr>
<td>PL_rsfp_filters</td>
<td>5.004050</td>
<td>p</td>
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<tr>
<td>PL_rsfp</td>
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<td>p</td>
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<tr>
<td>PL_rs</td>
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<tr>
<td>PL_signals</td>
<td>5.008001</td>
<td>p</td>
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<tr>
<td>PL_stack_base</td>
<td>5.004050</td>
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<td>PL_statcache</td>
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<td>p</td>
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<tr>
<td>PL_stdingv</td>
<td>5.004050</td>
<td>p</td>
</tr>
<tr>
<td>PL_sv_arenaroot</td>
<td>5.004050</td>
<td>p</td>
</tr>
<tr>
<td>PL_sv_no</td>
<td>5.004050</td>
<td>pn</td>
</tr>
<tr>
<td>PL_sv_undef</td>
<td>5.004050</td>
<td>pn</td>
</tr>
<tr>
<td>PL_sv_yes</td>
<td>5.004050</td>
<td>pn</td>
</tr>
<tr>
<td>PL_tainted</td>
<td>5.004050</td>
<td>p</td>
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<tr>
<td>PL_tainting</td>
<td>5.004050</td>
<td>p</td>
</tr>
<tr>
<td>PL_tokenbuf</td>
<td>5.011004</td>
<td>p</td>
</tr>
<tr>
<td>POP_MULTICALL</td>
<td>5.011005</td>
<td></td>
</tr>
<tr>
<td>POPi</td>
<td>n</td>
<td></td>
</tr>
<tr>
<td>POPi</td>
<td>n</td>
<td></td>
</tr>
<tr>
<td>POPn</td>
<td>n</td>
<td></td>
</tr>
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</table>
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if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};

    }

    if (exists $opt{'list-unsupported'}) {
        my $f;
        for $f (sort { lc $a cmp lc $b } keys %API) {
            next unless $API{$f}{todo};

        }

    }
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}

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$define = [S1, S2] if m{"s*\#s*define\s+\(\w+\)?\(\?[\^]\)?\)?s+\(.*\)};

if ($function) {
    if (/^\$/) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
}

$function = [$1, "]" if m{"DPPP\_<\(my\_(\w+)\)};

$replace     = S1 if m{"s*$rcce\s+\(\w+\)\s+\(\w+\)\s+\(\w+\)\s+$rcce\s*$};
$replace{$2} = S1 if $replace and m{"s*$#s*define\s+\(\w+\)?\(\?[\^]\)?\)?s+\(\w+)\}.*$rcce\s+\(\w+\)\s+$rcce\s*$}
$replace{$2} = $1 if m{"s*$#s*define\s+\(\w+\)?\(\?[\^]\)?\)?s+\(\w+)\}.*$rcce\s+\(\w+\)\s+$rcce\s*$}
$replace{$1} = $2 if m{"s*$rcce\s+\(\w+\)\s+\(\w+\)\s+$rcce\s*$} if (m{"s*$rcce\s+\(\w+\)\s+\(\w+\)\s+$rcce\s*$}) {
    my @deps = map { s/\s+/g; S_ } split /, /, $3;
    my $d;
    for $d (map { s/\s+/g; S_ } split /, /, $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{"#if\s+\(\w+\)\s+\(\w+\)\s+\(\w+\)\s+\(\w+\)\s+\(\w+\)\s+$rcce\s*$}};

for (values %depends) {
    my %s;
    $s_ = sort grep !$s{$s_}++, @$_; @$s_:
}

if (exists $opt{\"\"\"api-info\"\"\"}) {
    my $f;
    my $count = 0;
    my $match = $opt{\"\"\"api-info\"\"\"} =~ m!/(.*)/$! ? $1 : "^\"\"\"api-info\"\"\"$\"\"\";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n".$f === \"\n"
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
my $base = format_version($API{$f}{base} || $API{$f}{todo});
print "Supported at least starting from perl-$base:\n";
$info++;
}
if ($API{$f}{provided}) {
  my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
  print "Support by $ppport provided back to perl-$todo:\n";
  print "Support needs to be explicitly requested by NEED_$f:\n" if exists $need{$f};
  print "Depends on: ", join(’,’, @{$depends{$f}}), "\n" if exists $depends{$f};
  print "\nShints[$f]" if exists $shints{$f};
  print "\nWARNING: $warnings{$f}" if exists $warnings{$f};
  $info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching \'$opt{api-info}'.\n";
print "\n";
exit 0;
}
if (exists $opt{list-provided}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $shints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my @flags = @flags ? ['join(’,’, @flags)'] : "";
    print "$f$flags\n";
  }
  exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
    } else { warn "$_ is not a file.\n" }
  }

}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");

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my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {

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if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};

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my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
    if ($API{$func}{'varargs'}) {
        unless ($API{$func}{'nothxarg'}) {
            my $changes = ($c =~ s{\b(Perl_$func\s+\(\s+)?aTHX_\?.*)(\|\|\s+)?}}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_') . $2 }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        }
    } else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bPerl_$func(\s+)?(\|\|\s+)?}}{$func$1(}g);
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
        $warnings += hint($func);
    }
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{'todo'}), ", even with '$ppport''
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        warning("$message");
$message = "No need to define NEED_$func if $func is never used";
}
elif (exists $file{needs}[$func] && $file{needs}[$func] ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
} if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
}
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}[$func]) {
        $message = "No need to define NEED_$func_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_$func_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_$func_GLOBAL when only used in this file";
        }
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}[$func]) {
            if ($type eq 'global') {
                diag("Files @ {$global{needs}[$func]} need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= 
"#define NEED_$func$suffix
";
        }
    }
}
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = ";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include "'$ppport'"n); 
    $pp .= qq(#include "$ppport"
)
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*)$/\1$pp/ms)
        || ($c =~ s/^($HS*#$HS*include.*$ppport)/\1/m)
        || ($c =~ s/^($HS*#$HS*include.*XSUB.\w*)$/\1$pp/m)
        || ($c =~ s/^/$pp/);
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$ppport.*?$LF//m);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include "'$ppport'"n; 
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$ppport\E.*/$1$pp/m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : ";
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $warn = $warnings != 1 ? "$warnings warning$s" : ";
info("Analysis completed\$warn");
if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                } mydiff(^PATCH, $filename, $c);
            } else {
                fallback:
                info("Suggested changes:");
                mydiff(^STDOUT, $filename, $c);
            } else {
                my $s = $file{changes} == 1 ? '' : 's';
                info("$file{changes} potentially required change$s detected");
            } else {
                info("Looks good");
            }
        } else {
            info("Looks good");
        }
    } else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
}
close PATCH if $patch_opened;
exit 0;

sub try_use { eval "use @$_;"; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) { 
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, [ STYLE => 'Unified' ]); 
        $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
my $diff = ";
llocal *F;

while (-e "/tmp.$suf") { $suf++ }
$tmp = "/tmp.$suf";

if (open F, ">$tmp") {
  print F $str;
  close F;

  if (open F, "$prog $file $tmp |") {
    while (<F>) {
      s/\Q$tmp\E/$file.patched/;
      $diff .= ";
    }
    close F;
    unlink $tmp;
    return $diff;
  }
  unlink $tmp;
}
else {
  error("Cannot open 'tmp' for writing: $!");
}
return undef;
}

sub rec_depend
{
  my($func, $seen) = @_;;
  return () unless exists $depends{$func};
  $seen = {%{$seen||{}}};
  return () if $seen->{$func}++;
  my %s;
  grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
  @{$depends{$func}};
}

sub parse_version
{
  my $ver = shift;

  if ($ver =~ /^\d+\.(\d+).\d+$/) {
    return ($1, $2, $3);
  } elsif ($ver !~ /^\d+\[\d_]+$/) {
    die "cannot parse version $ver\n";
  }
  return "$ver";
}
$ver =~ s/\//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\((d+)\.(d{3})\)(d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version\n"
    }
}

return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\((d+)\.(d{3})\)(d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version\n"
        }
        $s /= 10;
    }

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "\_\%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;

sub info
{
    $opt{quiet} and return;
    print @_, "\n";

}
sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;

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Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;
}

sub strip
{
  my $self = do { local(@ARGV,$/)=($0); <> }

  my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*\^\(.*\)^=\w+/ms;
  $copy =~ s/ \^(?=\S+)/  /gms;
  $self =~ s/\^\$HS+ Do NOT edit.*?\(=\^-\)/$copy/ms;
  $self =~ s/\^\$SKIP,\*?\(=\^-\)_\$SKIP

  if ($@ARGV && $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort; }
    \$@ and die "Cannot require Devel::PPPort, please install.\n"
  
    if (eval \$Devel::PPPort::VERSION < \$VERSION) {
      die "$0 was originally generated with Devel::PPPort $VERSION.\n"
        "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n"
        "Please install a newer version, or --unstrip will not work.\n"
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
  }

  print <<END;

  Sorry, but this is a stripped version of $0.

  To be able to use its original script and doc functionality,
  please try to regenerate this file using:

    $^X $0 --unstrip

END

/my($pl, $c) = $self =~ /(.^\__DATA__.\*)/ms;
$c =~ s/{ / \s* # \s* /gsex;
$c =~ s/\s+$!!mg;
$c =~ s!\s*!#!mg;

$c =~ s!\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT "$pl$c
";
exit 0;
}

__DATA__

*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

# Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.
=head1 NAME

Scalar::Util - A selection of general-utility scalar subroutines

=head1 SYNOPSIS

use Scalar::Util qw(blessed dualvar isdual readonly refaddr reftype
tainted weaken isweak isvstring looks_like_number
set_prototype);
    # and other useful utils appearing below

=head1 DESCRIPTION

C<Scalar::Util> contains a selection of subroutines that people have expressed
would be nice to have in the perl core, but the usage would not really be high
enough to warrant the use of a keyword, and the size would be so small that
being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines.

=cut

=head1 FUNCTIONS FOR REFERENCES

The following functions all perform some useful activity on reference values.

=head2 blessed
my $pkg = blessed($ref);

If \( \text{C<ref>} \) is a blessed reference, the name of the package that it is blessed into is returned. Otherwise \C<undef> is returned.

\[
\$scalar = \text{"foo"};\\
\$class = \text{blessed $scalar}; \quad \# \text{undef}
\]

\[
\$ref = [];\\
\$class = \text{blessed $ref}; \quad \# \text{undef}
\]

\[
\$obj = \text{bless [ ], \"Foo"};\\
\$class = \text{blessed $obj}; \quad \# \text{"Foo"}
\]

Take care when using this function simply as a truth test (such as in \C<if(blessed $ref)...>\) because the package name \C<"0"> is defined yet false.

=he2 refaddr

my $addr = refaddr($ref);

If \( \text{C<ref>} \) is reference, the internal memory address of the referenced value is returned as a plain integer. Otherwise \C<undef> is returned.

\[
\$addr = \text{refaddr \"string\"}; \quad \# \text{undef}
\]
\[
\$addr = \text{refaddr \$var}; \quad \# \text{eg 12345678}
\]
\[
\$addr = \text{refaddr [ ]}; \quad \# \text{eg 23456784}
\]

\[
\$obj = \text{bless [ ], \"Foo"};\\
\$addr = \text{refaddr $obj}; \quad \# \text{eg 88123488}
\]

=he2 reftype

my $type = reftype($ref);

If \( \text{C<ref>} \) is a reference, the basic Perl type of the variable referenced is returned as a plain string (such as \C<ARRAY> or \C<HASH>). Otherwise \C<undef> is returned.

\[
\$type = \text{reftype \"string\"}; \quad \# \text{undef}
\]
\[
\$type = \text{reftype \$var}; \quad \# \text{SCALAR}
\]
\[
\$type = \text{reftype [ ]}; \quad \# \text{ARRAY}
\]

\[
\$obj = \text{bless [ ], \"Foo"};\\
\$type = \text{reftype $obj}; \quad \# \text{HASH}
\]

=he2 weaken
weaken($ref);

The lvalue C<$ref> will be turned into a weak reference. This means that it will not hold a reference count on the object it references. Also, when the reference count on that object reaches zero, the reference will be set to undef. This function mutates the lvalue passed as its argument and returns no value.

This is useful for keeping copies of references, but you don't want to prevent the object being DESTROY-ed at its usual time.

{  
  my $var;
  $ref = \$var;
  weaken($ref);  # Make $ref a weak reference
}
  # $ref is now undef

Note that if you take a copy of a scalar with a weakened reference, the copy will be a strong reference.

my $var;
my $foo = \$var;
weaken($foo);  # Make $foo a weak reference
my $bar = $foo;  # $bar is now a strong reference

This may be less obvious in other situations, such as C<grep()> for instance when grepping through a list of weakened references to objects that may have been destroyed already:

@object = grep { defined } @object;

This will indeed remove all references to destroyed objects, but the remaining references to objects will be strong, causing the remaining objects to never be destroyed because there is now always a strong reference to them in the @object array.

=head2 unweaken

unweaken($ref);

I<Since version 1.36.>

The lvalue C<REF> will be turned from a weak reference back into a normal (strong) reference again. This function mutates the lvalue passed as its argument and returns no value. This undoes the action performed by L</weaken>.
This function is slightly neater and more convenient than the otherwise-equivalent code

    my $tmp = $REF;
    undef $REF;
    $REF = $tmp;

(because in particular, simply assigning a weak reference back to itself does not work to unweaken it; C<$REF = $REF> does not work).

=head2 isweak

    my $weak = isweak($ref);

Returns true if C<$ref> is a weak reference.

    $ref = \$foo;
    $weak = isweak($ref);       # false
    weaken($ref);
    $weak = isweak($ref);       # true

B<NOTE>: Copying a weak reference creates a normal, strong, reference.

    $copy = $ref;
    $weak = isweak($copy);       # false

=head1 OTHER FUNCTIONS

=head2 dualvar

    my $var = dualvar($num, $string);

Returns a scalar that has the value C<$num> in a numeric context and the value C<$string> in a string context.

    $foo = dualvar 10, "Hello";
    $num = $foo + 2;            # 12
    $str = $foo . " world";    # Hello world

=head2 isdual

    my $dual = isdual($var);


If C<$var> is a scalar that has both numeric and string values, the result is true.
$foo = dualvar 86, "Nix";
$dual = isdual($foo);      # true

Note that a scalar can be made to have both string and numeric content through numeric operations:

$foo = "10";
$dual = isdual($foo);     # false
$bar = $foo + 0;
$dual = isdual($foo);     # true

Note that although C<$!> appears to be a dual-valued variable, it is actually implemented as a magical variable inside the interpreter:

$! = 1;
print("$!\n");          # "Operation not permitted"
$dual = isdual($!);      # false

You can capture its numeric and string content using:

$err = dualvar $!, $!;
$dual = isdual($err);    # true

=head2 isvstring

my $vstring = isvstring( $var );

If C<$var> is a scalar which was coded as a vstring, the result is true.

$vstring = v49.46.48;
$fmt  = isvstring($vstring) ? "%vd" : "%s"; #false
printf($fmt,$vstring);

=head2 looks_like_number

my $isnum = looks_like_number( $var );

Returns true if perl thinks C<$var> is a number. See L<perlapi/looks_like_number>.

=head2 openhandle

my $fh = openhandle( $fh );

Returns C<$fh> itself if C<$fh> may be used as a filehandle and is open, or is a tied handle. Otherwise C<undef> is returned.

$fh = openhandle(*STDIN);      # *STDIN
$fh = openhandle("\*STDIN");  # \*STDIN
$fh = openhandle("NOTOPEN");   # undef
$fh = openhandle("scalar");  # undef

=head2 readonly

my $ro = readonly( $var );

Returns true if C<$var> is readonly.

sub foo { readonly($_[0]) }

$readonly = foo($bar);   # false
$readonly = foo(0);     # true

=head2 set_prototype

my $code = set_prototype( $code, $prototype );

Sets the prototype of the function given by the C<$code> reference, or deletes it if C<$prototype> is C<undef>. Returns the C<$code> reference itself.

    set_prototype \&foo, '$$';

=head2 tainted

my $t = tainted( $var );

Return true if C<$var> is tainted.

$taint = tainted("constant");  # false
$taint = tainted($ENV{PWD});   # true if running under -T

=head1 DIAGNOSTICS

Module use may give one of the following errors during import.

=over

=item Weak references are not implemented in the version of perl

The version of perl that you are using does not implement weak references, to use L</isweak> or L</weaken> you will need to use a newer release of perl.

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KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing.

SEE ALSO

L<&Util>

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Additionally L<&weaken> and L<&isweak> which are

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=cut

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No license file was found, but licenses were detected in source scan.

---
abstract: 'Common Scalar and List utility subroutines'
author:
  - 'Graham Barr <gbarr@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Scalar-List-Utils
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0'
  perl: '5.006'
resources:
  repository: https://github.com/Scalar-List-Utils/Scalar-List-Utils.git
  version: '1.49'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

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This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

    perl Makefile.PL
    make
    make test
    make install

KNOWN BUGS
There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

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1.2588.1 Available under license:
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1.2589 wso2-carbon-event-receiver-core
5.1.42
1.2589.1 Available under license:

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Version 2.1, February 1999

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NekoHTML is written using the Xerces Native Interface (XNI) that is the foundation of the Xerces2 implementation. This enables you to use the NekoHTML parser with existing XNI tools without modification or rewriting code.
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default import

code import ("encoding/json"

"github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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package api

import (  "io/ioutil"  "strings"  "time"  )
type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"

    // List of features enabled by the license
    Features []string `json:"features"
}

type LicenseReply struct {
    Valid  bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query(`/v1/operator/license`, &reply, q); err != nil {
        return nil, err
    }
    return &reply, nil
}
func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
    return nil, err
}
deferr resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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/*
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package minio

import {
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"
}

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call

// LegalHoldStatus - object legal hold status.

/*
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 */
const (  
    // LegalHoldEnabled indicates legal hold is enabled  
    LegalHoldEnabled LegalHoldStatus = "ON"  
)  

// LegalHoldDisabled indicates legal hold is disabled  
LegalHoldDisabled LegalHoldStatus = "OFF"

func (r LegalHoldStatus) String() string {  
    return string(r)  
}

// IsValid - check whether this legal hold status is valid or not.  
func (r LegalHoldStatus) IsValid() bool {  
    return r == LegalHoldEnabled || r == LegalHoldDisabled  
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {  
    if status == nil {  
        return nil, fmt.Errorf("Status not set")  
    }  
    if !status.IsValid() {  
        return nil, fmt.Errorf("invalid legal hold status `\%v\`", status)  
    }  
    legalHold := &objectLegalHold{  
        Status: *status,  
    }  
    return legalHold, nil  
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.  
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {  
    // Input validation.  
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {  
        return err  
    }  
    if err := s3utils.CheckValidObjectName(objectName); err != nil {  
        return err  
    }  
    // Get resources properly escaped and lined up before  
    // using them in http request.  
    urlValues := make(url.Values)  
    urlValues.Set("legal-hold", ")
if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }

urlValues := make(url.Values)
urlValues.Set("legal-hold", ")
if opts.VersionID != "" {
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
derey closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
lh := &objectLegalHold{
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}
return &lh.Status, nil

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tomb - support for clean goroutine termination in Go.

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*/
/**
* This class provides cache access to <code>Map</code> collections.
* Instance of this class can be used as "proxy" for any collection
* implementing the <code>java.util.Map</code> interface.
* Typically, {@link CachedMap} are used to accelerate access to
* large collections when the access to the collection is not evenly
* distributed (associative cache). The performance gain is about
* 50% for the fastest hash map collections (e.g. {@link FastMap}).
* For slower collections such as <code>java.util.TreeMap</code>,
* non-resizable {@link FastMap} (real-time) or database access,
* performance can be of several orders of magnitude.
*<p>
* <b>Note:</b> The keys used to access elements of a {@link CachedMap} do
* not need to be immutable as they are not stored in the cache
* (only keys specified by the {@link #put} method are).
* In other words, access can be performed using mutable keys as long
* as these keys can be compared for equality with the real map's keys
* (e.g. same <code>hashCode</code> values).
*<p>
* This implementation is not synchronized. Multiple threads accessing
* or modifying the collection must be synchronized externally.
*
* This class is public domain (not copyrighted).
*
* @author  <a href="mailto:jean-marie@dautelle.com">Jean-Marie Dautelle</a>
* @version 5.3, October 30, 2003
*/

* Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1033881769_1591380313.65/0/plexus-utils-1-1-sources-1-jar/org/codehaus/plexus/util/CachedMap.java
No license file was found, but licenses were detected in source scan.

* J.A.D.E. Java(TM) Addition to Default Environment.
* This class is public domain (not copyrighted).
*/
/**
* This class provides utility methods to parse <code>CharSequence</code>
* into primitive types and to format primitive types into
* <code>StringBuffer</code>.
*/
* <p>Methods from this utility class do not create temporary objects and are typically faster than standard library methods (e.g. #parseDouble) is up to 15x faster than Double.parseDouble).</p>

* </p>

* <p>For class instances, formatting is typically performed using specialized <code>java.text.Format</code> (<code>Locale</code> sensitive) and/or using conventional methods (class sensitive). For example:<pre><p></p></pre></p>

* @author Jean-Marie Dautelle
* @version 4.6, June 22, 2003
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* /opt/ws_local/PERMITS_SQL/1033881769_1591380313.65/0/plexus-utils-1-1-sources-1-
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 * This class represents a <code>Map</code> collection with real-time
 * behavior. Unless the map's size exceeds its current capacity,
 * no dynamic memory allocation is ever performed and response time is
 * <b>extremely fast</b> and <b>consistent</b>.<p>
 *
 * Our <a href="http://jade.dautelle.com/doc/benchmark.txt">benchmark</a> indicates that 
* {@link FastMap#put FastMap.put(key, value)} is up to
* <b>5x faster</b> than <code>java.util.HashMap.put(key, value)</code>. This difference is mostly due to the cost of the 
* allocations that [{@link FastMap} avoids by recycling its entries
* (see note below).<p>
 *
* {@link FastMap} has a predictable iteration order, which is the order
* in which keys were inserted into the map (similar to
* <code>java.util.LinkedHashMap</code> collection class).<p>
 *
* Applications may change the resizing policy of [link FastMap]
* by overriding the [link #sizeChanged] method. For example, to improve
* predictability, automatic resizing can be disabled.<p>
 *
* This implementation is not synchronized. Multiple threads accessing
* or modifying the collection must be synchronized externally.<p>
 *
* <b>Note:</b> To avoid dynamic memory allocations, [link FastMap]
* maintains an internal pool of <code>Map.Entry</code> objects. The size
* of the pool is determined by the map's capacity. When an entry is
* removed from the map, it is automatically restored to the pool.<p>
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* @version 5.3, October 31 2003
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* /opt/ws_local/PERMITS_SQL/1033881769_1591380313.65/0/plexus-utils-1-1-sources-1-
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A patched fork of the bcp program is maintained by Giovanni Mascellani in the repository [1].

[1] https://salsa.debian.org/gio/boost-copyright

It can be compiled with qmake and make. Then you change dir to where you have unpacked the Boost tarball and run something like:

```
find -type f | grep -v ^./debian/ | grep -v ^./.pc/ | bcp --report-debian --read-from-stdin debian/copyright
```

This will erase and regenerate the debian/copyright file. The boost-copyright repository already contains a skeleton of the copyright file (called manual_copyright), which is automatically included at the beginning of the generated file.

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libs/asio/test/latency/allocator.hpp
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Files:
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libs/fusion/example/extension/detail/value_of_data_impl.hpp
libs/fusion/include/boost/fusion/adapted/adt/adapt_assoc_adt_named.hpp
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libs/fusion/include/boost/fusion/algorithm/iteration/detail/preprocessed/iter_fold.hpp
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libs/fusion/include/boost/fusion/algorithm/iteration/detail/preprocessed/reverse_iter_fold.hpp
libs/fusion/include/boost/fusion/container/map/detail/cpp03/begin_impl.hpp
libs/fusion/include/boost/fusion/container/map/detail/cpp03/end_impl.hpp
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tools/build/src/engine/hdrmacro.h
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libs/fusion/example/extension/detail/advance_impl.hpp
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libs/fusion/test/sequence/adapt_assoc_struct.cpp
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libs/graph/doc/bundles.html
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libs/graph/doc/eg1-iso.cpp
libs/graph/include/boost/graph/named_graph.hpp
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libs/graph_parallel/include/boost/graph/distributed/adjlist/handlers.hpp
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libs/signals2/example/slot_arguments.cpp
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libs/graph_parallel/doc/process_group.rst
libs/graph_parallel/doc/simple_trigger.rst
libs/graph_parallel/include/boost/graph/distributed/detail/mpi_process_group.ipp
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bootstrap.sh
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libs/numeric/interval/doc/includes.htm
libs/numeric/interval/doc/interval.htm
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libs/vmd/test/test_is_list_fail4.cpp
libs/preprocessor/include/boost/preprocessor/list/to_array.hpp
libs/preprocessor/include/boost/preprocessor/seq.hpp
libs/preprocessor/include/boost/preprocessor/seq/to_list.hpp
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Files:
libs/spirit/include/boost/spirit/home/classic/phoenix/new.hpp
libs/spirit/include/boost/spirit/repository/home/qi/directive/distinct.hpp
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- libs/move/test/unique_ptr_default_deleter.cpp
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Files:
libs/phoenix/include/boost/phoenix/operator/detail/cpp03/mem_fun_ptr_eval.hpp
libs/phoenix/include/boost/phoenix/operator/detail/cpp03/mem_fun_ptr_eval_result_of.hpp
libs/phoenix/include/boost/phoenix/operator/detail/cpp03/preprocessed/mem_fun_ptr_eval_10.hpp
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libs/phoenix/test/boost_bind_compatibility/bind_cdecl_mf_test.cpp
libs/phoenix/test/boost_bind_compatibility/bind_cv_test.cpp
libs/phoenix/test/boost_bind_compatibility/bind_dm1_test.cpp
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libs/phoenix/test/boost_bind_compatibility/bind_stateful_test.cpp
libs/phoenix/test/boost_bind_compatibility/bind_stdcall_mf_test.cpp
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libs/math/test/almost_equal.ipp
libs/spirit/include/boost/spirit/home/support/detail/math/detail/fp_traits.hpp
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libs/config/checks/test_case.cpp
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libs/config/index.html
libs/config/test/abi/abi_test.cpp
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libs/config/test/boost_has_2arg_use_facet.ipp
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libs/config/test/Jamfile.v2
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files/convert/test/strtol_converter.cpp
files/convert/test/test.hpp
files/convert/test/user_type.cpp

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Files:
bootstrap.bat
files/any/test/Jamfile.v2
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files/filesystem/example/Jamfile.v2
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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 27084
tools/build/src/engine/modules/set.c
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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### 1.2612 libbsd 0.9.1.2

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1.2614 update-browserslist-db 1.0.4

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1.2615 graceful-fs 4.2.4

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* /opt/cola/permits/1266442808_1644246137.85/0/netty-resolver-4.1.43-final-sources-jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1266442808_1644246137.85/0/netty-resolver-4.1.43-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
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* /opt/cola/permits/1266442808_1644246137.85/0/netty-resolver-4.1.43-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
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* /opt/cola/permits/1266442808_1644246137.85/0/netty-resolver-4.1.43-final-sources-jar/io/netty/resolver/package-
  info.java
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  jar/io/netty/resolver/NoopAddressResolverGroup.java
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  jar/io/netty/resolver/SimpleNameResolver.java
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NAME

Carp - alternative warn and die for modules

DESCRIPTION

The Carp routines are useful in your own modules because they act like
die() or warn(), but with a message which is more likely to be useful
to a user of your module. In the case of cluck, confess, and longmess
that context is a summary of every call in the call-stack. For a shorter
message you can use carp or croak which report the error as being from
where your module was called. There is no guarantee that that is where
the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing
some global variables in the Carp namespace.

INSTALLATION
perl Makefile.PL
make
make test
make install

AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent distribution.

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---

abstract: 'alternative warn and die for modules'
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.1, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Carp
no_index:
directory:
  - t
  - inc
requires:
Config: '0'
Exporter: '0'
ExtUtils::MakeMaker: '0'
IPC::Open3: '1.0103'
Test::More: '0.47'
overload: '0'
strict: '0'
warnings: '0'
version: '1.38'
x_serialization_backend: 'CPAN::Meta::YAML version 0.017'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548115_1591901898.54/0/perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/Carp-1.38.tar.gz-cosi-expand-archive-ok6zis0t/Carp-1.38/META.yml
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=head1 NAME
Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

# warn user (from perspective of caller)
carp "string trimmed to 80 chars";

# die of errors (from perspective of caller)
croak "We're outta here!";

# die of errors with stack backtrace
confess "not implemented";

# cluck, longmess and shortmess not exported by default
use Carp qw(cluck longmess shortmess);
cluck "This is how we got here!";
$long_message = longmess( "message from cluck() or confess()" );
$short_message = shortmess( "message from carp() or croak()" );

=head1 DESCRIPTION
The Carp routines are useful in your own modules because they act like C<die()> or C<warn()>, but with a message which is more likely to be useful to a user of your module. In the case of C<cluck()> and C<confess()>, that context is a summary of every call in the call-stack; C<longmess()> returns the contents of the error message.

For a shorter message you can use C<carp()> or C<croak()> which report the error as being from where your module was called. C<shortmess()> returns the contents of this error message. There is no guarantee that that is where the error was, but it is a good educated guess.

C<Carp> takes care not to clobber the status variables C<$!> and C<$^E> in the course of assembling its error messages. This means that a C<$SIG{__DIE__}> or C<$SIG{__WARN__}> handler can capture the error information held in those variables, if it is required to augment the error message, and if the code calling C<Carp> left useful values there. Of course, C<Carp> can't guarantee the latter.

You can also alter the way the output and logic of C<Carp> works, by changing some global variables in the C<Carp> namespace. See the section on C<GLOBAL VARIABLES> below.

Here is a more complete description of how C<carp> and C<croak> work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4
=item 1.

Any call from a package to itself is safe.

=item 2.

Packages claim that there won't be errors on calls to or from packages explicitly marked as safe by inclusion in C<@CARP_NOT>, or (if that array is empty) C<@ISA>. The ability to override what @ISA says is new in 5.8.

=item 3.

The trust in item 2 is transitive. If A trusts B, and B
trusts C, then A trusts C. So if you do not override C<@ISA>
with C<@CARP_NOT>, then this trust relationship is identical to,
"inherits from".

=item 4.

Any call from an internal Perl module is safe. (Nothing keeps
user modules from marking themselves as internal to Perl, but
this practice is discouraged.)

=item 5.

Any call to Perl's warning system (eg Carp itself) is safe.
(This rule is what keeps it from reporting the error at the
point where you call C<carp> or C<croak>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional
call levels. Using this is not recommended because it is very
difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess
and a carp as a cluck across I<all> modules. In other words, force a
detailed stack trace to be given. This can be very helpful when trying
to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol
'verbose'. You would typically enable it by saying

    perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT
environment variable.

Alternately, you can set the global variable C<$Carp::Verbose> to true.
See the C<GLOBAL VARIABLES> section below.

=head2 Stack Trace formatting

At each stack level, the subroutine's name is displayed along with
its parameters. For simple scalars, this is sufficient. For complex
data types, such as objects and other references, this can simply
display C<'HASH(0x1ab36d8)'>.
Carp gives two ways to control this.

=item 1.

For objects, a method, \texttt{C\textless\texttt{CARP\_TRACE}\textgreater}, will be called, if it exists. If this method doesn't exist, or it recurses into \texttt{C\textless\texttt{Carp}\textgreater}, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used. It is recommended that the object's type is part of the string to make debugging easier.

=item 2.

For any type of reference, \texttt{C\textless\texttt{Carp::RefArgFormatter}\textgreater} is checked (see below). This variable is expected to be a code reference, and the current parameter is passed in. If this function doesn't exist (the variable is undef), or it recurses into \texttt{C\textless\texttt{Carp}\textgreater}, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used.

=item 3.

Otherwise, if neither \texttt{C\textless\texttt{CARP\_TRACE}\textgreater} nor \texttt{C\textless\texttt{Carp::RefArgFormatter}\textgreater} is available, stringify the value ignoring any overloading.

=head1 GLOBAL VARIABLES

=head2 $Carp::MaxEvalLen

This variable determines how many characters of a string-eval are to be shown in the output. Use a value of \texttt{C\textless\texttt{0}\textgreater} to show all text.

Defaults to \texttt{C\textless\texttt{0}\textgreater}.

=head2 $Carp::MaxArgLen

This variable determines how many characters of each argument to a function to print. Use a value of \texttt{C\textless\texttt{0}\textgreater} to show the full length of the argument.

Defaults to \texttt{C\textless\texttt{64}\textgreater}.

=head2 $Carp::MaxArgNums
This variable determines how many arguments to each function to show. Use a false value to show all arguments to a function call. To suppress all arguments, use \texttt{C<-1> or C<0 but true>}. Defaults to \texttt{C<8>}. 

\texttt{=head2 $Carp::Verbose}

This variable makes \texttt{C<carp()>} and \texttt{C<croak()>} generate stack backtraces just like \texttt{C<cluck()>} and \texttt{C<confess()>}. This is how \texttt{C<use Carp 'verbose'>} is implemented internally. Defaults to \texttt{C<0>}. 

\texttt{=head2 $Carp::RefArgFormatter}

This variable sets a general argument formatter to display references. Plain scalars and objects that implement \texttt{C<CARP_TRACE>} will not go through this formatter. Calling \texttt{C<Carp>} from within this function is not supported.

\texttt{local $Carp::RefArgFormatter = sub { require Data::Dumper; Data::Dumper::Dump($_[0]); # not necessarily safe }}

\texttt{=head2 @CARP_NOT}

This variable, \texttt{I<in your package>}, says which packages are \texttt{I<not>} to be considered as the location of an error. The \texttt{C<carp()>} and \texttt{C<cluck()>} functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

\begin{verbatim}
# These work
our @CARP_NOT; # file scope
use vars qw(@CARP_NOT); # package scope
@My::Package::CARP_NOT = ... ; # explicit package variable

# These don't work
sub xyz { ... @CARP_NOT = ... } # w/o declarations above
my @CARP_NOT; # even at top-level
\end{verbatim}

Example of use:

\begin{verbatim}
package My::Carping::Package;
use Carp;
our @CARP_NOT;
sub bar { .... or _error('Wrong input') }
\end{verbatim}
sub _error {
    # temporary control of where'ness, __PACKAGE__ is implicit
    local @CARP_NOT = qw(My::Friendly::Caller);
    carp(@_

}

This would make C<Carp> report the error as coming from a caller not in C<My::Carping::Package>, nor from C<My::Friendly::Caller>.

Also read the L</DESCRIPTION> section above, about how C<Carp> decides where the error is reported from.

Use C<@CARP_NOT>, instead of C<$Carp::CarpLevel>.

Overrides C<Carp>'s use of C<@ISA>.

=head2 %Carp::Internal

This says what packages are internal to Perl. C<Carp> will never report an error as being from a line in a package that is internal to Perl. For example:

    $Carp::Internal{ (__PACKAGE__) }++;  
    # time passes...  
    sub foo { ... or confess("whatever") };

would give a full stack backtrace starting from the first caller outside of __PACKAGE__. (Unless that package was also internal to Perl.)

=head2 %Carp::CarpInternal

This says which packages are internal to Perl's warning system. For generating a full stack backtrace this is the same as being internal to Perl, the stack backtrace will not start inside packages that are listed in C<%Carp::CarpInternal>. But it is slightly different for the summary message generated by C<carp> or C<croak>. There errors will not be reported on any lines that are calling packages in C<%Carp::CarpInternal>.

For example C<Carp> itself is listed in C<%Carp::CarpInternal>. Therefore the full stack backtrace from C<confess> will not start inside of C<Carp>, and the short message from calling C<croak> is not placed on the line where C<croak> was called.

=head2 $Carp::CarpLevel

This variable determines how many additional call frames are to be
skipped that would not otherwise be when reporting where an error occurred on a call to one of Carp’s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls that generate a short message. Usually people skip too many call frames. If they are lucky they skip enough that Carp goes all of the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call stack.

Therefore it is best to avoid Carp::CarpLevel. Instead use Carp::CarpLevel, Carp::Carp::Internal and Carp::Carp::CarpInternal.

Defaults to 0.

=head1 BUGS

The Carp routines don’t handle exception objects currently. If called with a first argument that is a reference, they simply call die() or warn(), as appropriate.

=head1 SEE ALSO

L<Carp::Always>,
L<Carp::Clan>

=head1 AUTHOR

The Carp module first appeared in Larry Wall’s perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent distribution.

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## version 0.1
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1.2683 go-sockaddr 1.0.2

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<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE
@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

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@end ifinfo
@page
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1.2689 jest-cli 24.9.0

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1.2690 wso2-carbon-registry-common-ui

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1.2695 freemarker 2.3.30

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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
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mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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LIBGCRYPT  Ulrich Muller  2012-02-15
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1.2708 perl-pod-simple 3.35-395.el8

1.2708.1 Available under license:

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/ChangeLog
No license file was found, but licenses were detected in source scan.

sub dump { ']' . _esc( @{ $_->[0] } ) . ']' } 

# JUNK:

sub _esc { 
  return " unless @_; 
  my @out; 
  foreach my $in (@_) { 
    push @out, "\" . $in . "\"; 
    $out[-1] =~ s/([\^\$\"\-\:\\\<\>\[\]\\\|\s\&\%\_])//eg; 
  }
  return join ', ', @out; 
}

__END__

=head1 NAME

Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

=head1 SYNOPSIS
Given a $parser that's an object of class Pod::Simple::PullParser (or a subclass)...  

while(my $token = $parser->get_token) {  
  $DEBUG and print STDERR "Token: ", $token->dump, "\n";  
  if($token->is_start) {  
    ...access $token->tagname, $token->attr, etc...  
  } elsif($token->is_text) {  
    ...access $token->text, $token->text_r, etc...  
  } elsif($token->is_end) {  
    ...access $token->tagname...  
  }  
}  

(Also see L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should get an object of a subclass of Pod::Simple::PullParserToken. Subclasses will add methods, and will also inherit these methods:

=over

=item $token->type

This returns the type of the token. This will be either the string "start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like $token->isa('Pod::Simple::PullParserEndToken'), but that's not so pretty as using just $token->type, or even the following shortcuts:

=item $token->is_start

This is a shortcut for C<< $token->type() eq "start" >>

=item $token->is_text

This is a shortcut for C<< $token->type() eq "text" >>
This is a shortcut for `C<< $token->type() eq "end" >>`

This returns a handy stringified value of this object. This is useful for debugging, as in:

```perl
while(my $token = $parser->get_token) {
    $DEBUG and print STDERR "Token: ", $token->dump, ",n";
    ...
}
```

My subclasses:
L<Pod::Simple::PullParserStartToken>, L<Pod::Simple::PullParserTextToken>, and L<Pod::Simple::PullParserEndToken>.

L<Pod::Simple::PullParser> and L<Pod::Simple>

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C.dwheeler@cpan.org
=back
=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParserToken.pm
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=head1 NAME

Pod::Simple::Search - find POD documents in directory trees

=head1 SYNOPSIS

use Pod::Simple::Search;
my $name2path = Pod::Simple::Search->new->limit_glob('LWP::*') ->survey;
print "Looky see what I found: ",
  join(’,’, sort keys %$name2path), "\n";

print "LWPUA docs = ",
  Pod::Simple::Search->new->find('LWP::UserAgent') || "?",
  "\n";

=head1 DESCRIPTION

B<Pod::Simple::Search> is a class that you use for running searches for Pod files. An object of this class has several attributes (mostly options for controlling search options), and some methods for searching based on those attributes.
The way to use this class is to make a new object of this class, set any options, and then call one of the search options (probably `C<survey>` or `C<find>`). The sections below discuss the syntaxes for doing all that.

=head1 CONSTRUCTOR

This class provides the one constructor, called `C<new>`. It takes no parameters:

```
use Pod::Simple::Search;
my $search = Pod::Simple::Search->new;
```

=head1 ACCESSORS

This class defines several methods for setting (and, occasionally, reading) the contents of an object. With two exceptions (discussed at the end of this section), these attributes are just for controlling the way searches are carried out.

Note that each of these return `$self` when you call them as `C<$self->I<whatever(value)>>`. That's so that you can chain together set-attribute calls like this:

```
my $name2path =
  Pod::Simple::Search->new
  -> inc(0) -> verbose(1) -> callback(&blab)
  -> survey(@there);

...which works exactly as if you'd done this:

my $search = Pod::Simple::Search->new;
$search->inc(0);
$search->verbose(1);
$search->callback(&blab);
my $name2path = $search->survey(@there);
```

=over

=item $search->inc( I<true-or-false> );

This attribute, if set to a true value, means that searches should implicitly add Perl's `I<@INC>` paths. This automatically considers paths specified in the `C<PERL5LIB>` environment as this is prepended to `I<@INC>` by the Perl interpreter itself. This attribute's default value is `B<TRUE>`. If you want to search
only specific directories, set $self->inc(0) before calling
$inc->survey or $inc->find.

=item $search->verbose( I<nonnegative-number> );

This attribute, if set to a nonzero positive value, will make searches output
(via C<warn>) notes about what they're doing as they do it.
This option may be useful for debugging a pod-related module.
This attribute's default value is zero, meaning that no C<warn> messages
are produced. (Setting verbose to 1 turns on some messages, and setting
it to 2 turns on even more messages, i.e., makes the following search(es)
even more verbose than 1 would make them.)

=item $search->limit_glob( I<some-glob-string> );

This option means that you want to limit the results just to items whose
podnames match the given glob/wildcard expression. For example, you
might limit your search to just "LWP::*", to search only for modules
starting with "LWP::*" (but not including the module "LWP" itself); or
you might limit your search to "LW*" to see only modules whose (full)
names begin with "LW"; or you might search for "*Find*" to search for
all modules with "Find" somewhere in their full name. (You can also use
"?" in a glob expression; so "DB?" will match "DBI" and "DBD").

=item $search->callback( I<\&some_routine> );

This attribute means that every time this search sees a matching
Pod file, it should call this callback routine. The routine is called
with two parameters: the current file's filespec, and its pod name.
(For example: C<("/etc/perljunk/File/Crunk.pm", "File::Crunk")> would
be in C<@_>.)

The callback routine's return value is not used for anything.

This attribute's default value is false, meaning that no callback
is called.

=item $search->laborious( I<true-or-false> );

Unless you set this attribute to a true value, Pod::Search will
apply Perl-specific heuristics to find the correct module PODs quickly.
This attribute's default value is false. You won't normally need
to set this to true.

Specifically: Turning on this option will disable the heuristics for
seeing only files with Perl-like extensions, omitting subdirectories
that are numeric but do I<not> match the current Perl interpreter's
version ID, suppressing F<site_perl> as a module hierarchy name, etc.

=item $search->recurse( I<true-or-false> );

Unless you set this attribute to a false value, Pod::Search will
recurse into subdirectories of the search directories.

=item $search->shadows( I<true-or-false> );

Unless you set this attribute to a true value, Pod::Simple::Search will
consider only the first file of a given modulename as it looks thru the
specified directories; that is, with this option off, if
Pod::Simple::Search has seen a C<somepathdir/Foo/Bar.pm> already in this
search, then it won't bother looking at a C<somelaterpathdir/Foo/Bar.pm>
later on in that search, because that file is merely a "shadow". But if
you turn on C<< $self->shadows(1) >>, then these "shadow" files are
inspected too, and are noted in the pathname2podname return hash.

This attribute's default value is false; and normally you won't
need to turn it on.

=item $search->limit_re( I<some-regexp> );

Setting this attribute (to a value that's a regexp) means that you want
to limit the results just to items whose podnames match the given
regexp. Normally this option is not needed, and the more efficient
C<limit_glob> attribute is used instead.

=item $search->dir_prefix( I<some-string-value> );

Setting this attribute to a string value means that the searches should
begin in the specified subdirectory name (like "Pod" or "File::Find",
also expressible as "File/Find"). For example, the search option
C<< $search->limit_glob("File::Find::R*") >>
is the same as the combination of the search options
C<< $search->limit_re("File::Find::R") -&gt; dir_prefix("File::Find") >>.

Normally you don't need to know about the C<dir_prefix> option, but I
include it in case it might prove useful for someone somewhere.

(Implementationally, searching with limit_glob ends up setting limit_re
and usually dir_prefix.)

=item $search->progress( I<some-progress-object> );
If you set a value for this attribute, the value is expected
to be an object (probably of a class that you define) that has a
C<reach> method and a C<done> method. This is meant for reporting
progress during the search, if you don't want to use a simple
callback.

Normally you don't need to know about the C<progress> option, but I
include it in case it might prove useful for someone somewhere.

While a search is in progress, the progress object's C<reach> and
C<done> methods are called like this:

    # Every time a file is being scanned for pod:
    $progress->reach($count, "Scanning $file");  ++$count;

    # And then at the end of the search:
    $progress->done("Noted $count Pod files total");

Internally, we often set this to an object of class
Pod::Simple::Progress. That class is probably undocumented,
but you may wish to look at its source.

=item $name2path = $self->name2path;

This attribute is not a search parameter, but is used to report the
result of C<survey> method, as discussed in the next section.

=item $path2name = $self->path2name;

This attribute is not a search parameter, but is used to report the
result of C<survey> method, as discussed in the next section.

=back

=head1 MAIN SEARCH METHODS

Once you've actually set any options you want (if any), you can go
ahead and use the following methods to search for Pod files
in particular ways.

=head2 C<< $search->survey( @directories ) >>

The method C<survey> searches for POD documents in a given set of
files and/or directories. This runs the search according to the various
options set by the accessors above. (For example, if the C<inc> attribute
is on, as it is by default, then the perl @INC directories are implicitly
added to the list of directories (if any) that you specify.)

The return value of C<survey> is two hashes:

=over

=item C<name2path>

A hash that maps from each pod-name to the filespec (like
"Stuff::Thing" => "/whatever/plib/Stuff/Thing.pm")

=item C<path2name>

A hash that maps from each Pod filespec to its pod-name (like
"/whatever/plib/Stuff/Thing.pm" => "Stuff::Thing")

=back

Besides saving these hashes as the hashref attributes
C<name2path> and C<path2name>, calling this function also returns
these hashrefs. In list context, the return value of
C<< $search->survey >> is the list C<($%name2path, $%path2name)>.
In scalar context, the return value is C<%name2path>.
Or you can just call this in void context.

Regardless of calling context, calling C<survey> saves
its results in its C<name2path> and C<path2name> attributes.

E.g., when searching in F<$HOME/perl5lib>, the file
F<$HOME/perl5lib/MyModule.pm> would get the POD name I<MyModule>,
whereas F<$HOME/perl5lib/Myclass/Subclass.pm> would be
I<Myclass::Subclass>. The name information can be used for POD
translators.

Only text files containing at least one valid POD command are found.

In verbose mode, a warning is printed if shadows are found (i.e., more
than one POD file with the same POD name is found, e.g. F<CPAN.pm> in
different directories). This usually indicates duplicate occurrences of
modules in the I<@INC> search path, which is occasionally inadvertent
(but is often simply a case of a user's path dir having a more recent
version than the system's general path dirs in general.)

The options to this argument is a list of either directories that are
searched recursively, or files. (Usually you wouldn't specify files,
but just dirs.) Or you can just specify an empty-list, as in
$name2path; with the C<inc> option on, as it is by default.
The POD names of files are the plain basenames with any Perl-like extension (.pm, .pl, .pod) stripped, and path separators replaced by C<::>’s.

Calling Pod::Simple::Search->search(...) is short for Pod::Simple::Search->new->search(...). That is, a throwaway object with default attribute values is used.

=head2 C<< $search->simplify_name( $str ) >>

The method B<simplify_name> is equivalent to B<basename>, but also strips Perl-like extensions (.pm, .pl, .pod) and extensions like F<.bat>, F<.cmd> on Win32 and OS/2, or F<.com> on VMS, respectively.

=head2 C<< $search->find( $pod ) >>

=head2 C<< $search->find( $pod, @search_dirs ) >>

Returns the location of a Pod file, given a Pod/module/script name (like "Foo::Bar" or "perlvar" or "perldoc"), and an idea of what files/directories to look in.
It searches according to the various options set by the accessors above. (For example, if the C<inc> attribute is on, as it is by default, then the perl @INC directories are implicitly added to the list of directories (if any) that you specify.)

This returns the full path of the first occurrence to the file.
Package names (eg 'A::B') are automatically converted to directory names in the selected directory. Additionally, '.pm', '.pl' and '.pod' are automatically appended to the search as required.
(So, for example, under Unix, "A::B" is converted to "somedir/A/B.pm", "somedir/A/B.pod", or "somedir/A/B/pl", as appropriate.)

If no such Pod file is found, this method returns undef.

If any of the given search directories contains a F<pod/> subdirectory, then it is searched. (That's how we manage to find F<perlfunc>, for example, which is usually in F<pod/perlfunc> in most Perl dists.)

The C<verbose> and C<inc> attributes influence the behavior of this search; notably, C<inc>, if true, adds @INC I<and also $Config::Config{'scriptdir'}> to the list of directories to search.

It is common to simply say C<< $filename = Pod::Simple::Search-> new->find("perlvar") >> so that just the @INC (well, and scriptdir)
directories are searched. (This happens because the C<inc>
attribute is true by default.)

Calling Pod::Simple::Search->find(...) is short for
Pod::Simple::Search->new->find(...). That is, a throwaway object
with default attribute values is used.

=head2 C<< $self->contains_pod( $file ) >>

Returns true if the supplied filename (not POD module) contains some Pod
documentation.

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org> with code borrowed
from Marek Rouchal's L<Pod::Find>, which in turn heavily borrowed code from
Nick Ing-Simmons' C<PodToHtml>.

But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
NAME

Pod::Simple::XMLOutStream -- turn Pod into XML

SYNOPSIS

perl -MPod::Simple::XMLOutStream -e \
  "exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" \
  thingy.pod

DESCRIPTION

Pod::Simple::XMLOutStream is a subclass of L<Pod::Simple> that parses
Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from
L<Pod::Simple>.

SEE ALSO

L<Pod::Simple::DumpAsXML> is rather like this class; see its
documentation for a discussion of the differences.

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>
L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::PXML>, L<Pod::XML>
ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing

SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

SUPPORT

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AUTHOR

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Pod::Simple is maintained by:

over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <d wheeler@cpan.org>

back
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZswBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/XMLOutStream.pm
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=head1 NAME
Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS
(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION
When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over
=item $token->text
This returns the text that this token holds.  For example, parsing C\z<<<foo\z>> will return a C start-token, a text-token, and a C end-token.  And if you want to get the "foo" out of the text-token, call C\z<< $token->text >>

=item $token->text(I<somestring>)
This changes the string that this token holds.  You probably won't need to do this.

=item $token->text_r()
This returns a scalar reference to the string that this token holds. This can be useful if you don't want to memory-copy the potentially large text value (well, as large as a paragraph or a verbatim block) as calling $token->text would do.

Or, if you want to alter the value, you can even do things like this:

for ( $\{ $token->text_r \} ) { #Aliases it with $_ !!
s/ 'A' eq chr(65) / # just for example

if( 'A' eq chr(65) ) {  # (if in an ASCII world)
    tr\xA0//;
    tr\xAD//d;
}

...or however you want to alter the value...
(Note that starting with Perl v5.8, you can use, e.g.,

    my $nbsp = chr utf8::unicode_to_native(0xA0);
    s/$nbsp/ /g;

    to handle the above regardless if it's an ASCII world or not)
}

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call

C<<
Pod::Simple::PullParserTextToken->new( I<text> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
<bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.
This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParserTextToken.pm
No license file was found, but licenses were detected in source scan.

NAME
perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION
This section of the FAQ answers questions related to programmer tools and programming support.

How do I do (anything)?

Have you looked at CPAN (see perlfaq2)? The chances are that someone has already written a module that can solve your problem. Have you read the appropriate man pages? Here's a brief index:

- Basics perldata, perlvar, perlsyn, perlpop, perls
- Execution perlr, perlddebug
- Functions perlfunc
- Objects perlref, perlmmod, perlobj, perltrie
- Data Structures perlref, perllo, perlsc
- Modules perlmmod, perlmlobj, perlsub
- Regexes perlre, perlfunc, perlpop, perllocal
- Moving to perl5 perltrap, perl
- Linking w/C perlxsut, perlx, percall, perl guts, perlembedded
(not a man-page but still useful)
A crude table of contents for the Perl man page set is found in perltoc.

How can I use Perl interactively?
The typical approach uses the Perl debugger, described in the perlddebug(1) man page, on an "empty" program, like this:
```
perl -de 42
```
Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?
In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?
Have you tried use warnings or used -w? They enable warnings to detect dubious practices.
Have you tried use strict? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.
```
open(FH, "> /etc/cantwrite")
or die "Couldn't write to /etc/cantwrite: $!");
```
Did you read perltrap? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like awk and C.
Have you tried the Perl debugger, described in perlddebug? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

How do I profile my Perl programs?
You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here's a sample use of Benchmark:
```
use Benchmark;
@junk = `cat /etc/motd`;
$count = 10_000;
timethese($count, { 'map' => sub { my @a = @junk; map { s/a/b/ } @a; return @a }, 'for' => sub { my @a = @junk; local $_; for (@a) { s/a/b/ }; return @a }, });
```
This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):
```
Benchmark: timing 10000 iterations of for, map...
  for:  4 secs ( 3.97 usr  0.01 sys =  3.98 cpu)
  map:  6 secs ( 4.97 usr  0.00 sys =  4.97 cpu)
```
Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.

How do I cross-reference my Perl programs?

The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

    perl -MO=Xref[,OPTIONS] scriptname.plx

Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:

        set ai sw=4
        map! ^O {^M}^[O^T

Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting-- as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.

The a2ps at http://www.infres.enst.fr/%7Edemaille/a2ps/ does lots of things related to generating nicely printed output of documents.

Is there a ctags for Perl?

There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

    CodeMagicCD
    http://www.codemagiccd.com/
    Komodo
    ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).
    The Object System
    (http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.
    PerlBuilder
    (http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.
    Perl code magic
    (http://www.petes-place.com/codemagic.html).
    visiPerl+
    http://helpconsulting.net/visiperl/, from Help Consulting.
For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

GNU Emacs
http://www.gnu.org/software/emacs/windows/ntemacs.html

MicroEMACS
http://members.nbci.com/uemacs/

XEmacs
http://www.xemacs.org/Download/index.html

or a vi clone such as

Elvis

Vile
http://vile.cx/

Vim
http://www.vim.org/

win32: http://www.cs.vu.nl/~%7Etmgil/vi.html


nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.

The following are Win32 multilanguage editor/IDESs that support Perl:

Codewright
http://www.starbase.com/

MultiEdit

SlickEdit
http://www.slickedit.com/

There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb http://world.std.com/~aep/ptkdb/ is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.

In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include

Bash
from the Cygwin package (http://sources.redhat.com/cygwin/)

Ksh
from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)

Tcsh

Zsh
ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.
If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).

BBEdit and BBEdit Lite
are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

Alpha
is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.olv.net/).

Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively (http://www.hekkelman.com/).

Where can I get Perl macros for vi?
For a complete version of Tom Christiansen's vi configuration file, see http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz, the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.

Where can I get perl-mode for emacs?
Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.

How can I use curses with Perl?
The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.

How can I use X or Tk with Perl?
Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/


How can I generate simple menus without using CGI or Tk?
The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

What is undump?
See the next question on ``How can I make my Perl program run faster?''

How can I make my Perl program run faster?
The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have
critical sections can be written in C (for instance, the PDL module from CPAN).
In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or
compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution
time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as
you'd hope.
If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit
by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs
(and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.
Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive
applications). To try this, see the INSTALL file in the source distribution, especially the ``Selecting File I/O
mechanisms'' section.
The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to
disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.
How can I make my Perl program take less memory?
When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use
more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be
done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared
amongst all hashes using them, so require no reallocation.
In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a
thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a
considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure.
If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use
less memory than equivalent Perl modules.
Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc.
Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in
the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl V:usemymalloc.
Is it unsafe to return a pointer to local data?
No, Perl's garbage collection system takes care of this.
sub makeone {
my @a = ( 1 .. 10 );
return \@a;
}
for $i ( 1 .. 10 ) {
push @many, makeone();
}
print $many[4][5], "\n";
print "@many\n";
How can I free an array or hash so my program shrinks?
You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's
why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux)
allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The
Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.
We've had reports that on Linux (Redhat 5.1) on Intel, undef $scalar will return memory to the system, while on
Solaris 2.6 it won't. In general, try it yourself and see.
However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free
up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you
can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In

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general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't going to help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules. With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.


A non-free, commercial product, ``The Velocity Engine for Perl'', (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of ``security''. First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like ``This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah.`` We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

How can I compile my Perl program into byte code or C?

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions. Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because
except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details. If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

How can I compile Perl into Java?
You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?
For OS/2 just use
extproc perl -S -your_switches
as the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET PATHEXT=;%PATHEXT%;.PL to let them run the program install-linux.pl merely by typing install-linux.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

Can I write useful Perl programs on the command line?
Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)

```
# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *

# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *

# remove (most) comments from C program
perl -0777 -pe 's/\*[^*]*\*/{}gs' foo.c

# make file a month younger than today, defeating reaper daemons
perl -e 'S$X=24*60*60; time(time()+30 * $X,@ARGV)' *

# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'
```

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# display reasonable manpath

    echo $PATH | perl -nl -072 -e 's![^/+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}'

OK, the last one was actually an Obfuscated Perl Contest entry. :-)

Why don't Perl one-liners work on my DOS/Mac/VMS system?

The problem is usually that the command interpreters on those systems have rather different ideas about quoting than the Unix shells under which the one-liners were created. On some systems, you may have to change single quotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single % to a %%.

For example:

- **Unix**
  - `perl -e 'print "Hello world\n"'`
  - `perl -e "print \"Hello world\n\""`
- **DOS, etc.**
  - `perl -e 'print "Hello world\n"'`
  - `perl -e "print "Hello world\n""`
- **Mac**
  - `print "Hello world\n"`
  - (then Run "Myscript" or Shift-Command-R)
- **VMS**
  - `perl -e "print ""Hello world\n"""

The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd probably have better luck like this:

    perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>"

Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control characters.

Using `qq()`, `q()`, and `qx()`, instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)

[Some of this answer was contributed by Kenneth Albanowski.]

Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like "Why do I get 500 Errors" or "Why doesn't it run from the browser right when it runs fine on the command line", see these sources:

- WWW Security FAQ
  - http://www.w3.org/Security/Faq/
- Web FAQ
  - http://www.boutell.com/faq/
- CGI FAQ
- HTTP Spec
  - http://www.w3.org/pub/WWW/Protocols/HTTP/
- HTML Spec
  - http://www.w3.org/TR/REC-html40/
  - http://www.w3.org/pub/WWW/MarkUp/
- CGI Spec
  - http://www.w3.org/CGI/
- CGI Security FAQ
Where can I learn about object-oriented Perl programming?

A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/.

Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with perlxstut, moving on to perlxs, xsubpp, and perlguts. If you want to call Perl from C, then read perlembed, percall, and perlguts. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.

I've read perlembed, perlguts, etc., but I can't embed perl in my C program; what am I doing wrong?

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I've read perlembed, perlguts, etc., but I can't embed perl in my C program; what am I doing wrong?

Download the ExtUtils::Embed kit from CPAN and run `make test'. If the tests pass, read the pods again and again and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along with perl -V.

When I tried to run my script, I got this message. What does it mean?

A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also use the splain program (distributed with Perl) to explain the error messages:

perl program 2>diag.out
splain [-v] [-p] diag.out

or change your program to explain the messages for you:

use diagnostics;
or
use diagnostics -verbose;

What's MakeMaker?

This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see ExtUtils::MakeMaker.

AUTHOR AND COPYRIGHT

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=head1 NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION
When you do $parser->get_token on a L<Pod::Simple::PullParser> object, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over
=item $token->tagname
This returns the tagname for this start-token object.
For example, parsing a "=head1 ...
 line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)
This changes the tagname for this start-token object.
You probably won't need to do this.

=item $token->tag(...)  
A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)
These are shortcuts for C<< $token->tag() eq I<somestring> >>

=item $token->attr(I<attrname>)
This returns the value of the I<attrname> attribute for this start-token object, or undef.
For example, parsing a LZ<> <Foo"Bar"> link will produce a start-token with a "to" attribute with the value "Foo", a "type" attribute with the value "pod", and a "section" attribute with the value "Bar".

=item $token->attr(I<attrname>, I<newvalue>)
This sets the I<attrname> attribute for this start-token object to I<newvalue>. You probably won't need to do this.

=item $token->attr_hash
This returns the hashref that is the attribute set for this start-token.
This is useful if (for example) you want to ask what all the attributes
are -- you can just do C<< keys %{$token->attr_hash} >>

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call
C<<
Pod::Simple::PullParserStartToken->new( I<tagname>, I<attrhash> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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=head1 AUTHOR

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Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParserStartToken.pm

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=head1 NAME

Pod::Simple - framework for parsing Pod

=head1 SYNSOPSIS

TODO

=head1 DESCRIPTION

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained in L<perlpod>; the most common formatter is called C<perldoc>.

Be sure to read L</ENCODING> if your Pod contains non-ASCII characters.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats. Typically, such formatters will be subclasses of Pod::Simple, and so they will inherit its methods, like C<parse_file>.

If you're reading this document just because you have a Pod-processing subclass that you want to use, this document (plus the documentation for the subclass) is probably all you need to read.

If you're reading this document because you want to write a formatter subclass, continue reading it and then read L<Pod::Simple::Subclassing>, and
then possibly even read L<perlpodspec> (some of which is for parser-writers, but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>-new(); >>

This returns a new parser object, where I<C<SomeClass>> is a subclass of Pod::Simple.

=item C<< $parser->output_fh( *OUT ); >>

This sets the filehandle that C<$parser>’s output will be written to. You can pass C<*STDOUT> or C<*STDERR>, otherwise you should probably do something like this:

  my $outfile = "output.txt";
  open TXTOUT, ">$outfile" or die "Can't write to $outfile: $!";
  $parser->output_fh(*TXTOUT);

...before you call one of the C<< $parser->parse_<whatever> >> methods.

=item C<< $parser->output_string( $somestring ); >>

This sets the string that C<$parser>’s output will be sent to, instead of any filehandle.

=item C<< $parser->parse_file( I<$some_filename> ); >>

=item C<< $parser->parse_file( *INPUT_FH ); >>

This reads the Pod content of the file (or filehandle) that you specify, and processes it with that C<$parser> object, according to however C<$parser>’s class works, and according to whatever parser options you have set up for this C<$parser> object.

=item C<< $parser->parse_string_document( I<$all_content> ); >>

This works just like C<parse_file> except that it reads the Pod content not from a file, but from a string that you have already in memory.

=item C<< $parser->parse_lines( I<...@lines...>, undef ); >>

This processes the lines in C<@lines> (where each list item must be a
defined value, and must contain exactly one line of content -- so no
text like C<"foo\nbar"> are allowed. The final C<undef> is used to
indicate the end of document being parsed.

The other C<parser->_whatever>> methods are meant to be called only once
per C<$parser> object; but C<parse_lines> can be called as many times per
C<$parser> object as you want, as long as the last call (and only
the last call) ends with an C<undef> value.

=item C<< $parser->content_seen >>

This returns true only if there has been any real content seen for this
document. Returns false in cases where the document contains content,
but does not make use of any Pod markup.

=item C<< I<SomeClass>-&gt;filter( I<$filename> ); >>

=item C<< I<SomeClass>-&gt;filter( I<&INPUT_FH> ); >>

=item C<< I<SomeClass>-&gt;filter( I<$document_content> ); >>

This is a shortcut method for creating a new parser object, setting the
output handle to STDOUT, and then processing the specified file (or
filehandle, or in-memory document). This is handy for one-liners like
this:

perl -MPod::Simple::Text -e "Pod::Simple::Text-&gt;filter('thingy.pod')"

=back

=head1 SECONDARY METHODS

Some of these methods might be of interest to general users, as
well as of interest to formatter-writers.

Note that the general pattern here is that the accessor-methods
read the attribute's value with C<< $value = $parser-&gt;I<attribute> >>
and set the attribute's value with
C<< $parser-&gt;I<attribute>(I$newvalue) >>. For each accessor, I typically
only mention one syntax or another, based on which I think you are actually
most likely to use.

=over
The Pod parser normally expects to read octets and to convert those octets to characters based on the \C<encoding> declaration in the Pod source. Set this option to a true value to indicate that the Pod source is already a Perl character stream. This tells the parser to ignore any \C<encoding> command and to skip all the code paths involving decoding octets.

If you set this attribute to a true value, you will suppress the parser's complaints about irregularities in the Pod coding. By default, this attribute's value is false, meaning that irregularities will be reported.

Note that turning this attribute to true won't suppress one or two kinds of complaints about rarely occurring unrecoverable errors.

If you set this attribute to a true value, you will stop the parser from generating a "POD ERRORS" section at the end of the document. By default, this attribute's value is false, meaning that an errata section will be generated, as necessary.

Setting \C<complain_stderr> also sets \C<no_errata_section>.

This returns the filename that this parser object was set to read from.

This returns true if \C<$parser> has read from a source, and has seen Pod content in it.
This returns true if $parser has read from a source, and come to the end of that source.

=item C<< $parser->strip_verbatim_indent( I<SOMEVALUE> ) >>

The perlpod spec for a Verbatim paragraph is "It should be reproduced exactly...", which means that the whitespace you've used to indent your verbatim blocks will be preserved in the output. This can be annoying for outputs such as HTML, where that whitespace will remain in front of every line. It's an unfortunate case where syntax is turned into semantics.

If the POD you're parsing adheres to a consistent indentation policy, you can have such indentation stripped from the beginning of every line of your verbatim blocks. This method tells Pod::Simple what to strip. For two-space indents, you'd use:

$parser->strip_verbatim_indent('  ');

For tab indents, you'd use a tab character:

$parser->strip_verbatim_indent("\t");

If the POD is inconsistent about the indentation of verbatim blocks, but you have figured out a heuristic to determine how much a particular verbatim block is indented, you can pass a code reference instead. The code reference will be executed with one argument, an array reference of all the lines in the verbatim block, and should return the value to be stripped from each line. For example, if you decide that you're fine to use the first line of the verbatim block to set the standard for indentation of the rest of the block, you can look at the first line and return the appropriate value, like so:

$new->strip_verbatim_indent(sub {
    my $lines = shift;
    (my $indent = $lines->[0]) =~ s/\S.*//;
    return $indent;
});

If you'd rather treat each line individually, you can do that, too, by just transforming them in-place in the code reference and returning C<undef>. Say that you don't want lines indented. You can do something like this:

$new->strip_verbatim_indent(sub {
    my $lines = shift;
    sub { s/^[\s\S]+// for @ { $lines }, return undef;
});
TERTIARY METHODS

item $parser->abandon_output_fh()  
Cancel output to the file handle. Any POD read by the $parser is not affected.

item $parser->abandon_output_string()  
Cancel output to the output string. Any POD read by the $parser is not affected.

item $parser->accept_code( @codes )  
Alias for accept_codes.

item $parser->accept_codes( @codes )  
Allows $parser to accept a list of Formatting Codes. This can be used to implement user-defined codes.

item $parser->accept_directive_as_data( @directives )  
Allows $parser to accept a list of directives for data paragraphs. A directive is the label of a Command Paragraph. A data paragraph is one delimited by =begin/=for/=end directives. This can be used to implement user-defined directives.

item $parser->accept_directive_as_processed( @directives )  
Allows $parser to accept a list of directives for processed paragraphs. A directive is the label of a Command Paragraph. A processed paragraph is also known as Ordinary Paragraph. This can be used to implement user-defined directives.

item $parser->accept_directive_as_verbatim( @directives )  
Allows $parser to accept a list of directives for Verbatim Paragraph. A directive is the label of a Command Paragraph. This can be used to implement user-defined directives.

item $parser->accept_target( @targets )  
Alias for accept_targets.
=item C<< $parser->accept_target_as_text( @targets ) >>

Alias for L<< accept_targets_as_text >>.

=item C<< $parser->accept_targets( @targets ) >>

Accepts targets for C<< =begin/=for/=end >> sections of the POD.

=item C<< $parser->accept_targets_as_text( @targets ) >>

Accepts targets for C<< =begin/=for/=end >> sections that should be parsed as
POD. For details, see L<< perlpodspec/About Data Paragraphs >>.

=item C<< $parser->any_errata_seen() >>

Used to check if any errata was seen.

I<Example:>

    die "too many errors\n" if $parser->any_errata_seen();

=item C<< $parser->errata_seen() >>

Returns a hash reference of all errata seen, both whines and screams. The hash reference's keys are the line number
and the value is an array reference of the errors for that line.

I<Example:>

    if ( $parser->any_errata_seen() ) {
        $logger->log( $parser->errata_seen() );
    }

=item C<< $parser->detected_encoding() >>

Return the encoding corresponding to C<< =encoding >>, but only if the
encoding was recognized and handled.

=item C<< $parser->encoding() >>

Return encoding of the document, even if the encoding is not correctly
handled.

=item C<< $parser->parse_from_file( $source, $to ) >>

Parses from C<$source> file to C<$to> file. Similar to L<<
Pod::Parser/parse_from_file >>.
Log an error that can't be ignored.

Alias for \$parser->unaccept_codes().

Removes \@codes as valid codes for the parse.

Alias for \$parser->unaccept_directives().

Removes \@directives as valid directives for the parse.

Alias for \$parser->unaccept_targets().

Removes \@targets as valid targets for the parse.

Returns a string describing the version.

Log an error unless \$parser->no_whining(TRUE);

ENCODING

The Pod::Simple parser expects to read \textit{octets}. The parser will decode the octets into Perl’s internal character string representation using the value of the \texttt{<=encoding>} declaration in the POD source.

If the POD source does not include an \texttt{<=encoding>} declaration, the parser will attempt to guess the encoding (selecting one of UTF-8 or CP 1252) by examining the first non-ASCII bytes and applying the heuristic described in \texttt{perlpodspec}. (If the POD source contains only ASCII bytes, the
encoding is assumed to be ASCII.)

If you set the C<parse_characters> option to a true value the parser will expect characters rather than octets; will ignore any C<encoding>; and will make no attempt to decode the input.

=head1 SEE ALSO

L<Pod::Simple::Subclassing>

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<Pod::Escapes|Pod::Escapes>

L<perldoc>

=head1 SUPPORT

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=head1 AUTHOR

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Pod::Simple is maintained by:
Documentation has been contributed by:

=item * Allison Randal <allison@perl.org>
=item * Hans Dieter Pearcey <hdp@cpan.org>
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=back

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---
abstract: 'framework for parsing Pod'
author:
  - 'Allison Randal <allison@perl.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Pod-Simple
no_index:
directory:
  - t
  - inc
recommends:
  Encode: '2.78'
requires:
  Carp: '0'
  Config: '0'
  Cwd: '0'
  File::Basename: '0'
  File::Find: '0'
  File::Spec: '0'
  Pod::Escapes: '1.04'
  Symbol: '0'
  Test: '1.25'
  Test::More: '0'
  Text::Wrap: '98.112902'
  integer: '0'
  overload: '0'
  strict: '0'
resources:
  bugtracker: https://github.com/perl-pod/pod-simple/issues
  homepage: http://search.cpan.org/dist/Pod-Simple/
  license: http://dev.perl.org/licenses/
  repository: git://github.com/perl-pod/pod-simple.git
  version: '3.35'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/META.yml
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=head1 NAME

Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsText -e \

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=head1 DESCRIPTION

This class is for dumping, as text, the events gotten from parsing a Pod document. This class is of interest to people writing Pod formatters based on Pod::Simple. It is useful for seeing exactly what events you get out of some Pod that you feed in.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML>

L<Pod::Simple>

=head1 SUPPORT

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=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

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=head1 ACKNOWLEDGEMENTS
Thanks to L.<http://he.net/> for permission to use its

Thanks to L.<http://search.cpan.org/> for permission to use the
site for Perl module links.

=head1 AUTHOR

Pod::Simple::XHTML was created by Allison Randal <allison@perl.org>.

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
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=cut

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=head1 NAME

Pod::Simple::HTMLBatch - convert several Pod files to several HTML files

=head1 SYNOPSIS

perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

=head1 DESCRIPTION

This module is used for running batch-conversions of a lot of HTML
documents
This class is NOT a subclass of Pod::Simple::HTML
(nor of bad old Pod::Html) -- although it uses
Pod::Simple::HTML for doing the conversion of each document.
The normal use of this class is like so:
use Pod::Simple::HTMLBatch;
my $batchconv = Pod::Simple::HTMLBatch->new;
$batchconv->some_option( some_value );
$batchconv->some_other_option( some_other_value );
$batchconv->batch_convert( \@search_dirs, $output_dir );
=head2 FROM THE COMMAND LINE
Note that this class also provides
(but does not export) the function Pod::Simple::HTMLBatch::go.
This is basically just a shortcut for C<<
Pod::Simple::HTMLBatch->batch_convert(@ARGV) >>.
It's meant to be handy for calling from the command line.
However, the shortcut requires that you specify exactly two command-line
arguments, C<indirs> and C<outdir>.
Example:
% mkdir out_html
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
(to convert the pod from Perl's @INC
files under the directory ./out_html)
(Note that the command line there contains a literal atsign-I-N-C. This
is handled as a special case by batch_convert, in order to save you having
to enter the odd-looking "" as the first command-line parameter when you
mean "just use whatever's in @INC".)
Example:
% mkdir ../seekrut
% chmod og-rx ../seekrut
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../seekrut
(to convert the pod under the current dir into HTML
files under the directory ./seekrut)
Example:
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
(to convert all pod from happydocs into the current directory)

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MAIN METHODS

This TODO

These two values for \texttt{\textless indirs\textgreater} specify that the normal Perl \texttt{@INC}

This specifies that the input directories are the items in
the arrayref \texttt{[@dirs]}.

This specifies that the director "somedir" is the input.
(This can be an absolute or relative path, it doesn't matter.)

A common value you might want would be just "." for the current directory:

This specifies that you want the dirs "somedir", "someother", and "also" scanned, just as if you'd passed the arrayref\texttt{[qw( somedir someother also)]}. Note that a ":"-separator is normal under Unix, but Under MSWin, you'll need \texttt{"somedir:someother:also"} instead, since the pathsep on MSWin is ";" instead of ":". (And \texttt{\textless that\textgreater} is because ":" often comes up in paths, like \texttt{"c:/perl/lib"}.)

(Exactly what separator character should be used, is gotten from
C<$Config::Config{'path_sep'}>, via the L<Config> module.)

=item $batchconv->batch_convert(..., undef);

This specifies that you want the HTML output to go into the current
directory.

(Note that a missing or undefined value means a different thing in
the first slot than in the second. That's so that C<batch_convert()> with no arguments (or undef arguments) means "go from @INC, into
the current directory.)

=item $batchconv->batch_convert(..., 'somedir');

This specifies that you want the HTML output to go into the
directory 'somedir'.
(This can be an absolute or relative path, it doesn't matter.)

=back

Note that you can also call C<batch_convert> as a class method,
like so:

Pod::Simple::HTMLBatch->batch_convert(...);

That is just short for this:

Pod::Simple::HTMLBatch-> new-> batch_convert(...);

That is, it runs a conversion with default options, for
whatever inputdirs and output dir you specify.

=head2 ACCESSOR METHODS

The following are all accessor methods -- that is, they don't do anything
on their own, but just alter the contents of the conversion object,
which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use
for setting the accessor to a specific value). But you can also
call each method with no parameters to get its current value. For
example, C<< $self->contents_file() >> returns the current value of
the contents_file attribute.

=over
This controls how verbose to be during batch conversion, as far as notes to STDOUT (or whatever is `C<select>`d) about how the conversion is going. If 0, no progress information is printed. If 1 (the default value), some progress information is printed. Higher values print more information.

This controls whether or not each HTML page is liable to have a little table of contents at the top (which we call an "index" for historical reasons). This is true by default.

If set, should be the name of a file (in the output directory) to write the HTML index to. The default value is "index.html". If you set this to a false value, no contents file will be written.

This specifies what string should be put at the beginning of the contents page. The default is a string more or less like this:

```html
<html>
<head><title>Perl Documentation</title></head>
<body class='contentspage'>
<h1>Perl Documentation</h1>
```

This specifies what string should be put at the end of the contents page. The default is a string more or less like this:

```html
<p class='contentsfooty'>Generated by Pod::Simple::HTMLBatch v3.01 under Perl v5.008
At Fri May 14 22:26:42 2004 GMT,
which is Fri May 14 14:26:42 2004 local time.</p>
```
TODO

=item $batchconv->add_javascript( $url );

TODO

=item $batchconv->css_flurry( I<true-or-false> );

If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those.
TODO: continue

=item $batchconv->javascript_flurry( I<true-or-false> );

If true (the default value), we autogenerate a JavaScript in the output directory, and set our HTML files to use it. Currently, the JavaScript is used only to get the browser to remember what stylesheet it prefers.
TODO: continue

=item $batchconv->no_contents_links( I<true-or-false> );

TODO

=item $batchconv->html_render_class( I<classname> );

This sets what class is used for rendering the files.
The default is "Pod::Simple::HTML". If you set it to something else, it should probably be a subclass of Pod::Simple::HTML, and you should C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

=item $batchconv->search_class( I<classname> );

This sets what class is used for searching for the files.
The default is "Pod::Simple::Search". If you set it to something else, it should probably be a subclass of Pod::Simple::Search, and you should C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

=back

=head1 NOTES ON CUSTOMIZATION

TODO
call add_css($someurl) to add stylesheet as alternate
call add_css($someurl,1) to add as primary stylesheet

subclass Pod::Simple::HTML and set $batchconv->html_render_class to
that classname
and maybe override
$page->batch_mode_page_object_init($self, $module, $infile, $outfile, $depth)
or maybe override
$batchconv->batch_mode_page_object_init($page, $module, $infile, $outfile, $depth)
subclass Pod::Simple::Search and set $batchconv->search_class to
that classname

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>, L<perlpod>, L<perlpodspec>

=head1 SUPPORT

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=cut

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=head1 NAME

Pod::Simple::Checker -- check the Pod syntax of a document

=head1 SYNOPSIS

perl -MPod::Simple::Checker -e \\
"exit Pod::Simple::Checker->filter(shift)->any_errata_seen" \\
thingy.pod

=head1 DESCRIPTION

This class is for checking the syntactic validity of Pod.
It works by basically acting like a simple-minded version of
L<Pod::Simple::Text> that formats only the "Pod Errors" section
(if Pod::Simple even generates one for the given document).

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Checker>

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=head1 NAME

Pod::Simple::PullParser -- a pull-parser interface to parsing Pod
=head1 SYNOPSIS
my $parser = SomePodProcessor->new;
$parser->set_source( "whatever.pod" );
$parser->run;
Or:
my $parser = SomePodProcessor->new;
$parser->set_source( $some_filehandle_object );
$parser->run;
Or:
my $parser = SomePodProcessor->new;
$parser->set_source( \$document_source );
$parser->run;
Or:
my $parser = SomePodProcessor->new;
$parser->set_source( \@document_lines );
$parser->run;
And elsewhere:
require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);
sub run {
my $self = shift;
Token:
while(my $token = $self->get_token) {
...process each token...
}
}
=head1 DESCRIPTION
This class is for using Pod::Simple to build a Pod processor -- but
one that uses an interface based on a stream of token objects,
instead of based on events.
This is a subclass of L<Pod::Simple> and inherits all its methods.

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A subclass of Pod::Simple::PullParser should define a C<run> method that calls C<<< Stoken = $parser->get_token >>> to pull tokens.

See the source for Pod::Simple::RTF for an example of a formatter that uses Pod::Simple::PullParser.

=head1 METHODS

=over

=item my $token = $parser->get_token

This returns the next token object (which will be of a subclass of L<Pod::Simple::PullParserToken>), or undef if the parser-stream has hit the end of the document.

=item $parser->unget_token( $token )

=item $parser->unget_token( $token1, $token2, ... )

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level way is to call C<set_source>:

=over

=item $parser->set_source( $filename )

=item $parser->set_source( $filehandle_object )

=item $parser->set_source( $document_source )

=item $parser->set_source( @document_lines )

=back

Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:

=over

=item $parser->parse_file(...) 

=item $parser->parse_string_document(...) 

=back
For those to work, the Pod-processing subclass of Pod::Simple::PullParser has to have defined a $parser->run method -- so it is advised that all Pod::Simple::PullParser subclasses do so. See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to call on a parser object that you haven’t started pulling tokens from yet:

=item my $title_string = $parser->get_title

This tries to get the title string out of $parser, by getting some tokens, and scanning them for the title, and then ungetting them so that you can process the token-stream from the beginning.

For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

$parser->get_title on that document will return "Hoo::Boy::Wowza -- Stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you’ll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_title(nocase => 1);

In cases where get_title can’t find the title, it will return empty-string (""").

=item my $title_string = $parser->get_short_title

This is just like get_title, except that it returns just the modulename, if the title seems to be of the form "SomeModuleName -- description".
For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hoo::Boy::Wowza".

But if the document starts out:

=head1 NAME

Hooboy, stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hooboy, stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_short_title(nocase => 1);

If the title can't be found, then get_short_title returns empty-string ("").

=item $author_name   = $parser->get_author

This works like get_title except that it returns the contents of the "=head1 AUTHOR\n\nParagraph...\n" section, assuming that that section isn't terribly long. To recognize a "=head1 Author\n\nParagraph\n" section, pass the C<nocase> option:

$parser->get_author(nocase => 1);

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

=item $description_name = $parser->get_description

This works like get_title except that it returns the contents of the "=head1 DESCRIPTION\n\nParagraph...\n" section, assuming that that section isn't terribly long. To recognize a "=head1 Description\n\nParagraph\n" section, pass the C<nocase> option:

$parser->get_description(nocase => 1);
This works like get_title except that it returns the contents of
the "=head1 VERSION

[BIG BLOCK]\n" block. Note that this does NOT
return the module's C<$VERSION>!! To recognize a
"=head1 Version

[BIG BLOCK]\n" section, pass the C<nocase> option:

$parser->get_version(nocase => 1);

=back

=head1 NOTE

You don't actually I<have> to define a C<run> method. If you're
writing a Pod-formatter class, you should define a C<run> just so
that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just
writing a program that does something simple with a Pod::PullParser
object (and not an object of a subclass), then there's no reason to
bother subclassing to add a C<run> method.

=head1 SEE ALSO

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.

=head1 SUPPORT

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=cut

JUNK:

sub _old_get_title {  # some witchery in here
   my $self = $_[0];
   my $title;
   my @to_unget;

   while(1) {
      push @to_unget, $self->get_token;
      unless(defined $to_unget[-1]) { # whoops, short doc!
         pop @to_unget;
         last;
      }
   }

   DEBUG and print STDERR "-Got token ", $to_unget[-1]->dump, "\n";

   (DEBUG and print STDERR "Too much in the buffer.\n"),
   last if @to_unget > 25; # sanity
my $pattern = "") if ($to_unget[-1]->type eq 'end'

# Put it all back:
$self->unget_token(@to_unget);

if (DEBUG) {
  if (defined $title) { print STDERR "Returning title <$title>\n" } else { print STDERR "Returning title <->\n" }
return " unless defined $title;
return $title;
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParser.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsXML -e
"exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen"
thingy.pod

=head1 DESCRIPTION

Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod and turns it into indented and wrapped XML. This class is of interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::XMLOutStream> is rather like this class.
Pod::Simple::XMLOutStream's output is space-padded in a way that's better for sending to an XML processor (that is, it has no ignorable whitespace). But Pod::Simple::DumpAsXML's output is much more human-readable, being (more-or-less) one token per line, with line-wrapping.

L<Pod::Simple::DumpAsText> is rather like this class, except that it doesn't dump with XML syntax. Try them and see which one you like best!

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>
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=head1 NAME

Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

perl -MPod::Simple::Text -e "exit Pod::Simple::Text->filter(shift)->any_errata_seen" thingy.pod

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change C<$Text::Wrap::columns> as you like.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

=head1 SUPPORT

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=head1 NAME

Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item Stoken->tagname

This returns the tagname for this end-token object.
For example, parsing a ":=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname("somestring")

This changes the tagname for this end-token object. You probably won't need to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag("somestring") or $token->is_tagname("somestring")

These are shortcuts for C<< $token->tag() eq "somestring" >>

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call

C<< Pod::Simple::PullParserEndElement->new( "<tagname>" ) >>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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# TODO: let it be an option whether a given subclass even wants little treelets?

__END__

=head1 NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

=head1 SYNOPSIS

# a long story

=head1 DESCRIPTION

This class is not of interest to general users.

Pod::Simple uses this class for representing the value of the
"section" attribute of "L" start-element events. Most applications can just use the normal stringification of objects of this class; they stringify to just the text content of the section, such as "foo" for
C<< LZ<<<Stuff/foo> >>, and "bar" for
C<< LZ<<<Stuff/bIZ<<<ar>> >>.

However, anyone particularly interested in getting the full value of the treelet, can just traverse the content of the treelet
@$treelet_object. To wit:

% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper($_[1]{'section'} ) }
__PACKAGE__--->new--->parse_string_document('=head1 L<Foo/bI<ar>baz>>')
"
Output:
$VAR1 = bless( [
    '',
    {},
    'b',
    bless( [
        T,
        {},
        'ar'
    ], 'Pod::Simple::LinkSection' ),
    'baz'
], 'Pod::Simple::LinkSection' );

But stringify it and you get just the text content:

% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper( " . $_[1]{'section'} ) }
__PACKAGE__--->new--->parse_string_document('=head1 L<Foo/bI<ar>baz>>')
"
Output:
$VAR1 = 'barbaz';

=head1 SEE ALSO

L<Pod::Simple>

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=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/LinkSection.pm

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=head1 NAME
Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

=head1 SYNOPSIS

% cat ptest.pod

=head1 PIE

I like B<pie>!

% perl -MPod::Simple::SimpleTree -MDumper -e "print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" ptest.pod

$VAR1 = [
    'Document',
    { 'start_line' => 1 },
    [
        'head1',
        { 'start_line' => 1 },
        'PIE'
    ],
    [
        'Para',
        { 'start_line' => 3 },
        'I like ',
        [
            'B',
            { },
            'pie'
        ],
        '!
    ];

=head1 DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just of arrayrefs, and hashrefs, and strings.

This is a subclass of L<Pod::Simple> and inherits all its methods.

This class is inspired by XML::Parser's "Tree" parsing-style, although it doesn't use exactly the same LoL format.

=head1 METHODS
At the end of the parse, call C<$parser->root> to get the tree's top node.

=head1 Tree Contents

Every element node in the parse tree is represented by an arrayref of the form: C<[ 'elementname', \%attributes, I...subnodes... ]>. See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref) string scalar. So you can test C<ref($node)> to see whether you have an element node or just a text node.

The top node in the tree is C<[ 'Document', \%attributes, I...subnodes... ]>

=head1 SEE ALSO

L<Pod::Simple>

L<perllol>

L<The "Tree" subsubsection in XML::Parser/XML::Parser/"Tree">

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, https://github.com/perl-pod/pod-simple/. Feel free to fork and contribute, or to clone git://github.com/perl-pod/pod-simple.git and send patches!

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=head1 AUTHOR

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=head1 NAME

Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

=head1 SYNOPSIS

use Pod::Simple::Debug (5);  # or some integer

Or:

my $debuglevel;
use Pod::Simple::Debug ($debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which you don't want debug output from...

$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which you DO want debug output from...

$debug_level = 0;
=head1 DESCRIPTION

This is an internal module for controlling the debug level (a.k.a. trace level) of Pod::Simple. This is of interest only to Pod::Simple developers.

=head1 CAVEATS

Note that you should load this module I<before> loading Pod::Simple (or any Pod::Simple-based class). If you try loading Pod::Simple::Debug after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will throw a fatal error to the effect that
"It's too late to call Pod::Simple::Debug".

Note that the C<use Pod::Simple::Debug (\$x, I<somenum>)> mode will make Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won't be a constant sub anymore, and so Pod::Simple (et al) won't compile with constant-folding.

=head1 GUTS

Doing this:

    use Pod::Simple::Debug (5);  # or some integer

is basically equivalent to:

    BEGIN { sub Pod::Simple::DEBUG () {5} }  # or some integer
    use Pod::Simple ();

And this:

    use Pod::Simple::Debug ($debug_level,0);  # or some integer

is basically equivalent to this:

    my $debug_level;
    BEGIN { $debug_level = 0 }
    BEGIN { sub Pod::Simple::DEBUG () { $debug_level } }
    use Pod::Simple ();

=head1 SEE ALSO

L<Pod::Simple>

The article "Constants in Perl", in I<The Perl Journal> issue
Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

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3.35/lib/Pod/Simple/Debug.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
Pod::Simple::TextContent -- get the text content of Pod

=head1 SYNOPSIS

TODO

perl -MPod::Simple::TextContent -e \
"exit Pod::Simple::TextContent->filter(shift)->any_errata_seen" \nthingy.pod

=head1 DESCRIPTION

This class is that parses Pod and dumps just the text content. It is
mainly meant for use by the Pod::Simple test suite, but you may find
some other use for it.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO
L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

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pod-people@perl.org mail list. Send an empty email to
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=head1 NAME

Pod::Simple::RTF -- format Pod as RTF

=head1 SYNOPSIS

perl -MPod::Simple::RTF -e \
"exit Pod::Simple::RTF->filter(shift)->any_errata_seen" \
thiny.pod > thingy.rtf

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as RTF, good for viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you
call C<parse_file> (or a similar method) on it:

=item $parser->head1_halfpoint_size( I<halfpoint_integer> );

=item $parser->head2_halfpoint_size( I<halfpoint_integer> );

=item $parser->head3_halfpoint_size( I<halfpoint_integer> );

=item $parser->head4_halfpoint_size( I<halfpoint_integer> );

These methods set the size (in half-points, like 52 for 26-point) that these heading levels will appear as.

=item $parser->codeblock_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 21 for 10.5-point) that codeblocks ("verbatim sections") will appear as.

=item $parser->header_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 15 for 7.5-point) that the header on each page will appear in. The header is usually just "I<modulename> p. I<pagenumber>".

=item $parser->normal_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 26 for 13-point) that normal parigraphic text will appear in.

=item $parser->no_proofing_exemptions( I<true_or_false> );

Set this value to true if you don't want the formatter to try putting a hidden code on all Perl symbols (as best as it can notice them) that labels them as being not in English, and so not worth spellchecking.

=item $parser->doc_lang( I<microsoft_decimal_language_code> )

This sets the language code to tag this document as being in. By default, it is currently the value of the environment variable C<RTFDEFLANG>, or if that's not set, then the value 1033 (for US English).

Setting this appropriately is useful if you want to use the RTF to spellcheck, and/or if you want it to hyphenate right.
Here are some notable values:

1033  US English
2057  UK English
3081  Australia English
4105  Canada English
1034  Spain Spanish
2058  Mexico Spanish
1031  Germany German
1036  France French
3084  Canada French
1035  Finnish
1044  Norwegian (Bokmal)
2068  Norwegian (Nynorsk)

If you are particularly interested in customizing this module's output even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>, L<RTF::Generator>

=head1 SUPPORT

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require 5;
use strict;
package SomePodFormatter;
use base qw(Pod::Simple::Methody);

sub handle_text {
    my($self, $text) = @_; 
    ...
}

sub start_head1 {
    my($self, $attrs) = @_; 
    ...
}
sub end_head1 {
    my($self) = @_;  
    ...
}

...and start_/end_ methods for whatever other events you want to catch.

=head1 DESCRIPTION

This class is of interest to people writing Pod formatters based on Pod::Simple.

This class (which is very small -- read the source) overrides Pod::Simple's _handle_element_start, _handle_text, and _handle_element_end methods so that parser events are turned into method calls. (Otherwise, this is a subclass of L<Pod::Simple> and inherits all its methods.)

You can use this class as the base class for a Pod formatter/processor.

=head1 METHOD CALLING

When Pod::Simple sees a "=head1 Hi there", for example, it basically does this:

$p = $parser->_handle_element_start( "head1", \%attributes );
$p = $parser->_handle_text( "Hi there" );
$p = $parser->_handle_element_end( "head1" );

But if you subclass Pod::Simple::Methody, it will instead do this when it sees a "=head1 Hi there":

$p = $parser->start_head1( \%attributes ) if $parser->can('start_head1');
$p = $parser->handle_text( "Hi there" ) if $parser->can('handle_text');
$p = $parser->end_head1() if $parser->can('end_head1');

If Pod::Simple sends an event where the element name has a dash, period, or colon, the corresponding method name will have a underscore in its place. For example, "foo.bar:baz" becomes start_foo_bar_baz and end_foo_bar_baz.

See the source for Pod::Simple::Text for an example of using this class.
SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Subclassing>

SUPPORT

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item * David E. Wheeler C<dwheeler@cpan.org>

back

cut

Found in path(s):
=head1 NAME

Pod::Simple::HTML - convert Pod to HTML

=head1 SYNOPSIS

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

=head1 DESCRIPTION

This class is for making an HTML rendering of a Pod document.

This is a subclass of L<Pod::Simple::PullParser> and inherits all its methods (and options).

Note that if you want to do a batch conversion of a lot of Pod documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

=head1 CALLING FROM THE COMMAND LINE

TODO

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

=head1 CALLING FROM PERL

=head2 Minimal code

use Pod::Simple::HTML;
my $p = Pod::Simple::HTML->new;$p->output_string("my $html");$p->parse_file('path/to/Module/Name.pm');open my $out, '>','out.html' or die "Cannot open 'out.html': $!
";print $out $html;

=head2 More detailed example

use Pod::Simple::HTML;
Set the content type:

```perl
$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >};
```

my $p = Pod::Simple::HTML->new;

Include a single javascript source:

```perl
$p->html_javascript('http://abc.com/a.js');
```

Or insert multiple javascript source in the header
(or for that matter include anything, thought this is not recommended)

```perl
$p->html_javascript('  <script type="text/javascript" src="http://abc.com/b.js"></script>
  <script type="text/javascript" src="http://abc.com/c.js"></script>');
```

Include a single css source in the header:

```perl
$p->html_css('/style.css');
```

or insert multiple css sources:

```perl
$p->html_css('  <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="http://remote.server.com/jquery.css">
  <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="/style.css">');
```

Tell the parser where should the output go. In this case it will be placed in the $html variable:

```perl
my $html;
$p->output_string($html);
```

Parse and process a file with pod in it:

```perl
$p->parse_file('path/to/Module/Name.pm');
```

=head1 METHODS

TODO
all (most?) accessorized methods

The following variables need to be set B<before> the call to the ->new constructor.

Set the string that is included before the opening <html> tag:

```perl
$Pod::Simple::HTML::Doctype_decl = qq{<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01
```
Set the content-type in the HTML head: (defaults to ISO-8859-1)

$Pod::Simple::HTML::Content_decl = q{ <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >};

Set the value that will be embedded in the opening tags of F, C tags and verbatim text.
F maps to <em>, C maps to <code>, Verbatim text maps to <pre> (Computerese defaults to "")

$Pod::Simple::HTML::Computerese = q{ \textit{class="some_class_name"};

=head2 html_css

=head2 html_javascript

=head2 title_prefix

=head2 title_postfix

=head2 html_header_before_title

This includes everything before the <title> opening tag including the Document type and including the opening <title> tag. The following call will set it to be a simple HTML file:

$p->html_header_before_title('html><head><title>');

=head2 top_anchor

By default Pod::Simple::HTML adds a dummy anchor at the top of the HTML.
You can change it by calling

$p->top_anchor('<a name="zz">');

=head2 html_h_level

Normally =head1 will become <h1>, =head2 will become <h2> etc.
Using the html_h_level method will change these levels setting the h level of =head1 tags:

$p->html_h_level(3);

Will make sure that =head1 will become <h3> and =head2 will become <h4> etc...

=head2 index
Set it to some true value if you want to have an index (in reality a table of contents) to be added at the top of the generated HTML.

$p->index(1);

=head2 html_header_after_title

Includes the closing tag of </title> and through the rest of the head till the opening of the body

$p->html_header_after_title('</title>... </head><body id="my_id">');

=head2 html_footer

The very end of the document:

$p->html_footer( qq[
<!-- end doc -->

</body></html>
] );

=head1 SUBCLASING

Can use any of the methods described above but for further customization one needs to override some of the methods:

package My::Pod;
use strict;
use warnings;

use base 'Pod::Simple::HTML';

# needs to return a URL string such
# http://some.other.com/page.html
# #anchor_in_the_same_file
# /internal/ref.html
sub do_pod_link {
  # My::Pod object and Pod::Simple::PullParserStartToken object
  my ($self, $link) = @_;

  say $link->tagname;          # will be L for links
  say $link->attr('to');       #
  say $link->attr('type');     # will be 'pod' always
  say $link->attr('section');

  # Links local to our web site
  if ($link->tagname eq 'L' and $link->attr('type') eq 'pod') {
    my $to = $link->attr('to');
    if ($to =~ /^Padre::/) {
      $to =~ s{::}{/}g;
  }
Meanwhile in script.pl:

use My::Pod;

my $p = My::Pod->new;

my $html;
$p->output_string($html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die;
print $out $html;

TODO

maybe override do_beginning do_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common idioms?

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=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric|http://he.net/> for permission to use its L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the site for Perl module links.

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All rights reserved.
Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained L<perlpod>; the most common formatter is called C<perldoc>.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats.

To install this module, type the following:

perl Makefile.PL
make
test
make install

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1.2709 siddhi-extension-timeseries 3.2.3

1.2709.1 Available under license:

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/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_ppm_redirect_ut.h
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 * January 2011, c3pl-dev
 */
* Copyright (c) 2011 by cisco Systems, Inc.
* All rights reserved.
*-----------------------------------------------------------------
* $Log$
* Branch:
*-----------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/ut/internal_inc/pam_ppm_redirect_ut.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*------------------------------------------------------------------
* pam_target.c : pam target api implementation
* routines
* June 2011, c3pl-dev
*
* Copyright (c) 2011, 2016-2017 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_target.c
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
* pam_app_db_typedef.h
*
* Aug 2011, c3pl-dev
*
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*-----------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_app_db_typedef.h
No license file was found, but licenses were detected in source scan.

##
## Sub-Component "c3pl/client/pam":
##
## C3PL Client Policy Abstraction Module
## Author: c3pl-dev
## Date: June 2011
##
## Copyright (c) 2011 by cisco Systems, Inc.
## All rights reserved.
##
syntax: 1.0.0

group: generic
{

  enum:
    internal_inc/enum/pam_class.enum
    internal_inc/enum/pam_client.enum
    internal_inc/enum/pam_obj.enum
    internal_inc/enum/pam_policy.enum
}

group: top
{
  includes: $(COMPONENT_ROOT)/posix/include
  sub: c3pl_pam
  {
    contains:
      pam/src/pam_app_data_db.c
      pam/src/pam_app_db.c
      pam/src/pam_hdl.c
      pam/src/pam_provision.c
  }
}

Found in path(s):
/* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/content.lst
No license file was found, but licenses were detected in source scan.

/*
* $Id$
* $Source$
*------------------------------------------------------------------
* pam_app_data_db.c : pam app data db implementation routines
*------------------------------------------------------------------
* Aug 2011, c3pl-dev
* Copyright (c) 2011 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/
BEGIN PAM_CLIENT_ENUM

ENUM pam_client_type

    # String to dump for debug commands.
    ATTRIBUTE pam_client_debug
        TYPE char*
    END ATTRIBUTE

    # String to be reserved as name prefix.
    ATTRIBUTE pam_client_prefix
        TYPE char*
    END ATTRIBUTE

ITEM PAM_CLIENT_ONEP
    LONG       "ONEP"
    SHORT      "ONEP"
    ATTRIBUTE[pam_client_debug] "ONEP"
    ATTRIBUTE[pam_client_prefix] "__ONEP_"
END ITEM

END ENUM

END

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_app_data_db.c
No license file was found, but licenses were detected in source scan.
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/ut/internal_inc/pam_ppm_shim.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *-----------------------------------------------
 * pam_ppm_shim.h
 * pam ppm shim specific function definitions
 *
 * January 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *-----------------------------------------------
 * $Log$
 * Branch:
 *-----------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/ut/internal_inc/pam_ppm_shim.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *-----------------------------------------------
 * pam_debug.h : pam debug macros
 *
 * June 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *-----------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/ut/internal_inc/pam_debug.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
* pam_class.h : includes for onep pam related
* routines
* June 2011, c3pl-dev
*
* Copyright (c) 2011 by cisco Systems, Inc.
* All rights reserved.
*-----------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_class.h
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_exception_type.h
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
* pam_app_data_db.h: Function delcarations for manipulating the PAM APP DATA DB
* Aug 2011, c3pl-dev
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*-----------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_app_data_db.h
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
* pam_app_db_types.h: Internally used data structures for PAM APP DB
* Aug 2011, c3pl-dev
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*-----------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_app_db_types.h
No license file was found, but licenses were detected in source scan.

#-----------------------------------------------
# pam_exception.enum -- PAM Exception type enumerations
#
# July 2011
#
BEGIN PAM_EXCEPTION_ENUM

ENUM pam_exception_type

# String to dump for debug commands.
ATTRIBUTE pam_exception_debug
    TYPE char*
END ATTRIBUTE

ITEM PAM_OK
    LONG ""
    SHORT "OK"
    ATTRIBUTE[pam_exception_debug] "OK"
END ITEM

ITEM PAM_INVLD_HDL
    LONG ""
    SHORT "INVLD_HDL"
    ATTRIBUTE[pam_exception_debug] "INVALID_HANDLE"
END ITEM

ITEM PAM_INVLD_ATTR
    LONG ""
    SHORT "INVLD_ATTR"
    ATTRIBUTE[pam_exception_debug] "INVALID_ATTRIBUTE"
END ITEM

ITEM PAM_APPID_NO_MATCH
    LONG ""
    SHORT "APPID_NO_MATCH"
    ATTRIBUTE[pam_exception_debug] "APPID_NO_MATCH"
END ITEM

ITEM PAM_SYS_NOMEM
    LONG ""
    SHORT "SYS_NOMEM"
    ATTRIBUTE[pam_exception_debug] "SYSTEM_NO_MEMORY"
END ITEM

ITEM PAM_ADD_ACTION_FAIL
    LONG ""
    SHORT "ADD_ACTION_FAIL"
    ATTRIBUTE[pam_exception_debug] "ADD_ACTION_FAILED"
END ITEM
ITEM PAM_RM_ACTION_FAIL
  LONG       ""
  SHORT      "RM_ACTION_FAIL"
  ATTRIBUTE[pam_exception_debug]  "REMOVE_ACTION_FAILED"
END ITEM

ITEM PAM_ATTACH_POL_FAIL
  LONG       ""
  SHORT      "ATTACH_POL_FAIL"
  ATTRIBUTE[pam_exception_debug]  "ATTACH_POLICY_FAILED"
END ITEM

ITEM PAM_DETACH_POL_FAIL
  LONG       ""
  SHORT      "DETACH_POL_FAIL"
  ATTRIBUTE[pam_exception_debug]  "DETACH_POL_FAILED"
END ITEM

ITEM PAM_STORE_POL_FAIL
  LONG       ""
  SHORT      "STORE_POL_FAIL"
  ATTRIBUTE[pam_exception_debug]  "STORE_POLICY_FAILED"
END ITEM

ITEM PAM_DEL_POL_FAIL
  LONG       ""
  SHORT      "DEL_POL_FAIL"
  ATTRIBUTE[pam_exception_debug]  "DELETE_POLICY_FAILED"
END ITEM

ITEM PAM_ADD_CLS_FAIL
  LONG       ""
  SHORT      "ADD_CLS_FAIL"
  ATTRIBUTE[pam_exception_debug]  "ADD_CLASS_FAILED"
END ITEM

ITEM PAM_DEL_CLS_FAIL
  LONG       ""
  SHORT      "DEL_CLS_FAIL"
  ATTRIBUTE[pam_exception_debug]  "DELETE_CLASS_FAILED"
END ITEM

ITEM PAM_ERR_CLASS_IN_USE
  LONG       ""
  SHORT      "ERR_CLASS_IN_USE"
  ATTRIBUTE[pam_exception_debug]  "ERR_CLASS_IN_USE"
END ITEM
ITEM PAM_STORE_CLS_FAIL
   LONG    ""
   SHORT   "STORE_CLS_FAIL"
   ATTRIBUTE[pam_exception_debug] "STORE_CLASS_FAILED"
END ITEM

ITEM PAM_QUERY_CLS_FAIL
   LONG    ""
   SHORT   "QUERY_CLS_FAIL"
   ATTRIBUTE[pam_exception_debug] "QUERY_CLASS_FAILED"
END ITEM

ITEM PAM_QUERY_POL_FAIL
   LONG    ""
   SHORT   "QUERY_POL_FAIL"
   ATTRIBUTE[pam_exception_debug] "QUERY_POLICY_FAILED"
END ITEM

ITEM PAM_POL_NOT_FOUND
   LONG    ""
   SHORT   "POL_NOT_FOUND"
   ATTRIBUTE[pam_exception_debug] "POLICY_NOT_FOUND"
END ITEM

ITEM PAM_ADD_FILTER_FAIL
   LONG    ""
   SHORT   "ADD_FILTER_FAIL"
   ATTRIBUTE[pam_exception_debug] "ADD_FILTER_FAIL"
END ITEM

ITEM PAM_RM_FILTER_FAIL
   LONG    ""
   SHORT   "RM_FILTER_FAIL"
   ATTRIBUTE[pam_exception_debug] "REMOVE_FILTER_FAIL"
END ITEM

ITEM PAM_ADD_CLD_POL_FAIL
   LONG    ""
   SHORT   "ADD_CHILD_POL_FAIL"
   ATTRIBUTE[pam_exception_debug] "ADD_CHILD_POL_FAIL"
END ITEM

ITEM PAM_DTH_CLD_POL_FAIL
   LONG    ""
   SHORT   "DETACH_CHILD_POL_FAIL"
   ATTRIBUTE[pam_exception_debug] "DETACH_CHILD_POL_FAIL"
END ITEM
ITEM PAM_RETRV_CHLD_POL_FAIL
   LONG ""
   SHORT "RETRIEVE_CHILD_POL_FAIL"
   ATTRIBUTE[pam_exception_debug] "RETRIEVE_CHILD_POL_FAIL"
END ITEM

ITEM PAM_DEL_PARTIAL
   LONG ""
   SHORT "DELETE_PARTIAL"
   ATTRIBUTE[pam_exception_debug] "DELETE_PARTIAL"
END ITEM

END ENUM

END

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/enum/pam_exception.enum
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------*/
* pam_app_data_db_typedef.h
*
* Aug 2011, c3pl-dev
*
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*-----------------------------------------------*/
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_app_data_db_typedef.h
No license file was found, but licenses were detected in source scan.

/*$Id$
* $Source$
*-----------------------------------------------*/
* pam_hdl.c : pam hdl api implementation
* routines
* Aug 2011, c3pl-dev
*
* Copyright (c) 2011-2012 by cisco Systems, Inc.
* All rights reserved.
*-----------------------------------------------*/
*/
Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_hdl.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
 * pam_target.h : includes for onep pam related
 *      routines
 * June 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_target.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* pam_class_typedef.h
*
* Aug 2011, c3pl-dev
*
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_class_typedef.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *%%%%%%%%%%%%%%%%%%%%%%%%%%%%
 * pam_types.h : includes for onep pam related
 *      routines
 * June 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *%%%%%%%%%%%%%%%%%%%%%%%%%%%%
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_types.h
No license file was found, but licenses were detected in source scan.

/*
 * $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_app_db.c : pam app db api implementation
 *           routines
 * Aug 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_app_db.c

No license file was found, but licenses were detected in source scan.

/*
 * $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_provision.c : pam provision api implementation
 *           routines
 * Aug 2011, c3pl-dev
 *
 * Copyright (c) 2011, 2018 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_provision.c

No license file was found, but licenses were detected in source scan.

#------------------------------------------
# pam_policy.enum -- PAM policy type enumerations
#
# Aug 2011, c3pl-dev
#
# Copyright (c) 2011 by cisco Systems, Inc.
# All rights reserved.
#------------------------------------------

BEGIN PAM_POLICY_ENUM

ENUM pam_policy_type
# String to dump for debug commands.
ATTRIBUTE pam_policy_debug
  TYPE char*
END ATTRIBUTE

ITEM PAM_POLICY_QOS
  LONG ""
  SHORT "QOS"
  ATTRIBUTE[pam_policy_debug] "QOS"
END ITEM

ITEM PAM_POLICY_PSP
  LONG ""
  SHORT "PSP"
  ATTRIBUTE[pam_policy_debug] "PSP"
END ITEM

END ENUM

END

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/enum/pam_policy.enum
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------
 * pam_app_data_db_types.h: Internally used data structures for PAM APP DATA DB
 * *
 * Aug 2011, c3pl-dev
 * *
 * Copyright (c) 2011 by Cisco Systems, Inc.
 * All rights reserved
 *---------------------------------------------*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_app_data_db_types.h
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------
 * pam_hdl.h: Function declarations for manipulating handles
 * *
 * Aug 2011, c3pl-dev
 * *
 * Copyright (c) 2011 by Cisco Systems, Inc.
 * All rights reserved
 *---------------------------------------------*/
Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_hdl.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* pam_app_db.h: Function declarations for manipulating the PAM APP DB
* 
* Aug 2011, c3pl-dev
* 
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_app_db.h
No license file was found, but licenses were detected in source scan.

#------------------------------------------------------------------
# pam_obj.enum -- PAM obj type enumerations
#
# Aug 2011, c3pl-dev
#
# Copyright (c) 2011 by cisco Systems, Inc.
# All rights reserved.
#---------------------------------------------------------------

BEGIN PAM_OBJ_ENUM

ENUM pam_obj_type

    # String to dump for debug commands.
    ATTRIBUTE pam_obj_debug
        TYPE char*

END ATTRIBUTE

    ITEM PAM_OBJ_TYPE_CLASS
        LONG     ""
        SHORT    "CLASS"
        ATTRIBUTE[pam_obj_debug] "CLASS"

    ITEM PAM_OBJ_TYPE_POLICY
        LONG     ""
        SHORT    "POLICY"
        ATTRIBUTE[pam_obj_debug] "POLICY"
Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/enum/pam_obj.enum
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* pam_provision.h: Function declarations used during PAM provisioning
* Aug 2011, c3pl-dev
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_provision.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* pam_obj_typedef.h
* Aug 2011, c3pl-dev
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_obj_typedef.h
No license file was found, but licenses were detected in source scan.

/*/ $Id$
* $Source$
*------------------------------------------------------------------
* pam_action.c : pam action api implementation
* routines
* June 2011, c3pl-dev
* Copyright (c) 2011, 2018 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_action.c
No license file was found, but licenses were detected in source scan.

BEGIN PAM_CLASS_ENUM

ENUM pam_class_type

    # String to dump for debug commands.
    ATTRIBUTE pam_class_debug
        TYPE char*
    END ATTRIBUTE

ITEM PAM_CLASS_QOS
    LONG ""
    SHORT "QOS 
    ATTRIBUTE[pam_class_debug] "QOS"
END ITEM

END ENUM

END

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/enum/pam_class.enum
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
 * pam_hdl_types.h: Pertaining to PAM handles
 * 
 * Aug 2011, c3pl-dev
 * 
 * Copyright (c) 2011-2012 by Cisco Systems, Inc.
 * All rights reserved
 *-----------------------------------------------
 */
/* $Id$
 * $Source$
 *-----------------------------------------------------------------------
 * pam_ppm_shim.c : This file has routines which will be called
 * to intercept the ppm invocation. These routines
 * call the PAM apis which in turn call the PPM apis
 *
 * June 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *-----------------------------------------------------------------------
 */

/* $Id$
 * $Source$
 *-----------------------------------------------------------------------
 * pam_class.c : pam class api implementation
 * routines
 * June 2011, c3pl-dev
 *
 * Copyright (c) 2011, 2014-2015 by cisco Systems, Inc.
 * All rights reserved.
 *-----------------------------------------------------------------------
 */

/* $Id$
 * $Source$
 *-----------------------------------------------------------------------
 * pam_policy.c : pam policy api implementation
 * routines
 * June 2011, c3pl-dev
 *
 * Copyright (c) 2011-2012, 2014-2015, 2018 by cisco Systems, Inc.
 * All rights reserved.
 *-----------------------------------------------------------------------
 */
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

1.2716 sysv-init 2.96-7+deb11u1

1.2716.1 Available under license:

This package was debianized by Akira TAGOH <tagoh@debian.org> on Thu, 7 Mar 2002 01:05:25 +0900.

It was downloaded from <https://download.gnome.org/sources/glib/>.

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Copyright:
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tests/gen-casemap-txt.py
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End

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The actual DOM Java Language Binding classes in xml-commons came from:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3's various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
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The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR
The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
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The project maintains the following source code repositories:

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* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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* /opt/cola/permits/1257282501_1642795726.7/0/netty-codec-http-4-1-45-final-sources-
jar/io/netty/handler/codec/rtsp/RtspDecoder.java
* /opt/cola/permits/1257282501_1642795726.7/0/netty-codec-http-4-1-45-final-sources-
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  jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java
* /opt/cola/permits/1257282501_1642795726.7/0/netty-codec-http-4-1-45-final-sources-
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* /opt/cola/permits/1257282501_1642795726.7/0/netty-codec-http-4-1-45-final-sources-
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  jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
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* /opt/cola/permits/1257282501_1642795726.7/0/netty-codec-http-4-1-45-final-sources-
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  jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java
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* /opt/cola/permits/1257282501_1642795726.70/netty-codec-http-4-1-45-final-sources.jar/io/netty/handler/codec/http/HttpContentDecompressor.java
* /opt/cola/permits/1257282501_1642795726.7/0/netty-codec-http-4-1-45-final-sources-jar/io/netty/handler/codec/http/LastHttpContent.java
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Mesa 3-D graphics library

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*****************************************************************************

----

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include/GL/glxext.h
include/GL/wglxext.h :

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### xwd utility

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<one line to give the program's name and a brief idea of what it does.>
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[This is the first released version of the library GPL.  It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
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preserving your freedom as a user of such programs to change the free
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changes in the actual functions of the Library.) The hope is that this
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"Source code" for a work means the preferred form of the work for
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all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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4.6.105

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    package compute_test

    import ( 

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
// See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ
est.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)
var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get   []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
// // The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
        endpoint:   endpoint,
        httpClient: httpClient,
    }
    return c, nil
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ } }, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes(...)),
}
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
req.GetLicenseCode()

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    buf, err := iouilt.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if settings.Path != "" {
                baseUrl.Path = settings.Path
            }
            if err != nil {
                return err
            }
            httpReq = httpReq.WithContext(ctx)
            httpReq.Header = headers
            httpRsp, err := c.httpClient.Do(httpReq)
            if err != nil {
                return err
            }
            defer httpRsp.Body.Close()
        }, gax.WithContext(ctx), gax.WithCallSettings(settings))
        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
        if err = unm.Unmarshal(buf, resp); err != nil {
            return err
        }
        return resp, nil
    }
```
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)  
if e != nil {
return nil, e  
}
return resp, nil

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

go package compute_test

import {
    "context"
}

compute "cloud.google.com/go/compute/apiv1"
"google.golang.org/api/iterator"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetResponseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
    }
}

func ExampleLicensesClient_SetIamPolicy() {

```go
c := context.Background()
c, err := compute.NewLicensesRESTClient(c)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_SetIamPolicy() {
c := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete []gax.CallOption
    Get []gax.CallOption
    GetIamPolicy []gax.CallOption
}
// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
  Close() error
  setGoogleClientInfo(...string)
  Connection() *grpc.ClientConn
  Delete(ctx context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
  Get(ctx context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
  GetIamPolicy(ctx context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
  Insert(ctx context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
  List(ctx context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
  SetIamPolicy(ctx context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
  TestIamPermissions(ctx context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The Licenses API.
type LicensesClient struct {
  // The internal transport-dependent client.
  internalClient internalLicensesClient

  // The call options for this service.
  CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
  return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
// SetIAMPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIAMPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIAMPolicy(ctx, req, opts...)
}

// TestIAMPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIAMPermissions(ctx context.Context, req *computepb.TestIAMPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIAMPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.

// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{

option.WithHTTPClient(httpClient),
option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the ‘x-goog-api-client’ header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)}
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode() // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
        if resp, err = unm.Unmarshal(buf); err != nil {
            return err
        }
        return nil
    })
    return resp, e
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        if e != nil {
            return nil, e
        }
        return nil
    }, opts...)
    if e != nil {
        return nil, e
    }
    op := &Operation{
        &globalOperationsHandle{
            c: c.operationClient,
            proto: resp,
            project: req.GetProject(),
        },
    }
    return op, nil
}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}
// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
req.GetResource())
params := url.Values{}
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}
baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

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headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unn := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
deferral.err.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unn.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}
return nil, opts...
if e != nil {
return nil, e
}
return resp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...
gax.CallOption) (*computepb.InsertLicenseResponse, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}

params := url.Values{}
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != ""
        baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    e := err
    err = gax.UnmarshalResponse(e, &resp, unm)
    if err != nil {
        return err
    }
    return nil
}).Err()
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, e
}
op := &Operation{
    globalOperationsHandle{
        c: c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
        req := proto.Clone(req).(*computepb.ListLicensesRequest)
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        req.PageToken = proto.String(pageToken)
        req.MaxResults = proto.Uint32(pageSize)
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, err
        }
    }
    return it
}
params := url.Values{ }
if req != nil && req.Filter != nil {
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
}
if req != nil && req.ReturnPartialSuccess != nil {
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
  m := protojson.MarshalOptions{AllowPartial: true}
  body := req.GetGlobalSetPolicyRequestResource()
  jsonReq, err := m.Marshal(body)
  if err != nil {
    return nil, err
  }

  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
    return nil, err
  }


  md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", "resource"))

  return c.RESTClient.AuthorizeRequest(ctx, baseURL, md, jsonReq, opts...)
}
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {


m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
        if err := unm.Unmarshal(buf, resp); err != nil {

return maybeUnknownEnum(err)
}

return nil,
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}
func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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1.2753.1 Available under license:

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1.2754 webex-helper-html 1.80.69
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Found in path(s):
* /opt/cola/permits/1274516568_1645594335.94/0/helper-html-1-80-69-tgz/package/README.md

1.2755 stream-shift 1.0.0
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1.2756 openexr 2.2.0-11+b1

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1.2758 libjpeg-turbo 1.5.1-2

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1.2762 grpc-go 1.23.0

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/GroupConversionDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/CrossParameterDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/spi/package-info.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/package-info.java
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1.2782 configstore 3.1.5

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1.2783 google-cloud-go 0.53.0

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package cloud

import (
    "bytes"
"io/ioutil"
"os"
"path/filepath"
"strings"
"testing"
)

var sentinels = []string{
"Copyright",
"Google",
"Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
    })
}
return nil
}
if err != nil {
t.Fatal(err)
}

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1.2788 python-six 1.10.0-3
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1.2789 ghodss-yaml 0.0.0-20150909031657-73d445a93680
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1.2790 x-time-rate 0.0.0-20220210224613-90d013bbcef8

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1.2792 libgvc6-plugins-gtk 2.38.0-17
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#
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1.2807 wso2-carbon-identity-sso-saml-stub

5.1.3

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1.2816 wso2-carbon-event-statistics-stub
5.1.42

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1.2817 wso2-carbon-event-admin 4.6.49

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1.2826 aggregate-error 1.0.0

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5.12.153
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1.2828 minlog 1.3.0

1.2829 create-error-class 3.0.2

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1.2833 define-property 2.0.2

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1.2834 flocker-go v0.0.0-20160920122132-2b8b7259d313

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1.2835 unbox-primitive 1.0.2

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1.2837 odbcinst1debian2 2.3.6-0.1

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.2846 postgre-sql 14.2-r0

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1.2847 go-flags 1.4.0

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

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Benali, Elias
Beverly, Jamie
Boardman, Spider
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Boyce, Keith Garry
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Bezina, Pavel
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The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

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1.2857 cortexproject-cortex 1.6.1-0.20210204145131-7dac81171c66

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package api

import (  "io/ioutil"  "strings"  "time"
)
type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"`

    // The product the license is valid for
    Product string `json:"product"`

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"`

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"`

    // List of features enabled by the license
    Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    }
    return &reply, nil
}
else {
    return &reply, nil
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    return &reply, nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
if err != nil {
    return nil, err
}
defer resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

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Configurable modular Prometheus exporter for various node metrics.
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import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {

b1, err := json.Marshal(l.LicenseProps)
if err != nil {
    return nil, err
}
b2, err := json.Marshal(l.VendorExtensible)
if err != nil {
    return nil, err
}
return swag.ConcatJSON(b1, b2), nil
}

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 */

package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
"net/http"
"net/url"
"github.com/minio/minio-go/v7/pkg/s3utils"
)
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
XMLNS string
`xml:"xmlns,attr,omitempty"`
XMLName xml.Name
`xml:"LegalHold"`
Status LegalHoldStatus `xml:"Status,omitempty"`
}
// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
VersionID string
Status *LegalHoldStatus
}
// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
VersionID string
}
// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string
const (
// LegalHoldEnabled indicates legal hold is enabled
LegalHoldEnabled LegalHoldStatus = "ON"
// LegalHoldDisabled indicates legal hold is disabled
LegalHoldDisabled LegalHoldStatus = "OFF"
)
func (r LegalHoldStatus) String() string {
return string(r)
}
// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
return r == LegalHoldEnabled || r == LegalHoldDisabled
}
func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
if status == nil {
return nil, fmt.Errorf("Status not set")

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if !status.IsValid() {
    return nil, fmt.Errorf("invalid legal hold status \`%v\`", status)
}

legalHold := &objectLegalHold{
    Status: *status,
}
return legalHold, nil

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }

    reqMetadata := requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentBody:      bytes.NewReader(lhData),
        contentLength:    int64(len(lhData)),
        contentMD5Base64: sumMD5Base64(lhData),
    }
contentSHA256Hex: sum256Hex(lhData),

// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ",")
    if opts.VersionID != "" {
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
return nil, httpRespToErrorResponse(resp, bucketName, objectName)
}
}
lh := &objectLegalHold{
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}
return &lh.Status, nil
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */

- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ..$/$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$((INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \ @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$/$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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1.2860 jackson-dataformat-yaml 2.8.6

1.2860.1 Available under license:

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1.2861 go-autorest-tracing 0.6.0

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1.2862 postgresql-plperl-11 11.11-1.pgdg100+1

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.2899 python-certifi 2018.08.24

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.
1.2900 spew v1.1.1
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1.2901 animal-sniffer-annotation 1.17

1.2902 pax-utils 1.2.6-r1
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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google's data interchange format

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Go support for Protocol Buffers - Google's data interchange format

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profs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.2915 afero 0.0.0-20151013200643-08b1a584251b

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1.2920 base-files 9.9+deb9u11

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* /opt/ws_local/PERMITS_SQL/1009548129_1591379747.05/0/perl-parent-0.237-1.el8.src.rpm-cosi-expand-archive-Q995NCX6/perl-parent.spec
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---
abstract: 'Establish an ISA relationship with base classes at compile time'
author:
  - 'Max Maischein <corion@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: parent
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0.4'
  perl: '5.006'
resources:
  repository: https://github.com/Corion/parent
  version: '0.237'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548129_1591379747.05/0/perl-parent-0.237-1.el8.src.rpm-cosi-expand-archive-Q995NCX6/parent-0.237.tar.gz-cosi-expand-archive-VnAWPUbE/parent-0.237/META.yml
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=encoding utf8
parent - Establish an ISA relationship with base classes at compile time

package Baz;
use parent qw(Foo Bar);

DESCRIPTION

Allows you to both load one or more modules, while setting up inheritance from those modules at the same time. Mostly similar in effect to

```perl
package Baz;
BEGIN {
  require Foo;
  require Bar;
  push @ISA, qw(Foo Bar);
}
```

By default, every base class needs to live in a file of its own. If you want to have a subclass and its parent class in the same file, you can tell `parent` not to load any modules by using the `-norequire` switch:

```perl
package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
use parent -norequire, 'Foo', 'Bar'; # will not go looking for Foo.pm or Bar.pm
```

This is equivalent to the following code:

```perl
package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';
```

This is also helpful for the case where a package lives within a differently named file:

```perl
package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';
```

This is equivalent to the following code:
package MyHash;
require Tie::Hash;
push @ISA, 'Tie::StdHash';

If you want to load a subclass from a file that `require` would
not consider an eligible filename (that is, it does not end in
either `C<.pm>` or `C<.pmc>`), use the following code:

package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';

=head1 HISTORY

This module was forked from `L<base>` to remove the cruft
that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

`L<base>`

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

=head1 MAINTAINER

Max Maischein `C< corion@cpan.org >`

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=cut

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* `/opt/ws_local/PERMITS_SQL/1009548129_1591379747.05/0/perl-parent-0.237-1.el8.src.rpm-cosi-expand-archive-Q995NCX6/parent-0.237.tar.gz-cosi-expand-archive-VnAWPUbE/parent-0.237/lib/parent.pm`
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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M. Welsh, 6 July 1996

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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its purpose remains meaningful.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.2957 pcre 8.39-13

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1.2958 musl 1.1.24-r2

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1.2962 kafka-init 0.27.1

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= Contributing to the documentation

This section shows you how to contribute to the Strimzi documentation and contains important guidelines for creating accessible content.

== Getting started

Before you begin you need to:

Install and set up Git

== Accessibility guidelines

Strimzi aims to make its content accessible. When contributing to the documentation, ensure that your content adheres to the following guidelines:

* Images:
  ** Include a caption
  ** Provide alternative text
  ** Are described in the surrounding text
* Images of text are not used (such as with code fragments)
* Links provide descriptive text about the target (not _click here_)
* Tables:
  ** Include a caption
  ** Contain headings
  ** Provide a logical reading order
  ** Don't contain empty cells
* Color is not used as the only visual means to convey information (not _check the green_)

. Example image caption and description
[source,asciidoc]
----
.Operators within the Strimzi architecture
image:operators.png[Operators within the Strimzi architecture]
----

. Example table headings
[source,asciidoc]
----
File connectors

<table>
<thead>
<tr>
<th>File Connector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FileStreamSourceConnector</td>
<td>Transfers data to your Kafka cluster from a file (the source).</td>
</tr>
</tbody>
</table>

[[contributing]]

== Contributing to the documentation

Once you have your local repository set up and have up to date copies of upstream content you need to follow these steps to contribute to the documentation.

.Procedure
  . Open your terminal
  . `cd` to the directory where your documentation resides
  . Checkout the main branch
  +
    [source]
    ----
    $ git checkout main
    ----
  . Update your local repository and fork with the upstream content
  +
    [source]
    ----
    $ git pull upstream main
    $ git push origin main --force
    ----
  . Create a new branch for your work (using the issue number is helpful)
  +
    [source,options="nowrap",subs="+quotes"]
    ----
    $ git checkout -b <branch-name>
    ----
  . Make your edits in the editor of your choice
  . Save your changes locally
  . Build your documentation to verify that there are no build errors and that everything looks right
  . This can be done with the xref:make-tooling[Make tooling]
  . If you are creating new files, add the files to the repository
  +
    [source,options="nowrap",subs="+quotes"]
    ----
$ git status
$ git add <file-name>

. Commit your changes
+
[source.options="nowrap",subs="+quotes"]

$ git commit -a -s -m "<message>"

Note that the project requires all commits to be signed off, indicating that _you_ certify the changes with the link:https://developercertificate.org/[developer certificate of origin (DCO)].

. Push your changes to your fork
+
[source]

$ git push origin HEAD

. If the update is rejected because the commit is behind, merge your changes
+
[source]

$ git pull upstream main
$ git push -f origin HEAD

. Visit your fork on GitHub
. Click *Compare & pull request*
. If a SME review is needed:
. Add *SME Review Needed* label.
. When SME review is complete, remove *SME Review Completed* label and go to step 16.
. Add *Peer Review Needed* label and assign a Reviewer.
. When peer review has been completed, the reviewer deletes the *Peer Review Needed* label and adds the *Peer Review Done* label.
. When *Peer Review Done* label has been added:
. If no changes are needed, remove *Peer Review Done* label and add *Ready for Merge* label.
. If changes are needed and the changes are minor, make changes to the files, commit, and push, and then remove *Peer Review Done* label and add *Ready for Merge* label.
. If you want an additional review on the updated content, add the *Peer Review Needed* label and ask for another review in a comment.

1.2963 xerces-j 2.8.1

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* /opt/cola/permits/1124983266_1611221501.99/0/xercesimpl-2-8-1-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties

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1.2965 lodash._baseassign 3.2.0

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# lodash v4.6.1

The [lodash](https://lodash.com/) library exported as a [UMD](https://github.com/umdjs/umd) module.

Generated using [lodash-cli](https://www.npmjs.com/package/lodash-cli):
```
$ bash
$ npm run build
$ lodash -o ./dist/lodash.js
$ lodash core -o ./dist/lodash.core.js
```

## Community


## Documentation

* [API Documentation](https://lodash.com/docs)
* [FP Guide](https://github.com/lodash/lodash/wiki/FP-Guide)

## Download

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Review the [build differences](https://github.com/lodash/lodash/wiki/build-differences) & pick one thatâ€™s right for you.
## Why Lodash?

Lodash makes JavaScript easier by taking the hassle out of working with arrays, numbers, objects, strings, etc. Lodash’s modular methods are great for:

* Iterating arrays, objects, & strings
* Manipulating & testing values
* Creating composite functions

## Module Formats

Lodash is available in a [variety of builds](https://lodash.com/custom-builds) & module formats.

* [lodash](https://www.npmjs.com/package/lodash) & [per method packages](https://www.npmjs.com/browse/keyword/lodash-modularized)
* [lodash-amd](https://www.npmjs.com/package/lodash-amd)
* [lodash/fp](https://github.com/lodash/lodash/tree/4.6.1-npm/fp)

## Further Reading

* [Contributing](https://github.com/lodash/lodash/blob/4.6.1/.github/CONTRIBUTING.md)
* [Release Notes](https://github.com/lodash/lodash/releases/tag/4.0.0)
* [Wiki (Changelog, Roadmap, etc.)](https://github.com/lodash/lodash/wiki)

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* /opt/cola/permits/1151574392_1617928421.2/0/fis-components-lodash-baseassign-3-2-0-0-g1f9bcf1-1-tar-gz/fis-components-lodash._baseassign-24a4c70/README.md

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 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
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 */
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 * Set the {code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
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 */

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jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
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compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
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lib/csharp/src/Protocol/TLList.cs
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lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TTYpe.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TTThreadPoolServer.cs
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1.2989 netty-resolver 4.1.49.Final

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jar/io/netty/resolver/HostsFileParser.java
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1.2991 icu 67

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPATIONS=-Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \
| sed "/\n\n/,$*\.o[ :]*/\n\n/ > $@; \n\n[ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \
| sed "/\n\n/,$*\.o[ :]*/\n\n/ > $@; \n\n[ -s $@ ] || rm -f $@"

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $<F> $@
%

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS=-Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'

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creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

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distribute the object code for the work under the terms of Section 6.
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WSO2 Carbon - Aggregate Pom

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apache2      Apache License Version 2.0
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cddl1        Common Development and Distribution License
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epl1+lgpl2   EPL1 + LGPL2
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.3013 operator-common 0.27.1

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[contributing-to-docs]
= Contributing to the documentation

This section shows you how to contribute to the Strimzi documentation and contains important guidelines for
creating accessible content.

Getting started

Before you begin you need to:

- Install and set up Git

Accessibility guidelines

Strimzi aims to make its content accessible.

When contributing to the documentation, ensure that your content adheres to the following guidelines:

- Images:
  - Include a caption
  - Provide alternative text
  - Are described in the surrounding text
  - Images of text are not used (such as with code fragments)
  - Links provide descriptive text about the target (not _click here_)

- Tables:
  - Include a caption
  - Contain headings
  - Provide a logical reading order
  - Don’t contain empty cells
  - Color is not used as the only visual means to convey information (not _check the green text_)

Example image caption and description
[source,asciidoc]

```
Operators within the Strimzi architecture
image:operators.png[Operators within the Strimzi architecture]
```

Example table headings
[source,asciidoc]

```
File connectors
[cols="2*",options="header"]
|==
|File Connector
|Description

|FileStreamSourceConnector
|Transfers data to your Kafka cluster from a file (the source).
|==```
Once you have your local repository set up and have up to date copies of upstream content you need to follow these steps to contribute to the documentation.

1. **Procedure**
   a. Open your terminal
   b. `cd` to the directory where your documentation resides
   c. Checkout the main branch
      ```
      $ git checkout main
      ```
   d. Update your local repository and fork with the upstream content
      ```
      $ git pull upstream main
      $ git push origin main --force
      ```
   e. Create a new branch for your work (using the issue number is helpful)
      ```
      $ git checkout -b <branch-name>
      ```
   f. Make your edits in the editor of your choice
   g. Save your changes locally
   h. Build your documentation to verify that there are no build errors and that everything looks right
   i. This can be done with the `make-tooling` command
   j. If you are creating new files, add the files to the repository
      ```
      $ git status
      $ git add <file-name>
      ```
   k. Commit your changes
      ```
      $ git commit -a -s -m "<message>"
      ```
Note that the project requires all commits to be signed off, indicating that _you_ certify the changes with the link: https://developercertificate.org/[developer certificate of origin (DCO)].

Push your changes to your fork

```
$ git push origin HEAD
```

If the update is rejected because the commit is behind, merge your changes

```
$ git pull upstream main
$ git push -f origin HEAD
```

Visit your fork on GitHub

Click *Compare & pull request*

If a SME review is needed:

1. Add *SME Review Needed* label.
2. When SME review is complete, remove *SME Review Completed* label and go to step 16.
3. Add *Peer Review Needed* label and assign a Reviewer.
4. When peer review has been completed, the reviewer deletes the *Peer Review Needed* label and adds the *Peer Review Done* label.
5. When *Peer Review Done* label has been added:

   - If no changes are needed, remove *Peer Review Done* label and add *Ready for Merge* label.
   - If changes are needed and the changes are minor, make changes to the files, commit, and push, and then remove *Peer Review Done* label and add *Ready for Merge* label.
   - If you want an additional review on the updated content, add the *Peer Review Needed* label and ask for another review in a comment.

---

### 1.3014 jaggeryjs-modules-process 1.5.6

**1.3014.1 Available under license:**

i18n Module - Feature

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1.3015 jbig-kit 2.1-3.1+b2

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Version 2, June 1991

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.3020 pg-int8 1.0.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\n    Module-Build mailing list at <module-build@perl.org>.'
builtrequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';


done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg';

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\d{4,}/i
    or die "Copyright statement not found in perl -v output '$output';

  $year;
}

1.3034 tools-cli 0.2.4
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1.3035 lsb 10.2019051400

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1.3036 @babel/helper-module-imports 7.18.6

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1.3037 release-images-build-go-runner v0.0.0-20200821153340-1c93be24ee8a

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name, omitempty"
    Path *string `json:"path, omitempty"

    SHA *string `json:"sha, omitempty"
    Size *int `json:"size, omitempty"
    URL *string `json:"url, omitempty"
    HTMLURL *string `json:"html_url, omitempty"
    GitURL *string `json:"git_url, omitempty"
    DownloadURL *string `json:"download_url, omitempty"
    Type *string `json:"type, omitempty"
    Content *string `json:"content, omitempty"
    Encoding *string `json:"encoding, omitempty"
    License *License `json:"license, omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key *string `json:"key, omitempty"
    Name *string `json:"name, omitempty"
    URL *string `json:"url, omitempty"

    SPDXID *string `json:"spdx_id, omitempty"
    HTMLURL *string `json:"html_url, omitempty"
    Featured *bool `json:"featured, omitempty"
    Description *string `json:"description, omitempty"
    Implementation *string `json:"implementation, omitempty"
    Permissions []*string `json:"permissions, omitempty"
    Conditions []*string `json:"conditions, omitempty"
}
Limitations    *[]string `json:"limitationsomitempty"
Body       *string `json:"bodyomitempty"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) (*[]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    licenses := make([]License, 0)
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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6.0.53

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A. HISTORY OF THE SOFTWARE
==================================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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javax.servlet.jsp:javax.servlet.jsp-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.3082 kryo 4.0.2

1.3083 wso2-carbon-tenant-mgt-stub 4.6.15

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```python
import io
import re
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = \'(.*?)\'", f.read()).group(1)

setup(
    name="Click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets Team",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=['click'],
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*",
    classifiers=[
```

---

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Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

--------

Install and update using `pip`:

.. code-block:: text

    $ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.
A Simple Example

-----------------

What does it look like? Here is an example of a simple Click program:

.. code-block:: python

    import click

    @click.command()
    @click.option('--count', default=1, help='Number of greetings."
    @click.option('--name', prompt='Your name',
        help='The person to greet."
    def hello(count, name):
        """Simple program that greets NAME for a total of COUNT times.""
        for _ in range(count):
            click.echo('Hello, %s!' % name)

    if __name__ == '__main__':
        hello()

And what it looks like when run:

.. code-block:: text

    $ python hello.py --count=3
    Your name: Click
    Hello, Click!
    Hello, Click!
    Hello, Click!

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------

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Links
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               help="The person to greet.")
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    for _ in range(count):
        click.echo("Hello, %s!" % name)

if __name__ == '__main__':
    hello()
```

And what it looks like when run:

.. code-block:: text

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Hello, Click!
Hello, Click!
```
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  * Test coverage: https://codecov.io/gh/pallets/click

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):
* /opt/cola/permits/1129816269_1612382757.18/0/python-click-7-0-orig-1-tar-gz/Click-7.0/Click.egg-info/PKG-INFO
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# binary only, patch it back to the system, and then use a wrapper

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* /opt/cola/permits/1129816269_1612382757.18/0/python-click-7.0-orig-1-tar-gz/Click-7.0/click/_compat.py

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.. _contrib:

=============

click-contrib

=============

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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1.3086 jetty-util 9.4.20.v20190813

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* org.eclipse.jetty.orbit:javax.security.auth.message
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Version 2.1, February 1999

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### 1.3109 ssl-client 1.31.1-r9

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.3112 wso2-carbon-inbound-endpoint-osgi

4.6.105

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<td>bundle</td>
<td>apache2</td>
</tr>
<tr>
<td>xercesImpl-2.8.1.wso2v2.jar</td>
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<td>apache2</td>
</tr>
<tr>
<td>xml-apis-1.4.01.jar</td>
<td>jar</td>
<td>apache2</td>
</tr>
<tr>
<td>xml-resolver-1.2.jar</td>
<td>jar</td>
<td>apache2</td>
</tr>
<tr>
<td>xmlbeans-2.3.0.jar</td>
<td>jar</td>
<td>apache2</td>
</tr>
<tr>
<td>xmlbeans_2.3.0.wso2v1.jar</td>
<td>bundle</td>
<td>apache2</td>
</tr>
</tbody>
</table>
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* /opt/cola/permits/1000059957_1646171456.75/0/encoder-1-2-1-sources-jar/META-INF/maven/org.owasp.encoder/encoder/pom.xml
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* /opt/cola/permits/1000059957_1646171456.75/0/encoder-1-2-1-sources-jar/org/owasp/encoder/EncodedWriter.java
* /opt/cola/permits/1000059957_1646171456.75/0/encoder-1-2-1-sources-jar/org/owasp/encoder/Encoders.java
* /opt/cola/permits/1000059957_1646171456.75/0/encoder-1-2-1-sources-jar/org/owasp/encoder/JavaScriptEncoder.java
* /opt/cola/permits/1000059957_1646171456.75/0/encoder-1-2-1-sources-jar/org/owasp/encoder/ASCIIBits.java
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* /opt/cola/permits/1000059957_1646171456.75/0/encoder-1-2-1-sources-jar/org/owasp/encoder/URIEncoder.java

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1.3120 semver 5.5.0

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1.3121 jackson-dataformat-csv 2.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1595302282882
Build-Jdk: 1.8.0_162
Built-By: tatu
Bundle-Description: Support for reading and writing CSV-encoded data via Jackson abstractions.
Bundle-DocURL: https://github.com/FasterXML/jackson-dataformat-text
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jackson-dataformat-CSV
Bundle-SymbolicName: com.fasterxml.jackson.dataformat.jackson-dataformat-csv
Bundle-Vendor: FasterXML
Bundle-Version: 2.10.5
Created-By: Apache Maven Bundle Plugin
Export-Package: com.fasterxml.jackson.dataformat.csv;version="2.10.5";uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.core.base,com.fasterxml.jackson.core.format,com.fasterxml.jackson.core.io,com.fasterxml.jackson.core.json,com.fasterxml.jackson.core.type,com.fasterxml.jackson.databind,com.fasterxml.jackson.datatools.text
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1.3135 hardlink 1.3 6.el8

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<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>GL/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>GL/glxext.h</td>
<td>Khronos</td>
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<tr>
<td></td>
<td>GL/wglext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>KHR/khrplatform.h</td>
<td>Khronos</td>
</tr>
</tbody>
</table>

---

**include/GL/g1.h**:

---

Mesa 3-D graphics library

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---
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include/GL/glxext.h
include/GL/wglxext.h

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----
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Chad Walters <chad@powerset.com>
-TJSONProtocol for C++ and Java

Nitay <nitayj@gmail.com>
-Support for "make check"

William Morgan <w@adap.tv>
-Miscellaneous Ruby improvements

Ben Maurer <bmaurer@andrew.cmu.edu>
-Restructuring the way Autoconf is used

Patrick Collison <patrick@collison.ie>
-Smalltalk bindings

Dave Simpson <dave@powerset.com>
-Better support for connection tracking in the C++ server
-Miscellaneous fixes

Igor Afanasyev <afan@evernote.com>
-Perl HttpClient and bugfixes

Todd Berman <tberman@imeem.com>
-MinGW port of the compiler
-C# bindings
-MS build task

-----------------
Release 20070917
-----------------

Dave Engberg <engberg@gmail.com>
-JavaBean/JavaDoc enhancements

Andrew McGeachie <geechorama@gmail.com>
-Cocoa/Objective-C support

Ben Maurer <bmaurer@andrew.cmu.edu>
-Python performance enhancements, fastbinary support

Andrew Lutomirski <andy@luto.us>
-Added optional/required keywords for C++ objects
-Added comparison operators for C++ structs
Johan Oskarsson <johan@oksarsson.nu>
- Java findbugs compliance fixes

Paul Saab <ps@powerset.com>
- IPv6 support for TSocket in C++/Python

Kevin Clark <kevin@powerset.com>
- Significant overhaul of Ruby code generation and servers

Simon Forman <sforman@gmail.com>
- TProcessorFactory abstraction for Java servers

Jake Luciani <jakers@gmail.com>
- Perl code generation, libraries, test code

David Reiss <dreiss@stanford.edu>
- strings.h include fix for bzero
- endianness fixes on TBinaryProtocol double serialization
- improved ntohl, htonl implementation

Dan Li <dto@dev.java.net>
- Java TestServer and Tutorial Fixes

Kevin Ko <kevin.s.ko@gmail.com>
- Fix for unnecessary std::string copy construction in Protocol/Exception

Paul Querna <pquerna@apache.org>
- Autoconf error message fix for libevent detection
- clock_gettime implementation for OSX

----------------
Release 20070401
----------------
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS=-Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
    $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
    $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
    $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
    $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
    @echo "generating dependency information for $<"
    @$SHELL) -ec '$(GEN_DEPS.c) $< \
    | sed \"s/(\*\*\*)\o\[ ]*\$\(\*\)\o\[ ]*$/\$\(\*\)\o\[ ]*$/g\" > $@; \
    [ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
    @echo "generating dependency information for $<"
    @$SHELL) -ec '$(GEN_DEPS.cc) $< \
    | sed \"s/(\*\*\*)\o\[ ]*\$\(\*\)\o\[ ]*$/\$\(\*\)\o\[ ]*$/g\" > $@; \
    [ -s $@ ] || rm -f $@'

## Versioned libraries rules
## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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1.3178 antlr 3.2.0.wso2v1

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*/

/*
  This code generating template and the associated C runtime was produced by:
  * Jim Idle jimi|hereisanat|idle|dotgoeshere|ws.
  * If it causes the destruction of the Universe, it will be pretty cool so long as
  * I am in a different one at the time.
  */

group C implements ANTLRCore ;
cTypeInitMap ::= [
"int"    : "0",              // Integers     start out being 0
"long"   : "0",              // Longs        start out being 0
"float"  : "0.0",           // Floats       start out being 0
"double" : "0.0",           // Doubles      start out being 0
"ANTLR3_BOOLEAN" : "ANTLR3_FALSE",   // Booleans     start out being Antlr C for false
"byte"   : "0",              // Bytes        start out being 0
"short"  : "0",              // Shorts       start out being 0
"char"   : "0",              // Chars        start out being 0
default  : "NULL"            // Anything other than an atomic type (above) is a NULL (probably NULL pointer).
]

leadIn(type) ::= <<
/** 
*  This <type> file was generated by $ANTLR version <ANTLRVersion>
*  
*     -  From the grammar source file : <fileName>
*     -                            On : <generatedTimestamp>
* <if(LEXER)> 
*     -                 for the lexer : <name>Lexer
* <endif>
* <if(PARSER)>
*     -                for the parser : <name>Parser
* <endif>
* <if(TREE_PARSER)>
*     -           for the tree parser : <name>TreeParser
* <endif>
* 
* Editing it, at least manually, is not wise.
* 
* C language generator and runtime by Jim Idle, jim\hereisanat\idle\dotgoeshere\ws.
* 
* 
>>

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/

outputFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
buildAST,
rewriteMode,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
) ::= <<
<leadIn("C source")>
*/
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/* =============================================================================
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action. */
<endif>

/* -----------------------------------------
* Include the ANTLR3 generated header file.
*/
#include    "<name>.h"
<actions.(actionScope).postinclude>
/* ----------------------------------------- */

<docComment>

<if(literals>
/** String literals used by <name> that we must do things like MATCHS() with.
* C will normally just lay down 8 bit characters, and you can use L"xxx" to
* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
* we perform this little trick of defining the literals as arrays of UINT32
* and passing in the address of these.
*/
<literals:{static ANTLR3_UCHAR	lit_<i>[]  = <it>;}; separator="\n">}

<endif>

/* MACROS that hide the C interface implementations from the
* generated code, which makes it a little more understandable to the human eye.
* I am very much against using C pre-processor macros for function calls and bits
* of code as you cannot see what is happening when single stepping in debuggers
* and so on. The exception (in my book at least) is for generated code, where you are
* not maintaining it, but may wish to read and understand it. If you single step it, you know that input()
* hides some indirect calls, but is always referring to the input stream. This is
* probably more readable than ctx->input->istream->input(snarfle0->blarg) and allows me to rejig
* the runtime interfaces without changing the generated code too often, without
* confusing the reader of the generated output, who may not wish to know the gory
* details of the interface inheritance.
* /

#defineCTXctx

/* Aids in accessing scopes for grammar programmers */
#defineSCOPE_TYPE
#undefSCOPE_STACK
#undefSCOPE_TOP
#defineSCOPE_TYPE(scope) \_p<name>_##scope##_SCOPE
#defineSCOPE_STACK(scope) \_p<name>_##scope##Stack
#defineSCOPE_TOP(scope) \_ctx->p<name>_##scope##Top
#defineSCOPE_SIZE(scope) \_ctx->p<name>_##scope##Stack_limit
#defineSCOPE_INSTANCE(scope, i)(\_ctx->SCOPE_STACK(scope)->get(\_ctx->SCOPE_STACK(scope),i))

<if(LEXER)>

/* Macros for accessing things in a lexer */
#defineLEXER
#undefRECOGNIZER
#undefRULEMEMO
#undefGETCHARINDEX
#undefGETLINE
#undefGETCHARPOSITIONINLINE
#undefEMIT
#undefEMITNEW
#undefMATCHC
#undefMATCHS
#undefMATCHRANGE
#undefLTOKEN
#undefHASFAILED
#undefFAILEDFLAG
#undefINPUT
#undefSTRSTREAM
#undefLA
#undefHASEXCEPTION
#undefEXCEPTION
#undefCONSTRUCTEX
#undefCONSUME
#undefLRECOVER
#undefMARK
#undefREWIND
#undefREWINDLAST
#undefBACKTRACKING
#undefMATCHANY
#undefMEMOIZE
#ifdef LEXERctx->pLexer
#define RECOGNIZER LEXER->rec
#define LEXSTATERECOGNIZER->state
#define TOKSOURCELEXSTATE->tokSource
#define GETCHARINDEX() LEXER->getCharIndex(LEXER)
#define GETLINE() LEXER->getLine(LEXER)
#define GETTEXT() LEXER->getText(LEXER)
#define GETCHARPPOSITIONINLINE() LEXER->getCharPositionInLine(LEXER)
#define EMIT() LEXSTATE->type = _type; LEXER->emit(LEXER)
#define EMITNEW(t) LEXER->emitNew(LEXER, t)
#define MATCHC(c) LEXER->matchc(LEXER, c)
#define MATCHS(s) LEXER->matchs(LEXER, s)
#define MATCHRANGE(c1, c2) LEXER->matchRange(LEXER, c1, c2)
#define MATCHANY() LEXER->matchAny(LEXER)
#define LTOKEN LEXSTATE->token
#define HASFAILED() (LEXSTATE->failed == ANTLR3_TRUE)
#define BACKTRACKINGLEXSTATE->backtracking
#define FAILEDFLAGLEXSTATE->failed
#define INPUTLEXER->input
#define STRSTREAMINPUT
#define INDEXX(inputStream, inputStream)
#define SEEK(n) inputStream->seek(inputStream, n)
#define EOF_TOKEN & (LEXSTATE->tokSource->eofToken)
#define HASEXCEPTION() (LEXSTATE->error == ANTLR3_TRUE)
#define EXCEPTION LEXSTATE->exception
#define CONSTRUCTEX(RECOGNIZER->exConstruct(RECOGNIZER)
#define LRECOVER() LEXER->recover(LEXER)
#define MARK() inputStream->mark(inputStream)
#define REWIND(m) inputStream->rewind(inputStream, m)
#define REWINDLAST(inputStream) inputStream->rewindLast(inputStream)
#define MEMOIZE(ri, si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define PUSHSTREAM(str) LEXER->pushCharStream(LEXER, str)
#define POPSTREAM() LEXER->popCharStream(LEXER)
#define SETTEXT(str) LEXSTATE->text = str
#define SKIP() LEXSTATE->token = &(TOKSOURCE->skipToken)
#define USER1 LEXSTATE->user1
#define USER2 LEXSTATE->user2
/* If we have been told we can rely on the standard 8 bit or 16 bit input
* stream, then we can define our macros to use the direct pointers
* in the input object, which is much faster than indirect calls. This
* is really only significant to lexers with a lot of fragment rules (which
* do not place LA(1) in a temporary at the moment) and even then
* only if there is a lot of input (order of say 1M or so).
*/
#ifdef(ANTLR3_INLINE_INPUT_ASCII) || defined(ANTLR3_INLINE_INPUT_UTF16)
#endif

/* 8 bit "ASCII" (actually any 8 bit character set) */

#define NEXTCHAR((pANTLR3_UINT8)(INPUT->nextChar))
#define DATAP((pANTLR3_UINT8)(INPUT->data))

#else
#define NEXTCHAR((pANTLR3_UINT16)(INPUT->nextChar))
#define DATAP((pANTLR3_UINT16)(INPUT->data))

#endif

#define LA(n) ((NEXTCHAR + n) > (DATAP + INPUT->sizeBuf) ? ANTLR3_CHARSTREAM_EOF :
            (ANTLR3_UCHAR)(*(NEXTCHAR + n - 1)))
#define CONSUME()
{   if(NEXTCHAR < (DATAP + INPUT->sizeBuf)){
    INPUT->charPositionInLine++;
    if  ((ANTLR3_UCHAR)(*NEXTCHAR) == INPUT->newlineChar){
      INPUT->line++;
      INPUT->charPositionInLine = 0;
      INPUT->currentLine = (void *)(NEXTCHAR + 1);
    }
  }
}
#else
  // Pick up the input character by calling the input stream implementation.

//
#define CONSUME()INPUT->istream->consume(INPUT->istream)
#define LA(n)INPUT->istream->_LA(INPUT->istream, n)

#endif

<endif>

<if(PARSER)>
/* Macros for accessing things in the parser */
*/

#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSEDRULE
#undef MEMOIZE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREPORTERROR
#undef LA
#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef INDEX
#undef ADAPTOR
#undef SEEK
#undef RULEMEMO
#undef DBG

#define PARSERctx->pParser
#define RECOGNIZERPARSER->rec
#define PSRSTATERECOGNIZER->state
#define HAVEPARSEDRULE(r)RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define MEMOIZE(ri, si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define INPUTPARSER->istream
#define STRSTREAMINPUT
#define INDEX() ISTREAM->index(INPUT->istream)
#define HASEXCEPTION() (PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION PSRSTATE->exception
#define MATCHT(t, fs) RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT() RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)(&(x))), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#define PRECOVER() RECOGNIZER->recover(RECOGNIZER)
#define PREREPORTERROR() RECOGNIZER->reportError(RECOGNIZER)
#define LA(n) INPUT->istream->_LA(ISTREAM, n)
#define LT(n) INPUT->_LT(INPUT, n)
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define PERRORRECOVERY PSRSTATE->errorRecovery
#define FAILEDFLAG PSRSTATE->failed
#define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKINGPSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER, s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER->recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR ctx->adaptor
#define RULEMEMO PSRSTATE->ruleMemo
#define DBGRECOCGNIZER->debugger

<endif>

<if(TREE_PARSER)>
/* Macros for accessing things in the parser */

#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSERRULE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
/* The 4 tokens defined below may well clash with your own #defines or token types. If so * then for the present you must use different names for your defines as these are hard coded * in the code generator. It would be better not to use such names internally, and maybe * we can change this in a forthcoming release. I deliberately do not #undef these * here as this will at least give you a redefined error somewhere if they clash. */
#define UP ANTLR3_TOKEN_UP
#define DOWN ANTLR3_TOKEN_DOWN
#define EOR ANTLR3_TOKEN_EOR
#define INVALID ANTLR3_TOKEN_INVALID

/* ============================================================================= */
/* =============================================================================
* Start of recognizer
*/

<recognizer>

/* End of code
* =============================================================================
*/

>>

headerFileExtension() ::= ".h"

headerFile( LEXER,
PARSER,
TREE_Parser,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
bldAST,
rewriteMode,
profile,
backtracking,
synpeds,
memozize,
umRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
) ::= 
<<
<leadIn("C header")>
<if(PARSER)>
* The parser <mainName()>
<endif>
<if(LEXER)>

---

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* The lexer <mainName()>
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()>
<endif>

has the callable functions (rules) shown below,
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.
*
* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.
*
* The parser entry points are called indirectly (by function pointer to function) via
* a parser context typedef p<name>, which is returned from a call to <name>New().
*
<if(LEXER)>
* As this is a generated lexer, it is unlikely you will call it 'manually'. However
* the methods are provided anyway.
*
<endif>

* The methods in p<name> are as follows:
*
* <rules: {r | <if(!r.ruleDescriptor.isSynPred)> - <headerReturnType(ruleDescriptor=r.ruleDescriptor,...)>p<name>-><r.ruleDescriptor.name>(p<name>)<endif>; separator="n * "}>
*
* The return type for any particular rule is of course determined by the source
* grammar file.
* /

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#ifndef _name_ H
#define _name_ H
#include "antlr3.h"
/* ====================================================================*/
/* Standard antlr3 C runtime definitions */
/* ====================================================================*/
#include ANTLR3.h
/* End of standard antlr 3 runtime definitions */
/* ====================================================================*/
#include _name_.h
/* ====================================================================*/
#ifndef __cplusplus
extern "C" { 
#endif
// Forward declare the context typedef so that we can use it before it is
// properly defined. Delegators and delegates (from import statements) are
// interdependent and their context structures contain pointers to each other
// C only allows such things to be declared if you pre-declare the typedef.
//
typedef struct _name_ Ctx_struct _name_, * p_name;

#include ANTLR3 WINDOWS
#include "antlr3.h"
#ifndef ANTLR3_WINDOWS
// Disable: Unreferenced parameter. - Rules with parameters that are not used

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constant conditional.- ANTLR realizes that a prediction is always true (synpred usually)
initialized but unused variable- tree rewrite variables declared but not needed
Unreferenced local variable- lexer rule declares but does not always use _type
potentially ubitialized variable used- retval always returned from a rule
//unreferenced local function has been removed- usually getTokenNames or freeScope, they can go without warnings
// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.
//
#pragma warning( disable : 4100 )
#pragma warning( disable : 4101 )
#pragma warning( disable : 4127 )
#pragma warning( disable : 4189 )
#pragma warning( disable : 4505 )
#pragma warning( disable : 4701 )
#endif
<if(backtracking)>
/* ========================
* BACKTRACKING IS ENABLED
* ========================
*/
</if(backtracking)>

/** Context tracking structure for <mainName()> */

/*

struct <name>_Ctx_struct

/** Built in ANTLR3 context tracker contains all the generic elements
  * required for context tracking.
  */

<if(PARSER>)
    pANTLR3_PARSER  pParser;
</if(PARSER)>

*/
ANTLR3_API p<name> <name>New (<inputType()> instream<recognizer.grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>);
ANTLR3_API p<name> <name>NewSSD (<inputType()> instream, pANTLR3_RECOGNIZER_SHARED_STATE state<recognizer.grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>);
<if(!recognizer.grammar.grammarIsRoot)>
extern pANTLR3_UINT8 <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];
<endif>

/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
* \{
* * Anlr will define EOF, but we can't use that as it is too common in
* * in C header files and that would be confusing. There is no way to filter this out at the moment
* * so we just undef it here for now. That isn't the value we get back from C recognizers
* * anyway. We are looking for ANTLR3_TOKEN_EOF.
* */
#endif EOF
#undef EOF
#endif Tokens
#undef Tokens
<tokens:{#define <it.name> <it.type>}; separator="n">}
#endif EOF
#undef EOF
#define EOF ANTLR3_TOKEN_EOF
#endif

#ifndef TOKENSOURCE
#define TOKENSOURCE(lxr) lxr->pLexer->rec->state->tokSource
#endif

/* End of token definitions for <name>
* ================================================================================================
*/
#endif __cplusplus

/* END - Note:Keep extra line feed to satisfy UNIX systems */
inputType() ::= <<
  <if(LEXER)>
  pANTLR3_INPUT_STREAM
  <endif>
  <if(PARSER)>
  pANTLR3_COMMON_TOKEN_STREAM
  <endif>
  <if(TREE_PARSER)>
  pANTLR3_COMMON_TREE_NODE_STREAM
  <endif>
>>

grammarType() ::= <<
  <if(PARSER)>
  parser
  <endif>
  <if(LEXER)>
  lexer
  <endif>
  <if(TREE_PARSER)>
  tree parser
  <endif>
>>

mainName() ::= <<
  <if(PARSER)>
  <name>
  <endif>
  <if(LEXER)>
  <name>
  <endif>
  <if(TREE_PARSER)>
  <name>
  <endif>
>>

headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>

headerReturnType(ruleDescriptor) ::= <<
  <if(LEXER)>
  <if(!r.ruleDescriptor.isSynPred)>
  void
  <else>
  <ruleDescriptor:returnType()>
  <endif>
  <else>
// Produce the lexer output
//
lexer( grammar,
name,
tokens,
scopes,
rules,
numRules,
labelType="pANTLR3_COMMON_TOKEN",
filterMode,
superClass) ::= <<

<if(filterMode)>
// Forward declare implementation function for ANTLR3_TOKEN_SOURCE interface when
* this is a filter mode lexer.
*/
static pANTLR3_COMMON_TOKEN <name>NextToken   (pANTLR3_TOKEN_SOURCE toksource);

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
* lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
* than just BACKTRACKING. In some cases this might generate code akin to:
* if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
* However, I assume that the C compilers/optimizers are smart enough to work this one out
* these days - Jim
*/
#undef MEMOIZE
#define MEMOIZE(ri,si) if (BACKTRACKING>1) { RECOGNIZER->memoize(RECOGNIZER, ri, si) }
#undef HAVEPAREDRULE
#define HAVEPAREDRULE(r) if (BACKTRACKING>1) { RECOGNIZER->alreadyParsedRule(RECOGNIZER, r) }
<endif>

/* Forward declare the locally static matching functions we have generated and any predicate functions.
*/
<rules:{r | static ANTLR3_INLINE <headerReturnType(ruleDescriptor=r.ruleDescriptor)>}
<if(!r.ruleDescriptor.isSynPred)>m<endif><r.ruleDescriptor.name>    (p<name>
ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);};
separator="\n";>
static void <name>Free(p<name> ctx);

/* ==============================================================
* Lexer matching rules end.
* ==============================================================
*/
static void Free (pctx) {
    if(memoize) {
        if(RULEMEMO != NULL) {
            RULEMEMO->free(RULEMEMO);
            RULEMEMO = NULL;
        }
    }
    if(grammar.directDelegates) {
        // Free the lexers that we delegated to
        // functions to. NULL the state so we only free it once.
        //
        grammar.directDelegates:
        { gctx-><g:delegateName()>->pLexer->rec->state = NULL;
          ctx-><g:delegateName()>->free(ctx-><g:delegateName()>); };
    }
    LEXER->free(LEXER);
    ANTLR3_FREE(ctx);
}

/** \brief Name of the grammar file that generated this code */
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code. */
static const char * getGrammarFileName()
{
    return fileName;
}

/** \brief Create a new lexer called <name> */
* 
* \param[in] instream Pointer to an initialized input stream
* \return
*   - Success p<name> initialized for the lex start
ANTLR3_API p<name> <name>New
      (<inputType()> instream<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>)
    {
      // See if we can create a new lexer with the standard constructor
      return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g:delegateName()>}>);
    }

/** rief Create a new lexer called <name>
    *
    * \param[in]    instream Pointer to an initialized input stream
    * \param[state] state Previously created shared recognizer stat
    * \return
    *     - Success p<name> initialized for the lex start
    *     - Fail NULL
    */
ANTLR3_API p<name> <name>NewSSD
      (pANTLR3_INPUT_STREAM instream, pANTLR3_RECOGNIZER_SHARED_STATE
       state<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>)
    {
      p<name> ctx; // Context structure we will build and return

      ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

      if  (ctx == NULL)
        {
          // Failed to allocate memory for lexer context
          return  NULL;
        }

    /* -------------------------------------------------------------------
    * Memory for basic structure is allocated, now to fill in
    * in base ANTLR3 structures. We initialize the function pointers
    * for the standard ANTLR3 lexer function set, but upon return
    * from here, the programmer may set the pointers to provide custom
    * implementations of each function.
    *
    * We don't use the macros defined in <name>.h here so you can get a sense
    * of what goes where.
    */

    /* Create a base lexer, using the supplied input stream
    */
    ctx->pLexer = antlr3LexerNewStream(ANTLR3_SIZE_HINT, instream, state);

    /* Check that we allocated the memory correctly
if(ctx->pLexer == NULL)
{
ANTLR3_FREE(ctx);
return NULL;
}

if(memoize)

// Create a LIST for recording rule memos.
//
ctx->pLexer->rec->ruleMemo = antlr3IntTrieNew(15);/* 16 bit depth is enough for 32768 rules! */

/* Install the implementation of our <name> interface */

/** When the nextToken() call is made to this lexer's pANTLR3_TOKEN_SOURCE * it will call mTokens() in this generated code, and will pass it the ctx * pointer of this lexer, not the context of the base lexer, so store that now. */
ctx->pLexer->ctx = ctx;

/**Install the token matching function */
ctx->pLexer->mTokens = (void (*)(void *))mTokens;

cxt->getGrammarFileName = getGrammarFileName;
cxt->free = <name>Free;

<if(grammar.directDelegates)>
// Initialize the lexers that we are going to delegate some // functions to.
//
<grammar.directDelegates:
    {g|x-><g:delegateName()>=<g.recognizerName>NewSSD(instream, ctx->pLexer->rec->state,
cxt<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n"}
<endif>

<if(grammar.delegators)>
// Install the pointers back to lexers that will delegate us to perform certain functions // for them.
//
<grammar.delegators:
    {g|x-><g:delegateName()>=<g:delegateName()>;}; separator="\n"}
<endif>
<if(filterMode)>

We have filter mode turned on, so install the filtering nextToken function

```c
ctx->pLexer->rec->state->tokSource->nextToken = <name>NextToken;
@endif
```

Return the newly built lexer to the caller

```c
return ctx;
@endif
```

DFA tables for the lexer

```c
@cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
@endif
```

End of DFA tables for the lexer

```c
@rules; separator="\n\n"
```

Lexer matching rules end.

```c
@synpreds:{p | <lexerSynpred(predname=p)>>
```

Lexer syntactic predicates end.

```c
@endif
```

End of Lexer code

```c
@endif
```
filteringNextToken() ::= <<
/** An override of the lexer's nextToken() method that backtracks over mTokens() looking
 * for matches in lexer filterMode. No error can be generated upon error; just rewind, consume
 * a token and then try again. BACKTRACKING needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at BACKTRACKING==1.
 */
static pANTLR3_COMMON_TOKEN
<name>NextToken(pANTLR3_TOKEN_SOURCE toksource)
{
    pANTLR3_LEXER   lexer;
pANTLR3_RECOGNIZER_SHARED_STATE state;

    lexer   = (pANTLR3_LEXER)(toksource->super);
    state= lexer->rec->state;

    /* Get rid of any previous token (token factory takes care of
     * any deallocation when this token is finally used up.
     */
    state->token   = NULL;
    state->error   = ANTLR3_FALSE;  /* Start out without an exception*/
    state->failed  = ANTLR3_FALSE;

    /* Record the start of the token in our input stream.
     */
    state->tokenStartCharIndex = lexer->input->istream->index(lexer->input->istream);
    state->tokenStartCharPositionInLine = lexer->input->getCharPositionInLine(lexer->input);
    state->tokenStartLine = lexer->input->getLine(lexer->input);
    state->text         = NULL;

    /* Now call the matching rules and see if we can generate a new token
     */
    for(;;)
    {
        if (lexer->input->istream->_LA(lexer->input->istream, 1) == ANTLR3_CHARSTREAM_EOF)
        {
            /* Reached the end of the stream, nothing more to do.
             */
            pANTLR3_COMMON_TOKEN    teof = &(toksource->eofToken);

            teof->setStartIndex (teof, lexer->getCharIndex(lexer));
            teof->setStopIndex  (teof, lexer->getCharIndex(lexer));
            teof->setLine(teof, lexer->getLine(lexer));
            return  teof;
        }
    }  
>>
state->token= NULL;
state->error= ANTLR3_FALSE; /* Start out without an exception*/
{
ANTLR3_MARKER m;
state->backtracking= 1;/* No exceptions */

m= lexer->input->istream->mark(lexer->input->istream);
state->backtracking= 1;/* No exceptions */
state->failed= ANTLR3_FALSE;

/* Call the generated lexer, see if it can get a new token together. */
lexer->mTokens(lexer->ctx);
state->backtracking= 0;

fuscatedLex::mTokens backtracks with synpred at BACKTRACKING==2
and we set the synpredgate to allow actions at level 1. !>

if(state->failed == ANTLR3_TRUE)
{
lexer->input->istream->rewind(lexer->input->istream, m);
lexer->input->istream->consume(lexer->input->istream); <! advance one char and try again !>
}
else
{
lexer->emit(lexer);/* Assemble the token and emit it to the stream */
return state->token;
}

}>

actionGate() ::= "BACKTRACKING==0"

filteringActionGate() ::= "BACKTRACKING==1"

/** How to generate a parser */
genericParser( grammar,
name,
    scopes,
tokens,
tokenNames,
rules,
numRules,
bitsets,
inputStreamType,
superClass,
ASTLabelType="pANTLR3_BASE_TREE",
labelType,
members,
rewriteElementType, filterMode
 ) ::= <@

@if(grammar.grammarIsRoot)>
/** rief Table of all token names in symbolic order, mainly used for
 *   error reporting.
 */
pANTLR3_UINT8 <name>TokenNames[<length(tokenNames)>+4]
 = {
   (pANTLR3_UINT8) "\<invalid>", /* String to print to indicate an invalid token */
   (pANTLR3_UINT8) "\<EOR>",
   (pANTLR3_UINT8) "\<DOWN>",
   (pANTLR3_UINT8) "\<UP>",
   <tokenNames:{(pANTLR3_UINT8) <it>}; separator="",\n"} 
};
@if(!LEXER)
<# generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. #>
@if(recognizer.grammar.delegatedRules)
// Delegated rules
//
<recognizer.grammar.delegatedRules:{ruleDescriptor|static <headerReturnType(ruleDescriptor)> <ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope)>, <endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";>
@end
static void <name>Free(p<name> ctx);
@if(!LEXER)
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
@if(recognizer.grammar.delegatedRules)
// For use in tree output where we are accumulating rule labels via label += ruleRef
* we need a function that knows how to free a return scope when the list is destroyed.
* We cannot just use ANTLR3_FREE because in debug tracking mode, this is a macro.
*/
static void ANTLR3_CDECL freeScope(void * scope)
{
    ANTLR3_FREE(scope);
}

/** rief Name of the grammar file that generated this code 
 */
static const char fileName[] = "<fileName>";

/** rief Return the name of the grammar file that generated this code.
 */
static const char * getGrammarFileName()
{
    return fileName;
}

/** rief Create a new <name> parser and return a context for it.
 *
 * \param[in] instream Pointer to an input stream interface.
 *
 * \return Pointer to new parser context upon success.
 */
ANTLR3_API p<name>
<name>New   (<inputStreamType> instream<grammar.delegators:{g|, p<g.recognizerName>
<g:delegateName()>}>)
{
    // See if we can create a new parser with the standard constructor
    //
    return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g:delegateName()>}>);
}

/** rief Create a new <name> parser and return a context for it.
 *
 * \param[in] instream Pointer to an input stream interface.
 *
 * \return Pointer to new parser context upon success.
 */
ANTLR3_API p<name>
<name>NewSSD   (<inputStreamType> instream, pANTLR3_RECOGNIZER_SHARED_STATE
state<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>)
{
    p<name> ctx;  /* Context structure we will build and return */

    ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

    if(ctx == NULL)
// Failed to allocate memory for parser context
//
// return NULL;

/* -----------------------------------------------
   * Memory for basic structure is allocated, now to fill in
   * the base ANTLR3 structures. We initialize the function pointers
   * for the standard ANTLR3 parser function set, but upon return
   * from here, the programmer may set the pointers to provide custom
   * implementations of each function.
   *
   * We don't use the macros defined in <name>.h here, in order that you can get a sense
   * of what goes where.
   */

<if(PARSER>)
    /* Create a base parser/recognizer, using the supplied token stream */
    ctx->pParser = antlr3ParserNewStream(ANTLR3_SIZE_HINT, instream->tstream, state);
<endif>

<if(TREE_PARSER>)
    /* Create a base Tree parser/recognizer, using the supplied tree node stream */
    ctx->pTreeParser = antlr3TreeParserNewStream(ANTLR3_SIZE_HINT, instream, state);
<endif>

    /* Install the implementation of our <name> interface */
    <rules: {r | ctx-><r.ruleDescriptor.name> = <r.ruleDescriptor.name>;}; separator="\n";
    <if(grammar.delegatedRules>)
        // Install the delegated methods so that they appear to be a part of this
        // parser
        //
        <grammar.delegatedRules: {ruleDescriptor | ctx-><ruleDescriptor.name> = <ruleDescriptor.name>;}; separator="\n";
    <endif>

ctx->free = <name>Free;
ctx->getGrammarFileName = getGrammarFileName;

    /* Install the scope pushing methods. */
    <rules: {r | if(r.ruleDescriptor.ruleScope)}
    <ruleAttributeScope(scope=r.ruleDescriptor.ruleScope)<<\n>
    <endif> }>
    <recognizer.scopes: { if(it.isDynamicGlobalScope)
// Initialize the parsers that we are going to delegate some
// functions to.

// Initialize the parsers that we are going to delegate some
// functions to.

// Install the pointers back to parsers that will delegate us to perform certain functions
// for them.

// Install the pointers back to parsers that will delegate us to perform certain functions
// for them.

/* Create a LIST for recording rule memos. */
RULEMEMO = antlr3IntTrieNew(16); /* 16 bit depth is enough for 32768 rules! */

/* Install the token table */
PSRSTATE->tokenNames = <grammar.composite.rootGrammar.recognizerName>TokenNames;

/* Return the newly built parser to the caller */
return ctx;
}

/* Free the parser resources */
static void Free(p{name} ctx)
{
/* Free any scope memory */

""
Free the parsers that we delegated to
functions to. NULL the state so we only free it once.

// Free this parser

/* Everything is released, so we can return */
return;
}

/** Return token names used by this <grammarType>()
*
* The returned pointer is used as an index into the token names table (using the token
* number as the index).
*
* \return Pointer to first char * in the table.
*/
static pANTLR3_UINT8 *getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}
/* Declare the bitsets */
<bits:bitsetDeclare(name={FOLLOW_<it.name> in_<it.inName> <it.tokenIndex>},
    words64=it.bits)>

<if(cyclicDFAs)>

/* DFA tables for the parser */
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* End of DFA tables for the parser */
<endif>

/* Parsing rules */
<grammar.delegatedRules>
// Delegated methods that appear to be a part of this
// parser
//
<grammar.delegatedRules:uleDescriptor>
    <returnType>() <ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope.attributes)>,
        <ruleDescriptor.parameterScope:parameterScope(scope=it)>)
        {<if(ruleDescriptor.hasReturnValue)>return <endif>ctx-><ruleDescriptor.grammar:delegateName()>
        <ruleDescriptor.name>(ctx-
        <ruleDescriptor.grammar:delegateName()><if(ruleDescriptor.parameterScope.attributes),
        <ruleDescriptor.parameterScope:parameterScope.attributes:{a|<a.name>}; separator=", "});
    }<if(ruleDescriptor.parameterScope.attributes)>
    <ruleDescriptor.parameterScope:parameterScope.attributes:<a|a.name>}; separator=", "});
    }

<endif>
/* End of parsing rules */
*  
*    */

/* Syntactic predicates */
<synpreds:{p | <synpred(predname=p)>}>
/* End of syntactic predicates */
*  
*    */
/** How to generate a tree parser; same as parser except the input stream is a different type. */

treeParser(grammar,
name,
scopes,
tokens,
tokenNames,
globalAction,
rules,
numRules,
bitsets,
ASTLabelType,
superClass="TreeParser",
labelType="pANTLR3_BASE_TREE",
members={<actions.treeparser.members>}, filterMode
) ::= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TREE_NODE_STREAM", rewriteElementType="NODE", ...)>>
>>

/** A simpler version of a rule template that is specific to the imaginary rules created for syntactic predicates. As they never have return values */
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
  // $ANTLR start <ruleName>
  static void <ruleName>._fragment(p<name> ctx <ruleDescriptor.parameterScope:parameterScope(scope=it)>)
  {
    <ruleLabelDefs()>
    <ruleLabelInitializations()>
    <if(trace)>
      ANTLR3_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
      <block>
      ANTLR3_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
    <else>
    <block>
    <endif>
    <ruleCleanUp()>
  }
  // $ANTLR end <ruleName>
>>

synpred(predname) ::= <<
  static ANTLR3_BOOLEAN <predname>(p<name> ctx)
  {
    ANTLR3_MARKER start;
    ANTLR3_BOOLEAN success;

    BACKTRACKING++;  
    <@start()>   
    start= MARK();
    <predname>._fragment(ctx); // can never throw exception
    success= !(FAILEDFLAG);
    REWIND(start);
    <@stop()>    
    BACKTRACKING--;  
    FAILEDFLAG= ANTLR3_FALSE;
    return success;
  }
>>

lexerSynpred(predname) ::= <<
  <synpred(predname)>
>>
ruleMemoization(rname) ::= <<
  <if(memoize)>
  if ( (BACKTRACKING>0) && (HAVEPARSERULE(<ruleDescriptor.index>)) )
  {
    <if(ruleDescriptor.hasMultipleReturnValues)>
    <if(!ruleDescriptor.isSynPred)>
    retval.start = 0;
    <endif>
    <endif>
    <finalCode(finalBlock=finally)>
    <if(!ruleDescriptor.isSynPred)>
    <scopeClean()>
    <endif>
    return <ruleReturnValue()>
    <endif>
  <endif>
  </(ruleDescriptor.actions.after):execAfter()>
  <finalCode(finalBlock=finally)>
  <if(!ruleDescriptor.isSynPred)>
  <scopeClean()>
  <endif>
  return <ruleReturnValue()>
  }
  <endif>
  >>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
  if (HASEXCEPTION())
  {
    goto rule<ruleDescriptor.name>Ex;
  }
  <if(backtracking)>
  if (HASFAILED())
  {
    <scopeClean()>
    return <ruleReturnValue()>
  }
  <endif>
  >>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  if (BACKTRACKING>0)
  {
    FAILEDFLAG = <true()>
    <scopeClean()>
    return <ruleReturnValue()>
  }
  <endif>
  >>

/** How to generate code for a rule. This includes any return type * data aggregates required for multiple return values. */
 rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::=<<
/**
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
static <returnType()>
<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
  <if(trace)>ANTLR3_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", LT(1),
  BACKTRACKING);<endif>
  <ruleDeclarations()>
  <ruleDescriptor.actions.declarations>
  <ruleLabelDefs()>
  <ruleInitializations()> 
  <ruleDescriptor.actions.init>
  <ruleMemoization(rname=ruleName)>
  <ruleLabelInitializations()>
  <@preamble()>
  {
    <block>
  }
  <ruleCleanUp()>
  <if(exceptions)>
    if(HASEXCEPTION())
    {
      <exceptions:{e|<catch(decl=e.decl,action=e.action)><
      >}}
    } else
    {
      <ruleDescriptor.actions.after):execAfter()>
    }
  <else>
    <if(emptyRule)>
      <if(actions.(actionScope).rulecatch)>
        <actions.(actionScope).rulecatch>
      <else>
        if (HASEXCEPTION())
        {
          PREPORTERROR();
          PRECOVER();
          <setErrorReturnValue();>
        }</if>
      <if(ruleDescriptor.actions.after)>
      </else>
  <if(exceptions)>
  <if(exceptions)>
  <@preamble()>
  {
    <block>

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ruleInitializations() ::= <<
/* Initialize rule variables */

<if(memoize)>
<ruleDescriptor.name>_StartIndex = INDEX();<\n>
<endif>
<ruleDescriptor.useScopes:{<scopeTop(sname=it)> = <scopePush(sname=it)>;}; separator="\n">
<ruleDescriptor.ruleScope:{<scopeTop(sname=it.name)> = <scopePush(sname=it.name)>;}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
 :{<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{pANTLR3_VECTOR list_<it.label.text>;}; separator="\n"
>
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
 :ruleLabelDef(label=it); separator="\n"
>
>>

ruleLabelInitializations() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
 :{<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{list_<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
 :ruleLabelInitVal(label=it); separator="\n"
>
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
retval.start = LT(1); retval.stop = retval.start;<\n>
<endif>
<endif>
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
 :{<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.charLabels:{ANTLR3_UINT32 <it.label.text>;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
 :{pANTLR3_INT_TRIE list_<it.label.text>;}; separator="\n"
>
>>

lexerRuleLabelInit() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
 :{<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
 :{list_<it.label.text> = antlr3IntTrieNew(31);}; separator="\n"
>
>>

lexerRuleLabelFree() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
 :{<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
 :{list_<it.label.text>->free(list_<it.label.text>);}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( BACKTRACKING>0 ) { MEMOIZE(<ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
ruleCleanUp() ::= <<

// This is where rules clean up and exit
//
go to rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<
>
<endif>
<endif>
<endif>
>>

scopeClean() ::= <<

<ruleDescriptor.useScopes:{<scopePop(sname=it)>}; separator="\n">
<ruleDescriptor.ruleScope:{<scopePop(sname=it.name)>}; separator="\n">

>>

/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules, which do not produce tokens.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<

//   Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
* $ANTLR start <ruleName>
* 
* Looks to match the characters the constitute the token <ruleName>
* from the attached input stream.
* 
* \remark
* - lexer->error == ANTLR3_TRUE if an exception was thrown.
*/
static ANTLR3_INLINE
void m<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
ANTLR3_UINT32	_type;
<ruleDeclarations()>
<ruleDescriptor.actions.declarations>
<lexerRuleLabelDefs()>

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<if(trace)>System.out.println("enter <ruleName> "+(char)LA(1)+"
line="+GETLINE()+"."+GETCHARPOSITIONINLINE()+" failed="+failed+
backtracking="+BACKTRACKING);
<endif>

<if(nakedBlock)>
  <ruleMemoization(rname=ruleName)>
  <lexerRuleLabelInit()>
  <ruleDescriptor.actions.init>

  <block>
  LEXSTATE->type = _type;
  <endif>
  <if(trace)> ANTLR3_FPRINTF(stderr, "exit <ruleName> 'c' line=%d:%d failed = %d, backtracking
  =%d\n",LA(1),GETLINE(),GETCHARPOSITIONINLINE(),failed,BACKTRACKING);
  <endif>
  <ruleCleanUp()>
  <lexerRuleLabelFree()>
  <(ruleDescriptor.actions.after):execAfter()>
  <memoize>
  }
  // $ANTLR end <ruleName>
  >>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that
 * wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
 */
static void mTokens(p<name> ctx)
{
  <block>
  
  goto ruleTokensEx; /* Prevent compiler warnings */
  ruleTokensEx: ;
  }
  >>

// S U B R U L E S
/** A (...) subrule with multiple alternatives */

`block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>::<description>
{
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    <@prebranch()>
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    }
    <@postbranch()>
}
>>

/** A rule block with multiple alternatives */

`ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>::<description>
{
   ANTLR3_UINT32 alt<decisionNumber>;
    alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    }
}
>>

`ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

// <fileName>::<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>
/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
   // <fileName>:<description>
   <decls>
   #@prealt()
   <alts>
   #@postalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
   // <fileName>:<description>
   {
      int cnt<decisionNumber>=0;
      <decls>
      #@preloop()
      for (;;)
      {
         int alt<decisionNumber>=<maxAlt>;
      }
      <@predecision()>
      <decision>
      <@postdecision()>
      switch (alt<decisionNumber>)
      {
         <alts:altSwitchCase()>
         default:
         
         if ( cnt<decisionNumber> >= 1 )
         {
            goto loop<decisionNumber>;
         }
      }
   }
   <ruleBacktrackFailure()>
   <earlyExitEx()>
   <@earlyExitException()>
   goto rule<ruleDescriptor.name>Ex;
   }
   cnt<decisionNumber>++;
   }
   loop<decisionNumber>:
   /* Jump to here if this rule does not match */
   #@postloop()>
>>

earlyExitEx() ::= <<
   /* mismatchedSetEx() */
   */
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_EARLY_EXIT_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_EARLY_EXIT_NAME;
</u>
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(als,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>

/*@preloop()*/
for (;;)
{
    int alt<decisionNumber>=<maxAlt>;
   /*@predecision()*/
    <decision>
   /*@postdecision()*/
    switch (alt<decisionNumber>)
    {
    <als:altSwitchCase()>
    default:
        goto loop<decisionNumber>;/* break out of the loop */
        break;
    }
}
loop<decisionNumber>: ; /* Jump out to here if this rule does not match */
/*@postloop()*/
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation */
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
case <i>: 
/** An alternative is just a list of elements; at outermost level */
alt(elements, altNum, description, autoAST, outerAlt, treeLevel, rew) ::= <<
// <fileName>:<description>
{
    @@declarations()
    @@initializations()
    elements:element()
    rew
    @@cleanup()
}
>>

// ELEMENTS
/** What to emit when there is no rewrite. For auto build */
* mode, does nothing.
*/
norewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */
element() ::= <<
  @@prematch()
  <it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token, label, elementIndex, hetero) ::= <<
  <if(label)><label> = (<labelType>)<endif> MATCHT(<token>, &FOLLOW_<token>_in_<ruleName><elementIndex>);
  <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token, label, elementIndex, hetero) ::= <<
  <tokenRef(....)>
  <listLabel(elem=label,...)>
>>

listLabel(label, elem) ::= <<
if (list_<label> == NULL)
{
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>-&gt;add(list_<label>, <elem>, NULL);
/** match a character */
charRef(char,label) ::= <<
<label> = LA(1);<n>
<endif>
MATCHC(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<label> = LA(1);<n>
<endif>
MATCHRANGE(<a>, <b>);
<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<label>= LA(1);<n>
<if>(LEXER)
<label>=(<labelType>)LT(1);<n>
<endif>
if ( s )
{
    CONSUME();
    <postmatchCode>
    <if>(LEXER)
        PERRORRECOVERY=ANTLR3_FALSE;
    <endif>
    <if>(backtracking)FAILEDFLAG=ANTLR3_FALSE;<n><endif>
}
else
{
    <ruleBacktrackFailure()>
    <mismatchedSetEx()> <@mismatchedSetException()>
    <if>(LEXER)
        LRECOVER();
    <else>
        RECOVERFROMMISMATCHEDSET(&FOLLOW_set_in_<ruleName><elementIndex>);
mismatchedSetEx() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_MISMATCHED_SET_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_MISMATCHED_SET_NAME;
<if(PARSER>)
EXCEPTION->expectingSet = &FOLLOW_set_in_<ruleName><elementIndex>;
<endif>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(>...>)
<labelLabel(elem=label,...>)
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
<label>Start = GETCHARINDEX();
MATCHS(<string>);
<checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, <label>Start);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT->tnstream->istream;
<else>
MATCHS(<string>);
<checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<\n>
<endif>
MATCHANYT();
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(>...>)}
** Match . wildcard in lexer */

wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = LA(1);<\n>
  <endif>
  MATCHANY();
  <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...)>>
  <listLabel(elem=label,...)>>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */

ruleRef(rule, label, elementIndex, args, scope) ::= <<
  FOLLOWPUSH(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
  <if(label)>label=<endif><if(scope)>ctx-><scope:delegateName()>-<endif><rule.name>(ctx<if(scope)>-
  <scope:delegateName()><if(args)>, <args; separator=", "><endif>;)<endif>;</\n>
  FOLLOWPOP();
  <checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRef(...)>>
  <listLabel(elem=label,...)>>
>>

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */

lexerRuleRef(rule, label, args, elementIndex, scope) ::= <<
/* <description> */
<if(label)>
{
 ANTLR3_MARKER <label>Start<elementIndex> = GETCHARINDEX();
 <if(scope)>ctx-><scope:delegateName()>-<endif>m<rule.name>(ctx<if(scope)>-
  <scope:delegateName()><if(args)>, <args; separator=", "><endif>;)<endif>;</\n>
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
"lexerRuleRef(...)"
"listLabel(elem=label,...)"
>>

/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <<
@if(label)
{ ANTLR3_UINT32 <label>Start<elementIndex>; 
<labelType> <label>; 
<label>Start<elementIndex> = GETCHARINDEX(); 
MATCHC(ANTLR3_CHARSTREAM_EOF); 
<checkRuleBacktrackFailure>(); 
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory); 
<label>->setType(<label>, ANTLR3_TOKEN_EOF); 
<label>->setStartIndex(<label>, <label>Start<elementIndex>); 
<label>->setStopIndex(<label>, GETCHARINDEX()-1); 
<label>->input = INPUT->tnstream->istream; 
} 
@if(nullableChildList)
if ( LA(1)==ANTLR3_TOKEN_DOWN ) {

"root:element()"
"actionsAfterRoot:element()"
"if(nullableChildList)"
if ( LA(1) == ANTLR3_TOKEN_DOWN ) {

```c
MATCHT(ANTLR3_TOKEN_DOWN, NULL);
<checkRuleBacktrackFailure()>
<children:element()>
MATCHT(ANTLR3_TOKEN_UP, NULL);
<checkRuleBacktrackFailure()>
}
<else>
MATCHT(ANTLR3_TOKEN_DOWN, NULL);
<checkRuleBacktrackFailure()>
<children:element()>
MATCHT(ANTLR3_TOKEN_UP, NULL);
<checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
*  also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>)
{
<ruleBacktrackFailure()>
newFPE(...)>
}
>>

newFPE() ::= <<
    CONSTRUCTEX();
    EXCEPTION->type = ANTLR3_FAILED_PREDICATE_EXCEPTION;
    EXCEPTION->message = (void *)"<description>";
    EXCEPTION->ruleName = (void *)"<ruleName>";
    <\n>
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = LA(<k>);
    <edges; separator="\nelse ">
    else
    {
    <if(eotPredictsAlt)>
        alt<decisionNumber>==<eotPredictsAlt>
    <else>
        <ruleBacktrackFailure()>
```
<newNVException()>
  goto rule<ruleDescriptor.name>Ex;

@endif
}
}

newNVException() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message = (void *)"<description>";
EXCEPTION->decisionNum = <decisionNumber>;
EXCEPTION->state = <stateNumber>;
<@noViableAltException()>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
  int LA<decisionNumber>_<stateNumber> = LA(<k>);
  <edges; separator="\nelse ">
}

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackStateDecls()::= <<
ANTLR3_UINT32   LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
  /* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) */
  int LA<decisionNumber>_<stateNumber> = LA(<k>);
  <edges; separator="\nelse ">
  <if(eotPredictsAlt)>
  <if(!edges)>

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alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
 else
 { alt<decisionNumber>=<eotPredictsAlt>; }
 <un>
 <endif>
<endif>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>)
{
 <targetState>
}
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k>) )
{
<edges; separator="\n">

default:
 <if(eotPredictsAlt)>
 alt<decisionNumber>=<eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 <newNVException()>
 goto rule<ruleDescriptor.name>Ex;<un>
<endif>
}
 <un>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k>) )
{
{  
  <edges; separator="\n">  
  } \n
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( LA(<k>) )
{
  <edges; separator="\n">\n
  <if(eotPredictsAlt)>
    default:
      alt<decisionNumber>=<eotPredictsAlt>;
      break;\n    <endif>
  }\n
} \n
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n">
{
  <targetState>
  }  
  break;
} >>

// Cyclic DFA

/**< The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber, description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM, &cdfa<decisionNumber>);
<checkRuleBacktrackFailure()> >>

/**< Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits)
* which are then used to statically initialize the dfa structure, which means that there
* is no runtime initialization whatsoever, other than anything the C compiler might
* need to generate. In general the C compiler will lay out memory such that there is no
* runtime code required.
*/
cyclicDFA(dfa) ::= <<
/**< Static dfa state tables for Cyclic dfa:
* <dfa.description>
*/
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
{
<dfa.eof; wrap="\n", separator=" ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
{
<dfa.min; wrap="\n", separator=" ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
{
<dfa.max; wrap="\n", separator=" ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
{
<dfa.accept; wrap="\n", separator=" ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] =
{
<dfa.special; wrap="\n", separator=" ", null="-1">
};

/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty	NULL
<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_T[i0][] =
{
<table; separator=" ", wrap="\n", null="-1">
}; }; null = "">
/* Transition tables are a table of sub tables, with some tables
* reused for efficiency.
*/
static const ANTLR3_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
{
<dfa.transitionEdgeTables:{ xref[dfa<dfa.decisionNumber>_T<xref> ]; separator=" ", wrap="\n", null="_empty">
};
<if(dfa.specialStateSTs)>
static ANTLR3_INT32 dfa<dfa.decisionNumber>_sst(p<name> ctx, pANTLR3_BASE_RECOGNIZER recognizer, pANTLR3_INT_STREAM is, pANTLR3_CYCLIC_DFA dfa, ANTLR3_INT32 s)
{
ANTLR3_INT32 _s;
_s = s;

switch (s)
{
<dfa.specialStateSTs: {state |
    case <i0>:

<state> ]; separator="\n">

@if(backtracking)
    if (BACKTRACKING > 0)
    {
        FAILEDFLAG = ANTLR3_TRUE;
        return -1;
    }
@endif

CONSTRUCTEX();
EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message = (void *)"<dfa.description>";
EXCEPTION->decisionNum = <dfa.decisionNumber>;
EXCEPTION->state = _s;
@@noViableAltException()
    return -1;
}
@endif

//@errorMethod()
dfa<dfa.decisionNumber>_special; /* Special transition states */
dfa<dfa.decisionNumber>_transitions; /* Table of transition tables */

}; /* End of Cyclic DFA <dfa.decisionNumber>
* --------------------- */

/** A state in a cyclic DFA; it's a special state and part of a big switch on
*  state.
*/
cyclicDFASate(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;<
ANTLR3_MARKER index<decisionNumber>_<stateNumber>;<
LA<decisionNumber>_<stateNumber> = LA(1);<
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
INDEX();<
REWINDLAST();<
<endif>
s = -1;
<edges; separator="\nelse">
<if(semPredState)> <! return input cursor to state before we rewound !>
SEEK(index<decisionNumber>_<stateNumber>);<
<endif>
if ( s>=0 )
{
return s;
}
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
*  state to jump to next if successful.
*/
cyclicDFAEge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>)
{
s = <targetStateNumber>;
}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
*  always jump to the target.
*/
// DFA EXPRESSIONS

andPredicates(left, right) ::= "((<left>) && (<right>))"

orPredicates(operands) ::= "((<first(operands)>)<rest(operands):{o | ||(<o>)})""

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred, description) ::= "(<pred>)"
evalSynPredicate(pred, description) ::= "<pred>(ctx)"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>" /* Sometimes a lookahead test cannot assume that LA(k) is in a temp variable * somewhere. Must ask for the lookahead directly. */

isolatedLookaheadTest(atom, k, atomAsInt) ::= "LA(<k>) == <atom>"

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "((LA<decisionNumber>_<stateNumber> \>= <lower>) && (LA<decisionNumber>_<stateNumber> \<= <upper>))"

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "((LA(<k>) \>= <lower>) && (LA(<k>) \<= <upper>))"

setTest(ranges) ::= "<ranges; separator=" || ">

// ATTRIBUTES

makeScopeSet() ::= "" /* makeScopeSet() */

/** Definition of the <scope.name> scope variable tracking * structure. An instance of this structure is created by calling * <name>_<scope.name>Push(). */
typedef struct <scopeStruct(sname=scope.name,...)>_struct {

/** Function that the user may provide to be called when the * scope is destroyed (so you can free pANTLR3_HASH_TABLES and so on) */
* \param P0inter to an instance of this typedef/struct
void (ANTLR3_CDECL *free)(struct <scopeStruct(sname=scope.name,...)> _struct * frame);

/* Programming defined variables... */
<scope.attributes:{<it.decl>;}; separator="\n">*
/* End of programmer defined variables */
*/

<scopeStruct(sname=scope.name,...), * <scopeType(sname=scope.name,...)>;

>>

globalAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope) */
<makeScopeSet(...)>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope) */
<makeScopeSet(...)>
<endif>
>>

globalAttributeScopeFuncDecl(scope) ::= <<
/* globalAttributeScopeFuncDecl(scope) */
<if(scope.attributes)>
/* Function declaration for creating a <name>_<scope.name> scope set */
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* */
<endif>
>>

globalAttributeScopeFuncMacro(scope) ::= <<
void <scopePopName(sname=scope.name,...)>(p<name> ctx) {
    // First see if the user defined a function they want to be called when a
    // scope is popped/freed.
    //
    // If the user supplied the scope entries with a free function, then call it first
    //
    if (SCOPE_TOP(<scope.name>)->free != NULL) {
        SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
    }
    // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
    // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
    // next too far so we don't want to keep freeing and allocating them
    //
    ctx-><scopeStack(sname=scope.name,...)>._limit--;
    SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>-
    \>get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>._limit - 1));
}

ruleAttributeScopeFuncDecl(scope) ::= <<
    /* ruleAttributeScopeFuncDecl(scope) */
    /*--------------------------------------------------------------------------*/
    static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
    static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
    /*-------------------------------------------------------------------------- */

    <endif>

ruleAttributeScopeFuncMacro(scope) ::= <<
    /* ruleAttributeScopeFuncMacro(scope) */
    /*-------------------------------------------------------------------------- */
    /* Function for popping the top value from a <scopeStack(sname=scope.name,...)> */

    <endif>

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void <scopePopName(sname=scope.name,...)>(p<name> ctx)
{
    // First see if the user defined a function they want to be called when a
    // scope is popped/freed.
    //
    // If the user supplied the scope entries with a free function, then call it first
    //
    if(SCOPE_TOP(<scope.name>)->free != NULL)
    {
        SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
    }
    // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
    // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
    // next too far so we don't want to keep freeing and allocating them
    //
    ctx-><scopeStack(sname=scope.name,...)>._limit--;
    SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name,...)>)(ctx-><scopeStack(sname=scope.name,...)>-
    \get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>._limit - 1));
}

//
>>

globalAttributeScopeDef(scope) ::= <<
    /* globalAttributeScopeDef(scope)
    */
    <if(scope.attributes)
    /** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>()
     * and <scopePopName(sname=scope.name,...)>()
     */
    pANTLR3_STACK <scopeStack(sname=scope.name)>;
    ANTLR3_UINT32 <scopeStack(sname=scope.name)>._limit;
    /** Pointer to the top of the stack for the global scope <scopeStack(sname=scope.name)> */
    <scopeType(sname=scope.name,...)>(<scopeType(sname=scope.name,...)>)(struct <name>_Ctx_struct *
    ctx);
    <scopeType(sname=scope.name,...)>(*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
    ctx);
    <scopeType(sname=scope.name,...)>(*<scopePopName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
    ctx);
    <scopeTopDecl(sname=scope.name,...)>

    <endif>
>>

ruleAttributeScopeDef(scope) ::= <<
    /* ruleAttributeScopeDef(scope)
    */
    <if(scope.attributes)
    /* ruleAttributeScopeDef(scope)"}
pANTLR3_STACK <scopeStack(sname=scope.name,...)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name,...)>_limit;
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct * ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

/* Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>() and <scopePopName(sname=scope.name,...)>() */
globalAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncs(scope) */
<attributeFuncs(scope)>
<endif>
>>

ruleAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncs(scope) */
<attributeFuncs(scope)>
<endif>
>>

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope) */
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScope(scope) */
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<<scopeTop(sname=scope.name,...)>> = NULL;
<endif>
>>
globalAttributeScopeFree(scope) ::= <<
    <if(scope.attributes)>
    /* globalAttributeScope(scope) */
    ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
    <endif>
>>

ruleAttributeScopeFree(scope) ::= <<
    <if(scope.attributes)>
    /* ruleAttributeScope(scope) */
    ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
    <endif>
>>

scopeTopDecl(sname) ::= <<
p<name>_<sname>Top
>>

scopeTop(sname) ::= <<
ctx-><scopeTopDecl(sname=sname,...)>
>>

scopePop(sname) ::= <<
    <scopePopName(sname=sname,...)>(ctx);
>>

scopePush(sname) ::= <<
p<name>_<sname>Push(ctx)
>>

scopePopName(sname) ::= <<
p<name>_<sname>Pop
>>

scopePushName(sname) ::= <<
p<name>_<sname>Push
>>

scopeType(sname) ::= <<
p<name>_<sname>_SCOPE
>>
scopeStruct(sname) ::= <<
  <name>_<sname>_SCOPE
>>

scopeStack(sname) ::= <<
p<name>_<sname>Stack
>>

attributeFuncs(scope) ::= <<
  <if(scope.attributes)>
  /* attributeFuncs(scope) */
  */
  static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope) {
    ANTLR3_FREE(scope);
  }

  /** \brief Allocate initial memory for a <name> <scope.name> scope variable stack entry and
   *     add it to the top of the stack.
   *
   * \remark
   * By default the structure is freed with ANTLR_FREE(), but you can use the
   * the \@init action to install a pointer to a custom free() routine by
   * adding the code:
   * \code
   *   <scopeTop(sname=scope.name)>->free = myroutine;
   * \endcode
   *
   * With lots of comments of course! The routine should be declared in
   * \@members { } as:
   * \code
   *   void ANTLR3_CDECL myfunc( <scopeType(sname=scope.name)> ptr).
   * \endcode
   *
   * It should perform any custom freeing stuff that you need (call ANTLR_FREE3, not free())
   * NB: It should not free the pointer it is given, which is the scope stack entry itself
   * and will be freed by the function that calls your custom free routine.
   *
   */
  static <scopeType(sname=scope.name)>
  <scopePushName(sname=scope.name)>(p<name> ctx) {
    /* Pointer used to create a new set of attributes
    */
    <scopeType(sname=scope.name)> newAttributes;

    /* Allocate the memory for a new structure if we need one.
/*
if (ctx-><scopeStack(sname=scope.name)>->size(ctx-><scopeStack(sname=scope.name)>)->ctx-><scopeStack(sname=scope.name)>-_limit)
{
    // The current limit value was less than the number of scopes available on the stack so
    // we can just reuse one. Our limit tracks the stack count, so the index of the entry we want
    // is one less than that, or conveniently, the current value of limit.
    //
    newAttributes = (<scopeType(sname=scope.name)>)ctx-><scopeStack(sname=scope.name)>->get(ctx-><scopeStack(sname=scope.name)>, ctx-><scopeStack(sname=scope.name)>-_limit);
}
else
{
    // Need a new allocation
    //
    newAttributes = (<scopeType(sname=scope.name)>)ANTLR3_MALLOC(sizeof(<scopeStruct(sname=scope.name)>));
    if  (newAttributes != NULL)
    {
        /* Standard ANTLR3 library implementation
        */
        ctx-><scopeStack(sname=scope.name)>->push(ctx-><scopeStack(sname=scope.name)>, newAttributes, (void (*)(void *))<scope.name>Free);
    }
}

// Blank out any previous free pointer, the user might or might install a new one.
//
newAttributes->free = NULL;

// Indicate the position in the available stack that the current level is at
//
ctx-><scopeStack(sname=scope.name)>-_limit++;

/* Return value is the pointer to the new entry, which may be used locally
* without de-referencing via the context.
*/
return newAttributes;
}

<endif>
>
returnStructName() ::= "<it.name>_return"

returnType() ::= <<
@if(!ruleDescriptor.isSynPred)
@if(ruleDescriptor.hasMultipleReturnValues)
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
</if>
</if>
<!--
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-->
/** Generate the C type associated with a single or multiple return
 * value(s).
 */
ruleLabelType(referencedRule) ::= <<
@if(referencedRule.hasMultipleReturnValues)
<referencedRule.grammar.recognizerName>_<referencedRule.name>_return
@else
<referencedRule.hasSingleReturnValue>
<referencedRule.singleValueReturnName>
@else
void
@endif
@endif
>>

delegateName() ::= <<
@if(it.label)><it.label><else>g<it.name><endif>
>>
/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "0".
*/
initValue(typeName) ::= <<
<cTypeInitMap.(typeName)>
>>
/** Define a rule label */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>;
#undef RETURN_TYPE_<label.label.text>
#define RETURN_TYPE_<label.label.text> <ruleLabelType(referencedRule=label.referencedRule)>
@n>
>>
/** Rule label default value */
ruleLabelInitVal(label) ::= <<
@if(label.referencedRule.hasSingleReturnValue)
<label.label.text> = <initValue(label.referencedRule.singleValueReturnName)>;
@else
void
@endif
@endif
>>
ASTLabelType() ::= "<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>pANTLR3_BASE_TREE<endif>" 

/** Define a return struct for a rule if the code needs to access its 
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for 
 * subgroups to stick in members. */ 

returnScope() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
typedef struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>_struct 
{
<if(!TREE_PARSER)>
/** Generic return elements for ANTLR3 rules that are not in tree parsers or returning trees */

pANTLR3_COMMON_TOKEN    start;
pANTLR3_COMMON_TOKEN    stop;
<else>
<recognizer.ASTLabelType>       start;
<recognizer.ASTLabelType>       stop;
<endif>
}@ruleReturnMembers();

<ruleDescriptor.returnScope.attributes:{<it.decl>}; separator="\n">}

<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>;

@endif>
<endif>
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator="", ">

@endif>
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>;" 

/** Note that the scopeAttributeRef does not have access to the 
 * grammar name directly */

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>))->get( ctx->SCOPE_STACK(<scope>), ctx->SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>))) - <negIndex> - 1 ))-&gt;attr.name

<else>
<if(index)>

@endif>
@endif>
scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <<
  (if(negIndex)
    ((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>))->get(ctx->SCOPE_STACK(<scope>), ctx->SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - negIndex - 1)))-><attr.name> = <expr>;
  else
    (if(index)
      ((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>), (ANTLR3_UINT32)<index> ))))-><attr.name> = <expr>;
    else
      (SCOPE_TOP(<scope>))-><attr.name> = <expr>;
    endif)
  endif>
>>

isolatedDynamicScopeRef(scope) ::= "ctx->SCOPE_STACK(<scope>)"

returnAttributeRef(ruleDescriptor, attr) ::= <<
  (if(ruleDescriptor.hasMultipleReturnValues)
    retval.<attr.name>
  else
    <attr.name>
  endif>
>>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
  (if(ruleDescriptor.hasMultipleReturnValues)
    retval.<attr.name> =<expr>;
  else
    <attr.name> =<expr>;
  endif>
>>
/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID [$ids] or e+=expr [$e] */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>-getText(<scope>))"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>-getType(<scope>))"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>-getLine(<scope>))"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>-getCharPositionInLine(<scope>))"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>-getChannel(<scope>))"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>-getTokenIndex(<scope>))"
tokenLabelPropertyRef_tree(scope,attr) ::= "(<scope>-tree)"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>-getText(<scope>)->toInt32(<scope>-getText(<scope>)))"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= ""<if(TREE_PARSER)>
(STRSTREAM->toStringSS(STRSTREAM, <scope>.start, <scope>.start))
<else>
(STRSTREAM->toStringTT(STRSTREAM, <scope>.start, <scope>.stop))
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>-getType(<scope>))"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>-getLine(<scope>))"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>-getCharPositionInLine(<scope>))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>-getChannel(<scope>))"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>-getTokenIndex(<scope>))"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>-getText(<scope>))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "<<
  <if(TREE_PARSER)>
  INPUT->toStringSS(INPUT, ADAPTOR->getTokenStartIndex(ADAPTOR, retval.start), ADAPTOR->getTokenStopIndex(ADAPTOR, retval.start))
  <else>
  STRSTREAM->toStringTT(STRSTREAM, retval.start, LT(-1))
  <endif>
>>"

rulePropertyRef_st(scope,attr) ::= "retval.st"
lexerRulePropertyRef_text(scope,attr) ::= "LEXER->getText(LEXER)"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "LEXSTATE->tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "LEXSTATE->tokenStartCharPositionInLine"
lexerRulePropertyRef_channel(scope,attr) ::= "LEXSTATE->channel"
lexerRulePropertyRef_start(scope,attr) ::= "LEXSTATE->tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(LEXER->getCharIndex(LEXER)-1)"
lexerRulePropertyRef_int(scope,attr) ::= "LEXER->getText(LEXER)->toInt32(LEXER->getText(LEXER))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= " retval.st=<expr>;"

/** How to deal with an @after for C targets. Because we cannot rely on
 * any garbage collection, after code is executed even in backtracking
 * mode. Must be documented clearly.
 */
execAfter(action) ::= "<<
  {
    <action>
  }
>>"

/** How to execute an action (when not backtracking) */
execAction(action) ::= "<<
  <if(backtracking)>
  <if(actions.(actionScope).synpredgate)>
  if ( <actions.(actionScope).synpredgate> )
  {
    <action>
  }
  <else>
  if ( BACKTRACKING == 0 )
  {
    <action>
  }
>>"
bitset(name, words64) ::= <<
  antlr3BitsetSetAPI(&<name>);<\n
 codeFileExtension() ::= ".c"

 true() ::= "ANTLR3_TRUE"
 false() ::= "ANTLR3_FALSE"

Found in path(s):
  * /opt/cola/permits/1125728034_1615664205.55/0/antlr-3.2.0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2.0-sources/org/antlr/codegen/templates/C/C.stg

No license file was found, but licenses were detected in source scan.

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*/

/** in sync with Java/Java.stg revision 107 */

group Python implements ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
    docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::=<<

    # $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

    #@imports#
    import sys
    from antlr3 import *
    #@end#

    # for convenience in actions
    HIDDEN = BaseRecognizer.HIDDEN

    # token types
<recognizer>

<if(actions.(actionScope).main)>
<actions.(actionScope).main>
<else>
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
<if(LEXER)>
    from antlr3.main import LexerMain
    main = LexerMain('<recognizer.name>')</n>
<endif>
<if(PARSER)>
    from antlr3.main import ParserMain
    main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)
<endif>
<if(TREE_PARSER)>
    from antlr3.main import WalkerMain
    main = WalkerMain(<recognizer.name>)
<endif>
main.stdin = stdin
main.stdout = stdout
main.stderr = stderr
main.execute(argv)
<endif>

<actions.(actionScope).footer>

if __name__ == '__main__':
    main(sys.argv)

>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode, superClass="Lexer") ::= <<
<grammar.directDelegates:{g|from <g.recognizerName> import <g.recognizerName>}; separator="\n">

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>}
    grammarFileName = "<fileName>"
    antlr_version = version_str_to_tuple("<ANTLRVersion>")
    antlr_version_str = "<ANTLRVersion>"
    def __init__(self<grammar.delegators:{g|, <g:delegateName()>}>, input=None, state=None):
        if state is None:
            state = RecognizerSharedState()
super(<grammar.recognizerName>, self).__init__(input, state)

<if(memoize)>
<if(grammar.grammarIsRoot)>
    self._state.ruleMemo = {}
</if>
</if>

<grammar.directDelegates:
    {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>self, input, state)}; separator="\n"
<grammar.delegators:
    {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n"
<last(grammar.delegators):
    {g|self.gParent = <g:delegateName()>}; separator="\n"

<cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">
</cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<actions.lexer.init>

<actions.lexer.members>

<if(filterMode)>
    <filteringNextToken()>
</if>

<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>}>}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 *  for matches. No error can be generated upon error; just rewind, consume
 *  a token and then try again. backtracking needs to be set as well.
 *  Make rule memoization happen only at levels above 1 as we start mTokens
 *  at backtracking==1.
 */
filteringNextToken() ::= <<
def nextToken(self):
    while True:
        if self.input.LA(1) == EOF:
            return EOF_TOKEN
self._state.token = None
self._state.channel = DEFAULT_CHANNEL
self._state.tokenStartCharIndex = self.input.index()
self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
self._state.tokenStartLine = self.input.line
self._state._text = None
try:
    m = self.input.mark()
    try:
        # means we won't throw slow exception
        self._state.backtracking = 1
    finally:
        self._state.backtracking = 0
except BacktrackingFailed:
    # mTokens backtracks with synpred at backtracking==2
    # and we set the synpredgate to allow actions at level 1.
    self.input.rewind(m)
    self.input.consume()  # advance one char and try again
else:
    self.emit()
    return self._state.token
except RecognitionException, re:
    # shouldn't happen in backtracking mode, but...
    self.reportError(re)
    self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        <@superClassName><superClass>@end>.memoize(self, input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return <@superClassName><superClass>@end>.alreadyParsedRule(self, input, ruleIndex)
    return False

>>> actionGate() ::= "self._state.backtracking == 0"
filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */

genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
   bitsets, inputStreamType, superClass, filterMode,
   ASTLabelType="Object", labelType, members, rewriteElementType,
   init) ::= <<
<if(grammar.grammarIsRoot)>
# token names
tokenNames = [
   '\"invalid\", '\"\EOR\", '\"\DOWN\", '\"\UP\",
   <tokenNames; wrap, separator=", ">
]
</
>
<}>
<else>
from <grammar.composite.rootGrammar.recognizerName> import tokenNames
<}>
<endif>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif>}>)
<grammar.directDelegates:
{g|from <g.recognizerName> import <g.recognizerName>}; separator="\n"}>
<rules:{<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>}>]

class <grammar.recognizerName>({@superClassName}<superClass>{@end>):
   grammarFileName = "<fileName>"
   antlr_version = version_str_to_tuple("<ANTLRVersion>"
   antlr_version_str = "<ANTLRVersion>"
   tokenNames = tokenNames

   def __init__(<grammar.delegators:{g|, <g:delegateName()>}>), input, state=None, *args, **kwargs):
      if state is None:
         state = RecognizerSharedState()

         <@args()>}
         super(<grammar.recognizerName>, self).__init__(input, state, *args, **kwargs)

<if(memoize)>
<if(grammar.grammarIsRoot)>
   self._state.ruleMemo = {}
<}>
<endif>
<endif>
<}>
<cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">]
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif>}>)
<rules:{<ruleAttributeScopeStack(scope=it.ruleDescriptor.ruleScope)>}>]
superClass="Parser", labelType="Token", members={ <actions.parser.members> }) ::= <<
genericParser(inputStreamType="TokenStream", rewriteElementType="Token", init={ <actions.parser.init> }, ...)>
>>

/** How to generate a tree parser; same as parser except the input
*  stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={ <ASTLabelType> }, ASTLabelType="Object", superClass="TreeParser",
members={ <actions.treeparser.members> }, filterMode) ::= <<
genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node",
init={ <actions.treeparser.init> }, ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
*  nor parameters etc.... just give simplest possible method. Don't do
*  any of the normal memoization stuff in here either; it's a waste.
*  As predicates cannot be inlined into the invoking rule, they need to
*  be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
# $ANTLR start "<ruleName>

    def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
    <if(trace)>
        self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
    try:
        <block>
    finally:
        self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)
    <else>
        <block>
    <endif>

# $ANTLR end "<ruleName>"

<>
<block>
<endif>

# $ANTLR end "<ruleName>"


>>
synpred(name) ::= <<
def <name>(self):
    self._state.backtracking += 1
    #@start()
    start = self.input.mark()
    try:
        self.<name>_fragment()
except BacktrackingFailed:
    success = False
else:
    success = True
self.input.rewind(start)
<!--stop()-->
self._state.backtracking -= 1
return success

>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)>
if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
    # for cached failed rules, alreadyParsedRule will raise an exception
    success = True
    return <ruleReturnValue()>
@endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>
if self._state.backtracking > 0:
    raise BacktrackingFailed
@endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<returnScope(scope=ruleDescriptor.returnScope)>
# $ANTLR start "<ruleName>"
# <fileName>:<description>
<ruleDescriptor.actions.decorate>
def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
    <if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)
    <endif>
finally:
    if(trace):
        self.traceOut("<ruleName>", <ruleDescriptor.index>)
    
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
    pass

>>

catch(<e.action>) ::= <<
    <e.action>

>>

ruleDeclarations() ::= <<
    if(ruleDescriptor.hasMultipleReturnValues)
        retval = self.<ruleDescriptor.name>_return()
        retval.start = self.input.LT(1)
    else:
        <ruleDescriptor.returnScope.attributes:{ a |
            <a.name> = <if(a.initValue)<a.initValue><else>None<endif>
        }
    <ruleDescriptor._StartIndex = self.input.index()>
    <ruleScopeSetUp()>

>>

ruleScopeSetUp() ::= <<
    if(memoize())
        <ruleDescriptor.name>_StartIndex = self.input.index()
    <ruleDescriptor.useScopes:{self.<it>_stack.append(<it>_scope())}; separator="\n">
    <ruleDescriptor.ruleScope:{self.<it.name>_stack.append(<it.name>_scope())}; separator="\n">

>>

ruleScopeCleanUp() ::= <<
    <ruleDescriptor.useScopes:{self.<it>_stack.pop()}; separator="\n">
    <ruleDescriptor.ruleScope:{self.<it.name>_stack.pop()}; separator="\n">

>>

ruleLabelDefs() ::= <<
    {<it.label.text> = None}; separator="\n">
    {[<it.label.text> = None]; separator="\n"}

>>
lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {list_<it.label.text> = None}; separator="\n"
>
<ruleDescriptor.ruleListLabels: {<it.label.text> = None}; separator="\n">
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = self.input.LT(-1)<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if self._state.backtracking > 0:
    self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex, success)
<endif>
<endif>
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start "<ruleName>"
def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
    <if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)
    <endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <if(memoize)>
        <if(backtracking)>
            success = False
        <endif>
        try:
            <if(nakedBlock)>
                <ruleMemoization(name=ruleName)>
                <lexerRuleLabelDefs()>
                <ruleDescriptor.actions.init>
                <block>
            <else>
                _type = <ruleName>
                _channel = DEFAULT_CHANNEL
                <ruleMemoization(name=ruleName)>
                <lexerRuleLabelDefs()>
                <ruleDescriptor.actions.init>
                <block>
                <ruleCleanUp()>
                self._state.type = _type
                self._state.channel = _channel
                <(ruleDescriptor.actions.after):execAction()>
            <endif>
        <if(memoize)>
            <if(backtracking)>
                success = True
            <endif>
        <endif>
    <endif>
    <finally:>
        <if(trace)>
            self.traceOut("<ruleName>", <ruleDescriptor.index>)
        <endif>
/** How to generate code for the implicitly-defined lexer grammar rule *
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
    <block>

>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>:<description>
    alt<decisionNumber> = <maxAlt>
    <decls>
    <@body><blockBody()><@end>
>>

blockBody() ::= <<
    <@predecision()>
    <@decision><decision><@end>
    <@postdecision()>
    <@prebranch()>
    <alts:altSwitchCase(); separator="\nel"> 
    <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>:<description>
    alt<decisionNumber> = <maxAlt>
    <decls>
    <@predecision()>
    <@decision><decision><@end>
    <@postdecision()>
    <alts:altSwitchCase(); separator="\nel">
>>
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
cnt<decisionNumber> = 0
<decls>
<@preloop()>
<@loopBody>
<positiveClosureBlockLoop()>
<@end>
<@postloop()>
>>

positiveClosureBlockLoop() ::= <<
while True: #loop<decisionNumber>
alt<decisionNumber> = <maxAlt>
<@predecision()>
<@decisionBody><decision><@end>
<@postdecision()>
<alts:altSwitchCase(); separator="\n"el> else:
if cnt<decisionNumber> >= 1:
    break #loop<decisionNumber>

<ruleBacktrackFailure()>
eee = EarlyExitException(<decisionNumber>, self.input)
<@earlyExitException()>
raise eee

cnt<decisionNumber> += 1
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
<decls>
@@preloop()
@@loopBody
<closureBlockLoop()>
@@end
@@postloop()>>
closureBlockLoop() ::= <<
while True: #loop<decisionNumber>
alt<decisionNumber> = <maxAlt>
@@predecision() @@decisionBody<decision><@end
@@postdecision()<alts:altSwitchCase(); separator="nel">
else:
    break #loop<decisionNumber>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number.  A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
if alt<decisionNumber> == <i>:
    @@prealt() @@it>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
pass # so empty alternatives are a valid block
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el>
\n
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=<endif>self.match(self.input, <token>, self.FOLLOW_<token>_in_<ruleName><elementIndex>)

>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)> 
<listLabel(elem=label,...)>

>>

listLabel(label, elem) ::= <<
if list_<label> is None:
    list_<label> = []
list_<label>.append(<elem>)\n
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)\n<endif>
self.match(<char>)

>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> = self.input.LA(1)<
  <endif>
  self.matchRange(<a>, <b>)
>>
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
  <if(label)>
  <label> = self.input.LT(1)<
  <endif>
  if <s>:
    self.input.consume()
    <postmatchCode>
    <if(!LEXER)>
      self._state.errorRecovery = False<
    <endif>
  else:
    <ruleBacktrackFailure()>
    mse = MismatchedSetException(None, self.input)
    <@mismatchedSetException()>
    <if(LEXER)>
      self.recover(mse)
      raise mse
    <else>
      raise mse
      <! use following code to make it recover inline; remove throw mse;>
      self.recoverFromMismatchedSet(
        self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
      )
      <!>
    <endif>
  <un>
>>
matchRuleBlockSet ::= matchSet
matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(elem=label,...)>
>>
/** Match a string literal */
lexerStringRef(string,label) ::= <<
  <if(label)>
  <label>Start = self.getCharIndex()
self.match(<string>)
<label> = CommonToken(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
start=<label>Start, stop=self.getCharIndex()-1)
<else>
self.match(<string>)
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = self.input.LT(1)<
<endif>
self.matchAny(self.input)
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)> <listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = self.input.LA(1)<
<endif>
self.matchAny()
>>

wildcardCharListLabel(label,elementIndex) ::= <<
<wildcardChar(...)> <listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>) <if(label)><label> = <endif>self.<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=",
">)<\n>
self._state.following.pop()
>>

/** ids+=rule */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
if (nullableChildList)
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
<else>
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
<endif>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if not (<evalPredicate(...)>):
    <ruleBacktrackFailure()>
    raise FailedPredicateException(self.input, "<ruleName>", "<description>")
>>

// F i x e d  D F A  (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="|e1">
else:
    <if(eotPredictsAlt)>
        alt<decisionNumber> = <eotPredictsAlt>
    <else>
        <ruleBacktrackFailure()>
        nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)
        <@noViableAltException()>
        raise nvae
    <endif>
<endif>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="|e1">


/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for (a)* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="nel">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
else:
alt<decisionNumber> = <eotPredictsAlt>
</alt>
</endif>
</endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)</if>: 
<targetState>
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FIXME: this is one of the few occasion, where I miss a switch statement
in Python. ATM this is implemented as a list of if .. elif ..
This may be replaced by faster a dictionary lookup, when I find a solution
for the cases when an edge is not a plain dfaAcceptState.
!
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="nel">
else:
<if(eotPredictsAlt)>
   alt<decisionNumber> = <eotPredictsAlt>
<else>
   <ruleBacktrackFailure()>
   nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)</n>
   @@noViableAltException()>
   raise nvae<un>
<endif>

>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\nel">
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\nel">
<if(eotPredictsAlt)>
else:
   alt<decisionNumber> = <eotPredictsAlt>
<endif>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
if <labels:{LA<decisionNumber> == <it>}; separator=" or ">:
   <targetState>
>>

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used 
* in the rule to predict an alt just like the fixed DFA case. 
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values. 
* Can't use hex as compiler translates them before compilation. 
* These strings are split into multiple, concatenated strings. 
* Java puts them back together at compile time thankfully. 
* Java cannot handle large static arrays, so we're stuck with this 
* encode/decode approach. See analysis and runtime DFA for 
* the encoding methods. */
cyclicDFA(dfa) ::= <<

# lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>_eot = DFA.unpack,
    u"<dfa.javaCompressedEOT; wrap="\\n    u">"
)

DFA<dfa.decisionNumber>_eof = DFA.unpack,
    u"<dfa.javaCompressedEOF; wrap="\\n    u">"
)

DFA<dfa.decisionNumber>_min = DFA.unpack,
    u"<dfa.javaCompressedMin; wrap="\\n    u">"
)

DFA<dfa.decisionNumber>_max = DFA.unpack,
    u"<dfa.javaCompressedMax; wrap="\\n    u">"
)

DFA<dfa.decisionNumber>_accept = DFA.unpack,
    u"<dfa.javaCompressedAccept; wrap="\\n    u">"
)

DFA<dfa.decisionNumber>_special = DFA.unpack,
    u"<dfa.javaCompressedSpecial; wrap="\\n    u">"
)

DFA<dfa.decisionNumber>_transition = [
    <dfa.javaCompressedTransition: {s|DFA.unpack(u"<s; wrap="\\nu\">"}); separator="\\n"}>
]

# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
    pass

    #@errorMethod()>

@if(dfa.specialStateSTs)>
    def specialStateTransition(self_, s, input):
        # convince pylint that my self_ magic is ok ;)
        # pylint: disable-msg=E0213
        # pretend we are a member of the recognizer
        # thus semantic predicates can be evaluated
        self = self_.recognizer
_s = s

<dfa.specialStateSTs:{state | if s == <i0>: <! compressed special state numbers 0..n-1 !> <state> }; separator="\n"}

<if(backtracking)>
    if self._state.backtracking > 0:
        raise BacktrackingFailed
<endif>

nvae = NoViableAltException(self._getDescription(), <dfa.decisionNumber>, _s, input)
    self._error(nvae)
    raise nvae
<endif>

>>
cyclicDFAInit(dfa) ::= <<
    self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
        self, <dfa.decisionNumber>,
        eot = self.DFA<dfa.decisionNumber>._eot,
        eof = self.DFA<dfa.decisionNumber>._eof,
        min = self.DFA<dfa.decisionNumber>._min,
        max = self.DFA<dfa.decisionNumber>._max,
        accept = self.DFA<dfa.decisionNumber>._accept,
        special = self.DFA<dfa.decisionNumber>._special,
        transition = self.DFA<dfa.decisionNumber>._transition
    )
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on * state. */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
    LA<decisionNumber>_<stateNumber> = input.LA(1)
    <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
        index<decisionNumber>_<stateNumber> = input.index()
        input.rewind()
    <endif>
    s = -1
    <edges; separator="\n">
    <if(semPredState)> <! return input cursor to state before we rewound !>
        input.seek(index<decisionNumber>_<stateNumber>)
    <endif>
    if s >= 0:
        return s
>>
/** Just like a fixed DFA edge, test the lookahead and indicate what * state to jump to next if successful. */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
  if (<labelExpr>)<if(predicates)> and (<predicates>)<endif>:
    s = <targetStateNumber> <<
  >>

/** An edge pointing at end-of-token; essentially matches any char; * always jump to the target. */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
  se:
  s = <targetStateNumber> <<
  >>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "((<first(operands)><rest(operands):{o |  or <o> }>)"

notPredicate(pred) ::= "not (<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "self.<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable * somewhere. Must ask for the lookahead directly. */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "self.input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
  (<lower> \<= LA<decisionNumber>_<stateNumber> \<= <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(<lower> \<= self.input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=" or ">

// ATTRIBUTES
globalAttributeScopeClass(scope) ::= <<
<if(scope.attributes)>
class "<scope.name>_scope"(object):
  def __init__(self):
    <scope.attributes:{self.<it.decl> = None}; separator="\n">
</endif>
>>

globalAttributeScopeStack(scope) ::= <<
<if(scope.attributes)>
self."<scope.name>_stack" = [ ]
</endif>
>>

ruleAttributeScopeClass(scope) ::= <<
<if(scope.attributes)>
class "<scope.name>_scope"(object):
  def __init__(self):
    <scope.attributes:{self.<it.decl> = None}; separator="\n">
</endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope.attributes)>
self."<scope.name>_stack" = [ ]
</endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None
</endif>
>>

returnStructName() ::= "<it.name>_return"

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
class "<ruleDescriptor:returnStructName()>(<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
</if>
>>
def __init__(self):
    super(<grammar.recognizerName>.<ruleDescriptor:returnStructName()>, self).__init__()

    <scope.attributes:{self.<it.decl> = None}; separator="\n">  
    #@ruleReturnInit()  
    
    #@ruleReturnMembers()  

    <endif> >>

    parameterScope(scope) ::= <<
    <scope.attributes:{<it.decl}>; separator="", >
    >>

    parameterAttributeRef(attr) ::= "<attr.name>"
    parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

    scopeAttributeRef(scope,attr,index,negIndex) ::= <<
        <if(negIndex)>
        self.<scope>_stack[-<negIndex>].<attr.name>
        <else>
        <if(index)>
        self.<scope>_stack[<index>].<attr.name>
        <else>
        self.<scope>_stack[-1].<attr.name>
        <endif>
        <endif>
    >>

    /* not applying patch because of bug in action parser! */

    <if(negIndex)>
        ((len(self.<scope>_stack) - <negIndex> - 1) >= 0 and [self.<scope>_stack[-<negIndex>].<attr.name>] or [None])[0]
    <else>
        <if(index)>
        ((<index> <= len(self.<scope>_stack)) and [self.<scope>_stack[<index>].<attr.name>] or [None])[0]
    <else>
        ((len(self.<scope>_stack) > 0) and [self.<scope>_stack[-1].<attr.name>] or [None])[0]
    <endif>
    <endif>

    /* */

    scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
        <if(negIndex)>
        <![FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
<else>
<if(index>)
<!FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[index].<attr.name> = <expr>
<else>
self.<scope>_stack[-1].<attr.name> = <expr>
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like \{function.size()>0 && function::name.equals("foo")\}? */
isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues>)
(<scope> is not None) and [<scope>.<attr.name>] or [None][0]
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues>)
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues>)
retval.<attr.name> = <expr>
<else>
<attr.name> = <expr>
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Ids} or e+=expr {Se} */
listLabelRef(label) ::= "list_<label>"
tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or [0])[0]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"

// Somebody may ref Stemplate or Stree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop" //mmm... or input.LT(-1)??
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= "<<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if <actions.(actionScope).synpredgate>:
    <action>

    <endif>
    <else>
    #action start
    <action>
    #action end
    <endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

codeFileExtension() ::= ".py"

true() ::= "True"
false() ::= "False"

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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTdbg : AST : Dbg : C# by code generator.
*/
group ASTDbg;

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;
public ITreeAdaptor TreeAdaptor
{
    get {
        <if(grammar.grammarIsRoot)>
            return this.adaptor;
        <else>
            this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
        <endif><\n>
        <grammar.directDelegates:{g|g:delegateName()}.TreeAdaptor = this.adaptor;}>
    }
}
set { this.adaptor = new DebugTreeAdaptor(dbg, value); }

parserCtorBody() ::= <<
    <super.parserCtorBody>
>>

createListenerAndHandshake() ::= <<
    DebugEventSocketProxy dbg = new DebugEventSocketProxy(this, port, adaptor);
    DebugListener = dbg;
    !
    Original line follows, replaced by the next two ifs:
    set<InputStreamType>(new Debug<InputStreamType>(input,dbg));
    !
    <if(PARSER)>
        TokenStream = new DebugTokenStream(input,dbg);
    <endif>
    <if(TREE_PARSER)>
        TokenStream = new DebugTreeNodeStream(input,dbg);
    <endif>
    try {
      dbg.Handshake();
    } catch (IOException ioe) {
      ReportError(ioe);
    }
>>

@ctorForRootGrammar.finally() ::= <<
    ITreeAdaptor adap = new CommonTreeAdaptor();
    TreeAdaptor = adap;
    dbg.TreeAdaptor = adap;
>>

@ctorForProfilingRootGrammar.finally() ::= <<
    ITreeAdaptor adap = new CommonTreeAdaptor();
    TreeAdaptor = adap;
    dbg.TreeAdaptor = adap;
>>

@ctorForPredefinedListener.superClassRef() ::= "base(input, dbg)"

@ctorForPredefinedListener.finally() ::= <<
    <if(grammar.grammarIsRoot)>
        ! don't create new adaptor for delegates !
    ITreeAdaptor adap = new CommonTreeAdaptor();
    TreeAdaptor = adap;
    <endif>
@rewriteElement.pregen() ::= "dbg.Location(<e.line>,<e.pos>);
"

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/CSharp2/ASTDbg.stg

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*/

group AST;

@outputFile.imports() ::= <<
<@super.imports()>
@if(!TREE_PARSER)<<! tree parser would already have imported !>
using Antlr.Runtime.Tree;</@
>>
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
  protected ITreeAdaptor adaptor = new CommonTreeAdaptor();
  public ITreeAdaptor TreeAdaptor
  {
    get { return this.adaptor; }
    set {
      this.adaptor = value;
    }
  } //grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}
>>

@returnScope.ruleReturnMembers() ::= <<
  private <ASTLabelType> tree;
  override public object Tree
  {
    get { return tree; }
    set { tree = (<ASTLabelType>) value; }
  }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  <ASTLabelType> root_0 = null;
>>

ruleLabelDefs() ::= <<
  <super.ruleLabelDefs()>
  <ruleDescriptor.tokenLabels.ruleDescriptor.wildcardTreeLabels, ruleDescriptor.wildcardTreeListLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n"> <ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n"> <ruleDescriptor.allTokenRefsInAltsWithRewrites
    :{RewriteRule<rewriteElementType>Stream stream_<it> = new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n"> <ruleDescriptor.allRuleRefsInAltsWithRewrites
    :{RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n"> 
>>

/** When doing auto AST construction, we must define some variables; */
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST)
@if(outerAlt)
@if(!rewriteMode)
root_0 = (<ASTLabelType>) adaptor.GetNilNode();
@endif
@endif
@endif
@endif
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
@if(backtracking)
@if ( <actions.(actionScope).synpredgate> ) <endif>
stream_<token>.Add(<label>);
@endif
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefRoot(...)
@if(backtracking)
@if ( <actions.(actionScope).synpredgate> ) <endif>
stream_<token>.Add(<label>.Tree);
@endif
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRootTrack(...)
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)
@if(backtracking)
@if ( <actions.(actionScope).synpredgate> ) <endif>
stream_<rule.name>.Add(<label>.Tree);
@endif
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+.Tree,...)> >>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule, label, elementIndex, args, scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+.Tree,...)> >>

// Rewrite
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements:       <referencedElementsDeep; separator=", ">
// token labels:    <referencedTokenLabels; separator=", ">
// rule labels:     <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
<endif>
<prevRuleRootRef().Tree = root_0;
<rewriteCodeLabels()>
root_0 = (ASTLabelType)adaptor.GetNilNode();
<alts:rewriteAlt(); separator="else ">
!<if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>

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<prevRuleRootRef>.Tree = (ASTLabelType) adaptor.RulePostProcessing(root_0);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
    adaptor.GetChildIndex(retval.Start),
    adaptor.GetChildIndex(_last),
    retval.Tree);

<endif>
<endif>
<! if parser or rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef>.Tree = root_0;
<endif>
<if(!rewriteMode)>
<prevRuleRootRef>.Tree = root_0;
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
    :{RewriteRule<rewriteElementType>Stream stream_<it> = new
RewriteRule<rewriteElementType>Stream(adaptor, "token <it>", <it>);};
    separator="\n"
>
<referencedTokenListLabels
    :{RewriteRule<rewriteElementType>Stream stream_<it> = new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>);};
    separator="\n"
>
<referencedWildcardLabels
    :{RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>);};
    separator="\n"
>
<referencedWildcardListLabels
    :{RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",list_<it>);};
    separator="\n"
>
<referencedRuleLabels
    :{RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "rule <it>", <it>!=null ? <it>.Tree : null);};
    separator="\n"
>
<referencedRuleListLabels
    :{RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "token <it>", list_<it>);};
    separator="\n"
>
>>
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
* list rather shallow like other blocks.
*/
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements,   // elements in immediately block; no nested blocks
description) ::=  
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.HasNext()}; separator=" || "> )
{
  <alt>
}
<referencedElementsDeep:{el | stream_<el>.Reset();\n}> 
>>

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements,   // elements in immediately block; no nested blocks
description) ::=  
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.HasNext()}; separator=" || "> )
{
  <alt>
}
<referencedElements:{el | stream_<el>.Reset();\n}> 
>>

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements,   // elements in immediately block; no nested blocks
description) ::=  
<<
if ( !(<referencedElements:{el | stream_<el>.HasNext()}; separator=" || ">) )
{
  throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext()}; separator=" || "> )
{
  <alt>
}
<referencedElements:{el | stream_<el>.Reset();\n}> 
>>
rewriteAlt(a) ::= <<
  // <a.description>
  if (a.pred)
  {  
    <a.alt>
  }  
  else  
  {  
    <a.alt>
  }  
  endif
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
  // <fileName>:<description>
  {  
    <ASTLabelType> root_<treeLevel> = (ASTLabelType)adaptor.GetNilNode();  
    <root:rewriteElement()>
    <children:rewriteElement()>
    adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
  }  
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
  <@pregen()>
  <e.el>
>>

/** Gen ID or ID[<args>] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
  adaptor.AddChild(root_<treeLevel> , <createRewriteNodeFromElement(...)>);
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
  adaptor.AddChild(root_<treeLevel> , stream_<label>.NextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
  adaptor.AddChild(root_<treeLevel> , stream_<label>.NextNode());
>>
/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
    root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
    root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
    root_<treeLevel>);
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
    adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
    root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>,
    root_<treeLevel>);
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
    root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.Tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
    adaptor.AddChild(root_<treeLevel>, stream_<rule>.Next(Tree());
>>

rewriteRuleRefRoot(rule) ::= <<
    root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
    adaptor.AddChild(root_<treeLevel>, <action>);
>>
rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<\n>
>>
/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>
/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>
/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>
rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>
createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>
createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args; separator=", ">)
<else>
stream_<token>.NextNode()
<endif>
<endif>
>>

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/*
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 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

group CSharp3 implements ANTLRCore;

csharpVisibilityMap ::= [
    "private":"private",
    "protected":"protected",
    "public":"public",
    "fragment":"private",
]
/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/

outputFile(LEXER, PARSER, TREE_PARSER, actionScope, actions,
docComment, recognizer,
name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals) ::= 
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

// The variable 'variable' is assigned but its value is never used.
#pragma warning disable 219
// Unreachable code detected.
#pragma warning disable 162

<actions.(actionScope).header>

<@imports>
using System.Collections.Generic;
using Antlr.Runtime;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
<endif>
using Stack = System.Collections.Generic.Stack<object>;
using List = System.Collections.IList;
using ArrayList = System.Collections.Generic.List<object>;
<if(backtracking)>
using Map = System.Collections.IDictionary;
<endif>
<@end>

<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
lex grammar, name, tokens, scopes, rules, numRules, labelType="CommonToken",
   filterMode, superClass="Lexer") ::= <<
   [System.CLSCompliant(false)]
   public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
   {
      <tokens:{public const int <it.name>=<it.type>;}; separator="\n">
      <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}
      <actions.lexer.members>

      // delegates
      <grammar.delegates:
      {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
      // delegators
      <grammar.delegators:
      {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
      <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>}
      public <grammar.recognizerName>() {}<! needed by subclasses !>
      public <grammar.recognizerName>( ICharStream input<grammar.delegators:{g|, <g.recognizerName>
      <g:delegateName()>}> )
      :
      
      public <grammar.recognizerName>( ICharStream input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
      :
      
      public override string GrammarFileName { get { return "<fileName>"; } }
      <if(filterMode)>
protected override void InitDFAs()
{
    base.InitDFAs();
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs)>,
        new SpecialStateTransitionHandler( specialStateTransition<dfa.decisionNumber> )<endif> );}; separator="\n">}
    #endregion
}

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public override IToken NextToken()
{
    for ( ; ; )
    {
        if ( input.LA(1)==CharStreamConstants.EndOfFile )
        {
            return Tokens.EndOfFile;
        }
        state.token = null;
        state.channel = TokenChannels.Default;
        state.tokenStartCharIndex = input.Index;
        state.tokenStartCharPositionInLine = input.CharPositionInLine;
        state.tokenStartLine = input.Line;
        state.text = null;
        try
        {
            int m = input.Mark();
            state.backtracking=1;<! means we won't throw slow exception !>
            state.failed=false;
            }}
    }
mTokens();
state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1. !>
if ( state.failed )
{
    input.Rewind(m);
    input.Consume(); <! advance one char and try again !>
}
else
{
    Emit();
    return state.token;
}
catch ( RecognitionException re )
{
    // shouldn't happen in backtracking mode, but...
    ReportError(re);
    Recover(re);
}
}
}

public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
if ( state.backtracking > 1 )
    base.Memoize( input, ruleIndex, ruleStartIndex );
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
if ( state.backtracking > 1 )
    return base.AlreadyParsedRule(input, ruleIndex);

return false;
}

>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    ASTLabelType="object", labelType, members, rewriteElementType,
    filterMode) ::= <<
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
    <if(grammar.grammarIsRoot)>
    internal static readonly string[] tokenNames = new string[] {
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", tokenNames; separator=" ", "
    };
    <endif>
    <tokens:{public const int <it.name>=<it.type>;}; separator="\n">
    // delegates
    <grammar.delegates:
    {gl|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
    // delegators
    <grammar.delegators:
    {gl|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>}
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}><@members>
    <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
    public override string[] TokenNames { get { return
    <grammar.composite.rootGrammar.recognizerName>.tokenNames; } } public override string GrammarFileName { get { return "$<fileName>"; } }
    <members>
    #region Rules

    public override string[] TokenNames { get { return
    <grammar.composite.rootGrammar.recognizerName>.tokenNames; } }
    public override string GrammarFileName { get { return "$<fileName>"; } }
    <members>
    #region Rules
/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, labelType={ASTLabelType: "object", superClass="TreeParser"},
    members={<actions.treeParser.members>},
    filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc, just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// SANTLR start <ruleName>
public <!final !>() void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)<! throws RecognitionException> {

{<ruleLabelDefs()>
<if(trace>)
traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
try
{
<block>
}
finally
{
traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
}

}}
}<else>
<block>
<endif>
}
// $ANTLR end <ruleName>
>>

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

insertSynpreds(synpreds) ::= <<
<if(synpreds)>
#region Synpreds
bool EvaluatePredicate(System.Action fragment) {
  
  state.backtracking++;  
  @{start()}
  int start = input.Mark();
  try
  {
    fragment();
  }
  catch (RecognitionException re)
  {
    System.Console.Error.WriteLine("impossible: "+re);
  }
  bool success = !state.failed;
  input.Rewind(start);
  @{stop()}
  state.backtracking--;
  state.failed=false;
  return success;
}
@endregion Synpreds

<endif>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if (state.backtracking>0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { return <ruleReturnValue>(); } 
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>
if (state.failed) return <ruleReturnValue>();
<endif>
>>
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  <if(backtracking)>if (state.backtracking>0) {state.failed=true; return <ruleReturnValue>();}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
  <returnScope(scope=ruleDescriptor.returnScope)>
  // $ANTLR start "<ruleName>"
  // <fileName>:<description>
  <csharpVisibilityMap.(ruleDescriptor.modifier)> <returnType()> <ruleName>(
  <ruleDescriptor.parameterScope:parameterScope(scope=it)> )<! throws RecognitionException!>
  {
  <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <ruleLabelDefs()>
  <ruleDescriptor.actions.init>
  <@preamble()>
  try
  {
  <ruleMemoization(name=ruleName)>
  <block>
  <ruleCleanUp()>
  <ruleDescriptor.actions.after):execAction()>
  }
  <if(exceptions)>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)><
  >}
  <else>
  <if(!emptyRule)>
  <if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
  <else>
  catch ( RecognitionException re )
  {
  ReportError(re);
  Recover(input,re);
  <@setErrorReturnValue()>
  }<\n>
  <endif>
  <endif>
  <endif>
  finally

dcardTreeListLabels
  :{<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
  :{List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(label=it); separator="\n">
>
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
  :{<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
  :{List list_<it.label.text>=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);<
>endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking>0 ) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }<
>endif>

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/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
<sharpVisibilityMap.(ruleDescriptor.modifier)> void
m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try
{
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><n>
<else>
int _type = <ruleName>;
int _channel = DefaultTokenChannel;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>

<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
<memoize()>
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override void mTokens() throws RecognitionException {
    {
        <block><un>
    }
}

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    <@prebranch()>
    switch ( alt<decisionNumber> )
    {
        <alts:altSwitchCase()>
    }
    <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    switch ( alt<decisionNumber> )
    {
        <alts:altSwitchCase()>
    }
    <@postbranch()>
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>:<description>
    <decls>
    <@prealt()>
    <alts>
    <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
@@preloop()>
for ( ; ; )
{
int alt<decisionNumber>=<maxAlt>;
@@predecision()>
<decision>
@@postdecision()>
switch ( alt<decisionNumber> )
{
<alts:altSwitchCase()>
default:
if ( cnt<decisionNumber> >= 1 )
goto loop<decisionNumber>;;
}<ruleBacktrackFailure()>
EarlyExitException eee<decisionNumber> = new EarlyExitException( <decisionNumber>, input );
@@earlyExitException()>
throw eee<decisionNumber>;;
}cnt<decisionNumber>++; 
}loop<decisionNumber>:
;
@@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>
@@preloop()>

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for ( ; ; )
{
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
switch ( alt<decisionNumber> )
{
    <alts:altSwitchCase()>
    default:
    goto loop<decisionNumber>;
}
}

loop<decisionNumber>:
;

<@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i>:
    <@prealt()>
    <it>
    break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt<elements,altNum,description,autoAST,outerAlt,treeLevel,rew> ::= <<
    // <fileName>:<description>
    {<@declarations()>
    <elements:element()>
    <rew>
    <@cleanup()>
}
```plaintext
/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
<prematch()>
<el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=(<labelType>)<endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
tokenRef(...)
<labelList(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>
```
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode=""):( = <<
  <if(label)>
  <if(LEXER)>
  <label>= input.LA(1);<\n>
  <else>
  <label>=(<labelType>)input.LT(1);<\n>
  <endif>
  <endif>
  if ( <s> )
  {
    input.Consume();
    <postmatchCode>
    <if(!LEXER)>
    state.errorRecovery=false;
    <endif>
    <if(backtracking)>state.failed=false;<endif>
  }
  else
  {
    <ruleBacktrackFailure()>
  MismatchedSetException mse = new MismatchedSetException(null,input);
  <@mismatchedSetException()>
  <if(LEXER)>
  Recover(mse);
  throw mse;
  <else>
  throw mse;
  <! use following code to make it recover inline; remove throw mse;
  recoverFromMismatchedSet(input,mse,Follow._set_in_<ruleName><elementIndex>);
  !>
  <endif>
  }
} <\n>
>>

matchSetUnchecked(s,label,elementIndex,postmatchCode=""):( = <<
  <if(label)>
  <if(LEXER)>
  <label>= input.LA(1);<\n>
  <else>
  <label>=(<labelType>)input.LT(1);<\n>
  <endif>
  <endif>
  input.Consume();
    <postmatchCode>
  <if(!LEXER)>
  state.errorRecovery=false;
  <endif>
matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)
  <listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
  <if(label>)
  int <label>Start = CharIndex;
  Match(<string>); <checkRuleBacktrackFailure()>
  <label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);
  <else>
  Match(<string>); <checkRuleBacktrackFailure()></n>
  <endif>
>>

wildcard(label,elementIndex) ::= <<
  <if(label>)
  <label>=(<labelType>)input.LT(1);<
  <endif>
  MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
  <wildcard(...)>
  <listLabel(elem=label,...)>
>>

/** Match \ wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label>)
  <label> = input.LA(1);<
  <endif>
  MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...)>
  <listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments */
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);
  <if(label)> <label>=<endif> <if(scope)> <scope:delegateName()> <endif> <rule.name>(<args; separator=", ");
  state._fsp--;
  <checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(elem=label,...)>
>>
/** A lexer rule reference.
*  The 'rule' argument was the target rule name, but now
*  is type Rule, whose toString is same: the rule name.
*  Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
  <if(label)>
  int <label>Start<elementIndex> = CharIndex;
  <if(scope)> <scope:delegateName()> <endif> m<rule.name>(<args; separator=", ");
  <checkRuleBacktrackFailure()>
  <label> = new <labelType>(input, TokenType.Invalid, TokenChannels.Default, <label>Start<elementIndex>, CharIndex-1);
  <else>
  <if(scope)> <scope:delegateName()> <endif> m<rule.name>(<args; separator=", ");
  <checkRuleBacktrackFailure()>
  </if(label)>
>>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
  <lexerRuleRef(...>)
  <listLabel(elem=label,...)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
  <if(label)>
  int <label>Start<elementIndex> = CharIndex;
  Match(EndOfFile); <checkRuleBacktrackFailure()>
  </if(label)>
>>
** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
   <root:element()>
   <actionsAfterRoot:element()>
   <if(nullableChildList)>
   if ( input.LA(1)==TokenTypes.Down )
   {
      Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
      <children:element()>
      Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
   }
   <else>
   Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
   <children:element()>
   Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
   <endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
   if ( !(<evalPredicate(...)>) )
   {
      <ruleBacktrackFailure()>
   throw new FailedPredicateException(input, "<ruleName>", "<description>");
   }
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
   int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="|else">
else
   {
      <if(eotPredictsAlt)>
      alt<decisionNumber> = eotPredictsAlt;
      <else>
      <ruleBacktrackFailure()>
   

NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);

@noViableAltException()
throw nvae;
@endif
}

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
@noViableAltException()
throw nvae;
@endif
}

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
@if(eotPredictsAlt)
@noViableAltException()
throw nvae;
@endif
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{ alt<decisionNumber>=<eotPredictsAlt>; }
@endif
@endif
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>)}
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) )
{
    <edges; separator="\n">
    default:
    <if(eotPredictsAlt)>
    alt<decisionNumber>==eotPredictsAlt;
    break;<\n>
    <else>
    {
    <ruleBacktrackFailure()>
    NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
    input);<\n>
    <@noViableAltException()>
    throw nvae;
    }<\n>
    <endif>
    }<\n>
}>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) )
{
    <edges; separator="\n">
}|<\n>
}>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) )
{
    <edges; separator="\n">
    <if(eotPredictsAlt)>
    default:
    alt<decisionNumber>==eotPredictsAlt;
    break;<\n>
    <endif>
    }<\n>
}>>
dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n">;
<targetState>
}
break;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
*  in the rule to predict an alt just like the fixed DFA case.
*  The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach.  See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
class DFA<dfa.decisionNumber> : DFA
{
    const string DFA<dfa.decisionNumber>_eotS =
        "<dfa.javaCompressedEOT; wrap="\"+\n\t\t"">";
    const string DFA<dfa.decisionNumber>_eofS =
        "<dfa.javaCompressedEOF; wrap="\"+\n\t\t"">";
    const string DFA<dfa.decisionNumber>_minS =
        "<dfa.javaCompressedMin; wrap="\"+\n\t\t"">";
    const string DFA<dfa.decisionNumber>_maxS =
        "<dfa.javaCompressedMax; wrap="\"+\n\t\t"">";
    const string DFA<dfa.decisionNumber>_acceptS =
        "<dfa.javaCompressedAccept; wrap="\"+\n\t\t"">";
    const string DFA<dfa.decisionNumber>_specialS =
        "<dfa.javaCompressedSpecial; wrap="\"+\n\t\t"">";
    static readonly string[] DFA<dfa.decisionNumber>_transitionS =
        {<dfa.javaCompressedTransition:{s|"<s; wrap="\"+\n\t\t"">}; separator="\n">};
};


static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static readonly short[][] DFA<dfa.decisionNumber>_transition;

static DFA<dfa.decisionNumber>()
{
    int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for (int i=0; i < numStates; i++)
    {
        DFA<dfa.decisionNumber>_transition[i] =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

public DFA<dfa.decisionNumber>( BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
SpecialStateTransitionHandler specialStateTransition<endif> )
<if(dfa.specialStateSTs)>
: base( specialStateTransition )
<endif>
{
    this.recognizer = recognizer;
    this.decisionNumber = <dfa.decisionNumber>;
    this.eot = DFA<dfa.decisionNumber>_eot;
    this.eof = DFA<dfa.decisionNumber>_eof;
    this.min = DFA<dfa.decisionNumber>_min;
    this.max = DFA<dfa.decisionNumber>_max;
    this.accept = DFA<dfa.decisionNumber>_accept;
    this.special = DFA<dfa.decisionNumber>_special;
    this.transition = DFA<dfa.decisionNumber>_transition;
}
public override string GetDescription()
{
    return "<dfa.description>";
}
<@errorMethod()>
</n>
<if(dfa.specialStateSTs)>
int specialStateTransition<dfa.decisionNumber>( DFA dfa, int s, IIntStream _input )<! throws NoViableAltException!> 
{
  <if(LEXER>)
  IIntStream input = _input;
  <endif>
  <if(PARSER>)
  ITokenStream input = (ITokenStream)_input;
  <endif>
  <if(TREE_PARSER>)
  ITreeNodeStream input = (ITreeNodeStream)_input;
  <endif>
  int _s = s;
  switch ( s )
  {
  <dfa.specialStateSTs:{state |
  case <i0>:<! compressed special state numbers 0..n-1 !>
  <state>}; separator="\n">
  }
  <if(backtracking>)
  if (state.backtracking>0) {state.failed=true; return -1;}<\n>
  <endif>
  NoViableAltException nvae = new NoViableAltException(dfa.GetDescription(), <dfa.decisionNumber>, _s, input);
  dfa.Error(nvae);
  throw nvae;
  }
  <endif>
}

/** A state in a cyclic DFA; it's a special state and part of a big switch on state. */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState)><! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.Index;
input.Rewind();<\n>
<endif>

int s = -1;
<edges; separator="\nelse ”>
<if(semPredState)><! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<
>>

// DFA EXPRESSIONS
andPredicates(left,right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | ||<o>}>)"
notPredicate(pred) ::= "!(<evalPredicate(...)>"
evalPredicate(pred,description) ::= "(<pred>)"
evalSynPredicate(pred,description) ::= "EvaluatePredicate(<pred>_fragment)"
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere.  Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>\>=<lower> && LA<decisionNumber>_<stateNumber>\=<upper>)
>>
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)\>=<lower>
&& input.LA(<k>)\=<upper>)"

setTest(ranges) ::= "<ranges; separator="\" ||\">

// ATTRIBUTES
attributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
protected void _scopeInit( _scope scope )
{
    _scopeInit( scope );
}

protected void _scopeAfter( _scope scope )
{
    _scopeAfter( scope );
}

protected Stack<_scope> _stack = new Stack<_scope>();

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<

** Generate the C# type associated with a single or multiple return
* values.
*/
ruleLabelType(referencedRule) ::= <<
delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initWith(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initWith(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
>>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public <!static !>class <ruleDescriptor:returnStructName()> : 
<TREE_PARSER>Tree<endif>Parser<endif>RuleReturnScope
{
<scope.attributes:{public <it.decl>;}; separator="\n">  
@ruleReturnMembers()
}
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator="",">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr, expr) ::= "<attr.name> =<expr>;

scopeAttributeRef(scope, attr, index, negIndex) ::= <<<
  <if(negIndex)>
  ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
  </else>
  <if(index)>
  ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
  </else>
  ((<scope>_scope)<scope>_stack.Peek()).<attr.name>
  </endif>
  </endif>
>>

scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <<<
  <if(negIndex)>
  ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
  </else>
  <if(index)>
  ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
  </else>
  ((<scope>_scope)<scope>_stack.Peek()).<attr.name> =<expr>;
  </endif>
  </endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <<<
  <if(referencedRule.hasMoreReturnValues)>
  (<scope>!=null?<scope>.<attr.name>:<initValue(attr.type)>)
  </if>
  <scope>
  <endif>
>>

returnAttributeRef(ruleDescriptor, attr) ::= <<<
  <if(ruleDescriptor.hasMoreReturnValues)
  retval.<attr.name>
  </else>
  <attr.name>
  </endif>
>>
returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
  if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name> =<expr>;
  <else>
    <attr.name> =<expr>;
  <endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Sid} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
tokenLabelPropertyRef_text(scope, attr) ::= "(<scope>!null?<scope>.Text:null)"
tokenLabelPropertyRef_type(scope, attr) ::= "(<scope>!null?<scope>.Type:0)"
tokenLabelPropertyRef_line(scope, attr) ::= "(<scope>!null?<scope>.Line:0)"
tokenLabelPropertyRef_pos(scope, attr) ::= "(<scope>!null?<scope>.CharPositionInLine:0)"
tokenLabelPropertyRef_channel(scope, attr) ::= "(<scope>!null?<scope>.Channel:0)"
tokenLabelPropertyRef_index(scope, attr) ::= "(<scope>!null?<scope>.TokenIndex:0)"
tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope, attr) ::= "(<scope>!null?Integer.valueOf(<scope>.Text):0)"

ruleLabelPropertyRef_start(scope, attr) ::= "(<scope>!null?((<labelType>)<scope>.Start):null)"
ruleLabelPropertyRef_stop(scope, attr) ::= "(<scope>!null?((<labelType>)<scope>.Stop):null)"
ruleLabelPropertyRef_tree(scope, attr) ::= "(<scope>!null?((<ASTLabelType>)<scope>.Tree):null)"
ruleLabelPropertyRef_text(scope, attr) ::= <<
  if(TREE_PARSER)>
    (<scope>!null?input.TokenStream.ToString(
      input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
      input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):null)
  <else>
    (<scope>!null?input.ToString(<scope>.start,<scope>.stop):null)
  <endif>
>>

ruleLabelPropertyRef_st(scope, attr) ::= "(<scope>!null?<scope>.st:0)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope, attr) ::= "(<scope>!null?<scope>.Type:0)"
lexerRuleLabelPropertyRef_line(scope, attr) ::= 
    "(<scope>!=null?<scope>.Line:0)"

lexerRuleLabelPropertyRef_pos(scope, attr) ::= 
    "(<scope>!=null?<scope>.CharPositionInLine:-1)"

lexerRuleLabelPropertyRef_channel(scope, attr) ::= 
    "(<scope>!=null?<scope>.Channel:0)"

lexerRuleLabelPropertyRef_index(scope, attr) ::= 
    "(<scope>!=null?<scope>.TokenIndex:0)"

lexerRuleLabelPropertyRef_text(scope, attr) ::= 
    "(<scope>!=null?<scope>.Text:null)"

lexerRuleLabelPropertyRef_int(scope, attr) ::= 
    "(<scope>!=null?Integer.valueOf(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "((<labelType>)retval.Start)"
rulePropertyRef_stop(scope, attr) ::= "((<labelType>)retval.Stop)"
rulePropertyRef_tree(scope, attr) ::= "((<ASTLabelType>)retval.Tree)"
rulePropertyRef_text(scope, attr) ::= <<
    <if(TREE_PARSER)>
    input.TokenStream.ToString( 
       input.TreeAdaptor.GetTokenStartIndex(retval.Start), 
       input.TreeAdaptor.GetTokenStopIndex(retval.Start))
    <else>
    input.ToString(retval.Start,input.LT(-1))
    <endif>
>>
rulePropertyRef_st(scope, attr) ::= "retval.st"

lexerRulePropertyRef_text(scope, attr) ::= "Text"
lexerRulePropertyRef_type(scope, attr) ::= "_type"
lexerRulePropertyRef_line(scope, attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope, attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope, attr) ::= 
    "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope, attr) ::= "_channel"
lexerRulePropertyRef_start(scope, attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope, attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope, attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.st =<expr>;"
/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
 <action>
}
<else>
 <action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[]{<words64:{<it>UL};separator="",}>);<
>>

codeFileExtension() ::= ".cs"

true() ::= "true"
false() ::= "false"

Found in path(s):
*/opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-
sources/org/antlr/codegen/templates/CSharp3/CSharp3.stg

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*/

/** Templates for building ASTs during tree parsing. */
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;<
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
    retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    {
        <ASTLabelType> _save_last_<treeLevel> = _last;
        <ASTLabelType> _first_<treeLevel> = null;
        <if(!rewriteMode)>
            <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
        <endif>
        <root:element()>
            <if(rewriteMode)>
                <if(backtracking)>if ( state.backtracking==0 )<endif>
            </if(root.el.rule)>

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if (_first_enclosingTreeLevel==null) _first_enclosingTreeLevel = root.el.label.tree;
<else>
if (_first_enclosingTreeLevel==null) _first_enclosingTreeLevel = root.el.label;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
  match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
  <children:element()>
  match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_enclosingTreeLevel, root_treeLevel);
<endif>
_last = _save_last_treeLevel;
}
>
>
// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.tokenRef(...)>
>
/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( state.backtracking==0 ) {<endif>
  <if(!hetero)>
  <label>_tree = new <hetero>(<label>
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  <endif>
  adaptor.addChild(root_treeLevel, <label>_tree);
  <if(backtracking)>}
  <else> <! rewrite mode !>
<if(backtracking)>if ( state.backtracking==0 )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
tokenRef(...)
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><
>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
tokenRefRuleRoot(...)
<listLabel(elem=label,...)>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><
>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
    <matchSet(...)>
    <noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
    <super.matchSet(..., postmatchCode={
        <if(!rewriteMode)>
            <if(backtracking)>if ( state.backtracking==0 ) {<endif>
                <if(hetero)>
                    <label>_tree = new <hetero>(<label>);
                    <else>
                        <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
                    </if>
                <endif>
                root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
            }<endif>
        }<endif>
    }])>

// RULE REF AST

/*** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRef(...)>
    <if(backtracking)>if ( state.backtracking==0 ) <endif>
    <if(!rewriteMode)>adaptor.addChild(root_<treeLevel>, <label>.getTree());<else> <! rewrite mode !>
        if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
        <else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
    <endif>
>>

/*** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
    <ruleRef(...)>[
    <listLabel(elem=label+".getTree()"....)>
>>
/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
>>
/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".getTree()",...)>
>>
/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>
ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
>>
Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-targz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2sources/org/antlr/codegen/templates/Perl5/ASTTreeParser.stg
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*/

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/PythonTarget.java
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/RubyTarget.java

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*/
/*

New style messages. This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.
*/

group gnu;

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-targz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/tool/templates/messages/formats/gnu.stg
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/*
*/
/*
New style messages. This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*.stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/

group antlr;

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/tool/templates/messages/formats/antlr.stg
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*/
group ActionScript implements ANTLRCore;

asTypeInitMap ::= [
  "int":"0",
  "uint":"0",
  "Number":"0.0",
  "Boolean":"false",
  default:"null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
           docComment, recognizer,
           name, tokens, tokenNames, rules, cyclicDFAs,
           bitsets, buildTemplate, buildAST, rewriteMode, profile,
           backtracking, synpreds, memoize, numRules,
           fileName, ANTLRVersion, generatedTimestamp, trace,
           scopes, superClass, literals) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
package<if(actions.(actionScope).package)> <actions.(actionScope).package><endif> [ 
  <actions.(actionScope).header>
  <@imports>
  import org.antlr.runtime.*/;
  <if(TREE_PARSER)>
    import org.antlr.runtime.tree.*;
  <endif>
  <@end>

  <docComment>
  <recognizer>
  }
>>
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode, superClass="Lexer") ::= <<
public class <grammar.recognizerName> extends
    <if(actions.(actionScope).superClass)>actions.(actionScope).superClass</if>
    <else>@superClassName</else>
    <superClass><![endif]
    <endif> {
    <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
    {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n">
    // delegators
    <grammar.delegators:
    {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n">
    <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>

    public function <grammar.recognizerName>(
        <grammar.delegators:{g|<g:delegateName()>:<g.recognizerName>,
            input:CharStream = null, state:RecognizerSharedState = null} {>
        super(input, state);
        <cyclicDFAs:cyclicDFACtor()>
        <if(memoize)>
        <if(grammar.grammarIsRoot)>
            this.state.ruleMemo = new Array(<numRules>+1);<\n> <! index from 1..n !>
        <endif>
        <endif>
        <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(
            <trunc(g.delegators):{p|<p:delegateName()>,}>
            this, input, this.state);}; separator="\n">
        <grammar.delegators:
        {g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n">
        <last(grammar.delegators):{g|gParent = <g:delegateName>();}>
    }
    public override function get grammarFileName():String { return ":<fileName>"; } 
    <endif>
    <grammar.delegates:{g|<g:delegateName()> = new <g.recognizerName>(
    <grammar.delegators:{g|<g:delegateName()>:<g.recognizerName>,
        input:CharStream = null, state:RecognizerSharedState = null} {>
        super(input, state);
        <cyclicDFAs:cyclicDFACtor()>
        <if(filterMode)>
        <filteringNextToken()>
        <endif>
        <rules; separator="\n\n">
        <synpreds:{p | <lexerSynpred(p)> }>
        <cyclicDFAs:cyclicDFA()>

    } >>

    /** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. Backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
public override function nextToken():Token {
  while (true) {
    if ( input.LA(1)==CharStreamConstants.EOF ) {
      return TokenConstants.EOF_TOKEN;
    }
    this.state.token = null;
    this.state.channel = TokenConstants.DEFAULT_CHANNEL;
    this.state.tokenStartCharIndex = input.index;
    this.state.tokenStartCharPositionInLine = input.charPositionInLine;
    this.state.tokenStartLine = input.line;
    this.state.text = null;
    try {
      var m:int = input.mark();
      this.state.backtracking=1; <! means we won't throw slow exception !>
      this.state.failed=false;
      mTokens();
      this.state.backtracking=0;
      <! mTokens backtracks with synpred at backtracking==2
      and we set the synpredgate to allow actions at level 1. !>
      if ( this.state.failed ) {
        input.rewindTo(m);
        input.consume(); <! advance one char and try again !>
      }
      else {
        emit();
        return this.state.token;
      }
    } catch (re:RecognitionException) {
      // shouldn't happen in backtracking mode, but...
      reportError(re);
      recover(re);
    }
  }
  // Not reached - For ActionScript compiler
  throw new Error();
}

public override function memoize(input:IntStream,
ruleIndex:int,
ruleStartIndex:int):void
{
if (this.state.backtracking>1) super.memoize(input, ruleIndex, ruleStartIndex);
}

public override function alreadyParsedRule(input:IntStream, ruleIndex:int):Boolean {
if (this.state.backtracking>1) return super.alreadyParsedRule(input, ruleIndex);
return false;
}

>>

actionGate() ::= "this.state.backtracking==0"
filteringActionGate() ::= "this.state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
   bitsets, inputStreamType, superClass, filterMode,
   ASTLabelType="Object", labelType, members, rewriteElementType) ::= <<
   public class <grammar.recognizerName> extends <superClassName> {
      <if(grammar.grammarIsRoot)>
         public static const tokenNames:Array = [
            "<invalid>", "\<EOR>\", "\<DOWN>\", "\<UP>\", <tokenNames; separator="", »
         ];<\n>
      <endif>
      <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">
      // delegates
      <grammar.delegates:
         {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n">
      // delegators
      <grammar.delegators:
         {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n">
      <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>
      <scopes:{<if(it.isDynamicGlobalScope)<globalAttributeScope(scope=it)><endif>}
      <members>
      <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
      public function <grammar.recognizerName>({grammar.delegates:{g|<g:delegateName()>:<g.recognizerName>,
         }>}input:<inputStreamType>, state:RecognizerSharedState = null) {
         super(input, state);
         <cyclicDFAs:cyclicDFACtor()>
         <parserCtorBody()>
         <grammar.directDelegates:
            {g|<g:delegateName>() = new <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>
                input, this.state);}; separator="\n">
         <grammar.indirectDelegates:{g | <g:delegateName()>::<g:delegateName()>;}; separator="\n">
      </members>
   </grammar.recognizerName>
   <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass>
   </grammar.recognizerName>
   <if(grammar.grammarIsRoot)>
      public static const tokenNames:Array = [
         "<invalid>", "\<EOR>\", "\<DOWN>", "\<UP>", <tokenNames; separator="", »
      ];
   <endif>
   <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">
   // delegates
   <grammar.delegates:
      {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n">
   // delegators
   <grammar.delegators:
      {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n">
   <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>
   <scopes:{<if(it.isDynamicGlobalScope)<globalAttributeScope(scope=it)><endif>}
   <members>
   <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
   public function <grammar.recognizerName>({grammar.delegates:{g|<g:delegateName()>:<g.recognizerName>,
      }>}input:<inputStreamType>, state:RecognizerSharedState = null) {
      super(input, state);
      <cyclicDFAs:cyclicDFACtor()>
      <parserCtorBody()>
      <grammar.directDelegates:
         {g|<g:delegateName>() = new <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>
            input, this.state);}; separator="\n">
      <grammar.indirectDelegates:{g | <g:delegateName()>::<g:delegateName()>;}; separator="\n">
   </members>
   </grammar.recognizerName>
public override function get tokenNames():Array { return 
<grammar.composite.rootGrammar.recognizerName>.tokenNames; } 
public override function get grammarFileName():String { return "<fileName>"; } 

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
  public function
  <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):<returnType>() {
  <if(ruleDescriptor.hasReturnValue)>return
  <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut
es:{a|<a.name>}; separator="","">); 
  <member>{<grammar.delegators:}{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n"> 
  <synpreds:{p | <synpred(p)> }>
  <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
  <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, 
  words64=it.bits)> 
  </member>

  parserCtorBody() ::= <<
  <if(memoize)>
    <if(grammar.grammarIsRoot)>
      this.state.ruleMemo = new Array(<length(grammar.allImportedRules>>+1);<\n    <if(grammar.grammarIsRoot)>
      this.state.ruleMemo = new Array(<length(grammar.allImportedRules>>+1);<\n      <grammar.delegators:
      [g|this.<g:delegateName()> = <g:delegateName()>;]; separator="\n">

  parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="Object", 
  superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
  <genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>

  /** How to generate a tree parser; same as parser except the input
   * stream is a different type.
// A simpler version of a rule template that is specific to the imaginary
// rules created for syntactic predicates. As they never have return values
// nor parameters etc..., just give simplest possible method. Don't do
// any of the normal memoization stuff in here either; it's a waste.
// As predicates cannot be inlined into the invoking rule, they need to
// be in a rule by themselves.
//
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
  // $ANTLR start <ruleName>
  public final function <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):void {
    <ruleLabelDefs()>
    <if(trace)>
      traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
      try {
        <block>
      }
      finally {
        traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
      }
    </else>
    <block>
    </endif>
  } // $ANTLR end <ruleName>
>>

synpred(name) ::= <<
  public final function <name>():Boolean {
    this.state.backtracking++;
    <@start()>
    var start:int = input.mark();
    try {
      <name>_fragment(); // can never throw exception
    } catch (re:RecognitionException) {
      trace("impossible: "+re);
    }
    var success:Boolean = !this.state.failed;
    input.rewindTo(start);
    <@stop()>
    this.state.backtracking--;
  }
>>
this.state.failed=false;
return success;
}

lexerSynpred(name) ::= <<
synpred(name)
>>

ruleMemoization(name) ::= <<
@if(memoize)
if (this.state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>)) { return(ruleReturnValue()); }
@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)if (this.state.failed) return(ruleReturnValue());@endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)if (this.state.backtracking>0) {this.state.failed=true; return(ruleReturnValue());}@endif
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
@attributeScope(scope=ruleDescriptor.ruleScope)
// $ANTLR start <ruleName>
// <fileName>:<description>
public final function <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):<returnType>() {
@if(trace)traceIn("<ruleName>", <ruleDescriptor.index>);@endif
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
@@preamble()
try {
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()>
    <(ruleDescriptor.actions.after):execAction()>
}
@if(exceptions)@catch(decl=e.decl,action=e.action)@

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catch (re:RecognitionException) {
    reportError(re);
    recoverStream(input,re);
    @$setErrorReturnValue()"
}"
@endif
@endelse
@endif
@endendif
finally {
    @if(trace)traceOut("<ruleName>", <ruleDescriptor.index>);@endif
    @memoize()
    @ruleScopeCleanUp()
    @finally
}
/*@postamble()*/
return <ruleReturnValue>();
} /*$ANTLR end <ruleName>*/
>>
catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}
>>
ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
var retval:<returnType()> = new <returnType>()();
retval.start = input.LT(1);<
else
@if(memoize)
var <ruleDescriptor.name>_StartIndex:int = input.index;
@endif
@if(ruleDescriptor.returnScope.attributes:{ a |
var <a.name>:<a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>; 
}>
@if(memoize)
var <ruleDescriptor.name>_StartIndex:int = input.index;
@endif
>>
ruleScopeSetUp() ::= <<
@ruleDescriptor.useScopes:{<it>_stack.push(new Object());}; separator="\n"
@ruleDescriptor.ruleScope:{<it.name>_stack.push(new Object());}; separator="\n"
ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 :{var <it.label.text>:<labelType>=null;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
 :{var list_<it.label.text>:Array=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|var <ll.label.text>:RuleReturnScope = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
 :{var <it.label.text>:<labelType>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{var <it.label.text>:int;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{var list_<it.label.text>:Array=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);<\n>
memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( this.state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start <ruleName>
public final function m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):void {
  <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><n>
<else>
  var _type:int = <ruleName>;
  var _channel:int = DEFAULT_TOKEN_CHANNEL;
  <ruleMemoization(name=ruleName)>
  <lexerRuleLabelDefs()>
  <ruleDescriptor.actions.init>
  <block>
  <ruleCleanUp()>
  this.state.type = _type;
  this.state.channel = _channel;
  <(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally {
  <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>)<endif>
  <ruleScopeCleanUp()>
  <memoize()>
  }
} // $ANTLR end <ruleName>
>>
/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override function mTokens():void {
    <block>
} >>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    var alt<decisionNumber>:int=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    <@prebranch()>
    switch (alt<decisionNumber>) {
        <alts:altSwitchCase()>
    }
    <@postbranch()>
} >>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    var alt<decisionNumber>:int=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {
        <alts:altSwitchCase()>
    }
} >>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>:<description>
    <decls>
    <@prealt()>
    <alts>
    <@postalt()>
} >>
/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  @@prealt()>
  <alts>
  @@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  var cnt<decisionNumber>:int=0;
  <decls>
  @@preloop()>
  loop<decisionNumber>:
do {
    var alt<decisionNumber>:int=<maxAlt>;
    @@predecision()>
    <decision>
    @@postdecision()>
    switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
    default :
      if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
      @@ruleBacktrackFailure()>
        throw new EarlyExitException(<decisionNumber>, input);
        <!-- Need to add support for earlyExitException debug hook !-->}
    cnt<decisionNumber>++;
  } while (true);
  @@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  loop<decisionNumber>:
do {
    var alt<decisionNumber>:int=<maxAlt>;
    @@predecision()>
    <decision>
    switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
    default :
      if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
      @@ruleBacktrackFailure()>
        throw new EarlyExitException(<decisionNumber>, input);
        <!-- Need to add support for earlyExitException debug hook !-->}
    cnt<decisionNumber>++;
  } while (true);
  @@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** A (...)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  loop<decisionNumber>:
do {
    var alt<decisionNumber>:int=<maxAlt>;
    @@predecision()>
    <decision>
switch (alt<decisionNumber>) {
  <alts:altSwitchCase()>
  default :
    break loop<decisionNumber>;
  }<@postloop()>
} while (true);
}

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
case <i> :
  <@prealt()>
  <it>
    break;<
  >>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>::<description>
  {<@declarations()>
    <elements:element()>
    <rew>
    <@cleanup()>
  }
>>

/** What to emit when there is no rewrite. For auto build mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S
/** Dump the elements one per line */
element() ::= <<
  @prematch()
  <@el> <\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
  if(label) <label>=<labelType>(matchStream(input,<token>,FOLLOW_<token>_in_<ruleName><element Index>)<if(label)>)<endif>; <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...)> <listLabel(elem=label,...)> 
>>

listLabel(label,elem) ::= <<
  if (list_<label>==null) list_<label>=new Array();
  list_<label>.push(<elem>); <\n>
>>

/** match a character */
charRef(char,label) ::= <<
  if(label)
  <label> = input.LA(1); <\n>
  <endif>
  match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  if(label)
  <label> = input.LA(1); <\n>
  <endif>
  matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode=""') ::= <<
  if(label)
  <if(LEXER)>
  <label>= input.LA(1); <\n>
  <else>
  <label>=<labelType>(input.LT(1)); <\n>
  <endif>
  <endif>
>>
if ( "<s>" ) {
    input.consume();
    <postmatchCode>
    <if(!LEXER>)
        this.state.errorRecovery=false;
    <endif>
    <if(backtracking)>this.state.failed=false;</if>
} else {
    <ruleBacktrackFailure()>
    <@mismatchedSetException()>
    <if(LEXER>)
        throw recover(new MismatchedSetException(null,input));
    <else>
        throw new MismatchedSetException(null,input);
    </if>
    <! use following code to make it recover inline; remove throw mse;
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    <!>
    <endif>
}<

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= << matchSet(...)>
<listLabel(elem=label,...)> >>

/**< Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
    var <label>Start:int = charIndex;
mismatchString(<string>); <checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
<else>
mismatchString(<string>); <checkRuleBacktrackFailure()></n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = <labelType>(input.LT(1));<n>
<endif>
mismatchAny(input); <checkRuleBacktrackFailure()>
>>
wildcardAndListLabel(label,elementIndex) ::= <<
  <wildcard(...)>
  <listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = input.LA(1);<\n>
  <endif>
  matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...)>
  <listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments 
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 * 
 * GMS: Note: do not use post-decrement operator! ASC produces bad code for exceptions in this case.
 * See: https://bugs.adobe.com/jira/browse/ASC-3625
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
  <if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=",">);
  state._fsp = state._fsp - 1;
  <checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(elem=label,...)>
>>

/** A lexer rule reference. 
 * 
 * 'The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <<
<iif(label)>
var <label>Start<elementIndex>:int = charIndex;
<iif(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ");
<iif(checkRuleBacktrackFailure())>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE, TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<ielse>
<iif(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ");
<iif(checkRuleBacktrackFailure())>
<iendif>
<iendif>
>>-

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<iif(nullableChildList)>
if ( input.LA(1)==TokenConstants.DOWN ) {  
  matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
  <children:element()>  
  matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
<ielse>
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
<iendif>
>>

/* i+=INT in lexer */
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>
/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);
<edges; separator="\nelse ">
else {
    <if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
    <else>
    <ruleBacktrackFailure()>
    throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
    <! Need to add hook for noViableAltException() !>
    <endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);
<edges; separator="\nelse ">
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
}}
```c
<else>
else {
    alt<decisionNumber>=<eotPredictsAlt>;
}<\n><endif><endif>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied, *
* enter to the target state. To handle gated productions, we may *
* have to evaluate some predicates for this edge. */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
    <targetState>
}<\n>>

// F i x e d  D F A  (switch case)

/** A DFA state where a SWITCH may be generated. The code generator *
* decides if this is possible: CodeGenerator.canGenerateSwitch(). */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n"> default:
    if(eotPredictsAlt) {
        alt<decisionNumber>=<eotPredictsAlt>;
    }<else>
        <ruleBacktrackFailure>()
        throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    <! Need to add hook for noViableAltException !>
    <endif>
}<\n>>
dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">}
}<\n>>
dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">}
```
<edges; separator="\n">"\n<if(eotPredictsAlt)>
default:
    alt<decisionNumber>=<eotPredictsAlt>
    break;"\n<endif>
}
"\n>>

dfaEdgeSwitch(labels, targetState) ::= "\n<labels:{case <it>:}; separator="\n">
    |
    <targetState>
    break;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= "\nalt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>
cyclicDFACtor(dfa) ::= "\n
dfa<dfa.decisionNumber> = new DFA(this, <dfa.decisionNumber>,
    "<dfa.description>",
    DFA<dfa.decisionNumber>_eot, DFA<dfa.decisionNumber>_eof, DFA<dfa.decisionNumber>_min,
    DFA<dfa.decisionNumber>_max, DFA<dfa.decisionNumber>_accept, DFA<dfa.decisionNumber>_special,
    DFA<dfa.decisionNumber>_transition<if(dfa.specialStateSTs)>,
    DFA<dfa.decisionNumber>_specialStateTransition<endif>);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= "\n
private const DFA<dfa.decisionNumber>_eot:Array =
DFA.unpackEncodedString("<dfa.javaCompressedEOT; wrap="\v+\n \v"">");
private const DFA<dfa.decisionNumber>_eof:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedEOF; wrap="\v+\n \v"">");
private const DFA<dfa.decisionNumber>_min:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedMin; wrap="\v+\n \v"">", true);
private const DFA<dfa.decisionNumber>_max:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedMax; wrap="\v+\n \v"">", true);
private const DFA<dfa.decisionNumber>_accept:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedAccept; wrap="\v+\n \v"">");
private const DFA<dfa.decisionNumber>_special:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedSpecial; wrap="\v+\n \v"">");
private const DFA<dfa.decisionNumber>_transition:Array = [
    <dfa.javaCompressedTransition:{s|DFA.unpackEncodedString("<s; wrap="\v+\n\v"">"); separator="\n">]
];
;if(dfa.specialStateSTs)
    private function DFA<dfa.decisionNumber>_specialStateTransition(dfa:DFA, s:int, _input:IntStream):int {
        <if(LEXER)>
            var input:IntStream = _input;
            <endif>
        <if(PARSER)>
            var input:TokenStream = TokenStream(_input);
            <endif>
        <if(TREE_PARSER)>
            var input:TreeNodeStream = TreeNodeStream(_input);
            <endif>
        var _s:int = s;
        switch ( s ) {
            <dfa.specialStateSTs:{case state | separator="\n">}
        }
        <if(backtracking)>
            if (this.state.backtracking>0) {this.state.failed=true; return -1;} \n        <endif>
            throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>, _s, input));
        } \n    }
protected var dfa<dfa.decisionNumber>:DFA;  // initialized in constructor

/** A state in a cyclic DFA; it's a special state and part of a big switch on * state. */
cyclicDFAStrate<dfa.decisionNumber>:_stateNumber,edges,needErrorClause,semPredState) ::= <
    var LA<dfa.decisionNumber>_stateNumber:int = input.LA(1); <\n    <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>

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var index<decisionNumber>_<stateNumber>:int = input.index;
input.rewind();

<endif>
s = -1;
<edges; separator="| else ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);
<endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (labelExpr) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
  s = <targetStateNumber>;<
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | ||<o>}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
  (LA<decisionNumber>_<stateNumber>\>=<lowerAsInt> \\
  &&
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)\>=\<lowerAsInt> && input.LA(<k>)\<=\<upperAsInt>)"

setTest(ranges) ::= "<ranges; separator="||">"

// Attributes

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>_stack:Array = new Array();
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>_stack:Array = new Array();
<endif>
>>

returnStructName() ::= "<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the Java type associated with a single or multiple return
* values. */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<returnStructName()>
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table *
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<asTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
var <label.label.text>:<ruleLabelType(referencedRule=label.referencedRule)> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<un>
>>

/** Define a return struct for a rule if the code needs to access its *
* start/stop tokens, tree stuff, attributes, ... Leave a hole for *
* subgroups to stick in members. */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <returnType()> extends <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
<scope.attributes:{public <it.decl>;}; separator="n">;
}@ruleReturnMembers()
}
</if>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.name>:<it.type>}; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name>
<else>
<if(index)>
<scope>_stack[index].<attr.name>
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name>
scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <<
  <if(negIndex)>
    <scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name> =<expr>;
  <else>
    <if(index)>
      <scope>_stack[<index>].<attr.name> =<expr>;
    <else>
      <scope>_stack[<scope>_stack.length-1].<attr.name> =<expr>;
    <endif>
  <endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
    (<scope>!=null?<scope>.values.<attr.name>:<initValue(attr.type)>)
  <else>
    <scope>
  <endif>
>>

returnAttributeRef(ruleDescriptor, attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.values.<attr.name>
  <else>
    <attr.name>
  <endif>
>>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.values.<attr.name> =<expr>;
  <else>
    <attr.name> =<expr>;
  <endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {ids} or e+=expr {e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.text:null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.charPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.tokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?int(<scope>.text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!=null?<labelType>!<scope>.start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=null?<labelType>!<scope>.stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!=null!<ASTLabelType>!<scope>.tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= "<if(TREE_PARSER)" 
(scope)\(\) !=null?input.tokenStream.toStringWithRange(input.treeAdaptor.getTokenStartIndex(scope.start),input.treeAdaptor.getTokenStopIndex(scope.start)):null)"
<else>
(scope)\(\) !=null?input.toStringWithRange(scope.start,scope.stop):null)"
<endif>"

ruleLabelPropertyRef_st(scope,attr) ::= "(<scope>!=null?<scope>.st:0)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.line:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.charPositionInLine:0)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.tokenIndex:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.text:0)"
lexerRuleLabelPropertyRef_int(scope,attr) ::=
"(<scope>!=null?int(<scope>.text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "<labelType>(retval.start)"
rulePropertyRef_stop(scope, attr) ::= "<labelType>(retval.stop)"
rulePropertyRef_tree(scope, attr) ::= "<ASTLabelType>(retval.tree)"
rulePropertyRef_text(scope, attr) ::= <<
  <if(TREE_PARSER)>
  input.tokenStream.toStringWithRange(
    input.treeAdaptor.getTokenStartIndex(retval.start),
    input.treeAdaptor.getTokenStopIndex(retval.start))
  <else>
  input.toStringWithRange(retval.start, input.LT(-1))
  <endif>
>>
rulePropertyRef_st(scope, attr) ::= "retval.st"

lexerRulePropertyRef_text(scope, attr) ::= "text"
lexerRulePropertyRef_type(scope, attr) ::= ".type"
lexerRulePropertyRef_line(scope, attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope, attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope, attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope, attr) ::= ".channel"
lexerRulePropertyRef_start(scope, attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope, attr) ::= "(charIndex-1)"
lexerRulePropertyRef_int(scope, attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.tree =<expr>;;"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.st =<expr>;;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) {
    <action>
  }
  <else>
  <action>
  <endif>
>>
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)
bitset(name, words64) ::= <<
public static const <name>:BitSet = new BitSet([<words64:{<it>};separator=" ","}]);<
>>

codeFileExtension() ::= ".as"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-targ-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3_2.0.wso2v1/antlr-3.2-
sources/org/antlr/codegen/templates/ActionScript/ActionScript.stg
No license file was found, but licenses were detected in source scan.

/*
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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

group Perl5 implements ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass, literals) ::= 
<<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<actions.(actionScope).header>

<@imports>
@if(TREE_PARSER)>
<endif>
@if(backtracking)>
<endif>
</@

<docComment>
<recognizer>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token", filterMode, superClass="ANTLR::Runtime::Lexer") ::= <<
package <name>;
use ANTLR::Runtime::Class;

use Carp;
use English qw( -no_match_vars ) ;
use Readonly;
use Switch;

use ANTLR::Runtime::BaseRecognizer;
use ANTLR::Runtime::DFA;
use ANTLR::Runtime::NoViableAltException;

extends 'ANTLR::Runtime::Lexer';

use constant {
   HIDDEN => ANTLR::Runtime::BaseRecognizer->HIDDEN
};

use constant {
   <tokens:{ <it.name> => <it.type>, }; separator="\n">
};
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}> <actions.lexer.members>
sub BUILD {
    my ($self, $arg_ref) = @_;

    $self->init_dfas();
}

sub get_grammar_file_name {
    return "<fileName>";
}

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>>}>
<cyclicDFAs:{dfa | has 'dfa<dfa.decisionNumber>'}}>; separator="\n">

sub init_dfas {
    my ($self) = @_;;

    <cyclicDFAs:{dfa | $self->dfa<dfa.decisionNumber>({name}::DFA<dfa.decisionNumber>-new({ recognizer => $self }));}>
    ; separator="\n">

    return;
}

<perlTypeInitMap ::= ["$":"undef",
"@":"()",
"%":"()",
default:"undef"]>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
        token = null;
        channel = Token.DEFAULT_CHANNEL;
        tokenStartCharIndex = input.index();
        tokenStartCharPositionInLine = input.getCharPositionInLine();
        tokenStartLine = input.getLine();
        text = null;
        try {
            int m = input.mark();
            backtracking=1; <! means we won't throw slow exception !>
            failed=false;
            mTokens();
            backtracking=0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if ( failed ) {
                input.rewind(m);
                input.consume(); <! advance one char and try again !>
            }
            else {
                emit();
                return token;
            }
        } catch (RecognitionException re) {
            // shouldn't happen in backtracking mode, but...
            reportError(re);
            recover(re);
        }
    }
}

public void memoize(IntStream input,
int ruleIndex,
int ruleStartIndex)
{
    if ( backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if ( backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
actionGate() ::= "$self->state->backtracking==0"

filteringActionGate() ::= "backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode, 
    ASTLabelType="Object", labelType, members) ::= <<
package <name>;
use ANTLR::Runtime::Class;

use English qw( -no_match_vars ) ;
use Readonly;
use Switch;
use Carp;
use ANTLR::Runtime::BitSet;

extends '<@superClassName><superClass><@end>';

Readonly my $token_names => [ 
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator="", ">
];

use constant {
    <tokens:{ <it.name> => <it.type>, }; separator="\n">
};

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}}
    <@members>
</@members>

=! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

sub BUILD {
    my ($self, $arg_ref) = @_; 

    <if(backtracking)>
        $self->state->rule_memo({});<\n
    <endif>
} 
</@end>

sub get_token_names {
    return $token_names;
sub get_grammar_file_name {
    return "<fileName>";
}

<members>

<rules; separator="\n\n">

<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = __PACKAGE__::DFA<dfa.decisionNumber>-new($self);}; separator="n">
    <cyclicDFAs:cyclicDFA()><! dump tables for all DFA !>

1;
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType,
superClass="ANTLR::Runtime::Parser", labelType="ANTLR::Runtime::Token",
members={<actions.parser.members>}) ::= <<
    <genericParser(inputStreamType="ANTLR::Runtime::TokenStream", ...)>
>>

/** How to generate a tree parser; same as parser except the input
*  stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="ANTLR::Runtime::TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
    <genericParser(inputStreamType="TreeNodeStream", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
*  nor parameters etc..., just give simplest possible method. Don't do
*  any of the normal memoization stuff in here either; it's a waste.
*  As predicates cannot be inlined into the invoking rule, they need to
*  be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
    # $ANTLR start <ruleName>
    sub <ruleName>_fragment {
    # <ruleDescriptor.parameterScope:parameterScope:parameterScope(scope=it)}
<if(trace)>
  $self->traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
  eval {
    <block>
  };
  $self->traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
  if ($EVAL_ERROR) {
    croak $EVAL_ERROR;
  }
  <else>
    <block>
  </endif>
</if>

# $ANTLR end <ruleName>

synpred(name) ::= <<
  public final boolean <name>() {
    backtracking++;
    #@start()
    int start = input.mark();
    try {
      <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
      System.err.println("impossible: "+re);
    }
    boolean success = !failed;
    input.rewind(start);
    #@stop()
    backtracking--;
    failed=false;
    return success;
  }

>>

lexerSynpred(name) ::= <<
  synpred(name)
>>

ruleMemoization(name) ::= <<
  if (memoize) {
    if ( backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) {
      return <ruleReturnValue>();
    }
  }

>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
  /**
  * How to test for failure and return from rule */
  */
  checkRuleBacktrackFailure() ::= <<

  /*
   * How to test for failure and return from rule */
  */
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
if (backtracking>0) {failed=true; return <ruleReturnValue>();}<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
# $ANTLR start <ruleName>
# <fileName>:<description>
sub <ruleName>() {
my ($self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>) = @_;
<if(trace)>$self->traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
eval {
<ruleMemoization(name=ruleName)>
[block>
<ruleCleanUp()>
<ruleDescriptor.actions.after>:execAction()>
};
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><
>
}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
my $exception = $EVAL_ERROR;
if (ref $exception && $exception->isa('ANTLR::Runtime::RecognitionException')) {
    $self->report_error($exception);
    $self->recover($self->input, $exception);
    $exception = undef;
}<un>
}
catch (decl, action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
my $retval = <returnType()>->new();
$retval->set_start($self->input->LT(1));<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
  my $<a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;}
}><\n>
<if(memoize)>
<if(memoize)>
my $<ruleDescriptor.name>_start_index = $self->input->index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">;
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">;
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">;
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">;
>>

ruleLabelDefs() ::= <<
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start <ruleName>
sub m_<ruleName> {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>
my ($self) = @_;
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleDeclarations()>
eval {
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><
<else>
    my $_type = <ruleName>;
    my $_channel = $self->DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    $self->state->type($_type);
    $self->state->channel($_channel);
    <(ruleDescriptor.actions.after):execAction()>
    <endif>
};
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>
if ($EVAL_ERROR) {
    croak $EVAL_ERROR;
}
} # $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
sub m_tokens {
my ($self) = @_;      
/block/<

}       
>>

/// SUBRULES

J** A (...) subrule with multiple alternatives */
block(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:<description>
  my $alt<decisionNumber> = <maxAlt>;
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  <@prebranch()>
  switch ($alt<decisionNumber>) {  
      <alts:altSwitchCase()>
  }
  <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:<description>
  my $alt<decisionNumber> = <maxAlt>;
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  switch ($alt<decisionNumber>) {  
      <alts:altSwitchCase()>
  }
>>

ruleBlockSingleAlt(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postal()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>:<description>
  <decls>
  <@prealt()>


/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:<description>
  my $cnt<decisionNumber> = 0;
  <decls>
  <@preloop()>
  LOOP<decisionNumber>:
  while (1) {
    my $alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <@postdecision()>
    switch ($alt<decisionNumber>) {
      <alts:altSwitchCase()>
      else {
        if ( $cnt<decisionNumber> >= 1 ) { last LOOP<decisionNumber> }
        <ruleBacktrackFailure()>
        my $eee = ANTLR::Runtime::EarlyExitException->new(<decisionNumber>, $self->input);
        <@earlyExitException()>
        croak $eee;
      }
    }
    ++$cnt<decisionNumber>;
  }
  <@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:<description>
  <decls>
  <@preloop()>
  LOOP<decisionNumber>:
  while (1) {
    my $alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <@postdecision()>
    switch ($alt<decisionNumber>) {
      <alts:altSwitchCase()>
      else {
        if ( $cnt<decisionNumber> >= 1 ) { last LOOP<decisionNumber> }
        <ruleBacktrackFailure()>
        my $eee = ANTLR::Runtime::EarlyExitException->new(<decisionNumber>, $self->input);
        <@earlyExitException()>
        croak $eee;
      }
    }
    ++$cnt<decisionNumber>;
  }
  <@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
  case <i> { 
    <@prealt()>
    <it>
  }<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  # <fileName>:<description>
  { 
    <@declarations()>
    <elements:element()>
    <rew>
    <@cleanup()>
  } 
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
  <@prematch()>

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/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
  if(label) $label = $self->match($self->input, token, $FOLLOW_token_in_ruleName <elementIndex>);
  <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...>)
  <listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
  if (list_<label>==null) list_<label>=new ArrayList();
  list_<label>.add(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
  if(label)
  <label> = $self->input->LA(1);
  endif
  $self->match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  if(label)
  <label> = $self->input->LA(1);
  endif
  $self->match_range(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
  if(label)
    if(LEXER)
      <label>= $self->input->LA(1);
    else
      <label>=(<labelType>)input.LT(1);
    endif
    $self->match(<char>); <checkRuleBacktrackFailure()
  >>

if ( "<" ) {
  $self->input->consume();
}
<postmatchCode>
<if(LEXER)>
  $self->state->error_recovery(0);
<endif>
  <if(backtracking)>failed=false;<endif>
}
else {
  <ruleBacktrackFailure()>
  my $mse =
    ANTLR::Runtime::MismatchedSetException->new(undef, $self->input);
  <@mismatchedSetException()>
  <if(LEXER)>
    $self->recover($mse);
    $mse->throw();
  <else>
    $mse->throw();
    ! use following code to make it recover inline; remove throw mse;
    $self->recoverFromMismatchedSet($self->input, $mse, $FOLLOW_set_in_<ruleName><elementIndex>);
    !>
  <endif>
}</n>
>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
  <if(label)>
    int <label>Start = getCharIndex();
    $self->match(<string>); <checkRuleBacktrackFailure()>
    <labelType> <label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE,
    Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
  <else>
    $self->match(<string>); <checkRuleBacktrackFailure()><\n
    >
  <endif>
>>

wildcard(label,elementIndex) ::= <<
  <if(label)>
  <label>=(<labelType>)input.LT(1);<\n
  </label>
  matchAny(input); <checkRuleBacktrackFailure()>
>>
wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = $self->input->LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
$self->push_follow($FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
$<label> = $self-><rule.name>(<args; separator=", ">);<\n>
<else>
$self-><rule.name>(<args; separator=", ">);<\n>
<endif>
$self->state->_fsp($self->state->_fsp - 1);
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();

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```plaintext
self->m_<rule>(<args; separator="", ">); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
self->m_<rule.name>(<args; separator="", ">); <checkRuleBacktrackFailure()>
<endif>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
<endf>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<root:element()> 
<actionsAfterRoot:element()> 
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
} 
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 *  also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
```
if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}

// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    my $LA<decisionNumber>_stateNumber = $self->input->LA(<k>);<
    <edges; separator="\n">
    else {
        <if(eotPredictsAlt)>
            $alt<decisionNumber> = <eotPredictsAlt>;
        <else>
            <ruleBacktrackFailure()>
            my $nvae = ANTLR::Runtime::NoViableAltException->new(
                grammar_decision_description => "<description>",
                decision_number => <decisionNumber>,
                state_number => <stateNumber>,
                input => $self->input,
            );<
            @noViableAltException() croak $nvae;</
        <endif>
        <ruleBacktrackFailure()>
    }
    }

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    my $LA<decisionNumber>_stateNumber = $self->input->LA(<k>);<
    <edges; separator="
">

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    my $LA<decisionNumber>_stateNumber = $self->input->LA(<k>);<
    <edges; separator="\n"
/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "$alt<decisionNumber> = <alt>;";

/** A simple edge with an expression. If the expression is satisfied, *
 * enter to the target state. To handle gated productions, we may *
 * have to evaluate some predicates for this edge. *
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
<targetState>
}
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator *
 * decides if this is possible: CodeGenerator.canGenerateSwitch(). *
*/
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
<edges; separator="\n"> else {
<if(eotPredictsAlt)>
$alt<decisionNumber> = <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
my $nvae = ANTLR::Runtime::NoViableAltException->new({
    grammar_decision_description => "<description>",
    decision_number => <decisionNumber>,
    state_number => <stateNumber>,
    input => $self->input,
});<\n>
@@noViableAltException()>
croak $nvae;<\n>
<endif>
}
dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  switch ( $self->input->LA(<k>) ) {
    <edges; separator="\n">;
  }
>>

daLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  switch ( $self->input->LA(<k>) ) {
    <edges; separator="\n">;
    <if(eotPredictsAlt)>
    else { $alt<decisionNumber> = <eotPredictsAlt> }
    <endif>
  }
>>
daEdgeSwitch(labels, targetState) ::= <<
  case [ <labels: { <it> }; separator=", ">] { <targetState> }
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
daDecision(decisionNumber, description) ::= <<
  $alt<decisionNumber> = $self->dfa<decisionNumber>-predict($self->input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
  Readonly my $DFA<dfa.decisionNumber>_eot => ANTLR::Runtime::DFA->unpack_rle([<dfa.javaCompressedEOT; separator=", ">]);
  Readonly my $DFA<dfa.decisionNumber>_eof => ANTLR::Runtime::DFA->unpack_rle([<dfa.javaCompressedEOF; separator=", ">]);
  Readonly my $DFA<dfa.decisionNumber>_min => ANTLR::Runtime::DFA->unpack_rle([<dfa.javaCompressedMin; separator=", ">]);
  Readonly my $DFA<dfa.decisionNumber>_max => ANTLR::Runtime::DFA->unpack_rle([<dfa.javaCompressedMax; separator=", ">]);
>>
package <name>::DFA<dfa.decisionNumber>;
use ANTLR::Runtime::Class;

use strict;
use warnings;

extends 'ANTLR::Runtime::DFA';

sub BUILD {
    my $self = shift;
    my $param_ref = __PACKAGE__->unpack_params(@_.
        { spec => [
            name => 'recognizer',
            isa => 'ANTLR::Runtime::BaseRecognizer'
        ],
        });
    $self->recognizer($param_ref->{recognizer});
    $self->decision_number(<dfa.decisionNumber>);
    $self->eot($DFA<dfa.decisionNumber>_eot);
    $self->eof($DFA<dfa.decisionNumber>_eof);
    $self->min($DFA<dfa.decisionNumber>_min);
    $self->max($DFA<dfa.decisionNumber>_max);
    $self->accept($DFA<dfa.decisionNumber>_accept);
    $self->special($DFA<dfa.decisionNumber>_special);
    $self->transition($DFA<dfa.decisionNumber>_transition);
}

sub get_description {
    return "<dfa.description>";
}

<@errorMethod()>

<if(dfa.specialStateSTs)>
    sub special_state_transition {
        my ($self, $param_ref) = unpack_params(@_.
            { s|ANTLR::Runtime::DFA->unpack_rle([<s; separator="", ">])}; separator="", ">
        ));
        $self->special_state_transition($param_ref->{specialStateSTs});
    }
</if(dfa.specialStateSTs)>
spec => [  
    {  
      name => 's',  
      type => SCALAR,  
    },  
    {  
      name => 'input',  
      isa => 'ANTLR::Runtime::IntStream',  
    }  
  ]);  
my $s = $param_ref->{s};  
my $input = $param_ref->{input};  
switch ($s) {  
  <dfa.specialStateSTs:{state |  
    case <i0> \{ <! compressed special state numbers 0..n-1 !>  
      <state>; separator="\n">  
    }  
  }  
}  
<if(backtracking)>  
if ($self->state->backtracking > 0) {  
  $self->state->failed = 1;  
  return -1;  
}  
<endif>  
my $nvae =  
ANTLR::Runtime::NoViableAltException->new( {  
  grammar_decision_description => $self->get_description(),  
  decision_number => <dfa.decisionNumber>,  
  state_number => $s,  
  input => $input,  
});<un>  
$self->error($nvae);  
$nvae->throw();<un>  
<endif>  
}<un>  
}  
}  
}  

/** A state in a cyclic DFA; it's a special state and part of a big switch on  
*  state.  
*/  
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<  
my $input = $self->input;  
my $LA<decisionNumber>_.<stateNumber> = $input->LA(1);<un>
my $index<decisionNumber>_<stateNumber> = $input->index();
$input->rewind();
s = -1;
<edges; separator="\n">
<input.seek(index<decisionNumber>_<stateNumber>);>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
*  state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
*  always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left> && <right>)"
orPredicates(operands) ::= "(<first(operands)> <rest(operands):{o | ||<o>}>)"
notPredicate(pred) ::= "!(<evalPredicate(...)>)"
evalPredicate(pred,description) ::= "<pred>"
evalSynPredicate(pred,description) ::= "<pred>()"
lookaheadTest(atom,k,atomAsInt) ::= "$LA<decisionNumber>_<stateNumber> eq <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
*  somewhere.  Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "$self->input->LA(<k>) eq <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "($self->input->LA(<k>) ge lower & & $self->input->LA(<k>) le upper)"

setTest(ranges) ::= "<ranges; separator=" || "">"

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();\n
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();\n
<endif>
>>

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.name>_return
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<endif>
>>

/** Generate the Java type associated with a single or multiple return * values. */

ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
<endif>
/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "undef".
 */
initValue(typeName) ::= <<
@if(typeName)
<perlTypeInitMap.(typeName)>
@else
undef
@endif
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
my $<label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
{
package <returnType()>
use ANTLR::Runtime::Class;

extends 'ANTLR::Runtime::<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope';

<scope.attributes::{public <it.decl>;}; separator="\n">
"}@ruleReturnMembers()
}
@endif
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.name> }; separator=" ",">}
>>

parameterAttributeRef(attr) ::= "$<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "$<attr.name> =$<expr>;"
scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
$<scope>.<attr.name>
<else>
$<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
$<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name> =<expr>;
<else>
    $<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "$<label>"

/** ids+=ID {Ids} or e+=expr {e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "$<scope>-get_text()"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "((<labelType>)<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<labelType>)<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((ASTLabelType)<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= "<scope>.st"

<if(TREE_PARSER)>
    input.getTokenStream().toString(
        input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
        input.getTreeAdaptor().getTokenStopIndex(<scope>.start))
<else>
    substr($self->input, $<scope>-start, $<scope>-stop)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "$<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"
// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
    input.getTokenStream().toString(
      input.getTreeAdaptor().getTokenStartIndex(retval.start),
      input.getTreeAdaptor().getTokenStopIndex(retval.start))
  <else>
    input.toString(retval.start,input.LT(-1))
  <endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"
lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "$_.type"
lexerRulePropertyRef_line(scope,attr) ::= "tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "$_.channel"
lexerRulePropertyRef_start(scope,attr) ::= "tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_self(scope,attr) ::= "$_.self"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/*** How to execute an action */
execAction(action) ::= <<
  <if(backtracking)>
    <if(actions.(actionScope).synpredgate)>
      if ( <actions.(actionScope).synpredgate> ) {
        <action>
      }
    <else>
      if ( backtracking==0 ) {
        <action>
      }
    <endif>
  <else>
    <action>
  <endif>
>>
// M I S C (properties, etc...)

bitset(name, words64) ::= <<
    Readonly my $<name> => ANTLR::Runtime::BitSet->new({ words64 => [
        \'<words64:{'<it>'};separator="","\']
    });<\n>
>>

codeFileExtension() ::= ".pm"

true() ::= "1"
false() ::= "0"

/*
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gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-
sources/org/antlr/codegen/templates/Perl5/Perl5.stg

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*/
group AST;

@outputFile.imports() ::= <<
@super.imports()>
@if(!TREE_PARSER)<<! tree parser would already have imported !>
import org.antlr.runtime.tree.*;<
@endif>
>>

@genericParser.members() ::= <<
@super.members()>
<parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
<parserMembers() ::= <<
protected TreeAdaptor adaptor = new CommonTreeAdaptor();
public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|g:delegateName()}.setTreeAdaptor(this.adaptor);>
}
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
public Object getTree() { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels>:{<ASTLabelType> \_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> \_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
 :{RewriteRule<rewriteElementType>Stream stream_<it>=new
 RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
 :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
@if(autoAST)>
@if(outerAlt)>
@if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.nil();
@endif>
@endif>
@endif>
>>
// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
  <tokenRefBang(...)> <!-- Track implies no auto AST construction!>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<<

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefTrack(...)>
  <listLabel(elem=label,...)><<

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
  <tokenRefRuleRoot(...)><<

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefRuleRoot(...)><<

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());<<

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefTrack(...)><<

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)><<

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule.label,elementIndex,args,scope) ::= <<
 ruleRefRuleRootTrack(...)>
 <listLabel(elem=label+.getTree()",...")>
 >>

// Rewrite
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements: <referencedElementsDeep; separator="",">
// token labels: <referencedTokenLabels; separator="",">
// rule labels: <referencedRuleLabels; separator="",">
// token list labels: <referencedTokenListLabels; separator="",">
// rule list labels: <referencedRuleListLabels; separator="",">
// wildcard labels: <[referencedWildcardLabels, referencedWildcardListLabels]; separator="",">
<if(backtracking)>
 if ( <actions.(actionScope).synpredgate> ) {
 \n <endif>
 <prevRuleRootRef()>.tree = root_0;
 <rewriteCodeLabels()>  
 root_0 = (<ASTLabelType>)adaptor.nil();
 <alts:rewriteAlt(); separator="else ">
 <! if tree parser and rewrite=true !>
 <if(TREE_PARSER)>
 <if(rewriteMode)>
 <prevRuleRootRef()>.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
 input.replaceChildren(adaptor.getParent(retval.start),
 adaptor.getChildIndex(retval.start),
 adaptor.getChildIndex(_last),
 retval.tree);
 <endif>
 <endif>
 <! if parser or tree-parser && rewrite!=true, we need to set result !>
 <if(!TREE_PARSER)>
 <prevRuleRootRef()>.tree = root_0;
 <else>
 <if(!rewriteMode)>

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 31430
/** Generate code for an optional rewrite block; note it uses the deep ref'd element list rather shallow like other blocks. */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>

referencedTokenLabels() ::= <<
<referencedTokenLabels
  :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ",<it>);};
  separator="\n"
>
<referencedTokenListLabels
  :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>);};
  separator="\n"
>
<referencedWildcardLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",<it>);};
  separator="\n"
>
<referencedWildcardListLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",list_<it>);};
  separator="\n"
>
<referencedRuleLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it> ",<it>!=null?<it>.tree:null);};
  separator="\n"
>
<referencedRuleListLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it> ",list_<it>);};
  separator="\n"
>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext(); separator="||"> ) { 
    <alt> 
} 
<referencedElementsDeep:{el | stream_<el>.reset();\n}> 
>>

rewriteClosureBlock( 
alt,rewriteBlockLevel, 
referencedElementsDeep, // all nested refs 
referencedElements, // elements in immediately block; no nested blocks 
description) ::= 
    << 
    // <fileName>:<description> 
    while ( <referencedElements:{el | stream_<el>.hasNext(); separator="||"> ) { 
        <alt> 
    } 
<referencedElements:{el | stream_<el>.reset();\n}> 
>>

rewritePositiveClosureBlock( 
alt,rewriteBlockLevel, 
referencedElementsDeep, // all nested refs 
referencedElements, // elements in immediately block; no nested blocks 
description) ::= 
    << 
    if ( !(<referencedElements:{el | stream_<el>.hasNext(); separator="||">) ) { 
        throw new RewriteEarlyExitException(); 
    } 
    while ( <referencedElements:{el | stream_<el>.hasNext(); separator="||"> ) { 
        <alt> 
    } 
<referencedElements:{el | stream_<el>.reset();\n}> 
>>

rewriteAlt(a) ::= << 
    // <a.description> 
    <if(a.pred)> 
    if (<a.pred>) { 
        <a.alt> 
    }\n
    else 
    {
        <a.alt> 
    }\n
    <endif> 
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
  // <fileName>:<description>
  {
  <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
  <root:rewriteElement()>
  <children:rewriteElement()>
  adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
  |
  }<

  rewriteElementList(elements) ::= "<elements:rewriteElement()>

  rewriteElement(e) ::= <<
    <@pregen()>
    <e.el>
    >>

  /** Gen ID or ID[args] */
  rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
    adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>
    >>

  /** Gen $label ... where defined via label=ID */
  rewriteTokenLabelRef(label,elementIndex) ::= <<
    adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
    >>

  /** Gen $label ... where defined via label+=ID */
  rewriteTokenListLabelRef(label,elementIndex) ::= <<
    adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
    >>

  /** Gen ^(label ...) */
  rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
    root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
    >>

  /** Gen ^(label ...) where label+=... */
  rewriteTokenListLabelRefRoot := rewriteTokenLabelRefRoot

  /** Gen ^(ID ...) or ^(ID[args] ...) */
  rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
    root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
    root_<treeLevel>);
    >>

  >>
```plaintext
rewriteImaginaryTokenRef(args, token, hetero, elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, createImaginaryNode(tokenType=token, ...));
>>

rewriteImaginaryTokenRefRoot(args, token, hetero, elementIndex) ::= <<
root_<treeLevel> = (ASTLabelType) adaptor.becomeRoot(createImaginaryNode(tokenType=token, ...), root_<treeLevel>);
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = action;
>>

/** What is the name of the previous value of this rule's root tree?  This
*  let's us refer to $rule to mean previous value.  I am reusing the
*  variable 'tree' sitting in retval struct to hold the value of root_0 right
*  before I set it during rewrites.  The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_rule.nextTree());
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (ASTLabelType) adaptor.becomeRoot(stream_rule.nextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, action);
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (ASTLabelType) adaptor.becomeRoot(action, root_<treeLevel>);
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_label.nextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_label.nextTree());
>>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
```
rewriteRuleLabelRefRoot(label) ::= <<root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>); \n>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */ rewriteRuleListLabelRefRoot(label) ::= <<root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>); \n>>

rewriteWildcardLabelRef(label) ::= <<adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree()); \n>>

createImaginaryNode(tokenType, hetero, args) ::= <<if(hetero)<! new MethodNode(IDLabel, args) !>new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)<else>(<ASTLabelType>) adaptor.create(<tokenType>, <args; separator=", "><if(!args)"<tokenType>"<endif>)<endif>>

createRewriteNodeFromElement(token, hetero, args) ::= <<if(hetero)new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)<else><if(args) <! must create new node from old !>adaptor.create(<token>, <args; separator=", ">)<else>stream_<token>.nextNode()<endif><endif>>

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/Java/AST.stg
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*/
/*
 New style messages. This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/

group antlr;

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-
sources/org/antlr/tool/templates/messages/formats/vs2005.stg
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/** Template overrides to add debugging to normal Python output;
 * If ASTs are built, then you'll also get ASTDbg.stg loaded.
 */
group Dbg:

@outputFile.imports() ::= <<
@super.imports()>
from antlr3.debug import *
>>

@genericParser.args() ::= <<
download_socket = kwargs.pop('download_socket', None)
port = kwargs.pop('port', None)
>>

@genericParser.init() ::= <<
self.ruleLevel = 0

if self._dbg is None:
    <createListenerAndHandshake()>

>>

createListenerAndHandshake() ::= <<
@if(TREE_PARSER)>
proxy = DebugEventSocketProxy(self, adaptor=self.input.getTreeAdaptor(),
    debug=download_socket, port=port)\n>>
proxy = DebugEventSocketProxy(self, debug=debug_socket, port=port)
self.setDebugListener(proxy)
proxy.handshake()

genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
ruleNames = [
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n    ", separator="", "]
<endif>
<if(grammar.grammarIsRoot)>
def getRuleLevel(self):
    return self.ruleLevel

def incRuleLevel(self):
    self.ruleLevel += 1

def decRuleLevel(self):
    self.ruleLevel -= 1
<endif>
<if(profile)>
ctorForProfilingRootGrammar()
<else>
ctorForRootGrammar()
<endif>
ctorForPredefinedListener()
<else> <! imported grammar !>
def getRuleLevel(self):
    return <grammar.delegators:{g| <g:delegateName()>}>.getRuleLevel()

def incRuleLevel(self):
    <grammar.delegators:{g| <g:delegateName()>}>.incRuleLevel()

def decRuleLevel(self):
    <grammar.delegators:{g| <g:delegateName()>}>.decRuleLevel()
<ctorForDelegateGrammar()>
<endif>
<if(profile)>
FIXME(2)
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    ((Profiler)self._dbg).examineRuleMemoization(input, ruleIndex,
    <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    return super.alreadyParsedRule(input, ruleIndex);
```java
FIXME(3)
public void memoize(IntStream input,
        int ruleIndex,
        int ruleStartIndex)
{
    ((Profiler)self._dbg).memoize(input, ruleIndex, ruleStartIndex,
    grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    super.memoize(input, ruleIndex, ruleStartIndex);
}

def evalPredicate(self, result, predicate):
    self._dbg.semanticPredicate(result, predicate)
    return result

ctorForRootGrammar() ::= <<
<! bug: can't use @@super.members() cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
<!
public <name>(<inputStreamType> input) {
    this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState());
}
public <name>(<inputStreamType> input, int port, RecognizerSharedState state) {
    super(input, state);
    <parserCtorBody()>
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, self._dbg, this.state,
    this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n"> }
}@finally()>
};//
!
>>

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use @@super.members() cut-n-paste instead !>
public <name>(<inputStreamType> input) {
    this(input, new Profiler(null), new RecognizerSharedState());
}
public <name>(<inputStreamType> input, DebugEventListener self.dbg, RecognizerSharedState state) {
    super(input, self.dbg, state);
    Profiler p = (Profiler)self.dbg;
p.setParser(this);
    <parserCtorBody()>
    <grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, self.dbg, this.state, this<grammar.delegators:{g|,
    <g:delegateName()>}>);}; separator="\n"> }
```
ctorForDelegateGrammar() ::= <<
  public <name>(<inputStreamType> input, DebugEventListener self.dbg, RecognizerSharedState state<grammar.delegators:{g|<g.recognizerName> <g:delegateName()>}>) {
    super(input, dbg, state);
    <parserCtorBody()>
    <grammar.directDelegates:
      {g|<g:delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegators:{g|<g:delegateName()>}>);}; separator="\n">
  }
>
ctorForPredefinedListener() ::= <<
  public <name>(<inputStreamType> input, DebugEventListener dbg) {
    super(input, dbg, new RecognizerSharedState());
    <superClassRef>super(input, dbg, this.state<grammar.delegators:{g|<g:delegateName()>}>); separator="\n">
  }
>
@genericParser.superClassName() ::= "Debug"<@super.superClassName()>
@rule.body() ::= <<
  try:
    self._dbg.enterRule(self.getGrammarFileName(), "<ruleName>"
    if self.getRuleLevel() == 0:
      self._dbg.commence();
    self.incRuleLevel()
    self._dbg.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)
  @super.body()>
  self._dbg.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>)
finally:
    self._dbg.exitRule(self.getGrammarFileName(), "<ruleName>")
    self.decRuleLevel()
    if self.getRuleLevel() == 0:
        self._dbg.terminate()

    >>>

@synpred.start() ::= "self._dbg.beginBacktrack(self._state.backtracking)"

@synpred.stop() ::= "self._dbg.endBacktrack(self._state.backtracking, success)"

// Common debug event triggers used by region overrides below

try:
    self._dbg.enterSubRule(<decisionNumber>)
    <@super.body()>  
finally:
    self._dbg.exitSubRule(<decisionNumber>)

@ruleBlock.decision() ::= <<
    try:
        self._dbg.enterDecision(<decisionNumber>)
        <@super.decision()>  
    finally:
        self._dbg.exitDecision(<decisionNumber>)

    >>>

@block.body() ::= <<
    try:
        self._dbg.enterSubRule(<decisionNumber>)
        <@super.body()>  
    finally:
        self._dbg.exitSubRule(<decisionNumber>)

    >>>

@blockBody.decision() ::= <<
    try:
        self._dbg.enterDecision(<decisionNumber>)
        <@super.decision()>  
    finally:
        self._dbg.exitDecision(<decisionNumber>)

    >>>

@ruleBlock.decision() ::= <<
    try:
self._dbg.enterDecision(<decisionNumber>)
    @@super.decision()
finally:
    self._dbg.exitDecision(<decisionNumber>)
>>

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>"

@positiveClosureBlock.loopBody() ::= <<
    try:
        self._dbg.enterSubRule(<decisionNumber>)
        @@super.loopBody()
    finally:
        self._dbg.exitSubRule(<decisionNumber>)
>>

@positiveClosureBlockLoop.decisionBody() ::= <<
    try:
        self._dbg.enterDecision(<decisionNumber>)
        @@super.decisionBody()
    finally:
        self._dbg.exitDecision(<decisionNumber>)
>>

@positiveClosureBlockLoop.earlyExitException() ::= "self._dbg.recognitionException(eee)"

@closureBlock.loopBody() ::= <<
    try:
        self._dbg.enterSubRule(<decisionNumber>)
        @@super.loopBody()
    finally:
        self._dbg.exitSubRule(<decisionNumber>)
>>

@closureBlockLoop.decisionBody() ::= <<
    try:
        self._dbg.enterDecision(<decisionNumber>)
        @@super.decisionBody()
    finally:
        self._dbg.exitDecision(<decisionNumber>)
>>

@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
"self._dbg.location(<it.line>, <it.pos>)"

@matchSet.mismatchedSetException() ::= 
"self._dbg.recognitionException(mse)"

@dfaState.noViableAltException() ::= "self._dbg.recognitionException(nvae)"

@dfaStateSwitch.noViableAltException() ::= "self._dbg.recognitionException(nvae)"

dfaDecision(decisionNumber,description) ::= <<
try:
    self.isCyclicDecision = True
    <super.dfaDecision(...)>

except NoViableAltException, nvae:
    self._dbg.recognitionException(nvae)
    raise

>>

@cyclicDFA.errorMethod() ::= <<
def error(self, nvae):
    self._dbg.recognitionException(nvae)

>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
    self.evalPredicate(<pred>,"<description>")

>>

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/Python/Dbg.stg
No license file was found, but licenses were detected in source scan.

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*/
group Delphi implements ANTLRCore;

csharpTypeInitMap ::= [
  "int":"0",
  "uint":"0",
  "long":"0",
  "ulong":"0",
  "float":"0.0",
  "double":"0.0",
  "bool":"False",
  "byte":"0",
  "sbyte":"0",
  "short":"0",
  "ushort":"0",
  "char":"#0",
  "string":""",
  "String":""
  default:"nil" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 * LEXER (Boolean): should we generate lexer code?
 * PARSER (Boolean): should we generate parser code?
 * TREE_PARSER (Boolean): should we generate tree parser code?
 * actionScope (String): 'lexer', 'parser', 'tree_parser' or custom scope
 * actions (HashMap):
 * docComment (String): document comment
 * recognizer (Object): recognizer class generator
 * name (String): name of grammar
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass, literals) ::=<

unit <name>;

{$HINTS OFF}

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

(actions.(actionScope).header)

interface

/*@imports*/
uses<n>
/*@end*/

(actions.(actionScope).usesInterface)
@if(TREE_PARSER)>
    Antlr.Runtime.Tree,<\n>
@endif>
    Antlr.Runtime,
    Antlr.Runtime.Collections,
/** Generates source code for the lexer class
 * grammar (Grammar object)
 */
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
      filterMode, superClass="Lexer") ::= <<
type
  I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
end;

T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
    I<grammar.recognizerName>)
strict private
  FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
  FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
  FException: ERecognitionException;
procedure InitializeCyclicDFAs;
<cyclicDFAs:cyclicDFADeclaration()>
public
  const
    <tokens:{<it.name> = <it.type>;}; separator="\n"><scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>strict private
  <actions.(actionScope).memberDeclarations>
public
  // delegates
  <grammar.delegates: {g|<g:delegateName()>: I<superClass>; {<g.recognizerName>}}; separator="\n">public
  // delegators
  <grammar.delegators: {g|<g:delegateName()>: Pointer; {<g.recognizerName>}}; separator="\n"><last(grammar.delegators):{gParent: Pointer; {<g.recognizerName>}}>protected
  { IBaseRecognizer }
  function GetGrammarFileName: String; override;
<if(filterMode)>
    function AlreadyParsedRule(const Input: IIntStream;
        const RuleIndex: Integer): Boolean; override;
    procedure Memoize(const Input: IIntStream; const RuleIndex,
        RuleStartIndex: Integer); override;
protected
    { ILexer }
    function NextToken: IToken; override;<\n>\n<endif>
protected
  { ILexer }
procedure DoTokens; override;
public
constructor Create; overload;
constructor Create(const AInput: ICharStream<grammar.delegators:{g}; const A<g:delegateName()>:
  IBaseRecognizer{<g.recognizerName}> }); overload;
constructor Create(const AInput: ICharStream; const AState: IRecognizerSharedState<grammar.delegators:{g};
  const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName}> }); overload;

<rules: {r | <if(!r.ruleDescriptor.isSynPred)><lexerRuleDeclaration(r)><endif> }>
<synpreds:{p | <lexerSynpredDeclaration(p)>}; separator="\n">
end;

implementation

uses
<grammar.delegates: [{g}<g.recognizerName>,}; separator="\n">
<grammar.delegators: [{g}<g.recognizerName>,}; separator="\n">
<actions.(actionScope).usesImplementation>
SysUtils,
StrUtils,
Math;

{ T<grammar.recognizerName> }

constructor T<grammar.recognizerName>.Create;
begin
  InitializeCyclicDFAs;
end;

constructor T<grammar.recognizerName>.Create(const AInput: ICharStream<grammar.delegators:{g}; const
  A<g:delegateName()>: IBaseRecognizer{<g.recognizerName> } });
begin
  Create(AInput, nil<grammar.delegators:{g}, A<g:delegateName()>>);
end;

constructor T<grammar.recognizerName>.Create(const AInput: ICharStream; const AState:
  IRecognizerSharedState<grammar.delegators:{g}; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName> } });
begin
  inherited Create(AInput, AState);
  InitializeCyclicDFAs; { TODO: Necessary in Delphi?? Not removed yet. }
  <if(memoize)>
  <if(grammar.grammarIsRoot)>
  State.RuleMemoCount := <numRules>+1;<\n> <! index from 1..n !>
  <endif>
  <endif>
<grammar.directDelegates:
{g|<g:delegateName()> := T<g.recognizerName>.Create(AInput, State<trunc(g.delegators):{p|,
<p:delegateName()>}>}, Self);}; separator="\n">
<grammar.delegators:
{g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">
<last(grammar.delegators):{g|gParent := Pointer(A<g:delegateName()>);}>}
<actions.(actionScope).memberInitializations>
end;
<actions.(actionScope).memberImplementations>
function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
 Result := '<fileName>';
 end;

<if(filterMode)>
<filteringNextToken()>
<endif>

<rules; separator="\n\n">
<synpreds:{p | <lexerSynpred(p)>}>

procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
<cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> :=
TDFA<dfa.decisionNumber>.Create(Self<@debugAddition()>);}; separator="\n">
<cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}; separator="\n”>
end;

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
end.>>

lexerRuleDeclaration(rule) ::= <<
procedure m<rule.ruleName>(<rule.ruleDescriptor.parameterScope:parameterScope(scope=rule)>);
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * 
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
function T<grammar.recognizerName>.NextToken: IToken;
var
 M: Integer;
begin

---

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while (True) do
begin
if (Input.LA(1) = Integer(cscEOF)) then
   Exit(TToken.EOF_TOKEN);

State.Token := nil;
State.Channel := TToken.DEFAULT_CHANNEL;
State.TokenStartCharIndex := Input.Index;
State.TokenStartCharPositionInLine := Input.CharPositionInLine;
State.TokenStartLine := Input.Line;
State.Text := ";
try
   M := Input.Mark();
   State.Backtracking := 1; <! means we won't throw slow exception !>
   State.Failed := False;
   mTokens();
   State.Backtracking := 0;
<!
   mTokens backtracks with synpred at backtracking==2
   and we set the synpredgate to allow actions at level 1.
>
   if (State.Failed) then
      begin
         Input.Rewind(M);
         Input.Consume; <! // advance one char and try again !>
      end
   else
      begin
         Emit;
         Exit(State.Token);
      end;
except
   on RE: ERecognitionException do
      begin
         // shouldn't happen in backtracking mode, but...
         ReportError(RE);
         Recover(RE);
      end;
end;
end;
end;

function T<grammar.recognizerName>.AlreadyParsedRule(const Input: IIntStream;
           const RuleIndex: Integer): Boolean;
begin
   if (State.Backtracking > 1) then
      Result := inherited AlreadyParsedRule(Input, RuleIndex)
   else
Result := False;
end;

procedure T<grammar.recognizerName>.Memoize(const Input: IIntStream; const RuleIndex, RuleStartIndex: Integer);
begin
if (State.Backtracking > 1) then
  inherited Memoize(Input, RuleIndex, RuleStartIndex);
end;

filteringActionGate() ::= "((State.Backtracking = 1))"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
  bitsets, inputStreamType, superClass, filterMode,
  ASTLabelType="ANTLRInterface", labelType, members, rewriteElementType) ::= <<
type
  <rules: {r | <genericParserRuleReturnType(rule=r, ruleDescriptor=r.ruleDescriptor)>}>  I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
  <rules: {r | <genericParserRuleInterface(rule=r, ruleDescriptor=r.ruleDescriptor)>}>  end;
end;

T<grammar.recognizerName> = class(T@superClassName<superClass>@end>,
  I<grammar.recognizerName>)
  <if(grammar.grammarIsRoot)>
public
  const
    TOKEN_NAMES: array [0..<length(tokenNames)+3] of String = (  
      '\<invalid>',  
      '\<EOR>',  
      '\<DOWN>',  
      '\<UP>',  
      '<tokenNames; separator="\n">);<\n>
  <endif>
public
  const
    <tokens:{<it.name> = <it.type>;}; separator="\n"> public
  // delegates
    <grammar.delegates: {g|g<delegateName()>: I<superClass>; {g.recognizerName}>}}; separator="\n"> public
  // delegators
    <grammar.delegators: {g|g<delegateName()>: Pointer; {g.recognizerName}>}; separator="\n"> <last(grammar.delegators):{g|gParent: Pointer; {g.recognizerName}>}> <scopes: {<if(it.isDynamicGlobalScope)> <globalAttributeScopeDeclaration(scope=it)> <endif>}>
<@members>

<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public
constructor Create(const AInput: <inputStreamType><grammar.delegators:{g|; const A<g:delegateName()>:
IBaseRecognizer{<g.recognizerName>}>}); overload;
constructor Create(const AInput: <inputStreamType>; const AState:
IRecognizerSharedState<grammar.delegators:{g|; const A<g:delegateName()>:
IBaseRecognizer{<g.recognizerName>}>}); overload;

@end
protected
{ IBaseRecognizer }
function GetTokenNames: TStringArray; override;
function GetGrammarFileName: String; override;
strict private
<actions.(actionScope).memberDeclarations>
<rules: {r | <genericParserRuleDeclaration(rule=r, ruleDescriptor=r.ruleDescriptor)>}>

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleDeclaration(ruleDescriptor)>}>
<synpreds:{p | <synpredDeclaration(p)>}; separator="\n">
<cyclicDFAs:cyclicDFADeclaration()>
strict private
FException: ERecognitionException;
FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
procedure InitializeCyclicDFAs;
<if(bitsets)>
public
class var
<bitsets:bitsetDecl(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>})>
public
class procedure InitializeBitsets; static;
<endif>
end;

implementation

uses
<grammar.delegates: {g|<g.recognizerName>,}; separator="\n">
<grammar.delegates: {g|<g.recognizerName>,}; separator="\n">
<actions.(actionScope).usesImplementation>
SysUtils,
StrUtils,
Math;
constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>; const AState: IRecognizerSharedState<grammar.delegators:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}}>; begin
Create(AInput, TRecognizerSharedState.Create<grammar.delegators:{g|, A<g:delegateName()>}>);
end;

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>; begin
inherited Create(AInput, AState);
<@membersConstructor>
</@end>

<parserCtorBody()>
<grammar.directDelegates:{g|<g:delegateName()> := T<g.recognizerName>.Create(Input, State<trunc(g.delegators):{p|, <p:delegateName()>}>, Self);}; separator="\n">
<grammar.indirectDelegates:{g | <g:delegateName()> := <g.delegator:delegateName()>.<g:delegateName()>;}; separator="\n">
:last(grammar.delegators):{g|gParent := Pointer(A<g:delegateName>(););}>
<rules: {r | <ruleAttributeScopeInit(scope=r.ruleDescriptor.ruleScope)> }>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif> }>
<actions.(actionScope).memberInitializations>
end;
<actions.(actionScope).memberImplementations>

<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleImplementation(ruleDescriptor)>}; separator="\n">
procedure T<grammar.recognizerName>.InitializeCyclicDFAs; begin
<cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self);}; separator="\n">
<cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler := DFA<dfa.decisionNumber>._SpecialStateTransition<endif> }; separator="\n”>
end;
<if(bitsets)>
class procedure T<grammar.recognizerName>.InitializeBitsets; begin
<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> }, words64=it.bits)>
end;
<endif>

<@membersImplementation>
</@end>

function T<grammar.recognizerName>.GetTokenNames: TStringArray; var I: Integer;
begin
SetLength(Result,Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES));
for I := 0 to Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES) - 1 do
   Result[I] := T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES[I];
end;

function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
   Result := '<fileName>'';
end;

<rules; separator="\n\n">
<synpreds:{p | <synpred(p)>>}
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
<if(bitsets)>
   initialization
   T<grammar.recognizerName>.InitializeBitsets;
<endif>
end.>>

deleagtedRuleDeclaration(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): I<returnType>();\n</if>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): <returnType>();\n</if>
<else>
procedure <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
</else>
<endif>
<endif>
>>

deleagtedRuleImplementation(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
function
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): I<returnType>();\n</if>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): <returnType>();\n</if>
<else>
procedure
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>\n</else>
<endif>
<endif>
>>
begin
   Result :=
   T<ruleDescriptor.grammar.recognizerName>({ruleDescriptor.grammar.delegateName()}.Implementor).<ruleDescriptor.name>({ruleDescriptor.parameterScope.attributes:[a|<a.name>; separator="", "">});
end;

<<
parserCtorBody() ::= <<
InitializeCyclicDFAs;
<if(memoize)>
<if(grammar.grammarIsRoot)>
State.RuleMemoCount := <length(grammar.allImportedRules)>+1;<\n> </index from 1..n !>
<endif>
<endif>
<grammar.delegators: {g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
labelType="Token", members=<{actions.parser.members}>):= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="object", superClass="TreeParser",
members=<{actions.treeparser.members}>), filterMode):= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock):= <<
// $ANTLR start "<ruleName>"
procedure
T<grammar.recognizerName>,<ruleName>__fragment({ruleDescriptor.parameterScope:parameterScope(scope=it)}) ;

---

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var
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleLabelDefVars()>
begin
<ruleLabelDefs()>
<if(trace)>
TraceIn('<ruleName>_fragment', <ruleDescriptor.index>);
try
 <block>
finally
 TraceOut('<ruleName>_fragment', <ruleDescriptor.index>);
end;
<else>
 <block>
<endif>
end;
// $ANTLR end "<ruleName>" 
>>
synpredDecl(name) ::= <<
SynPredPointer <name>;<
>>
synpred(name) ::= <<
function T<grammar.recognizerName>.<name>: Boolean;
var
 Start: Integer;
 Success: Boolean;
begin
 State.Backtracking := State.Backtracking + 1;
#@start()#
 Start := Input.Mark;
try
 <name>_fragment(); // can never throw exception
except
 on RE: ERecognitionException do
  WriteLn('Impossible: ' + RE.ToString);
end;
 Success := not State.Failed;
Input.Rewind(Start);
#@stop()#
 State.Backtracking := State.Backtracking - 1;
State.Failed := False;
Result := Success;
end;<
>>
lexerSynpred(name) ::= <<
   <synpred(name)>
>>

lexerSynpredDeclaration(name) ::= <<
   function <name>: Boolean;
   procedure <name>_fragment;
>>

synpredDeclaration(name) ::= <<
   function <name>: Boolean;
   procedure <name>_fragment;
>>

ruleMemoization(name) ::= <<
   <if(memoize)>
   if ((State.Backtracking > 0) and AlreadyParsedRule(Input, <ruleDescriptor.index>)) then
     Exit(<ruleReturnValue()>);
   <endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
   <if(backtracking)>
   if (State.Failed) then Exit(<ruleReturnValue()>);
   <endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
   <if(backtracking)>
   if (State.Backtracking > 0) then
     begin
       State.Failed := True;
       Exit(<ruleReturnValue()>);
     end;
   <endif>
>>

genericParserRuleDeclaration(rule, ruleDescriptor) ::= <<
   <if(ruleDescriptor.isSynPred)>
   <else>
   <ruleAttributeScopeDeclaration(scope=ruleDescriptor.ruleScope)>
   <returnScopeDeclaration(scope=ruleDescriptor.returnScope)>
   public
   <if(ruleDescriptor.hasMultipleReturnValues)>
   function <rule.ruleName>: I<returnType()>
   <else>
   <if(ruleDescriptor.hasSingleReturnValue)>
   function <rule.ruleName>: <returnType()>
   <else>
   procedure <rule.ruleName>
   <returnScopeDeclaration(scope=ruleDescriptor.returnScope)>
   <else>
   <ruleAttributeScopeDeclaration(scope=ruleDescriptor.ruleScope)>
   public
   <if(ruleDescriptor.hasMultipleReturnValues)>
   function <rule.ruleName>: I<returnType()>
   <else>
   <if(ruleDescriptor.hasSingleReturnValue)>
   function <rule.ruleName>: <returnType()>
   <else>
   procedure <rule.ruleName>
/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName, ruleDescriptor, block, emptyRule, description, exceptions, finally, memoize) ::= <<
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
  <returnScope(scope=ruleDescriptor.returnScope)>
  // $ANTLR start "<ruleName>"
  (* <fileName>:<description> *)
  <if(ruleDescriptor.hasMultipleReturnValues)>
  function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): I<returnType()>
  <else>
  if(ruleDescriptor.hasSingleReturnValue)>
  function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): <returnType()>
  <else>
  procedure T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
  "}\n  <endif>
  <endif>
  <endif>
  >>

// $ANTLR end "<ruleName>"

/* The following rules are defined in terms of the incoming lexer tokens */

var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal: I<returnType>();<ln>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
RetVal: <returnType>();<ln>
<else>
<endif>
<endif>
<endif>
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleDeclarationVars()>
<ruleLabelDefVars()>
begin
Locals.Initialize;
try
<if(trace)>TraceIn('<ruleName>', <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
</preamble()>
try
try
<ruleMemoization(name=ruleName)>
</block>
<ruleCleanUp()>
</(ruleDescriptor.actions.after):execAction()>
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><
>}
<else>
<if(!emptyRule)
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
except
on RE: ERecognitionException do
begin
ReportError(RE);
Recover(Input,RE);
<setErrorReturnValue()>
end;<ln>
catch(decl, action) ::= <<
catch (<e.decl>)
{
  <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal := T<returnType()>.Create;
RetVal.Start := Input.LT(1);<
><else>
<ruleDescriptor.returnScope.attributes:{ a |
  <a.name> := <if(a.initValue)><a.initValue><else><initValue(a.type)></endif>; }
  >&
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex := Input.Index();
<endif>
>>

ruleDeclarationVars() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
  <a.name>: <a.type>;
  }
> &
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex: Integer;
<endif>
ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {<it>Stack.Push(T<it>Scope.Create);}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>Stack.Push(T<it.name>Scope.Create);}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {<it>Stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>Stack.Pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels: {<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels: {list_<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.ruleListLabels: ruleLabelDef(label=it); separator="\n">
>>

ruleLabelDefVars() ::= <<
<ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels, ruleDescriptor.ruleLabels: {<it.label.text>: I<labelType>;}; separator="\n">
<ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels, ruleDescriptor.ruleListLabels: {list_<it.label.text>: IList<IANTLRInterface>;}; separator="\n">
<ruleDescriptor.ruleListLabels: ruleLabelDefVar(label=it); separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels, ruleDescriptor.ruleLabels]
 :{<it.label.text> := nil;}; separator="\n"
>
<ruleDescriptor.charLabels: {int <it.label.text>}; separator="\n">
<ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels, ruleDescriptor.ruleListLabels]
 :{List_<it.label.text> := nil;}; separator="\n"
>
>>

lexerRuleLabelDefDeclarations() ::= <<
<ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels, ruleDescriptor.ruleLabels]
 :{<it.label.text>: I<labelType>;}; separator="\n"
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
  // $ANTLR start "<ruleName>"
  <ruleDescriptor.parameterScope>
  procedure
  T<grammar.recognizerName>.m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
TokenType, Channel: Integer;
Alt: array [0..<grammar.numberOfDecisions> ] of Integer;
<lexerRuleLabelDefDeclarations()>
begin
Locals.Initialize;
try
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
  <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  try
  <if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><in>
  <else>
    TokenType := <ruleName>;
    Channel := DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    State.TokenType := TokenType;
    State.Channel := Channel;
    <(ruleDescriptor.actions.after):execAction()>
  <endif>
  finally
  <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeCleanUp()>
  <memoize()>
  end;
finally
Locals.Finalize;
end;
end;
// $ANTLR end "<ruleName>"

/** How to generate code for the implicitly-defined lexer grammar rule *
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
procedure T<grammar.recognizerName>.mTokens;

var
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
begin
<block>
end;

procedure T<grammar.recognizerName>.DoTokens;
begin
mTokens;
end;
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
Alt[<decisionNumber>] := <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
case Alt[<decisionNumber>] of
<alts:altSwitchCase()>
end;
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
Alt[<decisionNumber>] := <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
case Alt[<decisionNumber>] of
<alts:altSwitchCase()>
end;
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
```plaintext
/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postal()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
FCnt[decisionNumber] := 0;
<decls>
<@preloop()>
while (True) do
begin
Alt[decisionNumber] := maxAlt;
<@predecision()>
<decision>
<@postdecision()>
case Alt[decisionNumber] of
<alts:altSwitchCase()>
else
begin
if (FCnt[decisionNumber] >= 1) then
    Break;
<ruleBacktrackFailure()>;
raise EEarlyExitException.Create(decisionNumber, Input);
<@earlyExitException()>
end;
end;
Inc(FCnt[decisionNumber]);
end;
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (...)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@preloop()>
```
while (True) do
begin
    Alt[<decisionNumber>] := <maxAlt>;
    <$>predecision()$>
    <$>decision$>
    <$>postdecision()$>
    case Alt[<decisionNumber>] of
    $<$altSwitchCase()$>
    else
        Break;
    end;
end;
$<$@postloop()$>

closureBlockSingleAlt := closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
*  so we can just use the normal block template */
optionalBlock ::= block
optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
    <$i>: <$>prealt()$>
    <$it>$<$\n$>
$>$

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    (* <$fileName>:<$description> *)
begin
    <$>declarations()$>
    <$elements:element()$>
    <$rew$>
    <$>cleanup()$>
end;
$>$

/** What to emit when there is no rewrite. For auto build
*  mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
    @$prematch()$
    <it.el>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
    if(label) <<label> := endif>Match(Input, <token>,
    FOLLOW_<token>_in_<ruleName><elementIndex>)<if(label) as
    I<labelType> endif>;\n    <checkRuleBacktrackFailure()>{
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
    <tokenRef(...)>
    <listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
    if (list_<label> = nil) then list_<label> := TList\ANTLRInterface\>.Create;
    list_<label>.Add(<elem>);\n
>>

/** match a character */
charRef(char,label) ::= <<
    if(label) <<label> := endif>Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
    if(label) <<label> := endif>MatchRange(<a>, <b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
    if(label) <<label> <if(LEXER)>

---

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<label> := Input.LA(1);\n</label>
<else>
<label> := Input.LT(1) as I<labelType>;\n</label>
<endif>
<endif>
if (<<>) then
begin
Input.Consume;
<postmatchCode>
<if(!LEXER)>
State.ErrorRecovery := False;<endif>
<if(backtracking)>State.Failed := False;<endif>
end
else
begin
<ruleBacktrackFailure()>
FException := EMismatchedSetException.Create(nil, Input);
<@mismatchedSetException()>
<if(LEXER)>
Recover(FException);
raise FException;\n</if>
<else>
raise FException;
<! use following code to make it recover inline; remove throw mse;
RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);!
@end
end;\n>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<<
<matchSet(...)>
<listLabel(elem=label,...)>>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<<
<if(label)>
Locals.AsInteger[\'<label>Start\'] := CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger[\'<label>Start\'], CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()>
<endif>
>>
wildcard(label,elementIndex) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>
wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> := <if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<else>
<if(scope)>T<scope.recognizerName>(IANTLRObject(<scope:delegateName()>).Implementor).<endif><rule.name
>(<args; separator=", ">);<\n>
<endif>
State.FollowingStackPointer := State.FollowingStackPointer - 1;
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>

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A lexer rule reference.
* 
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
* /
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
  <if(label)>
    Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
    <if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=', '>);<checkRuleBacktrackFailure()>
  <label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
    Locals.AsInteger['<label>Start<elementIndex>'], CharIndex-1);
  <else>
    <if(scope)>(<scope:delegateName()>.Implementor as T<scope.recognizerName>).<endif>m<rule.name>(<args; separator=', '>); <checkRuleBacktrackFailure()>
  <endif>
>>

lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
  <lexerRuleRef(....)>
  <listLabel(elem=label,....)> 
>>

lexerMatchEOF(label,elementIndex) ::= <<
  <if(label)>
    Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
    Match(EOF); <checkRuleBacktrackFailure()>
    Locals['<label>'] := TCommonToken.Create(Input, EOF, TToken.DEFAULT_CHANNEL,
    Locals.AsInteger['<label>Start<elementIndex>'], CharIndex-1);
  <else>
    Match(EOF); <checkRuleBacktrackFailure()>
  <endif>
>>

tree(root, actionsAfterRoot, children, nullableChildList,
  enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList())>
    if (Input.LA(1) = TToken.DOWN) then
    begin
      Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
  </if>
>>
// F i x e d  D F A  (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
  <edges; separator="\nelse ">
  else
    begin
      <if(eotPredictsAlt)
       Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
      <else>
        <ruleBacktrackFailure()>
        raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
      <endif>
      end;
    >>

/** Same as a normal DFA state except that we don't examine lookahead
*  for the bypass alternative. It delays error detection but this
*  is faster, smaller, and more what people expect. For (X)? people
*  expect "if ( LA(1)==X ) match(X);" and that's it.
*/

dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
  <edges; separator="\nelse ">
  >>

/** A DFA state that is actually the loopback decision of a closure
*/
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);
<edges; separator="\nelse ">
<if(eotPredictsAlt>>
Alt[<decisionNumber>] := <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
begin
Alt[<decisionNumber>] := <eotPredictsAlt>;
end;
<endif>
<endif>
>>
/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "Alt[<decisionNumber>] := <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates> and (<predicates>)<endif>) then
begin
<targetState>
end ; !no ; here !>
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
<edges; separator="\n>
<if(eotPredictsAlt>
Alt[<decisionNumber>] := <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
else
begin
<if(eotPredictsAlt>
Alt[<decisionNumber>] := <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
}}
### Cyclic DFA

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/

dfaDecision(decisionNumber, description) ::= <<
Alt[<decisionNumber>] := FDFA<decisionNumber>.Predict(Input);
>>

/* Dump DFA tables. */
cyclicDFADeclaration(dfa) ::= <<
strict protected
type
TDFA<dfa.decisionNumber> = class(TDFA)
protected
{ IDFA }

```
function Description: String; override;
public
constructor Create(const ARecognizer: IBaseRecognizer);
end;
var
FDFA<dfa.decisionNumber>: IDFA;
<if(dfa.specialStateSTs)>
strict protected
function DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer;
const AInput: IIntStream): Integer;<endif>
>>
cyclicDFA(dfa) ::= <<
{ T<grammar.recognizerName>.TDFA<dfa.decisionNumber> }
constructor T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Create(const ARecognizer:
IBaseRecognizer);
const
DFA<dfa.decisionNumber>_EOT = '<dfa.javaCompressedEOT; wrap="'+\n '">';
DFA<dfa.decisionNumber>_EOF = '<dfa.javaCompressedEOF; wrap="'+\n '">';
DFA<dfa.decisionNumber>_MIN = '<dfa.javaCompressedMin; wrap="'+\n '">';
DFA<dfa.decisionNumber>_MAX = '<dfa.javaCompressedMax; wrap="'+\n '">';
DFA<dfa.decisionNumber>_ACCEPT = '<dfa.javaCompressedAccept; wrap="'+\n '">';
DFA<dfa.decisionNumber>_SPECIAL = '<dfa.javaCompressedSpecial; wrap="'+\n '">';
DFA<dfa.decisionNumber>_TRANSITION: array [0..<length(dfa.javaCompressedTransition)>-1] of String = (
<dfa.javaCompressedTransition:{s|'<s; wrap="'+\n'">'}; separator=",\n">);
begin
inherited Create;
Recognizer := ARecognizer;
DecisionNumber := <dfa.decisionNumber>;
EOT := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOT);
EOF := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOF);
Min := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MIN);
Max := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MAX);
Accept := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_ACCEPT);
Special := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_SPECIAL);
Transition := TDFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_TRANSITION);
end;
function T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Description: String;
begin
Result := '<dfa.description>';
end;<\n>
<if(dfa.specialStateSTs)>
function T<grammar.recognizerName>.DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S:
Integer;
const AInput: IIntStream): Integer;
var

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Locals: TLocalStorage;
<if(LEXER)>
Input: IIntStream;
<endif>
<if(PARSER)>
Input: ITokenStream;
<endif>
<if(TREE_PARSER)>
Input: ITreeNodeStream;
<endif>
_S: Integer;
NVAE: ENoViableAltException;
begin
Result := -1;
Locals.Initialize;
try
<if(LEXER)>
Input := AInput;
<endif>
<if(PARSER)>
Input := AInput as ITokenStream;
<endif>
<if(TREE_PARSER)>
Input := AInput as ITreeNodeStream;
<endif>
_S := S;
case S of
  <dfa.specialStateSTs:{state | <i0>: begin<! compressed special state numbers 0..n-1 !>
  <state> <\n>   end;}; separator="\n">
end;
<if(backtracking)>
if (State.Backtracking > 0) then
begin
  State.Failed := True;
  Exit(-1);
end;<\n>
<endif>
NVAE := ENoViableAltException.Create(DFA.Description, <dfa.decisionNumber>, _S, Input);
DFA.Error(NVAE);
raise NVAE;
finally
  Locals.Finalize;
end;
end;<\n>
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.

*/
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(1);<\n><if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
Locals.AsInteger['index<decisionNumber>_<stateNumber>'] := Input.Index;
Input.Rewind;<\n><endif>
S := -1;
<edges; separator=";">
<if(semPredState)> <! return input cursor to state before we rewound !>
Input.Seek(Locals.AsInteger['index<decisionNumber>_<stateNumber>']);<\n><endif>
if (S >= 0) then
  Exit(S);
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
  S := <targetStateNumber>
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
S := <targetStateNumber>;<\n><endif>
if ($ >= 0) then
  Exit($);
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "((<first(operands)>)<rest(operands):{o | or (<o>)}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "FLA[<decisionNumber>,<stateNumber>] = <atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.

```plaintext
isolatedLookaheadTest(atom, k, atomAsInt) ::= "Input.LA(<k>) = <atomAsInt>"

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <<
(FLA[decisionNumber, stateNumber] \>= lowerAsInt) and (FLA[decisionNumber, stateNumber] \<= upperAsInt)
>>

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "(Input.LA(<k>) \>= lowerAsInt) and (Input.LA(<k>) \<= upperAsInt)"

setTest(ranges) ::= "<ranges; separator=\"\") or (\")"

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
<scope.name>Stack := TStackList<I<scope.name>Scope>.Create;<
<endif>
>>

globalAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>
strict protected
type
I<scope.name>Scope = interface(IANTLRObject)
end;
T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
protected
<scope.attributes:{<it.name>: <it.type>;}; separator="\n" end;
strict protected
<scope.name>Stack: IStackList<I<scope.name>Scope>;
<endif>
>>

ruleAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>
strict protected
type
I<scope.name>Scope = interface(IANTLRObject)
end;
T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
protected
<scope.attributes:{<it.name>: <it.type>;}; separator="\n" end;
strict protected
<scope.name>Stack: IStackList<I<scope.name>Scope>;

```
ruleAttributeScope(scope) ::= "" <<
! protected Stack <scope.name>Stack = new Stack();" />
>>

ruleAttributeScopeInit(scope) ::= "" <<
<if(scope)>
<scope.name>Stack := TStackList\<I<scope.name>Scope\>.Create;</n>
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= "" <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor:returnStructName()> !
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
<! Pointer/void !>
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
* values.
*/
ruleLabelType(referencedRule) ::= "" <<
<if(referencedRule.hasMultipleReturnValues)>
I<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= "" <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".

```csharp
/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> := <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;\n>>
```

```csharp
ruleLabelDefVar(label) ::= <<
<label.label.text> : <ruleLabelType(referencedRule=label.referencedRule)>;
>>
```

```csharp
/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
{ T<ruleDescriptor:returnStructName()> } 
@if(ruleDescriptor.hasMultipleReturnValues)
public
type
T<ruleDescriptor:returnStructName()> =
class(T<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope, I<ruleDescriptor:returnStructName()>)
@if(ruleDescriptor.hasMultipleReturnValues)
<scope.attributes:{public <it.decl>;}; separator="\n"> 
@if(ruleDescriptor.hasMultipleReturnValues)
<@ruleReturnMembers()> 
@if(ruleDescriptor.hasMultipleReturnValues)
@end;
<@ruleReturnMembers()> 
@if(ruleDescriptor.hasMultipleReturnValues)
<scope.attributes:{ <it.decl> }; separator="", separator=""> 
@if(ruleDescriptor.hasMultipleReturnValues)
<@ruleReturnMembers()> 
@if(ruleDescriptor.hasMultipleReturnValues)
>>&gt;
```

```csharp
parameterScope(scope) ::= <<
<scope.attributes:{ <it.decl> }; separator="", separator=""> 
>>&gt;
```

```csharp
parameterAttributeRef(attr) ::= "<attr.name>" 
parameterSetAttributeRef(attr,expr) ::= "<attr.name> := <expr>";"
```

```csharp
scopeAttributeRef(scope,attr,index,negIndex) ::= <<
```
```plaintext
if(negIndex)
    (scope)Stack[scope.Count-negIndex-1] as T<scope>Scope).<attr.name>
else
if(index)
    (scope)Stack[index] as T<scope>Scope).<attr.name>
else
    (scope)Stack.Peek.Implementor as T<scope>Scope).<attr.name>
endif
endif
>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
if(negIndex)
    (scope)Stack[scope.Count-negIndex-1] as T<scope>Scope).<attr.name> := <expr>;\nelse
if(index)
    (scope)Stack[index] as T<scope>Scope).<attr.name> := <expr>;\nelse
    (scope)Stack.Peek.Implementor as T<scope>Scope).<attr.name> := <expr>;\nendif
endif
>>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>Stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
if(referencedRule.hasMultipleReturnValues)
    (IfThen(Assigned(<scope>),Def(<scope>).<attr.name>,<initValue(attr.type)>))
else
    <scope>
endif
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
if(ruleDescriptor.hasMultipleReturnValues)
    RetVal.<attr.name>
else
    <attr.name>
endif
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
```
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal.<attr.name> := <expr>;
<else>
[attr.name] := <expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
tokenLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
tokenLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(Def(<scope>).CharPositionInLine)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
tokenLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
tokenLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

ruleLabelPropertyRef_start(scope,attr) ::= "(IfThen(Assigned(<scope>), Def(<scope>).Start, nil) as I<labelType>)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(Def(<scope>).Stop as I<labelType>)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(Def(<scope>).Tree as I<ASTLabelType>)"
ruleLabelPropertyRef_text(scope,attr) ::= "<scope>_tree"
ruleLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

<if(TREE_PARSER)>
IfThen(Assigned(<scope>), Input.TokenStream.ToString(
  Input.TreeAdaptor.GetTokenStartIndex(Def(<scope>).Start),
  Input.TreeAdaptor.GetTokenStopIndex(Def(<scope>).Start)), '')
<else>
IfThen(Assigned(<scope>), Input.ToString(
  (Def(<scope>).Start) as IToken,(Def(<scope>).Stop) as IToken), '')
<endif>

ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(IfThen(Assigned(<scope>),Def(<scope>).CharPositionInLine,-1))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "\(\text{RetVal.Start as I<labelType>}\)"
rulePropertyRef_stop(scope,attr) ::= "\(\text{RetVal.Stop as I<labelType>}\)"
rulePropertyRef_tree(scope,attr) ::= "\(\text{RetVal.Tree as I<ASTLabelType>}\)"
rulePropertyRef_text(scope,attr) ::= 
  
  \(<\text{if(TREE_PARSER)>}\>
  \text{Input.TokenStream.ToString(}\>
  \text{Input.TreeAdaptor.GetTokenStartIndex(RetVal.Start),}\>
  \text{Input.TreeAdaptor.GetTokenStopIndex(RetVal.Start))}\>
  \<\text{else}>\>
  \text{Input.ToString(RetVal.Start as IToken,Input.LT(-1))}\>
  \<\text{endif}>\>
  \>
rulePropertyRef_st(scope,attr) ::= "\text{RetVal.ST}"
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
  <name> := TBitSet.Create([<words64: {<it>};separator="","}];<in>
>>

bitsetDecl(name) ::= <<
  <name>: IBitSet;<in>
>>

codeFileExtension() ::= ".pas"

true() ::= "True"
false() ::= "False"

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/Java/ASTParser.stg
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/*
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/** Templates for building ASTs during tree parsing.
   *
   * Deal with many combinations. Dimensions are:
   * Auto build or rewrite
   * no label, label, list label (label/no-label handled together)
   * child, root
   * token, set, rule, wildcard
   *
   * Each combination has its own template except that label/no label
   * is combined into tokenRef, ruleRef, ...
   */
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
_First[0] := nil;
_Last := nil;
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
_First, _Save_Last: array [0..63] of I<ASTLabelType>;
_Last: I<ASTLabelType>;
>>

/** What to emit when there is no rewrite rule. For auto build
   * mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
  if (backtracking) if (State.Backtracking = 0) then
  begin endif
  if (rewriteMode)
    RetVal.Tree := _First[0] as I<ASTLabelType>;
    if (Adaptor.GetParent(RetVal.Tree) <> nil) and (Adaptor.IsNil(Adaptor.GetParent(RetVal.Tree))) then
      RetVal.Tree := Adaptor.GetParent(RetVal.Tree) as I<ASTLabelType>;
    endif
  if (backtracking) end; endif
>>

/* match ^(root children) in tree parser; override here to
 * add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
     enclosingTreeLevel, treeLevel) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  begin
    _Save_Last[<treeLevel>] := _Last;
    _First[<treeLevel>] := nil;
    if (!rewriteMode)
      Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
    endif
    root:element()
    if (rewriteMode)
      if (backtracking) if (State.Backtracking = 0) then endif
      if (root.el.rule)
        if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>.Tree;
        else
          if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>;
        endif
      endif
      actionsAfterRoot:element()
    endif
    if (nullableChildList)
      if (Input.LA(1) = TToken.DOWN) then
        begin
          Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure>()
          children:element()
          Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure>()
        end;
      else
        Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure>()
        children:element()
        Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure>()
      endif
    endif
    if (rewriteMode)
      Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
  endif
>>
// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add * setting of _last */
tokenRefBang(token,label,elementIndex) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)> >>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)> <if(!rewriteMode)> <if(backtracking)> if (State.Backtracking = 0) then begin<
<endif> <if(hetero)> <label>_tree := T<hetero>.Create(<label>); <else> <label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>; <endif><
Adaptor.AddChild(Root[<treeLevel>], <label>_tree); <if(backtracking)> end; <endif> <else> <! rewrite mode !> <if(backtracking)>if (State.Backtracking = 0) then <endif> if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>; <endif> <endif> >>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)> <listLabel(elem=label,...)> >>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
>Last := _Save_Last[<treeLevel>];
end;<
>>
if (State.Backtracking = 0) then
begin
  if (hetero)
  begin
    _tree := T<hetero>.Create(<label>);
  end
  else
  begin
    _tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
  end
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
end;
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end;
matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
(if(!rewriteMode)
(if(backtracking)>if (State.Backtracking = 0) then begin <endif>
(if(hetero)
<_label>_tree := T<hetero>.Create(_label);
<else>
<_label>_tree := Adaptor.DupNode(_label) as I<ASTLabelType>; 
<endif>
<endif>
Root[<treeLevel>] := Adaptor.BecomeRoot(_label>_tree, Root[<treeLevel>]) as I<ASTLabelType>; 
<if(backtracking)>end;<endif>
<endif>
}
)>;
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(!rewriteMode)>
Adaptor.AddChild(Root[<treeLevel>], <label>.Tree); 
<else> <! rewrite mode !>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>.Tree; 
<endif>
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)> 
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[<treeLevel>] := Adaptor.BecomeRoot(<label>.Tree, Root[<treeLevel>]) as I<ASTLabelType>; 
<if(backtracking)>end;<endif>
<endif>
/** ^{(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
   <ruleRefRuleRoot(...>)
   <listLabel(elem=label".Tree",...>)
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
   _Last := Input.LT(1) as I<ASTLabelType>;
   <super.ruleRefTrack(...>)
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
   _Last := Input.LT(1) as I<ASTLabelType>;
   <super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
   _Last := Input.LT(1) as I<ASTLabelType>;
   <super.ruleRefRuleRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
   _Last := Input.LT(1) as I<ASTLabelType>;
   <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to */
*  change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<
   <if(hetero)>
   T<hetero>.Create((Locals["Stream_<token>"] as IRewriteRuleElementStream).NextNode)
   <else>
   (Locals["Stream_<token>"] as IRewriteRuleElementStream).NextNode
   <endif>
>>
ruleCleanUp() ::= <<
   <super.ruleCleanUp()>
   <if(!rewriteMode)>
   <if(backtracking)>

---

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if (State.Backtracking = 0) then
begin
  \texttt{RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I\langle ASTLabelType\rangle;}
end;
\texttt{<endif>}
\texttt{<endif>}
\texttt{<endif>}
\texttt{>>}

**Templates for building ASTs during normal parsing.**
*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite

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---

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* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations.
*/
group ASTParser;

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,hetero,elementIndex) ::= <<
<super.tokenRef(...)> 
<if(backtracking)>if ( backtracking == 0 ) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
[treeAdaptor addChild:_<label>_tree toTree:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)">"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,hetero,elementIndex) ::= <<
<super.tokenRef(...)> 
<if(backtracking)>if ( backtracking == 0 ) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
root_0 = (<ASTLabelType>)[treeAdaptor makeNode:_<label>_tree parentOf:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex) ::= <<
<tokenRefBang(...)> 
<listLabel(elem=label,...)> 
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRef(...)> 
<listLabel(elem=label,...)> 
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

// TODO: add support for heterogeneous trees

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={
<if(backtracking)>if (backtracking == 0) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
[treeAdaptor addChild:_<label>_tree toTree:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
})
}}>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(…)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|…|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(backtracking)>if (backtracking == 0) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
root_0 = (<ASTLabelType>)[treeAdaptor makeNode:_<label>_tree parentOf:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
})
}}>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/** rule! is same as normal rule ref */
ruleRefBang(rule, label, elementIndex, args, scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule, label, elementIndex, args, scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (backtracking == 0) <<
<super.ruleRef(...)>
<if(backtracking)>if (backtracking == 0) root_0 = (<ASTLabelType>)[treeAdaptor makeNode:[_<label> tree] parentOf:root_0];
<if(backtracking)>}
<if(backtracking)>}

/** x+=rule when output=AST */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)>
<listLabel(elem=""+label+" tree",...)

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=""+label+" tree",...)

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=""+label+" tree",...)

// WILDCARD AST
wildcard(label, elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (backtracking == 0) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
[treeAdaptor addChild:_<label>_tree toTree:root_0];
[_<label>_tree release];
<if(backtracking)>} <endif>
<if(backtracking)>} <endif>

wildcardBang(label, elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(label, elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (backtracking == 0) {<endif>

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createNodeFromToken(label, hetero) ::= <<
  <if(hetero)>
  new hetero(label) ! new MethodNode(IDLabel) !> 
  <else>
  (<ASTLabelType>) adaptor.create(label) 
  </endif>
>>

Found in path(s):
  * /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-target/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/ObjC/ASTParser.stg

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*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/
group ST;

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr3.ST;
using Antlr3.ST.Language;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
public StringTemplate st;
public object getTemplate() { return st; }
public override string ToString() { return (st==null) ? null : st.ToString(); }
>>

@genericParser.members() ::= <<
<@super.members()>
protected StringTemplateGroup templateLib = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );

public StringTemplateGroup TemplateLib
{
    get { return templateLib; }
    set { templateLib = value; }
}

//*** allows convenient multi-value initialization:
//  * "new STAttrMap().put(...).put("
//  */
//public static class STAttrMap extends HashMap {
//  public STAttrMap put(String attrName, object value) {
//    super.put(attrName, value);
//    return this;
//  }
//  public STAttrMap put(String attrName, int value) {
//    super.put(attrName, new Integer(value));
//    return this;
//  }
//}
>>
// x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>  
  <listLabel(elem=label+".getTemplate()",...)>
>>

rewriteTemplate(alts) ::= <<
  // TEMPLATE REWRITE
  if (backtracking)
  
  
  else
  
  endif
>>

replaceTextInLine() ::= <<
  if (TREE_PARSER)
    ((TokenRewriteStream)input.TokenStream).replace(
      input.TreeAdaptor.GetTokenStartIndex(retval.start),
      input.TreeAdaptor.GetTokenStopIndex(retval.start),
      retval.st);
  else
    ((TokenRewriteStream)input).replace(
      ((IToken)retval.start).TokenIndex,
      input.LT(-1).TokenIndex,
      retval.st);
  endif
>>

rewriteTemplateAlt() ::= <<
  // <it.description>
  if (it.pred)
    if ( <it.pred>)
      retval.st = <it.alt>;
    \n
  
  else
  
    retval.st = <it.alt>;
  \n
  endif
>>
/** Invoke a template with a set of attribute name/value pairs. * Set the value of the rule’s template *after* having set * the attributes because the rule’s template might be used as * an attribute to build a bigger template; you get a self-embedded * template. */

rewriteExternalTemplate(name, args) ::= <<
templateLib.getInstanceOf("<name>"<if(args)>,
    new STAttrMap(){args:{a | .put("<a.name>", <a.value>्)}}
)<endif>>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr, args) ::= <<
templateLib.getInstanceOf(<expr><if(args)>,
    new STAttrMap(){args:{a | .put("<a.name>", <a.value>्)}}
)<endif>>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template>"<if(args)>,
    new STAttrMap(){args:{a | .put("<a.name>", <a.value>्)}}
)<endif>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
</action>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st, attrName, expr) ::= <<
    ((<st>).setAttribute("<attrName>",<expr>));
</st>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
    new StringTemplate(templateLib,<stringExpr>);
</stringTemplate>

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/CSharp3/ST.stg

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*/

/** Templates for building ASTs during normal parsing.
   *
   * Deal with many combinations. Dimensions are:
   * Auto build or rewrite
   * no label, label, list label (label/no-label handled together)
   * child, root
   * token, set, rule, wildcard
   *
   * The situation is not too bad as rewrite (->) usage makes ^ and !
   * invalid. There is no huge explosion of combinations.
   */
group ASTParser;

finishedBacktracking(block) ::= <<
  <if(backtracking)>
  if <actions.(actionScope).synpredgate>:
@ruleBody.setErrorReturnValue() ::= <<
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)> 
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)> 
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)> 
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>

---

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// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or rulerroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)})>})>})
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label> = self.input.LT(1)\n</endif>
<super.matchSet(..., postmatchCode={<finishedBacktracking({root_0 =
self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)})>})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)})>
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

//
/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)> 
<finishedBacktracking({ root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)> 
<listLabel(elem=label+".tree"....)> 
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)> 
<listLabel(elem=label+".tree"....)> 
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)> 
<listLabel(elem=label+".tree"....)> 
>>

// WILDCARD AST
wildcard(label,elementIndex) ::= <<
<super.wildcard(...)> 
<finishedBacktracking({ 
<label>._tree = self._adaptor.createWithPayload(<label>) 
self._adaptor.addChild(root_0, <label>._tree) 
})>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)»"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)> 
<finishedBacktracking({ 
<label>._tree = self._adaptor.createWithPayload(<label>) 
root_0 = self._adaptor.becomeRoot(<label>._tree, root_0) 
})>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
<hetero><label>) <! new MethodNode(IDLabel) !>

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<else>
    self._adaptor.createWithPayload(<label>)
<endif>
>>

ruleCleanUp() ::= <<
    <super.ruleCleanUp>()
    <finishedBacktracking({
        retval.tree = self._adaptor.rulePostProcessing(root_0)
        self._adaptor.setTokenBoundaries(retval.tree, retval.start, retval.stop)
    })>
>>

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/Python/ASTParser.stg
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/** Templates for building ASTs during tree parsing. */

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*/

/** Templates for building ASTs during tree parsing. */
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
    retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
>>

/** match ^^(root children) in tree parser; override here to
* add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    {_last = (<ASTLabelType>)_save_last_<treeLevel> = _last;
    <ASTLabelType> _first_<treeLevel> = null;
    <if(!rewriteMode)>
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
    <endif>
    <root:element()>
    <if(rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
    <if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
*  setting of _last
*/
tokenRefBang(token,label,elementIndex) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.tokenRef(...)
    >>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.tokenRef(...)
    <if(!rewriteMode)>
    <if(backtracking)>
    if ( <actions.(actionScope).synpredgate> ) {<endif>
    <if(hetero)>
    <label>_tree = new <hetero>(<label>;
    <else>
    <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
    <endif>
    <if(backtracking)>
    adaptor.addChild(root_<treeLevel>, <label>_tree);
    <endif>
    }<endif>
    <if(!rewriteMode)>
    <！ rewrite mode！>
```java
/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)
<label>
</label>
<label>_tree = <hetero>(<label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}
<<
/** Match ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)
<if(!rewriteMode>)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<hetero>
<label>_tree = new <hetero>(<label>);
<endif>
<_last = (<ASTLabelType>)input.LT(1);
if(!rewriteMode>)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
<<
/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)
<label>
</label>
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
<adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
<<
/** Match . wildcard and auto dup the node/subtree */
 wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)
<if(!rewriteMode>)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
<adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
<<
```
// SET AST

matchSet(s, label, hetero, elementIndex, postmatchCode) ::= <<
  _last = (<ASTLabelType>) input.LT(1);
  <super.matchSet(..., postmatchCode={
    <if(!rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
    <if(hetero)>
    <label>_tree = new <hetero>(<label>);
    <else>
    <label>_tree = (<ASTLabelType>) adaptor.dupNode(<label>);
    <endif>
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  </if>
  })>
>>

matchRuleBlockSet(s, label, hetero, elementIndex, postmatchCode.treeLevel="0") ::= <<
  <matchSet(...)> <noRewrite()> <! set return tree !>
>>

matchSetBang(s, label, elementIndex, postmatchCode) ::= <<
  _last = (<ASTLabelType>) input.LT(1);
  <super.matchSet(...)> 
>>

matchSetRuleRoot(s, label, hetero, elementIndex, debug) ::= <<
  <super.matchSet(..., postmatchCode={
    <if(!rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
    <if(hetero)>
    <label>_tree = new <hetero>(<label>);
    <else>
    <label>_tree = (<ASTLabelType>) adaptor.dupNode(<label>);
    <endif>
  root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
  <if(backtracking)>}<endif>
  }>
  }
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
  _last = (<ASTLabelType>) input.LT(1);
  <super.ruleRef(…)>>
  <if(backtracking)> if ( <actions.(actionScope).synpredgate> ) <endif>
  <if(!rewriteMode)>
    adaptor.addChild(root_<treeLevel>, <label>.getTree());
  </if>
  <else> <! rewrite mode !>
    if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
  </endif>
  >>

/** x+=rule auto construct */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRef(…)>>
  <listLabel(elem=label+".getTree()",...)>
  >>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule, label, elementIndex, args, scope) ::= <<
  _last = (<ASTLabelType>) input.LT(1);
  <super.ruleRef(…)>>
  <if(!rewriteMode)>
    <if(backtracking)> if ( <actions.(actionScope).synpredgate> ) <endif>
      root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
    </if>
  </endif>
  >>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRefRuleRoot(…)>>
  <listLabel(elem=label+".getTree()",...)>
  >>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule, label, elementIndex, args, scope) ::= <<
  _last = (<ASTLabelType>) input.LT(1);
  <super.ruleRefTrack(…)>>
  >>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  _last = (<ASTLabelType>) input.LT(1);
  <super.ruleRefTrackAndListLabel(…)>>
  >>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule, label, elementIndex, args, scope) ::= <<
  _last = (<ASTLabelType>) input.LT(1);
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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-targ-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/Java/ASTTreeParser.stg
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/** Templates for building ASTs during normal parsing.
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 * The situation is not too bad as rewrite (->) usage makes ^ and !
 * invalid. There is no huge explosion of combinations.
 */

group ASTParser;

@rule.setErrorReturnValue() ::= <<
RetVal.Tree := Adaptor.ErrorNode(Input, RetVal.Start as IToken, Input.LT(-1), RE) as I<ASTLabelType>;
>>

//-- TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>
if (State.Backtracking = 0) then begin
<un>
<endif>
<label>_tree := <createNodeFromToken(...)>
Adaptor.AddChild(Root[0], <label>_tree);
<if(backtracking)>

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/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
;if(backtracking)
if (State.Backtracking = 0) then
begin
<label>_tree := <createNodeFromToken(...)>
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>
;if(backtracking)
end;
<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={ <if(backtracking)>if (State.Backtracking = 0) then
<endif>Adaptor.AddChild(Root[0], <createNodeFromToken(...)>);})>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B[A|C]

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labelType>;<
<endif>
<super.matchSet(..., postmatchCode={ <if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] :=
Adaptor.BecomeRoot(<createNodeFromToken(...)>), Root[0]) as I<ASTLabelType>;})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0])
as I<ASTLabelType>;
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<label>.Tree","....>

listLabel(elem=label".Tree",....)
/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefBang(...)>
  <listLabel(elem=label+".Tree","...">)
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(elem=label+".Tree","...">)
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
  <super.wildcard(...)>
  <if(backtracking)>
  if (State.Backtracking = 0) then
  begin
  <endif>
  <label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
  Adaptor.AddChild(Root[0], <label>_tree);
  <if(backtracking)>
  end;
  <endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>>"

wildcardRuleRoot(label,elementIndex) ::= <<
  <super.wildcard(...)>
  <if(backtracking)>
  if (State.Backtracking = 0) then
  begin
  <endif>
  <label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
  Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
  <if(backtracking)>
  end;
  <endif>
>>

createNodeFromToken(label,hetero) ::= <<
  <if(hetero)>
  T<hetero>.Create(<label>) <! new MethodNode(IDLabel) !>
  <else>
Adaptor.CreateNode(<label>) as I<ASTLabelType>
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>
if (State.Backtracking = 0) then begin
<endif>
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
<if(!TREE_PARSER)>
Adaptor.SetTokenBoundaries(RetVal.Tree, RetVal.Start as IToken, RetVal.Stop as IToken);
<endif>
<if(backtracking)>
<un>end;
<endif>
>>

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-
sources/org/antlr/codegen/templates/Delphi/ASTParser.stg
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/*
/** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
group Dbg:

@outputFile.debugPreprocessor() ::= "#define ANTLR_DEBUG"

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
@if(grammar.grammarIsRoot)
public static readonly string[] ruleNames = new string[] {
    "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}>
};

private int ruleLevel = 0;
public int RuleLevel {
    get { return ruleLevel; }
    set { }
}
public void IncRuleLevel() { ruleLevel++; }
public void DecRuleLevel() { ruleLevel--; }
@if(profile)
<ctorForProfilingRootGrammar()>
#else
<ctorForRootGrammar()>
@endif
<ctorForPredefinedListener()>
@if(profile)
override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
public <name>(<inputStreamType> input) :
  this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState()) {
}

public <name>(<inputStreamType> input, int port, RecognizerSharedState state) :
  base(input, state) {
    <createListenerAndHandshake()>
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">  
    <@finally()> 
  }  
}

@parserCtorBody.initializeCyclicDFAs() ::= <<
InitializeCyclicDFAs(dbg);
>>

cTORforProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>(<inputStreamType> input) {
  this(input, new Profiler(null), new RecognizerSharedState());
}
public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state)  
: base(input, dbg, state) {
    Profiler p = (Profiler)dbg;
    p.setParser(this);
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|,
            <g:delegateName()>}>);}; separator="\n"}
    <@finally()>
} <\n>
>>

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
: base(input, dbg, state) {
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegators:{g|,
            <g:delegateName()>}>);}; separator="\n"}
} <\n>
>>

torForPredefinedListener() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg)
: <@superClassRef>base(input, dbg, new RecognizerSharedState())<@end> {
    <if(profile)>
        Profiler p = (Profiler)dbg;
        p.setParser(this);
    <endif>
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
        this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n"}
    <@finally()>
} <\n>
>>

createListenerAndHandshake() ::= <<
    <if(TREE_PARSER)>
        DebugEventSocketProxy dbg = new DebugEventSocketProxy(this, port, input.TreeAdaptor);
    <else>
        DebugEventSocketProxy dbg = new DebugEventSocketProxy(this, port, null);
    <endif>
    DebugListener = dbg;
    try
{  dbg.Handshake();
}
catch (IOException ioe)
{
    ReportError(ioe);
}
>
@genericParser.superClassName() ::= "Debug<@super.superClassName()>
"

@rule.preamble() ::= <<
try {
    dbg.EnterRule(GrammarFileName, "<ruleName>");
    if ( RuleLevel==0 ) {dbg.Comence();}
    IncRuleLevel();
    dbg.Location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);\n
    @lexer.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"
    @lexer.debugAddition() ::= ", dbg"
    @genericParser.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"
    @genericParser.debugAddition() ::= ", dbg"
}
}
finally {
    dbg.ExitRule(GrammarFileName, "<ruleName>");
    DecRuleLevel();
    if ( RuleLevel==0 ) {dbg.Terminate();}
}<\n
>>

@synpred.start() ::= "dbg.BeginBacktrack(state.backtracking);"

@synpred.stop() ::= "dbg.EndBacktrack(state.backtracking, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::= 
    "try { dbg.EnterSubRule(<decisionNumber>);<\n"

exitSubRule() ::= 
    " } finally { dbg.ExitSubRule(<decisionNumber>); }<\n"
enterDecision() ::= 
"try { dbg.EnterDecision(<decisionNumber>); }\n"

exitDecision() ::= 
"} finally { dbg.ExitDecision(<decisionNumber>); }\n"

enterAlt(n) ::= "dbg.EnterAlt(<n>);\n"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()> <enterDecision()>"
@block.postdecision() ::= "<exitDecision()>"
@block.postbranch() ::= "<exitSubRule()>"
@ruleBlock.predecision() ::= "<enterDecision()>"
@ruleBlock.postdecision() ::= "<exitDecision()>"
@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>"
@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>"
@positiveClosureBlock.preloop() ::= "<enterSubRule()>"
@positiveClosureBlock.postloop() ::= "<exitSubRule()>"
@positiveClosureBlock.predecision() ::= "<enterDecision()>"
@positiveClosureBlock.postdecision() ::= "<exitDecision()>"
@positiveClosureBlock.earlyExitException() ::= 
"dbg.RecognitionException(eee<decisionNumber>);\n"
@closureBlock.preloop() ::= "<enterSubRule()>"
@closureBlock.postloop() ::= "<exitSubRule()>"
@closureBlock.predecision() ::= "<enterDecision()>"
@closureBlock.postdecision() ::= "<exitDecision()>"
@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"
@element.prematch() ::= 
"dbg.Location(<it.line>,<it.pos>);"
@matchSet.mismatchedSetException() ::= 
"dbg.RecognitionException(mse);"

@dfaState.noViableAltException() ::= "dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

@dfaStateSwitch.noViableAltException() ::= 
"dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

dfaDecision(decisionNumber,description) ::= <<
try
{
  isCyclicDecision = true;
  <super.dfaDecision(...)>
}
catch (NoViableAltException nvae)
{
  dbg.RecognitionException(nvae);
  throw nvae;
}
>>

@cyclicDFA.dbgCtor() ::= <<
  public DFA<dfa.decisionNumber>(BaseRecognizer recognizer, IDebugEventListener dbg) : this(recognizer)
  {
    this.dbg = dbg;
  }
>>

@cyclicDFA.debugMember() ::= <<
  IDebugEventListener dbg;
>>

@cyclicDFA.errorMethod() ::= <<
  public override void Error(NoViableAltException nvae)
  {
    dbg.RecognitionException(nvae);
  }
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
  EvalPredicate(<pred>,”<description>”)
>>

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*/
/** Template overrides to add debugging to normal C output;
*  If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
group Dbg;

@genericParser.members() ::= <<
@if(grammar.grammarIsRoot)>
const char *
ruleNames[] =
{
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator="",">
};\n
@endf
@if(grammar.grammarIsRoot) <! grammar imports other grammar(s) !>

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static ANTLR3_UINT32 ruleLevel = 0;
static ANTLR3_UINT32 getRuleLevel()
{
    return ruleLevel;
}
static void incRuleLevel()
{
    ruleLevel++;
}
static void decRuleLevel()
{
    ruleLevel--;
}

<else> <! imported grammar !>
static ANTLR3_UINT32
getRuleLevel()
{
    return <grammar.delegators:{g| <g:delegateName()>}>->getRuleLevel();
}
static void incRuleLevel()
{
    <grammar.delegators:{g| <g:delegateName()>}>->incRuleLevel();
}
static void
decRuleLevel()
{
    <grammar.delegators:{g| <g:delegateName()>}>.decRuleLevel();
}
<endif>
<if(profile)>
// Profiling not yet implemented for C target
//
</if>
<if(grammar.grammarIsRoot)>
<ctorForPredefinedListener()>
<else>
<ctorForDelegateGrammar()>
<endif>

static ANTLR3_BOOLEAN
evalPredicate(p<name> ctx, ANTLR3_BOOLEAN result, const char * predicate)
{
    DBG->semanticPredicate(DBG, result, predicate);
    return result;
}<<
@genericParser.debugStuff() ::= <<

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 31524
CTORFORPROFILINGROOTGRAMMAR() ::= <<
>>

/** Basically we don't want to set any dbg listeners as root will have it. */
CTORFORELEGATEGRAMMAR() ::= <<
>>

CTORFORPREDEFINEDLISTENER() ::= <<
>>

CREATELISTENERANDHANDSHAKE() ::= <<
{
// DEBUG MODE code
//
PANTLR3_DEBUG_EVENT_LISTENER proxy;
proxy = antlr3DebugListenerNew();
proxy->grammarFileName = INPUT->tokenSource->strFactory->newStr8(INPUT->tokenSource->strFactory,
(pANTLR3_UINT8)ctx->getGrammarFileName());

@if(TREE_PARSER)>
proxy->adaptor = ADAPTOR;
@endif>
PARSER->setDebugListener(PARSER, proxy);

// Try to connect to the debugger (waits forever for a connection)
//
proxy->handshake(proxy);

// End DEBUG MODE code
//
}
>>

@RULE.PREAMBLE() ::= <<
DBG->enterRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
if ( getRuleLevel()==0 )
{
DBG->commence(DBG);
}
incRuleLevel();
DBG->location(DBG, <ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);
>>

@rule.postamble() ::= <<
DBG->location(DBG, <ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>"),
decRuleLevel();
if ( getRuleLevel()==0 )
{
DBG->terminate(DBG);
}
<<

@synpred.start() ::= "DBG->beginBacktrack(DBG, BACKTRACKING);"
@synpred.stop() ::= "DBG->endBacktrack(DBG, BACKTRACKING, success);"

// Common debug event triggers used by region overrides below
enterSubRule() ::= 
"DBG->enterSubRule(DBG, <decisionNumber>);";
exitSubRule() ::= 
"DBG->exitSubRule(DBG, <decisionNumber>);";
enterDecision() ::= 
"DBG->enterDecision(DBG, <decisionNumber>);";
exitDecision() ::= 
"DBG->exitDecision(DBG, <decisionNumber>);";
enterAlt(n) ::= "DBG->enterAlt(DBG, <n>);"

// Region overrides that tell various constructs to add debugging triggers
@block.predecision() ::= "<enterSubRule()> <enterDecision()>"
@block.postdecision() ::= "<exitDecision()>"
@block.postbranch() ::= "<exitSubRule()>"
@ruleBlock.predecision() ::= "<enterDecision()>"
@ruleBlock.postdecision() ::= "<exitDecision()>"
@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>"
@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>

@positiveClosureBlock.postloop() ::= "<exitSubRule()>

@positiveClosureBlock.predecision() ::= "<enterDecision()>

@positiveClosureBlock.postdecision() ::= "<exitDecision()>

@positiveClosureBlock.earlyExitException() ::= "DBG->recognitionException(DBG, EXCEPTION);<
>

@closureBlock.preloop() ::= "<enterSubRule()>

@closureBlock.postloop() ::= "<exitSubRule()>

@closureBlock.predecision() ::= "<enterDecision()>

@closureBlock.postdecision() ::= "<exitDecision()>

@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"

@element.prematch() ::= "DBG->location(DBG, <it.line>, <it.pos>);"

@matchSet.mismatchedSetException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

@newNVException.noViableAltException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

dfaDecision(decisionNumber,description) ::= <<
    alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,
    &cdfa<decisionNumber>);
    if  (HASEXCEPTION())
    {
        DBG->recognitionException(DBG, EXCEPTION);
        goto rule<ruleDescriptor.name>Ex;
    }
</checkRuleBacktrackFailure()>
>>

@cyclicDFA.errorMethod() ::= <<
    //static void
    //dfaError(p<name> ctx)
    //{
    //  DBG->recognitionException(DBG, EXCEPTION);
    //}
/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(ctx, <pred>, (const char *)"<description>")
>>

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*/
group ASTTreeParser;

/** match ^(root children) in tree parser; override here to
*  add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
{<ASTLabelType> root_<treeLevel> = [treeAdapator newEmptyTree];
```xml
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( [input LA:1] == ANTLRTokenTypeDOWN ) {
    [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
    
    [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
    
    [self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
    
    [root_<treeLevel> release];
} \n>
>

/** What to emit when there is no rewrite. For auto build *
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
    <if(rewriteMode)>retval.tree = (<ASTLabelType>)retval.start;<endif>
>>

// TOKEN AST STUFF

/** ID auto construct */
tokenRef(token,label,elementIndex) ::= <<
    <super.tokenRef(...)>
    <if(backtracking)>if ( state.backtracking==0 ) {<endif>
    <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
    <if(backtracking)>}<endif>
    <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
    <if(backtracking)>}
>}

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex) ::= <<
    <tokenRef(...)
    <listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex) ::= <<
    <super.tokenRef(...)
    <if(backtracking)>if ( state.backtracking==0 ) {<endif>
    <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
    root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
    <if(backtracking)>}<endif>
```
// RULE REF AST

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex) ::= <<
<tokenRefRuleRoot(...>)
<ListLabel(elem=label,....)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(....)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>adaptor.addChild(root_<treeLevel>, <label>.getTree());
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(....)>
<ListLabel(elem=label+".getTree()",....)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(....)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(....)>
<ListLabel(elem=label+".getTree()",....)>
>>

/** Streams for token refs are tree nodes now; override to */
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<
#error Heterogeneous tree support not implemented.
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

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 */

/** Template overrides to add debugging to AST stuff.  Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */

group ASTDbg;

parserMembers() ::= <<
// Implement this function in your helper file to use a custom tree adaptor
partial void InitializeTreeAdaptor();
protected DebugTreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor
get
return adaptor;

set

<if(gramar.gramarIsRoot)>
this.adaptor = new DebugTreeAdaptor(dbg, adaptor);
<else>
this.adaptor = (DebugTreeAdaptor) adaptor; // delegator sends dbg adaptor
<endif>

<grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>}

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port,
<TREE_PARSER>input.TreeAdaptor<else>adaptor<endif>);
DebugListener = proxy;
<inputStreamType> = new Debug<inputStreamType>( input, proxy );
try
proxy.Handshake();
} catch ( IOException ioe )
{ ReportError( ioe );
}
>>

@ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

@ctorForProfilingRootGrammar.finally() ::=<<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>
@ctorForPredefinedListener.superClassRef() ::= ": base( input, dbg )"

@ctorForPredefinedListener.finally() ::=<<
    <if(grammar.grammarIsRoot)><! don't create new adaptor for delegates !>
    ITreeAdaptor adap = new CommonTreeAdaptor();
    TreeAdaptor = adap;
    <endif>
>>

@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-targ-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-
sources/org/antlr/codegen/templates/CSharp3/ASTDbg.stg

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*/

/** Templates for building ASTs during normal parsing. */
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations.
*/

group ASTParser;

@rule.setErrorReturnValue() ::= <<
  // Conversion of the second argument necessary, but harmless
  retval.Tree = (<ASTLabelType>) adaptor.ErrorNode(input, (IToken)retval.Start, input.LT(-1), re);
  <! System.Console.WriteLine("<ruleName> returns " + ((CommonTree)retval.Tree).ToStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
  <super.tokenRef(...>)
  <if(backtracking)>
  if ( state.backtracking == 0 )
  {
  <endif>
  <label>_tree = <createNodeFromToken(...)>
  adaptor.AddChild(root_0, <label>_tree)
  <if(backtracking)>
  }
  <endif>
  >>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
  <super.tokenRef(...>)
  <if(backtracking)>
  if ( state.backtracking == 0 )
  {
  <endif>
  <label>_tree = <createNodeFromToken(...)>
  root_0 = (<ASTLabelType>) adaptor.BecomeRoot(<label>_tree, root_0)
  <if(backtracking)>
  }
/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefBang(...))>
  <listLabel(elem=label,...))>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...))>
  <listLabel(elem=label,...))>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
  <tokenRefRuleRoot(...))>
  <listLabel(elem=label,...))>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  <super.matchSet(..., postmatchCode=\{ <if(backtracking)>if ( state.backtracking == 0 )
  <endif>adaptor.AddChild(root_0, <createNodeFromToken(...)); \})\}>)
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...))>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...))>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)
matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
  <if(label)>
  <label>=(<labelType>)input.LT(1);<\n>
  <endif>
  <super.matchSet(..., postmatchCode={<if(backtracking)>if ( state.backtracking == 0 ) <endif>root_0 =
  (<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if ( state.backtracking == 0 ) <endif>adaptor.AddChild(root_0, <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if ( state.backtracking == 0 ) <endif>root_0 =
  (<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(elem=label+.Tree",...)
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefBang(...)>
  <listLabel(elem=label+.Tree",...)
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(elem=label+.Tree",...)
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
  <super.wildcard(...>

---
<if(backtracking)>
if ( state.backtracking == 0 )
{
<endif>
<label>_tree = (ASTLabelType)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>
}
<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>">

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if ( state.backtracking == 0 )
{
<endif>
<label>_tree = (ASTLabelType)adaptor.Create(<label>);
root_0 = (ASTLabelType)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>
}
<endif>
>>

createNodeFromToken(label,hetero) ::= <<
<hetero>
new <hetero>(<label>) <! new MethodNode(IDLabel) !>
<else>
(ASTLabelType)adaptor.Create(<label>)
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
<endif>
retval.Tree = (ASTLabelType)adaptor.RulePostProcessing(root_0);
<if(!TREE_PARSER)>
adaptor.SetTokenBoundaries(retval.Tree, (IToken) retval.Start, (IToken) retval.Stop);
<endif>
<if(backtracking)>
}
<endif>
>>
Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-target/antlr_3.2.0.wso2v1/repo/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/CSharp2/ASTParser.stg
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 */
group Cpp implements ANTLRCore;

cppTypeInitMap ::= [ 
  "int":"0",
  "long":"0",
  "float":"0.0",
  "double":"0.0",
  "bool":"false",
  "byte":"0",
  "short":"0",
  "char":"0",
]
default:"0" // anything other than an atomic type
]

// What we generate lexer/parser/treeparser, used a suffix in a few places
generatedType() ::= <<
  <if(LEXER)>Lexer<endif><if(PARSER)>Parser<endif><if(TREE_PARSER)>TreeParser<endif>
  >>

leadIn(type) ::= <<
  /* `file
   *
   * This <type> file was generated by ANTLR version <ANTLRVersion>
   *
   * - From the grammar source file : <fileName>
   * - On : <generatedTimestamp>
   <if(LEXER)>
   * - for the lexer : <name><
   <endif>
   <if(PARSER)>
   * - for the parser : <name><
   <endif>
   <if(TREE_PARSER)>
   * - for the tree parser : <name><
   <endif>
   *
   * Edit at your own peril.
   */
  >>

standardHeaders() ::= <<
  #include \antlr3/<generatedType().h>

  <if(profile)>
  #warning "No profiling support..."
  <endif>
  <if(TREE_PARSER)>
  #warning "No tree parsing yet..."
  <endif>
  >>

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
    docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass) ::= <<
<@includes>
#include "<name><headerFileExtension()>">
<@end>
<if(actions.(actionScope).header)>
// Header action start
<actions.(actionScope).header>
// Header action end
<endif>
</headerAction>
</tokenizer>

public:
<tokens:{static const tokenid_type <tokenPrefix()><it.name> = <it.type>;}; separator="n">
<scopesc: {if(it.isDynamicGlobalScope)> <globalAttributeScope(scope=it)> <endif}> }
<actions.lexer.members>

<name>(StreamType* input)
: antlr3::Lexer&lt;StreamType,TokenType,TokenBuilder&gt;(input)
{
}

<!if(filterMode)>

<!filteringNextToken()!>
<!endif!>

<rules; separator="\n\n">

// syn preds
<synpreds: {p | lexerSynpred(p)}> }

// cyclicdfa's
<cyclicDFAs: {dfa | DFA&lt;dfa.decisionNumber&gt; dfa&lt;dfa.decisionNumber&gt; = new
dFA&lt;dfa.decisionNumber&gt;(this); }; separator="\n">

// dfa tables..
]; // class <name><\n
>>

headerFile( LEXER,

PARSER,

TREE_PARSER,

actionScope,

actions,

docComment,

recognizer,

name,

tokens,

tokenNames,

rules,

cyclicDFAs,

bitsets,

buildTemplate,

profile,

backtracking,

synpreds,

cmemoize,

numRules,

fileName,

ANTLRVersion,

generatedTimestamp,

trace,

scopes,

superClass
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token", filterMode) ::= <<
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
>>

filteringNextToken() ::= <<
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
public Token nextToken() {
while (true) {
if ( input.LA(1)==CharStream.EOF ) {
    return Token.EOF_TOKEN;
}
this->token = 0;
tokenStartCharIndex = getCharIndex();
try {
int m = input.mark();
backtracking=1; <! means we won’t throw slow exception !>
failed=false;
mTokens();
backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1. !>
if ( failed ) {
    input.rewind(m);
    input.consume(); <! advance one char and try again !>
} else {
    return token;
}
catch (RecognitionException re) {
    // shouldn’t happen in backtracking mode, but...
    reportError(re);
    recover(re);
}
}
}

public void memoize(IntStream input, int ruleIndex, int ruleStartIndex)
{
if ( backtracking > 1 )
    super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex)
{
if ( backtracking > 1 )
    return super.alreadyParsedRule(input, ruleIndex);
return false;
}

filteringActionGate() ::= "backtracking == 1"

/** How to generate a parser */
genericParser(
    grammar, name, scopes, tokens, tokenNames, rules, numRules, cyclicDFAs,
    bitsets, inputStreamType, superClass, ASTLabelType="Object",
    labelType, members, filterMode
) ::= <<
    // genericParser
class <name> : public <@superClassName><superClass><@end> { public:
    static const char* tokenNames[] = {


"\<invalid\>", "\EOR\", "\DOWN\", "\UP\", <tokenNames; separator="\> 
];
<tokens:{static tokenId_type <tokenPrefix()><it.name>=<it.type>;}; separator="\n"> 
<scopes:{<if(it.isDynamicGlobalScope)>globalAttributeScope(scope=it)<endif> }>
<@members>

<name>(StreamType* input)
: <superClass><StreamType,TokenType>(input)
{
@if(backtracking>
ruleMemo = new HashMap[numRules]+1];<\n> <! index from 1..n !>
<endif>
}
<@end>

//@TODO public String[] getTokenNames() { return tokenNames; }
//@TODO public String getGrammarFileName() { return "<fileName>"; }
<members>

<rules; separator="\n\n"> 

<synpreds:{p | <synpred(p)>}> 

<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n"> 
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
words64=it.bits)} 
];
>>

parser(
grammar, name, scopes, tokens, tokenNames,
rules, numRules, bitsets, ASTLabelType,
superClass="Parser", labelType="Token",
members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", ...)> 
>>

/** How to generate a tree parser; same as parser except the input
 *  stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction,
rules, numRules,
bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object",
superClass="TreeParser", members={<actions.treeparser.members>}, filterMode
/** A simpler version of a rule template that is specific to the imaginary 
* rules created for syntactic predicates. As they never have return values 
* nor parameters etc., just give simplest possible method. Don’t do 
* any of the normal memoization stuff in here either; it’s a waste. 
* As predicates cannot be inlined into the invoking rule, they need to 
* be in a rule by themselves. 
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= 
<< 
// $ANTLR start <ruleName> 
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws RecognitionException {
<if(trace)>System.out.println("enter <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);<endif>
<if(trace)>try {
<block>
}
finally {
System.out.println("exit <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking); 
}<else>
<block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public boolean <name>() {
    this->backtracking++;  
    #@start()
    int start = input.mark();
    try { 
        <name>_fragment(); // can never throw exception 
    } catch (RecognitionException re) { 
        System.err.println("impossible: "+re); 
    }
    boolean success = ! this->failed; 
    input.rewind(start);
    #@stop()
    this->backtracking--; 
    this->failed = false;
    return success;
} >>
lexerSympred(name) ::= <<
  <sympred(name)>
>>

ruleMemoization(name) ::= <<
  <if(memoize)>
  if ( backtracking > 0 && alreadyParsedRule(input, <ruleDescriptor.index>) )
  return <ruleReturnValue()>
  <endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
  <if(backtracking)>
  if (failed)
  return <ruleReturnValue()>
  <endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  <if(backtracking)>
  if (backtracking > 0)
  {
    failed = true;
    return <ruleReturnValue()>
  }
  <endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,memoize) ::= <<
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
  <returnScope(scope=ruleDescriptor.returnScope)>
  // $ANTLR start <ruleName>
  // <fileName>:<description>
  public <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
  throw(antlr3::BaseRecognitionException)
  {
    <if(trace)>
    antlr3::Tracer trace(this,"<ruleName>");
    System.out.println("enter <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);
  }
<ruleDescriptor.returnScope.attributes: { a |
  <a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)<endif>; |
}><endif>
  <if(memoize)>
  int <ruleDescriptor.name>_StartIndex = input.index();
  <endif>
>>

ruleLabelDefs() ::= <<
  <[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]|
  :{<labelType> <it.label.text>=null;}; separator="\n">
> <[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]|
  :{List list_<it.label.text>=null;}; separator="\n">
> <[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]|
  :ruleLabelDef(label=it); separator="\n">
> <[ruleDescriptor.allRuleRefsInAltsWithRewrites,ruleDescriptor.allTokenRefsInAltsWithRewrites]|
  :{List list_<it>=new ArrayList();}; separator="\n">
>>

ruleReturnValue() ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <if(ruleDescriptor.hasReturnValue)>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnName>
  <else>
  retval
  <endif>
  <endif>
  <endif>
  <endif>
>>

ruleCleanUp() ::= <<
  <ruleDescriptor.useScopes: { <it>_stack.pop(); }; separator="\n">
  <ruleDescriptor.ruleScope: { <it.name>_stack.pop(); }; separator="\n">
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.stop = input.LT(-1);<\n>
  <endif>
  <if(memoize)>
  <if(backtracking)>
  if ( backtracking > 0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
  <endif>
  <endif>
>>
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
throw(antlr3::BaseRecognitionException)
{
  <if(trace)>
  antlr3::Tracer trace(this,"<ruleName>");
  <endif>
  antlr3::CountScope nestingTracker(this->ruleNestingLevel);
  StreamType& input(this->getInput());
  <if(nakedBlock)>
    <ruleDescriptor.actions.init>
    <ruleMemoization(name=ruleName)>
    <block><
  <else>
    tokenId_type type = <tokenPrefix()><ruleName>;
    channel_type channel = antlr3::Token::DEFAULT_CHANNEL;
    position_type start(input.getPosition());
    <ruleDescriptor.actions.init>
    <ruleMemoization(name=ruleName)>
    <block>
<! create token if none exists *and* we are an outermost token rule !>
  <execAction({if ( this->token == 0 && this->ruleNestingLevel == 1 ) {
    TokenType *tt = TokenBuilder::build(type,start,input,channel);
    std::cout << (*tt) << std::endl;
    this->emit(tt);
  }<
  })>
  <endif>
}
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
void mTokens() throw(antlr3::BaseRecognitionException)
{
  StreamType& input(this->getInput());
  <block><n>
}
>>

// SUBRULES
/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,
maxK,maxAlt,description) ::= <<
// block <fileName>:<description>
decision_type alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// ruleBlock <fileName>:<description>
decision_type alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// ruleBlockSingleAlt <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (...)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,descriptio
positiveClosureBlock<fileName>:<description>
decision_type cnt<decisionNumber>=0;
<decls>
AtPathLoop()

do {
    decision_type alt<decisionNumber>=<maxAlt>;
   AtPathPreDecision()
   AtPathDecision()
   AtPathPostDecision()
    switch (alt<decisionNumber>) {
        alts:AtPathSwitchCase()
        default :
            if ( cnt<decisionNumber> >= 1 )
                goto loop<decisionNumber>;
                   EarlyExitException eee( input.getPosition(), <decisionNumber> );
            @AtPathEarlyExitException()
                throw eee;
    }
    cnt<decisionNumber>++;
} while (true);
AtPathLoop

positiveClosureBlockSingleAlt ::= positiveClosureBlock

// closureBlock <fileName>:<description>
<decls>
AtPathPreLoop()

do {
    decision_type alt<decisionNumber>=<maxAlt>;
   AtPathPreDecision()
   AtPathDecision()
   AtPathPostDecision()
    switch (alt<decisionNumber>) {
        alts:AtPathSwitchCase()
        default :
    }
    } while (true);
AtPathLoop

// positiveClosureBlock <fileName>:<description>
decision_type cnt<decisionNumber>=0;
<decls>
AtPathPreLoop()

do {
    decision_type alt<decisionNumber>=<maxAlt>;
   AtPathPreDecision()
   AtPathDecision()
   AtPathPostDecision()
    switch (alt<decisionNumber>) {
        alts:AtPathSwitchCase()
        default :
            if ( cnt<decisionNumber> >= 1 )
                goto loop<decisionNumber>;
                   EarlyExitException eee( input.getPosition(), <decisionNumber> );
            @AtPathEarlyExitException()
                throw eee;
    }
    cnt<decisionNumber>++;
} while (true);
AtPathLoop

 /* A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // closureBlock <fileName>:<description>
    <decls>
   AtPathPreLoop()
    do {
        decision_type alt<decisionNumber>=<maxAlt>;
       AtPathPreDecision()
       AtPathDecision()
       AtPathPostDecision()
        switch (alt<decisionNumber>) {
            alts:AtPathSwitchCase()
            default :
        }
        } while (true);
   AtPathLoop
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
<@prealt()>
<i>
break;<
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt) ::= <<
// alt <fileName>:<description>
{
<@declarations()>
<elements:element()>
<@cleanup()>
}
>>

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
// element <fileName>:<description>
<@prematch()>
<i.el><
>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex) ::= <<
// tokenRef
@if(label)
<label> = input.LT(1);<
>@endif
this->match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>
/** ids+=ID no AST building */
tokenRefAndListLabel(token, label, elementIndex) ::= <<
<tokenRef(...)>
<listLabel(...)>
>>

listLabel(label) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<label>);

>>

/** match a character */
charRef(char, label) ::= <<
// charRef
<if(label)>
<tokenid_type()> <label> = input.LA(1);
<endif>
this->match(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a, b) ::= "this->matchRange(<a>,<b>); <checkRuleBacktrackFailure>()"

/** For now, sets are interval tests and must be tested inline */
mismatchSet(s, label, elementIndex, postmatchCode="") ::= <<
// matchSet
<if(label)>
<label> = input.LT(1);
<endif>
if ( <s> )
{
<postmatchCode>
input.consume();
<if(!LEXER)>
errorRecovery=false;
<endif>
<if(!backtracking)>failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse(input.getPosition(), input.LA(1));
<@mismatchedSetException()>
<if(!LEXER)>
this->recover(mse);
<else>
this->recoverFromMismatchedSet(input.mse,FOLLOW_set_in_<ruleName><elementIndex>);
<endif>
throw mse;
}<
>>

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
// lexerStringRef
<if(label)>
position_type <label>Start(input.getPosition());
this->match( <string> );
<checkRuleBacktrackFailure()>
TokenType* <label> =
TokenBuilder::build(Token.INVALID_TOKEN_TYPE,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
this->match( <string> );
<checkRuleBacktrackFailure()><
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = input.LT(1);<
<endif>
this->matchAny( input );
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(...)>
>>

/** Match . wildcard */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<tokenid_type()> <label> = input.LA(1);<
<endif>
this->matchAny();
<checkRuleBacktrackFailure()>
>>
tokenid_type() ::= "<if(LEXER)>char_type<else>tokenid_type<endif>"

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */
ruleRef(rule,label,elementIndex,args) ::= <<
following.push(FOLLOW_<rule>_in_<ruleName><elementIndex>);
;if(label)
<label>=<rule>(<args>);
<else>
<rule>(<args>);
<endif>
following.pop();
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
ruleRefAndListLabel(rule,label,elementIndex,args) ::= <<
<ruleRef(...)>
<listLabel(...)>
>>

/** A lexer rule reference */
lexerRuleRef(rule,label,args) ::= <<
;if(label)
position_type <label>Start(input.getPosition());
m<rule>(<args>);
<checkRuleBacktrackFailure()>
TokenType* <label> = TokenBuilder::build(Token.INVALID_TOKEN_TYPE,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
m<rule>(<args>);
<checkRuleBacktrackFailure()>
<endif>
>>

/** EOF in the lexer */
lexerMatchEOF(label) ::= <<
;if(label)
position_type <label>Start(input.getPosition());
match(EOF);
<checkRuleBacktrackFailure()>
TokenType* <label> = TokenBuilder::build(Token.EOF,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
match(EOF);
<checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, children, nullableChildList) ::= <<
<root:element()>
<if(nullableChildList)>
if ( input.LA(1)==antlr3::Token::DOWN ) {
  match(input, antlr3::Token::DOWN, null);
  <checkRuleBacktrackFailure()>
  <children:element()>
  match(input, antlr3::Token::UP, null);
  <checkRuleBacktrackFailure()>
}
<else>
match(input, antlr3::Token::DOWN, null);
<checkRuleBacktrackFailure()>
<children:element()>
match(input, antlr3::Token::UP, null);
<checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) ) {
  <ruleBacktrackFailure()>
  throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<if(!semPredState)>
<tokenid_type()> LA<decisionNumber>_stateNumber = input.LA(<k>);\n<endif>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;\n<else>
<ruleBacktrackFailure()>

}


NoViableAltException nva(input.getPosition(), "<description>", <decisionNumber>, <stateNumber>);
<@noViableAltException()>
throw nva;
@endif
}

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
@if(!semPredState)
<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);
@endif
<edges; separator="\nelse ">
@endif

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
@if(!semPredState)
<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);
@endif
<edges; separator="\nelse ">
@if(eotPredictsAlt)
else
{
alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
@endif
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (labelExpr) <if(predicates)&& (predicates)<endif>)
{
// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else>
NoViableAltException nva<altDecisionNumber>( input.getPosition(), "<description>", <decisionNumber>, <stateNumber> );
<@noViableAltException()>
throw nva<altDecisionNumber>;
@end

} <<
>>

donOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
} <<
>>

donLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
<if(eotPredictsAlt)>
default:
alt<decisionNumber> = <eotPredictsAlt>;
break;
<end>

} <<
>>

donEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n">
<targetState>

} break;

>>

// Cyclic DFA

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/** The code to initiate execution of a cyclic DFA; this is used 
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
// dfaDecision
alt<decisionNumber> = predictDFA<decisionNumber>(input);
>>

/** The overall cyclic DFA chunk; contains all the DFA states */
cyclicDFA(dfa) ::= <<
/*/ cyclicDFA=<dfa>
*/
// cyclic   = <dfa.cyclic>
// numstates = <dfa.numberOfStates>

// startState = <dfa.startState>
// startState.numberOfTransitions = <dfa.startState.NumberOfTransitions>
// startState.lookaheadDepth = <dfa.startState.LookaheadDepth>

const static short <name>dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] = {
<dfa.eot; wrap="\n   ", separator=" ", null="-1">
};
const static short <name>dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] = {
<dfa.eof; wrap="\n   ", separator=" ", null="-1">
};
const static unichar <name>dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] = {
<dfa.min; wrap="\n   ", separator=" ", null="0">
};
const static unichar <name>dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] = {
<dfa.max; wrap="\n   ", separator=" ", null="0">
};
const static short <name>dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] = {
<dfa.accept; wrap="\n   ", separator=" ", null="-1">
};
const static short <name>dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] = {
<dfa.special; wrap="\n   ", separator=" ", null="-1">
};
<dfa.edgeTransitionClassMap.keys:{ table |
const static short <name>dfa<dfa.decisionNumber>_transition<i0>[] = {
<table; separator=" ", wrap="\n   ", null="-1">
};
}; null="">
const static short <name>dfa<dfa.decisionNumber>_transition[] = {
<dfa.transitionEdgeTables:{whichTable}<name>dfa<dfa.decisionNumber>_transition<whichTable>,}; separator="\n   ", null="0 /* fixme? */">
};
<! add attribute for the DFA !>
DFA<char_type> dfa<dfa.decisionNumber>;  
<! this should go in the initializer of the thing 
- (id) init
{
  if ((self = [super init]) != nil) {
    eot = <name>dfa<dfa.decisionNumber>_eot;
    eof = <name>dfa<dfa.decisionNumber>_eof;
    min = <name>dfa<dfa.decisionNumber>_min;
    max = <name>dfa<dfa.decisionNumber>_max;
    accept = <name>dfa<dfa.decisionNumber>_accept;
    special = <name>dfa<dfa.decisionNumber>_special;
    if (!(transition = calloc(<dfa.numberOfStates>, sizeof(void*)))) {
      [self release];
      return nil;
    }
    <dfa.transitionEdgeTables:{whichTable|transition[i0] = <name>dfa<dfa.decisionNumber>_transition<whichTable>;}; separator="\n", null=""> 
  } return self;
}
!

<if(dfa.specialStateSTs)>
int specialStateTransition( int state )
{
  int s = state;
  switch ( s ) {
    <dfa.specialStateSTs:{state | case <i0> : <! compressed special state numbers 0..n-1 !> <state>}; separator="\n"> 
  }
  <if(backtracking)>
  if ( recognizer.isBacktracking() ) {
    recognizer.setFailed();
    return -1;
  }
  <endif>
  noViableAlt(s, input);
  }
  <endif>
</un>

// <dfa.description>
decision_type predictDFA<dfa.decisionNumber>( StreamType& input )
{
  /* mark current location (rewind automatically when the rewinder goes
* out of scope */
antlr3::Rewinder<position_type> markPoint(input.getPosition());
goto s0; // goto start...
// ...
throw NoViableAltException( input.getPosition(), "<dfa.description>", <dfa.decisionNumber>, 0 /* fixme */ );
}
>
/** A state in a cyclic DFA */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
// cyclicDFAState
s<stateNumber> : { 
@if(semPredState)
input.rewind();
<endif>
<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(1);
<endif>
<edges>
@if(needErrorClause)
throw NoViableAltException( input.getPosition(), "<description>", <decisionNumber>, <stateNumber> );
<endif>
}
>
/** Just like a fixed DFA edge, test the lookahead and indicate what state to jump to next if successful. */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
// cyclicDFAEdge
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>)
{
input.consume();
goto s<targetStateNumber>;
}
>
/** An edge pointing at end-of-token; essentially matches any char; always jump to the target. */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= "goto s<targetStateNumber>;"

// DFA EXPRESSIONS
andPredicates(left, right) ::= "(left && right)"
orPredicates(operands) ::= "(first(operands)>?rest(operands):[o ||]|>)"
notPredicate(pred) ::= "!(<pred>)"
evalPredicate(pred, description) ::= "<pred>"

evalSynPredicate(pred, description) ::= "<pred>()"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom, k, atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>\>=<lower> \&\& LA<decisionNumber>_<stateNumber>\=<upper>)
>>

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "(input.LA(<k>)\>=<lower>
\&\& input.LA(<k>)\=<upper>)"

setTest(ranges) ::= "<ranges; separator="||">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
@if(scope.attributes)
protected static class <scope.name> {
    <scope.attributes:{<it.decl>};}; separator="\n"
}
protected Stack <scope.name>_stack = new Stack();\n
@endif
>>

ruleAttributeScope(scope) ::= <<
@if(scope.attributes)
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>};}; separator="\n"
}
protected Stack <scope.name>_stack = new Stack();\n
@endif
>>

returnType() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
<ruleDescriptor.name>_return
@else
@if(ruleDescriptor.singleValueReturnType)
<ruleDescriptor.singleValueReturnType>
@else

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void
<endif>
<endif>
>>

ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.singleValueReturnType)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <returnType()> {
    <labelType> start, stop;
    <if(buildAST)>
        <ASTLabelType> tree;
    <else>
    <if(buildTemplate)>
        StringTemplate st;
    <endif>
    <endif>
    <scope.attributes:{<it.decl>;}; separator="\n">}
    <scope.attributes:{<it.decl>}; separator=", ">
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator="", ">
>>
/** Used in codegen.g to translate $x.y references.
 * I could have left actions as StringTemplates to be inserted in
 * the output (so they could use attributes inherited from surrounding
 * templates), but really wanted to pass in AttributeScope and Attribute
 * objects so this translation could query them. So, translation of
 * $x.y to executable code occurs before recognizerST.toString() occurs.
 * I.e., actions are just text strings during final code generation.
 */
globalAttributeRef(scope,attr) ::= <<
((<scope>_scope)<scope>_stack.peek()).<attr.name>
>>

parameterAttributeRef(attr) ::= ":"<attr.name>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {${function.size()>0 && ${function::name.equals("foo")}?}
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.singleValueReturnType)>
<scope>
<else>
<scope>.<attr.name>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.singleValueReturnType)>
<attr.name>
<else>
retval.<attr.name>
<endif>
/** How to translate TokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(  

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= "input.toString(<scope>.start,<scope>.stop)"
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((ASTLabelType)retval.tree)"
rulePropertyRef_text(scope,attr) ::= "input.toString(retval.start,input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

// ACTIONS

emit(type) ::= "emit(<type>);"

setType(type) ::= "setType(<type>);"
/** How to execute an action */
execAction(action) ::= <<
  if(backtracking)>
  if(actions.(actionScope).synpredgate)
  if ( actions.(actionScope).synpredgate )
  {
    action
  }
  else
  if ( backtracking == 0 )
  {
    action
  }
  else
  action
  endif>
>>

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
  public static final BitSet <name> = new BitSet(new long[]{<words64:{<it>L};separator=","});
>>

tokenPrefix() ::= "TOK_"

codeFileExtension() ::= ".cpp"
// used in CPPTarget.java to generate the headerfile extension
headerFileExtension() ::= ".h"

true() ::= "true"
false() ::= "false"

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gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr_3.2-
sources/org/antlr/codegen/templates/CPP/CPP.stg

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*/

/** Templates for building ASTs during tree parsing. 
* 
* Deal with many combinations. Dimensions are: 
* Auto build or rewrite 
* no label, label, list label (label/no-label handled together) 
* child, root 
* token, set, rule, wildcard 
* 
* Each combination has its own template except that label/no label 
* is combined into tokenRef, ruleRef, ... 
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var _first_0:<ASTLabelType> = null;
var _last:<ASTLabelType> = null;
>>

/** What to emit when there is no rewrite rule. For auto build 
* mode, does nothing. 
*/
noreRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.tree = <ASTLabelType>(_first_0);
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
   retval.tree = <ASTLabelType>(adaptor.getParent(retval.tree));
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to 
* add tree construction actions. 
*/
tree(root, actionsAfterRoot, children, nullableChildList, 
    enclosingTreeLevel, treeLevel) ::= <<
    _last = <ASTLabelType>(input.LT(1));
    {
    var _save_last_<treeLevel>:<ASTLabelType> = _last;
    var _first_<treeLevel>:<ASTLabelType> = null;
    ...
<if(!rewriteMode)>
var root_.<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_.<enclosingTreeLevel>==null ) _first_.<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_.<enclosingTreeLevel>==null ) _first_.<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==TokenConstants.DOWN ) {
  matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
  <children:element()>
  matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
<else>
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_.<enclosingTreeLevel>, root_.<treeLevel>);
<endif>
_last = _save_last_.<treeLevel>;
}

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex) ::= <=
  _last = <ASTLabelType>(input.LT(1));
  <super.tokenRef(...)>
>
/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <=
  _last = <ASTLabelType>(input.LT(1));
  <super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>
<if(hetero)>

<label>_tree = new <hetero>(<label>);
</else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif>

adaptor.addChild(root_<treeLevel>, <label>_tree);

if (backtracking) } }<endif>
<else> <! rewrite mode !>
if (backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if (_first_<treeLevel>==null)_first_<treeLevel> = <label>;
<endif>
>>&gt;

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex) ::= &lt;&lt;
	<tokenRef(...)> 
	<listLabel(elem=label,...)>
&gt;&gt;

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= &lt;&lt;
	_last = <ASTLabelType>(input.LT(1));
	<super.tokenRef(...)> 
	<if(!rewriteMode)> 
	<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
	<if(hetero)> 
	<label>_tree = new <hetero>(<label>); 
	<else> 
	<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>)); 
	<endif>
	<if(backtracking)>}<endif>
	<endif>
	root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
<if(backtracking)> } }<endif>
<endif>
>>&gt;

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= &lt;&lt;
	<tokenRefRuleRoot(...) >
	<listLabel(elem=label,...)>
&gt;&gt;

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= &lt;&lt;
	_last = (<ASTLabelType>)input.LT(1);
	<super.wildcard(...)>
	<if(!rewriteMode)> 
	<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
	<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>); 
	adaptor.addChild(root_<treeLevel>, <label>_tree);
// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.matchSet(..., postmatchCode= {
    <if(!rewriteMode)>
      <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
        <if(hetero)>
          <label>_tree = new <hetero>(<label>);
        <else>
          <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
        <endif>
      <endif>
      adaptor.addChild(root_<treeLevel>, <label>_tree);
    <if(backtracking)>}<endif>
  }>
 }}>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(..., noRewrite())> <! set return tree !>
 }}>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.matchSet(...)>
 }}>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
  <super.matchSet(..., postmatchCode= {
    <if(!rewriteMode)>
      <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
        <if(hetero)>
          <label>_tree = new <hetero>(<label>);
        <else>
          <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
        <endif>
      <endif>
      root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
    <if(backtracking)>}<endif>
  }>
 }}>>


// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRef(...)>;
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
  adaptor.addChild(root_.tree);
  <if(!rewriteMode)>
    if ( _first_.tree==null ) _first_ = <label>.tree;
  <else> <! rewrite mode !>
    if ( _first_.tree==null ) _first_ = <label>.tree;
  <endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>;
  <listLabel(elem=label+".tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefRuleRoot(...)>;
  <if(!rewriteMode)>
    if ( <actions.(actionScope).synpredgate> ) root_.tree =
        <ASTLabelType>(adaptor.becomeRoot(<label>.tree, root_.tree));
  <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>;
  <listLabel(elem=label+".tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefTrack(...)>;
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```java
/** Stream for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token, hetero, scope) ::= <<
  <if(hetero)>
    new <hetero>(stream_<token>.nextNode())
  <else>
    stream_<token>.nextNode()
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
    <if(backtracking)>
      if ( <actions.(actionScope).synpredgate> ) {<
        retval.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
      }<endif>
    <endif>
  <endif>
>>

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-targ-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-
sources/org/antlr/codegen/templates/ActionScript/ASTTreeParser.stg
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/***************************************************************************/
/** Template subgroup to add template rewrite output */
/** If debugging, then you'll also get STDbg.stg loaded. */
/***************************************************************************/

group ST;

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.StringTemplate;
using Antlr.StringTemplate.Language;
<if(!backtracking)>
using Hashtable = System.Collections.Hashtable;
</if>
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
private StringTemplate st;
public StringTemplate ST { get { return st; } set { st = value; } }
public override object Template { get { return st; } }
public override string ToString() { return (st == null) ? null : st.ToString(); }
>>

@genericParser.members() ::= <<
<@super.members()>

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protected StringTemplateGroup templateLib =
new StringTemplateGroup("<name>Templates", typeof(AngleBracketTemplateLexer));

public StringTemplateGroup TemplateLib
{
    get { return this.templateLib; }
    set { this.templateLib = value; }
}

/// 
/// Allows convenient multi-value initialization:
/// "new STAttrMap().Add(...).Add("
/// </summary>
protected class STAttrMap : Hashtable
{
    public STAttrMap Add(string attrName, object value)
    {
        base.Add(attrName, value);
        return this;
    }
    public STAttrMap Add(string attrName, int value)
    {
        base.Add(attrName, value);
        return this;
    }
}

// TEMPLATE REWRITE

// TEMPLATE REWRITE
<brk backtracking>
if ( <actions.(actionScope).synpredgate> )
{
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
    </if(rewriteMode)><replaceTextInLine()><endif>
    </else>
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
    </if(rewriteMode)><replaceTextInLine()><endif>
    }
replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.TokenStream).Replace(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start),
retval.ST);
<else>
((TokenRewriteStream)input).Replace(
((IToken)retval.Start).TokenIndex,
input.LT(-1).TokenIndex,
retval.ST);
<endif>
>>

rewriteTemplateAlt() ::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>) {
    retval.ST = <it.alt>;
} <\n>
<else>
{
    retval.ST = <it.alt>;
} <\n>
<endif>
>>

rewriteEmptyTemplate(alts) ::= <<
null;
>>

/** Invoke a template with a set of attribute name/value pairs.
 *  Set the value of the rule's template *after* having set
 *  the attributes because the rule's template might be used as
 *  an attribute to build a bigger template; you get a self-embedded
 *  template.
 */
rewriteExternalTemplate(name,args) ::= <<
templateLib.GetInstanceOf("<name>"<if(args),
new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <<
templateLib.GetInstanceOf(<expr><if(args),
new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>
/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template><if(args),
    new STAttrMap(){args:{a | .Add("<a.name>", <a.value>)}>
<endif})
>>
/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>
/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>).SetAttribute("<attrName>",<expr>);
>>
/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib,<stringExpr>)
>>

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/CSharp2/ST.stg
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/CSharp/ST.stg
No license file was found, but licenses were detected in source scan.

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*/

group CSharp implements ANTLRCore;

csharpTypeInitMap ::= [
  "int": "0",
  "uint": "0",
  "long": "0",
  "ulong": "0",
  "float": "0.0",
  "double": "0.0",
  "bool": "false",
  "byte": "0",
  "sbyte": "0",
  "short": "0",
  "ushort": "0",
  "char": "char.MinValue",
  default: "null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */

outputFile(LEXER, PARSER, TREE_PARSER, actionScope, actions,
           docComment, recognizer,
           name, tokens, tokenNames, rules, cyclicDFAs,
           bitsets, buildTemplate, buildAST, rewriteMode, profile,
           backtracking, synpreds, memoize, numRules,
           fileName, ANTLRVersion, generatedTimestamp, trace,
           scopes, superClass, literals) ::= <<

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@debugPreprocessor()>

<actions.(actionScope).header>
using System;
using Antlr.Runtime;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
<endif>
using IList = System.Collections.IList;
using ArrayList = System.Collections.ArrayList;
using Stack = Antlr.Runtime.Collections.StackList;
<if(backtracking)>
using IDictionary = System.Collections.IDictionary;
using Hashtable = System.Collections.Hashtable;
<endif>

<@end>

<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
}
<endif>

>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="IToken",
    filterMode, superClass="Lexer") ::= <<
public class <grammar.recognizerName> : <@superClassName><superClass><@end> {
    <tokens:{public const int <it.name> = <it.type>;}; separator="\n"}
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"}
    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}}>

    public <grammar.recognizerName>() <! needed by subclasses !>
    {
    InitializeCyclicDFAs();

    

}>>
/** A override of Lexer.nextToken() that backtracks over mTokens() looking * for matches. No error can be generated upon error; just rewind, consume * a token and then try again. backtracking needs to be set as well. * * Make rule memoization happen only at levels above 1 as we start mTokens * at backtracking==1. */ filteringNextToken() ::= <<
override public IToken NextToken()
{
  while (true)
  {
    if ( input.LA(1) == (int)CharStreamConstants.EOF )
    {
      return Token.EOF_TOKEN;
    }
    state.token = null;
    state.channel = Token.DEFAULT_CHANNEL;
    state.tokenStartCharIndex = input.Index();
    state.tokenStartCharPositionInLine = input.CharPositionInLine;
    state.tokenStartLine = input.Line;
    state.text = null;
    try
    {
      int m = input.Mark();
      state.backtracking = 1; <! means we won't throw slow exception !>
      state.failed = false;
      mTokens();
      state.backtracking = 0;
      <! mTokens backtracks with synpred at backtracking==2 and we set the synpredgate to allow actions at level 1. !>
      if ( state.failed )
      {
        input.Rewind(m);
        input.Consume(); <! // advance one char and try again !>
      }
      else
      {
        Emit();
        return state.token;
      }
    }
    catch (RecognitionException re)
    {
    }
}
override public void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
if ( state.backtracking > 1 )
base.Memoize(input, ruleIndex, ruleStartIndex);
}

override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
if ( state.backtracking > 1 )
return base.AlreadyParsedRule(input, ruleIndex);
return false;
}

actionGate() ::= "(state.backtracking==0)"
filteringActionGate() ::= "(state.backtracking == 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
            bitsets, inputStreamType, superClass, filterMode,
            ASTLabelType="object", labelType, members, rewriteElementType) ::= <<
public class <grammar.recognizerName> : <@superClassName><superClass><@end
{
<if(grammar.grammarIsRoot)>
public static readonly string[] tokenNames = new string[]
{
"\<invalid>",
"\<EOR>",
"\<DOWN>",
"\<UP>",
<tokenNames; separator=", \n”>
};\n</
<endif>

<tokens:{public const int <it.name> = <it.type>;}; separator="\n”>

    // delegates
    <grammar.delegates:
            {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n”>
    // delegators
public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName><g:delegateName()>}}>)
: this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g:delegateName()>}>)) {
}

public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName><g:delegateName()>}>)
: base(input, state) {
    <grammar.directDelegates:
    [g]<g:delegateName()> = new <grammar.recognizerName>(input, state<grammar.delegators:{g|}; separator="\n">)
    <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>;} separator="\n">
    <grammar.delegators:
    [g]<g:delegateName()> = new <g.recognizerName>(input, state<grammar.delegators:{g|}; separator="\n">
    <last(grammar.delegators):{g|gParent = <g:delegateName>();}}>
}

override public string[] TokenNames {
get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; } }
}

override public string GrammarFileName {
get { return "<fileName>"; } }
}

<rules; separator="\n\n">
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) //
throws RecognitionException
{| 
    <if(ruleDescriptor.hasReturnValue)>return
<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
<endif> //
    <grammar.delegators:
    [a]<a.name> = new <grammar.delegator:delegateName>(); separator="", "">;

private void InitializeCyclicDFAs(@debugInitializeCyclicDFAs())
{
    <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<@debugAddition()>);}; separator="\n">;
    <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif>}; separator="\n">;
}

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
     words64=it.bits)>;

parserCtorBody() ::= <<
    @initializeCyclicDFAs>InitializeCyclicDFAs();<@end>
    @if(grammar.grammarIsRoot)
        this.state.ruleMemo = new Hashtable[length(grammar.allImportedRules)+1];<\n> <! index from 1..n !>
    @endif
    @endif
    <grammar.delegators:
        {g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n">;
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
      labelType="IToken", members={<actions.parser.members>}) ::= <<
    <genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
      labelType={['ASTLabelType'], ASTLabelType="object", superClass="TreeParser",
        members=[<actions.treeparser.members>], filterMode} ::=<
    <genericParser(inputStreamType="ITreeNodeStream", rewriteElementTypeName="Token", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 */
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
  // $ANTLR start "<ruleName>"
  public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) {
    <ruleLabelDefs()>
    <if(trace)>
      TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
      try
      {
        <block>
      }
    finally
    {
      TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
  }
  <else>
  <block>
  <endif>
  // $ANTLR end "<ruleName>"
>>
synpredDecs(name) ::= <<
  SynPredPointer <name>::<ln>
>>
synpred(name) ::= <<
  public bool <name>()
  {
    state.backtracking++;
    <@start()>
    int start = input.Mark();
    try
    {
      <name>_fragment(); // can never throw exception
    }
    catch (RecognitionException re)
    {
      Console.Error.WriteLine("impossible: "+re);
    }
    bool success = !state.failed;
    input.Rewind(start);
    <@stop()>
  }
  
>>
state.backtracking--;
state.failed = false;
return success;
}
>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)
if ( (state.backtracking > 0) && AlreadyParsedRule(input, <ruleDescriptor.index>) )
{
return <ruleReturnValue>();
}
@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if (state.failed) return <ruleReturnValue>();<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>if ( state.backtracking > 0 ) {state.failed = true; return <ruleReturnValue>();}<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
// $ANTLR start "<ruleName>"
// <fileName>:<description>
public <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws RecognitionException [1]
{
@if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
@preamble()>
try

// $ANTLR start "<ruleName>"
// <fileName>:<description>
public <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws RecognitionException [1]
{
@if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
@preamble()>
try
catch (RecognitionException re)
{
    ReportError(re);
    Recover(input.re);
    <setErrorReturnValue()>
}

ruleDeclarations() ::= 
<<
    <if(ruleDescriptor.hasMultipleReturnValues)>
        <returnType()> retval = new <returnType()>();
        retval.Start = input.LT(1);<\n>
    <else>
        <ruleDescriptor.returnScope.attributes:{ a |
        ...
    ...

}}
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```csharp
<a.type> <a.name> = <if(a.initValue)> <a.initValue> <else> <initValue(a.type)> <endif>;
</a.type>

<endif>
<if(memoize)>
int <ruleDescriptor.name>_StartIndex = input.Index();
<endif>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.Push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.Push(new <it.name>_scope());}; separator="\n">

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.Pop();}; separator="\n">

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 :{<labelType> <it.label.text> = null;}; separator="\n">
</ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
 :{IList list_<it.label.text> = null;}; separator="\n">
</ruleDescriptor.ruleListLabels:

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleLabels]
 :{<labelType> <it.label.text> = null;}; separator="\n">
</ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{IList list_<it.label.text> = null;}; separator="\n">
</ruleDescriptor.ruleListLabels:

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)> <if(ruleDescriptor.hasReturnValue)> <if(ruleDescriptor.hasSingleReturnValue)> <ruleDescriptor.singleValueReturnName>
```

---

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ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = input.LT(-1);<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if( state.backtracking > 0 )
{
Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
}
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws RecognitionException [2]
{
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try
{
<if(nakedBlock)>
   <ruleMemoization(name=ruleName)>
   <lexerRuleLabelDefs()>
   <ruleDescriptor.actions.init>
   <block><\n>
<else>
   int _type = <ruleName>;
   int _channel = DEFAULT_TOKEN_CHANNEL;
   int _value = builder.AddSymbol(<ruleName>, _type, _channel);
   input.Symbol = _value;
   input.LT(-1) = _value;
<endif>
<ruleScopeCleanUp()>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.cleanup>
<block><\n>
<else>
   <ruleMemoization(name=ruleName)>
   <lexerRuleLabelDefs()>
   <ruleDescriptor.actions.init>
   <block><\n>
<endif>
<if(memoize)>
Memoize(<ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
<endif>
<endif>
<ruleScopeCleanUp()>
>>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
</ruleDescriptor.actions.after):execAction()>
@end}
finally{
@if(trace)TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
<memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule */
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock, args, block, ruleDescriptor) ::= <<
override public void mTokens() // throws RecognitionException
{
 <block>
}
}

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
 // <fileName>:<description>
int alt<decisionNumber> = <maxAlt>;
<decls>
@predecision()
<decision>
@postdecision()
@prebranch()>
switch (alt<decisionNumber>)
{
 <alts:altSwitchCase()>
}
@postbranch()>
>>
/** A rule block with multiple alternatives */
ruleBlock(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  int alt<decisionNumber> = <maxAlt>;
  <decls>
  @predecision()  
  @postdecision() 
  switch (alt<decisionNumber>) 
  { 
    <alts:altSwitchCase()> 
  }  
>>
ruleBlockSingleAlt(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <DECLS>
  @prealt()  
  <ALTS>  
  @postalt() 
>>
/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <DECLS>
  @prealt()  
  <ALTS>  
  @postalt() 
>>
/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  int cnt<decisionNumber> = 0;
  <DECLS>
  @preloop()  
  do 
  { 
    int alt<decisionNumber> = <maxAlt>;
    @predecision()  
    @postdecision() 
    switch (alt<decisionNumber>) 
    { 
      <alts:altSwitchCase()> 
    }  
    <alts:altSwitchCase()> 
    default:
if ( cnt<decisionNumber> >= 1 ) goto loop<decisionNumber>;
<ruleBacktrackFailure()>
    EarlyExitException eee<decisionNumber> =
        new EarlyExitException(<decisionNumber>, input);
    <@earlyExitException()>
        throw eee<decisionNumber>;
    }
    cnt<decisionNumber>++;
} while (true);

loop<decisionNumber>:
:// Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=<<
    // <fileName>::<description>
    <decls>
    <@preloop()>
    do
    {
        int alt<decisionNumber> = <maxAlt>;
        <@predecision()>
        <decision>
        <@postdecision()>
        switch (alt<decisionNumber>)
        {
        <alts:altSwitchCase()>
        default:
            goto loop<decisionNumber>;
        }
    } while (true);

loop<decisionNumber>:
:// Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= block
optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative * number. A DFA predicts the alternative and then a simple switch * does the jump to the code that actually matches that alternative. */
altswitchcase() ::= <<
case <i> :
  <@prealt()>
  <i>
  break;\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements, altNum, description, autoAST, outerAlt, treeLevel, rew) ::= <<
// <fileName>:<description>
{
  <@declarations()>
  <elements:element()>
  <rew>
  <@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build * mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
  <@prematch()>
  <it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token, label, elementIndex, hetero) ::= <<
  <if(label)> <label>=(<labelType>)<endif>Match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>
  ); <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token, label, elementIndex, hetero) ::= <<
  <tokenRef(...)> 
  <listLabel(elem=label,...)>
listLabel(label,elem) ::= <<
if (list_<label> == null) list_<label> = new ArrayList();
list_<label>.Add(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);
<endif>
MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="" ) ::= <<
<if(label)>
<if(LEXER)>
<label> = input.LA(1);
<else>
<label> = (<labelType>)input.LT(1);
<endif>
<endif>
if ( <s> )
{
    input.Consume();
    <postmatchCode>
<if(!LEXER)>
    state.errorRecovery = false;
<endif>
    <if(backtracking) state.failed = false;<endif>
}
else
{
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    @mismatchedSetException()<if(LEXER)>
    Recover(mse);
}
throw mse;
<\else>
  throw mse;
  <! use following code to make it recover inline; remove throw mse;
  RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
  !>
<\endif>
} <\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...>)
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
  int <label>Start = CharIndex;
  Match(<string>); <checkRuleBacktrackFailure()>
  <label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
  <label>Start, CharIndex-1);
<else>
  Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
  <label> = (<labelType>)input.LT(1);<\n>
<endif>
  MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...>)
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
  <label> = input.LA(1);<\n>
<endif>
  MatchAny(); <checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(…)> 
<listLabel(elem=label,…)>
>>

/** Match a rule reference by invoking it possibly with arguments 
* and a return value or values. The 'rule' argument was the 
* target rule name, but now is type Rule, whose toString is 
* same: the rule name. Now though you can access full rule 
* descriptor stuff. */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name> in <ruleName><elementIndex>);
<if(label)>
<label> = <if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);
<else>
  <if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);
  <endif>
state.followingStackPointer--;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(…)> 
<listLabel(elem=label,…)>
>>

/** A lexer rule reference. 
* 
* The 'rule' argument was the target rule name, but now 
* is type Rule, whose toString is same: the rule name. 
* Now though you can access full rule descriptor stuff. */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=": ">);
<checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, 
<label>Start<elementIndex>, CharIndex-1);
<else>
  <if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=": ">);
  <checkRuleBacktrackFailure()>
<endif>
>>

---

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/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule.label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)> 
<listLabel(elem=label,...)> >>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
    if(label)
        int <label>Start<elementIndex> = CharIndex;
        Match(EOF); <checkRuleBacktrackFailure()>
        <labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
            <label>Start<elementIndex>, CharIndex-1);
    else
        Match(EOF); <checkRuleBacktrackFailure()>
    <endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, 
    enclosingTreeLevel, treeLevel) ::= <<
    <root:element()> 
    <actionsAfterRoot:element()> 
    <if(nullableChildList)>
        if ( input.LA(1) == Token.DOWN )
            { 
                Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
                <children:element()> 
                Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
            }
    </if>
    <else>
        Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
        <children:element>()
        Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    </else>
>>

/** Every predicate is used as a validating predicate (even when it is
*  also hoisted into a prediction expression). */
validateSemanticPredicate(pred,description) ::= <<
    if ( !(<evalPredicate(...)>) )
        { 
            <ruleBacktrackFailure()>
            throw new FailedPredicateException(input, "<ruleName>", "<description>");
        }
>>


// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);\n\n<edges; separator="\nelse ">
else
{
@if(eotPredictsAlt)
  alt<decisionNumber> = <eotPredictsAlt>;
@else
  ruleBacktrackFailure();
NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
    new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);\n<@noViableAltException ()>
throw nvae_d<decisionNumber>s<stateNumber>;\n@endif
}
\n>>

/** Same as a normal DFA state except that we don't examine lookahead
*  for the bypass alternative. It delays error detection but this
*  is faster, smaller, and more what people expect. For (X)? people
*  expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);\n\n<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
*  loop. If end-of-token (EOT) predicts any of the targets then it
*  should act like a default clause (i.e., no error can be generated).
*  This is used only in the lexer so that for (a)* on the end of a rule
*  anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);\n\n<edges; separator="\nelse ">
@if(eotPredictsAlt)
  <if(!edges)>
    alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
  @else
    alt<decisionNumber> = <eotPredictsAlt>;
  @endif
  <else>
  </else>
@endif
\n>>
/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
  if ( (<labelExpr>) <if(predicates)>&& (<predicates>) <endif>)
  {
    <targetState>
  }
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  switch ( input.LA(<k>) )
  {
    <edges; separator="n">
    default:
    <if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
    break;
    <else>
    <ruleBacktrackFailure()>
    NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
    new NoViableAltException("<description>", <decisionNumber>,<stateNumber>, input);
    @noViableAltException() throw nvae_d<decisionNumber>s<stateNumber>;<
    <endif>
  }<
>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  switch ( input.LA(<k>) )
  {
    <edges; separator="n">
  }<
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  switch ( input.LA(<k>) )
  {
    <edges; separator="n">
  }<
>>
dfаИеSwitch(labels, targetState) := <<
<labels:{case <it>:}; separator="\n">
{
    <targetState>
}
break;
>>

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber, description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
>>

/* Dump DFA tables.
*/
cyclicDFA(dfa) ::= <<
const string DFA<dfa.decisionNumber>_eotS =
    "<dfa.javaCompressedEOT; wrap=""+
    "">";
const string DFA<dfa.decisionNumber>_eofS =
    "<dfa.javaCompressedEOF; wrap=""+
    "">";
const string DFA<dfa.decisionNumber>_minS =
    "<dfa.javaCompressedMin; wrap=""+
    "">";
const string DFA<dfa.decisionNumber>_maxS =
    "<dfa.javaCompressedMax; wrap=""+
    "">";
const string DFA<dfa.decisionNumber>_acceptS =
    "<dfa.javaCompressedAccept; wrap=""+
    "">";
static readonly string[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition:{s|"<s; wrap=""+
    "">"}; separator="\n"}>
};

static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static readonly short[] DFA<dfa.decisionNumber>_eof = 
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static readonly char[] DFA<dfa.decisionNumber>_min = 
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static readonly char[] DFA<dfa.decisionNumber>_max = 
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static readonly short[] DFA<dfa.decisionNumber>_accept = 
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static readonly short[] DFA<dfa.decisionNumber>_special = 
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static readonly short[][] DFA<dfa.decisionNumber>_transition = 
DFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_transitionS);

protected class DFA<dfa.decisionNumber> : DFA
{
    <@debugMember()>
    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer)
    {
        this.recognizer = recognizer;
        this.decisionNumber = <dfa.decisionNumber>;
        this.eot = DFA<dfa.decisionNumber>_eot;
        this.eof = DFA<dfa.decisionNumber>_eof;
        this.min = DFA<dfa.decisionNumber>_min;
        this.max = DFA<dfa.decisionNumber>_max;
        this.accept = DFA<dfa.decisionNumber>_accept;
        this.special = DFA<dfa.decisionNumber>_special;
        this.transition = DFA<dfa.decisionNumber>_transition;
    }
    <@dbgCtor()>

    override public string Description
    {
        get { return "<dfa.description>"; }
    }
    <@errorMethod()>
</a>
</if(dfa.specialStateSTs)>

protected internal int DFA<dfa.decisionNumber>_SpecialStateTransition(DFA dfa, int s, IIntStream _input)
    //throws NoViableAltException
{
    <if(LEXER)>
    IIntStream input = _input;
    <endif>
    <if(PARSER)>

ITokenStream input = (ITokenStream)_input;
<endif>
<if(TREE_PARSER)>
ITreeNodeStream input = (ITreeNodeStream)_input;
<endif>

int _s = s;
switch ( s ) {
  <dfa.specialStateSTs:{state |
    case <i0> : <! compressed special state numbers 0..n-1 !>
      <state> }; separator="n"> 
  } <if(backtracking)>
    if (state.backtracking > 0) {state.failed = true; return -1;}<\n>
  <endif>

  NoViableAltException nvae<dfa.decisionNumber> = 
    new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
  dfa.Error(nvae<dfa.decisionNumber>);
  throw nvae<dfa.decisionNumber>;
} <\n>
<endif>
>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
 *  state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= 
  <int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
  <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    int index<decisionNumber>_<stateNumber> = input.Index();
    input.Rewind();<\n>
  <endif>
  s = -1;
  <edges; separator="nelse ">
  <if(semPredState)> <! return input cursor to state before we rewound !>
    input.Seek(index<decisionNumber>_<stateNumber>);<\n>
  <endif>
  if ( s >= 0 ) return s;
  break;
}> 

/** Just like a fixed DFA edge, test the lookahead and indicate what
 *  state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= 
  <if((<labelExpr>) <if(predicates)>&& (<predicates>) <endif>) { s = <targetStateNumber>; }<\n>
/** An edge pointing at end-of-token; essentially matches any char; 
* always jump to the target. 
*/
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= "<<
s = <targetStateNumber>;\n>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left> && <right>)"
orPredicates(operands) ::= "(<first(operands)> <rest(operands): {o | || <o> }>)"
notPredicate(pred) ::= "!(<evalPredicate(...)>)"
evalPredicate(pred, description) ::= "(<pred>)"
evalSynPredicate(pred, description) ::= "<pred>()"
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable 
* somewhere. Must ask for the lookahead directly. 
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "<<
(LA<decisionNumber>_<stateNumber> \>= <lower> && LA<decisionNumber>_<stateNumber> \<= <upper>)
>>
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) \>= 
<lower> && input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=" || ">

// ATTRIBUTES

globalAttributeScope(scope) ::= "<<
<if(scope.attributes)>
protected class <scope.name>_scope
{
  <scope.attributes:{protected internal <it.decl>;}; separator="\n"}
} protected Stack <scope.name>_stack = new Stack();\n<<

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
    <scope.attributes:{protected internal <it.decl>;}; separator="n">
}
protected Stack <scope.name>_stack = new Stack();
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
* values.
*/
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule:returnStructName()>.<referencedRule:name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<csharpTypeInitMap.(typeName)>
>>
/** Define a rule label including default value */

ruleLabelDef(label) ::= <<
    <ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
    <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>; <<
>>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/

returnScope(scope) ::= <<
    <if(ruleDescriptor.hasMultipleReturnValues)>
        public class <ruleDescriptor:returnStructName()> : 
            <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope 
            {
                <scope.attributes:{public <it.decl>;}; separator="\n"> 
                    <@ruleReturnMembers()>
                }
            <endif>
    >>

parameterScope(scope) ::= <<
    <scope.attributes:{<it.decl>}; separator="","> 
>>

parameterAttributeRef(attr) ::= "<attr.name>"

parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
    <if(negIndex)>
        ((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name>
    <else>
        <if(index)>
            ((<scope>_scope)<scope>_stack[<index>]).<attr.name>
        <else>
            ((<scope>_scope)<scope>_stack.Peek()).<attr.name>
        <endif>
    <endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
    <if(negIndex)>
        ((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name> = expr;
    <else>
        <if(index)>
            ((<scope>_scope)<scope>_stack[<index>]).<attr.name> = expr;
        <else>
            ((<scope>_scope)<scope>_stack.Peek()).<attr.name> = expr;
        <endif>
    <endif>
>>
<else>
((<scope>_scope)_scope)_stack.Peek()).<attr.name> = <expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like { $function.size()>0 && $function::name.equals("foo") }?
*/
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
((<scope> != null) ? <scope>.<attr.name> : <initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>;
<else>
<attr.name> = <expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

 /** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.Text : null)"
tokenLabelPropertyRef_type(scope,attr) ::= "((<scope> != null) ? <scope>.Type : 0)"
classListPropertyRef_start(scope, attr) ::= "((<labelType>)retval.Start)"
classListPropertyRef_stop(scope, attr) ::= "((<labelType>)retval.Stop)"
classListPropertyRef_tree(scope, attr) ::= "((<ASTLabelType>)retval.Tree)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.TokenStream.ToString(retval.Start,retval.Stop))"
classListPropertyRef_st(scope, attr) ::= "retval.ST"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)"
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)"
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)"
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)"
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)"
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)"
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)"
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)"
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)"
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)"
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_type(scope, attr) ::= "((<labelType>)retval.Type)
classListPropertyRef_line(scope, attr) ::= "((<labelType>)retval.Line)"
classListPropertyRef_pos(scope, attr) ::= "((<labelType>)retval.CharPositionInLine)"
classListPropertyRef_channel(scope, attr) ::= "((<labelType>)retval.Channel)"
classListPropertyRef_index(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
classListPropertyRef_text(scope, attr) ::= "((<labelType>)retval.Text)"
classListPropertyRef_int(scope, attr) ::= "((<labelType>)retval.TokenIndex)"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.ST = <expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= "<action>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
 <action>
}
<else>
 <action>
 <endif>
>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)
bitset(name, words64) ::= "
public static readonly BitSet <name> = new BitSet(new ulong[]{<words64:{<it>UL};separator=",">});
"

codeFileExtension() ::= ".cs"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr_3-2-
sources/org/antlr/codegen/templates/CSharp/CSharp.stg
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ANTLR's code generator.

* Generate recognizers derived from grammars. Language independence
* achieved through the use of StringTemplateGroup objects. All output
* strings are completely encapsulated in the group files such as Java.stg.
* Some computations are done that are unused by a particular language.
* This generator just computes and sets the values into the templates;
* the templates are free to use or not use the information.

* To make a new code generation target, define X.stg for language X
* by copying from existing Y.stg most closely related to your language;
* e.g., to do CSharp.stg copy Java.stg. The template group file has a
* bunch of templates that are needed by the code generator. You can add
* a new target w/o even recompiling ANTLR itself. The language=X option
* in a grammar file dictates which templates get loaded/used.

* Some language like C need both parser files and header files. Java needs
* to have a separate file for the cyclic DFA as ANTLR generates bytecodes
directly (which cannot be in the generated parser Java file). To facilitate
* this,
* cyclic can be in same file, but header, output must be separate. recognizer
* is in outputfile.

*/

Found in path(s):
*/opt/cola/permits/1125728034_1615664205.55/0/antlr-3.2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/CodeGenerator.java
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*/

group AST;

@outputFile.imports() ::= <<
<@super.imports()>
@if(!TREE_PARSER)<!tree parser would already have imported !>
using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;\n</if>
@endif>
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
InitializeTreeAdaptor();
if ( TreeAdaptor == null )
TreeAdaptor = new CommonTreeAdaptor();
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
// Implement this function in your helper file to use a custom tree adaptor
partial void InitializeTreeAdaptor();
ITreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor
{
    get
    {
        return adaptor;
    }
    set
    {
        this.adaptor = value;
        <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>}
    }
}>

@returnScope.ruleReturnMembers() ::= <<
internal <ASTLabelType> tree;
public override object Tree { get { return tree; } }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;\n
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<![ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]>
When doing auto AST construction, we must define some variables:
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST)
@if(outerAlt)
@if(!rewriteMode)
root_0 = (<ASTLabelType>) adaptor.Nil();
@endif
@endif
@endif
>>

_tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
@tokenRefBang(...)  <!-- Track implies no auto AST construction!>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);
@endif
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
@tokenRefTrack(...)
@listLabel(elem=label,...)
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
@tokenRefBang(...)  
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);
@endif
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>
/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>  
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>  
<listLabel(elem=label+.Tree",...)>  
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>  
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+.Tree",...)>  
>>

// Rewrite

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
{
  // AST REWRITE
  // elements: <referencedElementsDeep; separator="",">
  // token labels: <referencedTokenLabels; separator="",">
  // rule labels: <referencedRuleLabels; separator="",">
  // token list labels: <referencedTokenListLabels; separator="",>


// rule list labels: <referencedRuleListLabels; separator="",">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator="",">
@if(backtracking)
if ( <actions.(actionScope).synpredgate> ) {
  
@endif
<prevRuleRootRef()>.tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
@if(TREE_PARSER)
@if(rewriteMode)
<prevRuleRootRef()>.tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
input.ReplaceChildren(adaptor.GetParent(retval.start),
  adaptor.GetChildIndex(retval.start),
  adaptor.GetChildIndex(_last),
  retval.tree);
  
@endif
@endif
<! if parser or tree-parser && rewrite!=true, we need to set result !>
@if(!TREE_PARSER)
<prevRuleRootRef()>.tree = root_0;

else
@if(!rewriteMode)
<prevRuleRootRef()>.tree = root_0;

@endif
@endif
@if(backtracking)
}

}

>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
 :[{RewriteRule<rewriteElementType>Stream stream_<it>=new
 RewriteRule<rewriteElementType>Stream(adaptor,"token <it>"",<it>);}]>
 />
<referencedTokenListLabels
 :[{RewriteRule<rewriteElementType>Stream stream_<it>=new
 RewriteRule<rewriteElementType>Stream(adaptor,"token <it>"", list_<it>);}]>
 />
<referencedWildcardLabels
 :[{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>"",<it>);}]>
 separator="\n"
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
* list rather shallow like other blocks.
*/
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= 
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElementsDeep:{el | stream_<el>.Reset();\n}> 
>>

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= 
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElements:{el | stream_<el>.Reset();\n}> 
>>

rewritePositiveClosureBlock(}
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
if ( !(<referencedElements:{el | stream_<el>.HasNext}; separator="||">) )
{
throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElements:{el | stream_<el>.Reset();\n}> >>

rewriteAlt(a) ::= <<
// <a.description>
@if(a.pred)
if (<a.pred>)
{
<a.alt>
}"\n
<else>
{
<a.alt>
}"\n
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<root:rewriteElement()>
<children:rewriteElement()>
adapter.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}"\n
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
 //@pregen()
<e.el>
/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>>;
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...>),
root_<treeLevel>);
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree?  This */
/* let's us refer to $rule to mean previous value.  I am reusing the */
/* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(<action>, root_<treeLevel>);
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", ">endif)

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>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
  <if(hetero)>
    new <hetero>(stream_<token>.NextToken()<if(args)>, <args; separator="", ">
  <else>
    <if(args)> <! must create new node from old !>
    adaptor.Create(<token>, <args; separator="", ")
  <else>
    stream_<token>.NextNode()
  <endif>
  <endif>
>>

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr_3.2-
sources/org/antlr/codegen/templates/CSharp3/AST.stg

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group Ruby implements ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules
 and cyclic DFAs plus support code. */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
    docComment, recognizer, name, tokens, tokenNames, rules,
    cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::= <<
    # <name> (<fileName>)
    # Generated by ANTLR <ANTLRVersion> on <generatedTimestamp>

    <docComment>
    <recognizer>
    >>

    /**
     * Inherits parameters from outputFile(...)
     *
     * labelType is not used for Ruby (no explicit type declarations)
     */
lexer(grammar, name, tokens, scopes, rules, numRules, labelType, filterMode,
    superClass) ::= <<
    class <name>
        require 'stringio'

        <tokens:{<it.name>=<it.type>}; separator="\n">

        def initialize(input)
            input = StringIO.new(input) if input.respond_to?(:to_str)
            @input = CharStream.new(input)
            @backtracking = 0
            @failed = false

            <actions.lexer.init>
        end

        def next_token
            # TODO: catch exceptions
            @token = nil
            @channel = nil

        end

    end

end
@text = nil
@start = @input.index
@line = @input.line
@pos = @input.column

@type = nil
@type_int = nil

return :EOF if <LA(1)> == :EOF

match_Tokens()

if @token == nil
  @text ||= @input.substring(@start, @input.index - 1)
  @token = Token.new(@type, @type_int, @line, @pos, @text, @channel)
end

<if(trace)>
  puts @token.inspect
<endif>
  return @token
end

class Token
  attr_reader :token_type
  attr_reader :int_type
  attr_reader :line
  attr_reader :pos
  attr_reader :text
  attr_reader :channel

  def initialize(token_type, int_type, line, pos, text, channel = nil)
    @token_type = token_type
    @int_type = int_type
    @line = line
    @pos = pos
    @text = text
    @channel = channel
  end

  alias :to_i :int_type
end

<actions.lexer.members>

private
class CharStream
  attr_reader :line
  attr_reader :column
  attr_reader :index

  def initialize(input)
    @buffer = ""
    @input = input
    @line = 1
    @column = 0
    @index = 0;
  end

  # returns a Fixnum between 0 and 0xFFFF or :EOF
  def look_ahead(pos)
    offset = @index + pos - 1
    if @buffer.length \< offset + 1
      char = @input.read(offset + 1 - @buffer.length)
      @buffer \<\< char if not char.nil?
    end

    if offset \< @buffer.length
      @buffer[offset]
    else
      :EOF
    end
  end

  def mark
    @state = { :index => @index, :line => @line, :column => @column }
    return 0
  end

  def rewind(marker)
    @index = @state[:index]
    @line = @state[:line]
    @column = @state[:column]
  end

  def consume
    look_ahead(1) # force a read from the input if necessary
    @column = @column + 1
    if @buffer[@index] == ?
      @line = @line + 1
      @column = 0
    end
    @index = @index + 1
  end

  # def...
end

def substring(start, stop)
    @buffer.slice(start, stop - start + 1)
end
end

def match(value = nil)
    @failed = false
    case
        when value.nil?
            @input.consume()
        when value.respond_to?(:to_str)
            catch(:done) do
                value.each_byte do |c|
                    @failed ||= !(<isolatedLookaheadTest(atom="c", k=1)>)
                    @input.consume() if !@failed
                    throw :done if @failed
                end
            end
        else
            @failed = !(<isolatedLookaheadTest(atom="value", k=1)>)
            @input.consume() if !@failed
        end
    end

    if @failed && @backtracking <= 0
        raise "Expected #{value.respond_to?(:chr) ? value.chr : value}"
    end
end

def match_range(from, to)
    char = <LA(1)>

    if char != :EOF && (char >= from || char <= to)
        @failed = false
        match()
    elsif @backtracking > 0
        @failed = true
    else
        raise "Expected [#{from.chr}..#{to.chr}]"
    end
end

<rules; separator="\n\n">
<<
require '<grammar.name>Lexer'

class <name>
  attr_reader :lexer

  TOKENS = [
    <tokenNames: [{<it>, <i>}]}; separator=",\n"
  ] .inject({}) { |hash, pair|
    name = pair[0]
    index = pair[1] + 3 # hardcoded for now... no way to get this value from ANTLR
    if name[0] == ?'
      hash[:"T#{index}" ] = index
    else
      hash[:"#{name}" ] = index
    end
  }

  hash
}

  TOKENS[:EOF] = -1

  def initialize(input)
    if input.respond_to?(:to_str) || input.respond_to?(:read)
      input = <grammar.name>Lexer.new(input)
    end

    @lexer = input
    @input = TokenStream.new(input)
    @backtracking = 0
    @failed = false

    <actions.parser.init>

    <if(trace)>
      @indent = 0
      <endif>
  end
>>
class TokenStream
  attr_reader :index

  def initialize(input)
    @buffer = []
    @input = input
    @channel = nil

    @index = 0;
  end

  # returns a Token
  def look_ahead(pos)
    offset = @index + pos - 1

    while @buffer[-1] != :EOF && @buffer.length < offset + 1
      token = @input.next_token
      if token == :EOF || token.channel == @channel
        @buffer << token
      end
    end

    offset = -1 if offset >= @buffer.length
    if offset < @buffer.length
      @buffer[offset]
    end
  end

  def mark
    @state = { :index => @index }
    return 0
  end

  def rewind(marker)
    @index = @state[:index]
  end

  def consume
    look_ahead(1) # force a read from the input if necessary
    @index = @index + 1
  end
end
def match(token = nil)
    if token.nil? || <LA(1)> == token
        @input.consume
        @failed = false
        return
    elsif @backtracking > 0
        @failed = true
    else
        raise "Expected #{token}"
    end
end

def look_ahead(k)
    token = @input.look_ahead(k)
    if token != :EOF
        token = token.token_type
    end

    token
end

<synpreds: synpred(); separator="\n\n">
# <description>
def <ruleName>_fragment
  <block>
end
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
# <description>
def <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
<ruleDescriptor.returnScope.attributes:
{ _retval_<it.name> = nil }; separator = "\n"
>
<ruleLabelDefs()>

  <if(trace)>
    puts " " * @indent + "+<ruleName>"
    @indent += 1
  <endif>

<ruleDescriptor.actions.init>

  <block>

  <if(trace)>
    @indent -= 1
    puts " " * @indent + "-<ruleName>"
  <endif>

  <if(!ruleDescriptor.isSynPred)>
    <if(ruleDescriptor.hasReturnValue)>
      <if(ruleDescriptor.hasMultipleReturnValues)>
        return {<ruleDescriptor.returnScope.attributes:{ a | :<a.name> => _retval_<a.name> }; separator = ","} 
# TODO: need "Attribute.index" for this to work: return <ruleDescriptor.returnScope.attributes:{ a |
      _retval_<a.name> }; separator = ","}
      <else>
        return _retval_<ruleDescriptor.singleValueReturnValueName>
      <endif>
    <endif>
  <endif>
  <endif>
end
>>

ruleLabelDefs() ::= <<
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName, nakedBlock, ruleDescriptor, block, memoize) ::= <<
  def match_<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
  <ruleDescriptor.actions.init>
  <lexerRuleLabelDefs()>}
  <if(nakedBlock)>
  <block>
  <else>
  @type = :<ruleName>
  @type_int = <ruleName>
  <block>
  <endif>
  end
  >>

lexerRuleLabelDefs() ::= <<
  <[ruleDescriptor.tokenLabels, ruleDescriptor.ruleLabels]
    :{<it.label.text> = nil}; separator="\n"
  >
  <ruleDescriptor.charLabels:{<it.label.text> = nil}; separator="\n">
  <[ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels]
    :{list_<it.label.text> = nil}; separator="\n"
  >
  >>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName, nakedBlock, args, block, ruleDescriptor) ::= <<
  <lexerRule(...)>
  >>

filteringNextToken() ::= <<
raise "filteringNextToken not implemented"

filteringActionGate() ::= <<
  raise "filteringActionGate not implemented"
>>

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  <switchBlock(...)
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  <switchBlock(...)
>>

/**
 *  decision, decisionNumber don't seem to be relevant in this template
 *  alts actually has a single element
 */
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  <plainBlock(...)
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  <plainBlock(...)
>>

/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <description>
  matchedOnce<decisionNumber> = false
  <decls>
  while true
    alt<decisionNumber> = <maxAlt>
  <decision>
case alt<decisionNumber>
  <alts:switchCase(); separator="\n">  
  else
    break
  end
  matchedOnce<decisionNumber> = true
end

if !matchedOnce<decisionNumber>
  raise "Expected at least one match: <description>"
end

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <description>
<decls>
while true
  alt<decisionNumber> = <maxAlt>
  <decision>
  case alt<decisionNumber>
    <alts:switchCase(); separator="\n">  
    else
      break
    end
  end
end
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
# <description>
<elements: element(); separator="\n">  
>>
// ELEMENTS

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
@if(label)
  _<label> = @input.look_ahead(1)\n
@endif
match(<token>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
@if(tokenRef(...))
  <listLabel(elem=label, ...)>  
@endif
>>

listLabel(label,elem)::=
  <<
    list_<label> ||= []
    list_<label> \\<\< _<elem>
  >>

/** match a character */
charRef(char,label)::=
  <<
@if(label)
  _<label> = <char>\n
@endif
match(<char>)
>>

/** match a character range */
charRangeRef(a,b,label)::=
  <<
@if(label)
  _<label> = <LA(1)>\n
@endif
match_range(<a>, <b>)
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode)::=
  <<
@if(label)
  _<label> = <LA(1)>\n
@endif
<endif>
if <s>
    match()
    <postmatchCode>
else
    raise "Expected set"
end
>>

matchSetAndListLabel(s,label,elementIndex,postmatchCode):=
<<
<matchSet(...>
$listLabel(elem=label,...)>>
>>

/** Match a string literal */
lexerStringRef(string,label):=
<<
<if(label)>
  _<label> = <string><\n>
<endif>
match(<string>)<\n>
>>

wildcard(label, elementIndex):=
<<
<if(label)>
  _<label> = <LA(1)><\n>
<endif>
match()  
>>

wildcardAndListLabel(label,elementIndex):=
<<
<wildcard(...)>
$listLabel(elem=label,...)>>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex):=
<<
<if(label)>
  _<label> = <LA(1)><\n>
<endif>
match()  
>>
wildcardCharListLabel(label, elementIndex)::=  
  <<  
  raise "wildcardCharListLabel not implemented"  
  >>

/** Match a rule reference by invoking it possibly with arguments  
*  and a return value or values.  
*/
ruleRef(rule, label, elementIndex, args, scope)::=  
  <<  
  <if(label)>  
  _<label> = <rule>(<args; separator="", "></n>  
  <else>  
  <rule>(<args; separator="", "></n>  
  <endif>  
  >>

/** ids+=ID */
ruleRefAndListLabel(rule, label, elementIndex, args, scope)::=  
  <<  
  <ruleRef(...)>  
  <listLabel(elem=label, ...)>  
  >>

/**
A: b=B;
B: ;

TODO: Should we use a real token type instead of :invalid? How do we get it?
*/
lexerRuleRef(rule, label, args, elementIndex, scope)::=  
  <<  
  <if(label)>  
  _<label>_start_<elementIndex> = @input.index  
  _<label>_line_<elementIndex> = @input.line  
  _<label>_pos_<elementIndex> = @input.column  
  match_<rule>(<args; separator="", ">)  
  _<label> = Token.new(:invalid, 0,  
  _<label>_line_<elementIndex>,  
  _<label>_pos_<elementIndex>,  
  @input.substring(_<label>_start_<elementIndex>, @input.index - 1), nil)  
  <else>  
  match_<rule>(<args; separator="", ">)  
  <endif>

lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= 
<< 
<lexerRuleRef(...)>
<listLabel(elem=label,...)> 
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex):=
<<
<if(label)>
  _<label> = :EOF\n>
<endif>
match(:EOF)
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, 
    treeLevel) ::= 
<<
raise "tree not implemented"
>>

/** Every predicate is used as a validating predicate (even when it is 
*  also hoisted into a prediction expression). */
validateSemanticPredicate(pred,description):=
<<
# <description>
if !<evalPredicate(...)>
  raise "Semantic predicate failed: #{<description>}"
end
>>

// F i x e d  D F A  (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState):=
<<
# <description>
look_ahead<decisionNumber>_<stateNumber> = <LA(k)>
<if(LEXER)>
  look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

  if <edges; separator="\nnelsif ">
else
## dfaOptionalBlockState

```plaintext
/* Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 *
 * If a semPredState, don't force lookahead lookup; preds might not
 * need.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
look_ahead<decisionNumber>_<stateNumber> = <LA(k)>

<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

if <edges; separator="\nelsif ">
end
>>
```

## dfaLoopbackState

```plaintext
/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a
 * rule anything other than 'a' predicts exiting.
 *
 * If a semPredState, don't force lookahead lookup; preds might not
 * need.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
look_ahead<decisionNumber>_<stateNumber> = <LA(k)>

<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

if <edges; separator="\nelsif ">
end
>>
```

/** An accept state indicates a unique alternative has been predicted */
/** It is not clear that decisionNumber is available here */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates)::=
<<
  <labelExpr>  <if(predicates)>&& <predicates><endif>
  <targetState>
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
  case <LA(k)>
    <edges; separator="\n"> 
    else
      <if(eotPredictsAlt)>
        alt<decisionNumber> = <eotPredictsAlt>
        <else>
          raise "Expected: <description>
        <endif>
    end
>>

/**
* eotPredictsAlt is not relevant here
*/
dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
  case <LA(k)>
dfALoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState)::=

<<
# <description>
case <LA(k)>
    <edges; separator="\n">
    <if(eotPredictsAlt)><\n>
    else
    alt<decisionNumber> = <eotPredictsAlt>
    <endif>
end
>>

dfaEdgeSwitch(labels, targetState)::=

<<
<if(PARSER)>
when <labels:{:<it>}; separator=","><\n>
<else>
when <labels:{<it>}; separator=","><\n>
<endif>
    <targetState>
>>

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber, description)::=

<<
altdfA<decisionNumber> = DFA<decisionNumber>.predict(self, @input)
>>

/** Generate the tables and support code needed for the DFAState object
* argument. Unless there is a semantic predicate (or syn pred, which
* become sem preds), all states should be encoded in the state tables.
* Consequently, cyclicDFAState/cyclicDFAEdge,eotDFAEdge templates are
* not used except for special DFA states that cannot be encoded as
* a transition table.
*/
cyclicDFA(dfa)::=

<<
DFA<dfa.decisionNumber> = DFA.new(
def special_state_transition(s):
    if dfa.specialStateSTs:
        case s:
            dfa.specialStateSTs: { state |
                when <i0>
                    <state> }
            end
        end
    raise "Expected: <dfa.description>"
    -1
end

/** A special state in a cyclic DFA; special means has a semantic predicate
* or it's a huge set of symbols to check.
*/
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState)::=
    <<
        @input.rewind(0)
        @input.rewind(0)
        <else>
            look_ahead_<decisionNumber>_<stateNumber> = <LA(1)>
            <endif>
        s = -1
        <edges>
        return s if s >= 0
    >>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful. Again, this is for special
* states.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates)::=
    <<

return s = <targetStateNumber> if (<labelExpr>) <if(predicates)&& (<predicates>)<endif><\n>
>
/** An edge pointing at end-of-token; essentially matches any char;
  * always jump to the target.
  */
eotDFAEdge(targetStateNumber,edgeNumber, predicates)::=
<<
s = <targetStateNumber><\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right)::= "(<left> && <right>)"

orPredicates(operands)::=
<<
  (<operands; separator=" || ">)
>>

notPredicate(pred)::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description)::= "(<pred>)"

evalSynPredicate(pred,description)::= "<pred>()"

/**
  * It's not really clear that decisionNumber and stateNumber are available here
  */
lookaheadTest(atom,k,atomAsInt)::=
<<
  <if(LEXER)>
  look_ahead<decisionNumber>_<stateNumber> == <atom>
  <else>
  look_ahead<decisionNumber>_<stateNumber> == :<atom>
  <endif>
>>

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
  * somewhere. Must ask for the lookahead directly.
  */
isolatedLookaheadTest(atom,k,atomAsInt) ::= 
<<
  <if(LEXER)>
  <LA(k)> == <atom>
  <else>
  <LA(k)> == :<atom>
  <endif>
>>
open

/**
 * It's not really clear that decisionNumber and stateNumber are available here
 */
lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <<
  <if(LEXER)>
  (look_before<decisionNumber,_<stateNumber> \= lower & look_before<decisionNumber,_<stateNumber> \= upper)
  <else>
  (TOKENS[look_before<decisionNumber,_<stateNumber>] \= lowerAsInt & TOKENS[look_before<decisionNumber,_<stateNumber>] \= upperAsInt)
  <endif>
>>

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <<
  <if(LEXER)>
  (<LA(k)> \= lower & <LA(k)> \= upper)
  <else>
  (TOKENS[<LA(k)>] \= lowerAsInt & TOKENS[<LA(k)>] \= upperAsInt)
  <endif>
>>

setTest(ranges) ::= <<
  <ranges; separator=" || ">
>>

// ATTRIBUTES

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr, expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope, attr, index, negIndex) ::= <<
  raise "scopeAttributeRef not implemented"
>>

scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <<
  raise "scopeSetAttributeRef not implemented"
>>

/** $x$ is either global scope or $x$ is rule with dynamic scope; refers

---
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}? */

isolatedDynamicScopeRef(scope):= << raise "isolatedDynamicScopeRef not implemented" >>

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr):= <<
  <if(referencedRule.hasMultipleReturnValues)>
    _<scope>[::<attr.name>]
  <else>
    _<scope>
  <endif>
>>

/**
  <if(referencedRule.hasMultipleReturnValues)>
  <scope>[::<attr.index>] # TODO: need "Attribute.index" for this to work
  <else>
  <scope>
  <endif>
>>
/**
returnAttributeRef(ruleDescriptor,attr):= <<
  _retval_<attr.name>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::=
<<
  _retval_<attr.name> = <expr>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label)::= "_<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label)::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(
tokenLabelPropertyRef_tree(scope,attr)::= "<scope>.tree"
raise "tokenLabelPropertyRef_tree not implemented"
>>

ruleLabelPropertyRef_start(scope,attr)::=
<<
raise "ruleLabelPropertyRef_start not implemented"
>>

ruleLabelPropertyRef_stop(scope,attr)::=
<<
raise "ruleLabelPropertyRef_stop not implemented"
>>

ruleLabelPropertyRef_tree(scope,attr)::=
<<
raise "ruleLabelPropertyRef_tree not implemented"
>>

ruleLabelPropertyRef_text(scope,attr)::=
<<
raise "ruleLabelPropertyRef_text not implemented"
>>

ruleLabelPropertyRef_st(scope,attr)::=
<<
raise "ruleLabelPropertyRef_st not implemented"
>>

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label)::=
<<
raise "lexerRuleLabel not implemented"
>>

lexerRuleLabelPropertyRef_type(scope,attr)::=
<<
raise "lexerRuleLabelPropertyRef_type not implemented"
>>
lexerRuleLabelPropertyRef_line(scope,attr)::=
    <<
    raise "lexerRuleLabelPropertyRef_line not implemented"
    >>

lexerRuleLabelPropertyRef_pos(scope,attr)::=
    <<
    raise "lexerRuleLabelPropertyRef_pos not implemented"
    >>

lexerRuleLabelPropertyRef_channel(scope,attr)::=
    <<
    raise "lexerRuleLabelPropertyRef_channel not implemented"
    >>

lexerRuleLabelPropertyRef_index(scope,attr)::=
    <<
    raise "lexerRuleLabelPropertyRef_index not implemented"
    >>

lexerRuleLabelPropertyRef_text(scope,attr)::=
    <<
    raise "lexerRuleLabelPropertyRef_text not implemented"
    >>

lexerRulePropertyRef_text(scope,attr) ::= "@text"
lexerRulePropertyRef_type(scope,attr) ::= <<
    raise "lexerRulePropertyRef_type not implemented"
    >>

lexerRulePropertyRef_line(scope,attr) ::= "@line"
lexerRulePropertyRef_pos(scope,attr) ::= "@pos"

lexerRulePropertyRef_index(scope,attr) ::= <<
    raise "lexerRulePropertyRef_index not implemented"
    >>

lexerRulePropertyRef_channel(scope,attr) ::= "@channel"

lexerRulePropertyRef_start(scope,attr) ::= "@start"
lexerRulePropertyRef_stop(scope,attr) ::= <<
    raise "lexerRulePropertyRef_stop not implemented"
    >>

ruleSetPropertyRef_tree(scope,attr,expr) ::= <<
    raise "ruleSetPropertyRef_tree not implemented"
    >>
ruleSetPropertyRef_st(scope,attr,expr) ::= <<
raise "ruleSetPropertyRef_st not implemented"
>>

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr)::=
  <<
raise "rulePropertyRef_start not implemented"
>>

rulePropertyRef_stop(scope,attr)::=
  <<
raise "rulePropertyRef_stop not implemented"
>>

rulePropertyRef_tree(scope,attr)::=
  <<
raise "rulePropertyRef_tree not implemented"
>>

rulePropertyRef_text(scope,attr)::=
  <<
raise "rulePropertyRef_text not implemented"
>>

rulePropertyRef_st(scope,attr)::=
  <<
raise "rulePropertyRef_st not implemented"
>>

/** How to execute an action */
/** TODO: add syntactic predicate & bactracking gates **/
execAction(action)::=
  <<
  <action>
>>

// M I S C (properties, etc...)

codeFileExtension()::=".rb"

true()::= "true"
false()::= "false"

noRewrite(rewriteBlockLevel, treeLevel) ::= ""
bitset() ::= <<
raise "bitset not implemented"
>>

element() ::= "<it.el>"

plainBlock(decls, alts, description) ::= <<
<decls>
<alts>
>>

switchBlock(description, decisionNumber, maxAlt, alts, decls, decision) ::= <<
# <description>
alt<decisionNumber> = <maxAlt>
<decls>
<decision>
  case alt<decisionNumber>
    <alts:switchCase(); separator="\n">
  end
>>

switchCase() ::= <<
when <i>
  <it>
>>

LA(k) ::= <<
@if(LEXER>
@input.look_ahead(<k>)
@else
look_ahead(<k>)
@endif>
>>

synpred(name) ::= <<
def <name>
  start = @input.mark()
  @backtracking += 1
<name>_fragment()
@backtracking -= 1
success = !@failed
@input.rewind(start)
@failed = false
return success
end
>>
parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

dfaClass() ::= <<
<if(cyclicDFAs)>
class DFA
def initialize(eot, eof, min, max, accept, special, transition)
@eot = eot
@eof = eof
@min = min
@max = max
@accept = accept
@special = special
@transition = transition
end
def predict(parser, input)
mark = input.mark()
s = 0 # we always start at s0
begin
loop do
special_state = @special[s]
if special_state >= 0
s = parser.special_state_transition(special_state)
input.consume()
next
end
if @accept[s] >= 1
return @accept[s]
end
# look for a normal char transition
c = input.look_ahead(1).to_i
if c != :EOF && c >= @min[s] && c \<= @max[s]

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next_state = @transition[s][c - @min[s]] # move to next state
if next_state \< 0
  # was in range but not a normal transition
  # must check EOT, which is like the else clause.
  # @eot[s] >= 0 indicates that an EOT edge goes to another
  # state.
  if @eot[s] >= 0  # EOT Transition to accept state?
    s = @eot[s]
    input.consume()
    next
  end
  raise "No viable alt"
end
s = next_state
input.consume()
next
end
if @eot[s] >= 0   # EOT Transition?
  s = @eot[s]
  input.consume()
  next
end
if c == :EOF && @eof[s] >= 0   # EOF Transition to accept state?
  return @accept[@eof[s]]
end
  
  # not in range and not EOF/EOT, must be invalid symbol
  raise "No viable alt"
end
ensure
  input.rewind(mark)
end
end
<endif>
>

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/** Templates for building ASTs during tree parsing. *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * Each combination has its own template except that label/no label
 * is combined into tokenRef, ruleRef, ...
 */

group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  <ASTLabelType> _last;<n>
  <ASTLabelType> _first_0;<n>
>>

/** Add a variable to track last element matched */
ruleInitializations() ::= <<
<super.ruleInitializations()>
_last = NULL;\n
_first_0 = NULL;\n
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
@if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
@if(rewriteMode>)
retval.tree = (_ASTLabelType>_first_0;
if ( ADAPTOR->getParent(ADAPTOR, retval.tree) != NULL && ADAPTOR->isNilNode(ADAPTOR, ADAPTOR->getParent(ADAPTOR, retval.tree)) )
{
    retval.tree = (_ASTLabelType>)ADAPTOR->getParent(ADAPTOR, retval.tree);
}
@endif>
@if(backtracking)>}<endif>
@if(backtracking)>}</if>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = (_ASTLabelType>)LT(1);
{
_ASTLabelType> _save_last_<treeLevel>;
_ASTLabelType> _first_<treeLevel>;
@if(!rewriteMode>)
_ASTLabelType> root_<treeLevel>;
@endif>
_save_last_<treeLevel> = _last;
_first_<treeLevel> = NULL;
@if(!rewriteMode>)
root_<treeLevel> = (_ASTLabelType>)ADAPTOR->nilNode(ADAPTOR));
@endif>
<root:element()>
@if(rewriteMode>)
@if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
@if(root.el.rule)>}
@if(backtracking)>}</if>
>>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
    MATCHT(ANTLR3_TOKEN_DOWN, NULL);
    <children:element()>
    MATCHT(ANTLR3_TOKEN_UP, NULL);
}
<else>
MATCHT(ANTLR3_TOKEN_DOWN, NULL);
<children:element()>
MATCHT(ANTLR3_TOKEN_UP, NULL);
<endif>
<if(!rewriteMode)>
ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
    _last = (<ASTLabelType>)LT(1);
    <super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
      _last = (<ASTLabelType>)LT(1);
      <super.tokenRef(...)>
      <if(!rewriteMode)>
        <if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
        <if(hetero)>
          <label>_tree = <hetero>New(<label>);
        <else>
          <label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
          <endif>
          ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
        <if(backtracking)>}<endif>
        <else>
          <lb标签>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
          <endif>
        <if(backtracking)>}<endif>
      <endif>
      if (_first_<treeLevel> == NULL ) _first_<treeLevel> = <label>;
      <if(backtracking)>}<endif>
>
/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...>)
  <listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.tokenRef(...)>
  <if(!rewriteMode)>
    <if(backtracking)>
      if ( BACKTRACKING == 0 ) {<endif>
      <if(hetero)>
        <label>_tree = <hetero>New(<label>);
      <else>
        <label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
      <endif>
      root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
      <if(backtracking)>}
    <endif>
  <else> <! rewrite mode !>
    <if(backtracking)>
      if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
    <endif>
  <endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.wildcard(...)>
  <if(!rewriteMode)>
    <if(backtracking)>
      if ( <actions.(actionScope).synpredgate> ) {<endif>
      <label>_tree = (<ASTLabelType>)ADAPTOR->dupTree(ADAPTOR, <label>);
      ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
      <if(backtracking)>}
    <endif>
  <else> <! rewrite mode !>
    <if(backtracking)>
      if ( <actions.(actionScope).synpredgate> )<endif>
      if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
    <endif>
  <endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)LT(1);
matchRuleBlockSet(s, label, hetero, elementIndex, postmatchCode, treeLevel="0") ::= <<<
<super.matchSet(...)>
<noRewrite()>
<! set return tree !>
>>

matchSetBang(s, label, elementIndex, postmatchCode) ::= <<<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s, label, hetero, elementIndex, debug) ::= <<<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
<if(backtracking)>}<endif>
<endif>
}
})>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule, label, elementIndex, args, scope) ::= <<<
_last = (<ASTLabelType>)LT(1);
<super.ruleRef(..., scope)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
{ 
<endif>
<if(!rewriteMode)>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>.tree);
<else>
if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>.tree;
<endif>
<if(backtracking)> }<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)> 
<super.listLabelAST(elem=label,...)> 
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRef(...)> 
<if(!rewriteMode)>
<if(backtracking)>if ( ( <actions.(actionScope).synpredgate> ) ) <endif>root_<treeLevel> = 
( <ASTLabelType> )(ADAPTOR->becomeRoot(ADAPTOR, <label>.tree, root_<treeLevel>));
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)> 
<super.listLabelAST(elem=label,...)> 
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefTrack(...)> 
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefRootTrack(...)> 
>>
/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefRuleRootTrackAndListLabel(...)>;
>>

/** Streams for token refs are tree nodes now; override to */
* change nextToken to nextNode.
* /
createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
    <hetero>New(stream_<token>->nextNode(stream_<token>))
  <else>
    stream_<token>->nextNode(stream_<token>)
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp(...)>;
  if (backtracking) {
    if ( <actions.(actionScope).synpredgate> ) {
      <endif>
      <if(!ruleDescriptor.isSynPred)>
        retval.stop = LT(-1);<\n>
      <endif>
      retval.tree = (<ASTLabelType>)ADAPTOR->rulePostProcessing(ADAPTOR, root_0);
      <if(backtracking)>
    }
  <endif>
  <ruleDescriptor.allTokenRefsInAltsWithRewrites
    :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">;
  <ruleDescriptor.allRuleRefsInAltsWithRewrites
    :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">;
>>

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-targ-
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*/

group ASTDbg;

/*
parserMembers() ::= <<
protected TreeAdaptor adaptor =
    new DebugTreeAdaptor(dbg,new CommonTreeAdaptor());
public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
}
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}<\n>>
*/

@treeParserHeaderFile.superClassName ::= "ANTLRDebugTreeParser"

@rewriteElement.pregen() ::= "[debugListener locationLine:<e.line> column:<e.pos>];"

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/ObjC/ASTDbg.stg
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/** Templates for building ASTs during normal parsing.
 * * Deal with many combinations. Dimensions are:
 * * Auto build or rewrite
 * * no label, label, list label (label/no-label handled together)
 * * child, root
 * * token, set, rule, wildcard
 * *
 * * The situation is not too bad as rewrite (->) usage makes ^ and !
 * * invalid. There is no huge explosion of combinations.
 */
group ASTParser;

@rule.setErrorReturnValue() ::= <<
retval.tree = (<ASTLabelType>)(ADAPTOR->errorNode(ADAPTOR, INPUT, retval.start, LT(-1), EXCEPTION));
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super/tokenRef(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
@if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "$<super.tokenRef(...)>$"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<<
<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
<if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<<
<tokenRefBang(...)>
<label>_tree = <createNodeFromToken(...)>
>>> 

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<<
<label>_tree = <createNodeFromToken(...)>
>>> 

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<<
<label>_tree = <createNodeFromToken(...)>
>>> 

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or rulerroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<<
<super.matchSet..., postmatchCode={ <if(backtracking)>if ( <actions.(actionScope).synpredgate> )
<endif>ADAPTOR->addChild(ADAPTOR, root_0, <createNodeFromToken(...)>)}}
>>>
matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<\n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createNodeFromToken(...)>, root_0));})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>ADAPTOR->addChild(ADAPTOR, root_0, <label>.tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>.tree, root_0));
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<labelAST(...)
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<labelAST(...)
>>
/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)> 
<listLabelAST(...)> 
>>

// WILDCARD AST
wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
@if(backtracking)>}<endif>
>>

cREATE_NODE_FROM_TOKEN(label,hetero) ::= <<
@if(hetero)>
<hetero>New(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>))
@endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp(...)>
@if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {

@if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);\n
@endif>
retval.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
ADAPTOR->setTokenBoundaries(ADAPTOR, retval.tree, retval.start, retval.stop);
@if(ruleDescriptor.allTokenRefsInAltsWithRewrites)>
{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n"
<ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
  </f
  </nf
  </endif>
>

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gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/CTarget.java
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*/
/** Templates for building ASTs during tree parsing. */

* Deal with many combinations. Dimensions are:
  * Auto build or rewrite
  * no label, label, list label (label/no-label handled together)
  * child, root
  * token, set, rule, wildcard
  *
  * Each combination has its own template except that label/no label
  * is combined into tokenRef, ruleRef, ...
  */

group ASTTreeParser;

finishedBacktracking(block) ::= <<
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
  <block>
<else>
  <block>
<endif>
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
  _first_0 = None
  _last = None
>>

/** What to emit when there is no rewrite rule. For auto build */
  * mode, does nothing.
  */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
  <finishedBacktracking({
  </if(rewriteMode)>
  retval.tree = _first_0
  if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
    retval.tree = self._adaptor.getParent(retval.tree)
  }
  }>)
>>

/** match ^(root children) in tree parser; override here to */
* add tree construction actions.
* /
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = self.input.LT(1)
/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<<
<super.tokenRef(...>)
$listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<<
_last = self.input.LT(1)
<super.tokenRef(...>)
<if(!rewriteMode)>
<finishedBacktracking(
  <if(hetero)>
  <label>_tree = <hetero>(<label>)
  <else>
  <label>_tree = self._adaptor.dupNode(<label>)
  <endif> <\n>
  self._adaptor.addChild(root_<treeLevel>, <label>_tree)
  })>
  <else> <! rewrite mode !>
  <finishedBacktracking(
    if _first_<treeLevel> is None:
      _first_<treeLevel> = <label><\n>
  })>
  <endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<<
<tokenRefRuleRoot(...)>
$listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
    _last = self.input.LT(1)
    <super.wildcard(...)>
    <if(!rewriteMode)>
    <finishedBacktracking({
        <label>_tree = self._adaptor.dupTree(<label>)
        self._adaptor.addChild(root_<treeLevel>, <label>_tree)
    })>
    </if> <! rewrite mode !>
    <finishedBacktracking({
        if _first_<treeLevel> is None:
            _first_<treeLevel> = <label>
    })>
    </endif>
>>

// SET AST
matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
    _last = self.input.LT(1)
    <super.matchSet(..., postmatchCode={
        <if(!rewriteMode)>
        <finishedBacktracking({
            <if(hetero)>
            <label>_tree = <hetero>(<label>)
            <else>
            <label>_tree = self._adaptor.dupNode(<label>)
            </endif>
        })>
        </if> <! rewrite mode !>
        <finishedBacktracking({
            if _first_<treeLevel> is None:
                _first_<treeLevel> = <label>
        })>
        </endif>
    })>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,treeLevel="0") ::= <<
    <matchSet(...)>
    <noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
    _last = self.input.LT(1)
    <super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
    <super.matchSet(..., postmatchCode={
        <if(!rewriteMode)>
        <finishedBacktracking({
            <if(hetero)>
        })>
    })>
>>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})
<endif>
}
}}

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>
<finishedBacktracking{
<if(!rewriteMode)>
self._adaptor.addChild(root_<treeLevel>, <label>.tree)
<else> <! rewrite mode !>
if _first_<treeLevel> is None:
    _first_<treeLevel> = <label>.tree
<endif>
}
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+.tree"...")>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>
<if(!rewriteMode)>
<finishedBacktracking{
root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
}
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".tree"...>)
>>
/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefTrack(...)> >>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefTrackAndListLabel(...)> >>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefRuleRootTrack(...)> >>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefRuleRootTrackAndListLabel(...)> >>

/** Streams for token refs are tree nodes now; override to
*  change nextToken to nextNode. */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
    <hetero>(stream_<token>.nextNode())
  <else>
    stream_<token>.nextNode()
  <endif> >>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
    <finishedBacktracking({
      retval.tree = self._adaptor.rulePostProcessing(root_0)
    })>
  <endif> >>

Found in path(s):
  * /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-
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/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : C# by code generator.
*/
group ASTDbg;

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;
public ITreeAdaptor TreeAdaptor
{
get {
<if(grammar.grammarIsRoot)>
return this.adaptor;
<else>
this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
<endif></n>
<grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>}
set { this.adaptor = new DebugTreeAdaptor(dbg, value); }
}</grammar.directDelegates>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, adaptor);
DebugListener = proxy;
<!
Original line follows, replaced by the next two ifs:
set<inputStreamType>(new Debug<inputStreamType>(input,proxy));
!>
<if(PARSER)>
TokenStream = new DebugTokenStream(input,proxy);
<endif>
<if(TREE_PARSER)>
TokenStream = new DebugTreeNodeStream(input,proxy);
<endif>
try {
    proxy.Handshake();
} catch (IOException ioe) {
    ReportError(ioe);
}
>>

@ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

@ctorForProfilingRootGrammar.finally() ::=<<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

@ctorForPredefinedListener.superClassRef() ::= "base(input, dbg)"

@ctorForPredefinedListener.finally() ::=<<
@if(grammar.grammarIsRoot) <! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
</n>
@rewriteElement.preGen() ::= "dbg.Location(<e.line>,<e.pos>);"

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/CSharp/ASTDbg.stg

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/tool/BuildDependencyGenerator.java
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/misc/Graph.java
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*/
group AST;

/** Add an adaptor property that knows how to build trees */
@headerFile.members() ::= <<
/* @headerFile.members() */
pANTLR3_BASE_TREE_ADAPTOR adaptor;
pANTLR3_VECTOR_FACTORY vectors;
/* End @headerFile.members() */
>>

/** Install the tree adaptor interface pointer and anything else that
* tree parsers and producers require. */
@genericParser.apifuncs() ::= <<
@if(PARSER)>

ADAPTOR= ANTLR3_TREE_ADAPTORNew(instream->tstream->tokenSource->strFactory);
ctx->vectors= antlr3VectorFactoryNew(0);
>
@genericParser.cleanup() ::= <<
ctx->vectors->close(ctx->vectors);
@if(PARSER)
/* We created the adaptor so we must free it */
ADAPTOR->free(ADAPTOR);
@end

@returnScope.ruleReturnMembers() ::= <<
<super.ASTLabelType()>tree;
>
/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0;\n
>
ruleInitializations() ::= <<
<super.ruleInitializations()>
root_0 = NULL;\n
>
ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites:
  [:pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;]; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites:
  [:pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;]; separator="\n">

/* Note that we defer the actual creation of any rewrite streams we need here and just initialize
* them to NULL. This saves creating huge numbers of rewrite streams that cannot be used as only
* one alt will be taken in a rule, but we are declaring all the streams here. So we define
* a macro that contains the create code, then use this macro later to check if the stream
* has been created yet. Checking for NULL is almost free in C.
*/
ruleLabelInitializations() ::= <<
// Tracking Rule Elements
//
/** ID but track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
  <tokenRefBang(...)>  <!-- Track implies no auto AST construction!-->  
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<token>; stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif>>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids and to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefTrack(...)>  
  <listLabel(elem=label,...)> 
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
  <tokenRefBang(...)>  
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<token>; stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif>>
>>

wildcardTrack(label,elementIndex) ::= <<
  <super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>; stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefTrack(...)>  
  <listLabelTrack(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>; stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>>
>>
/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabelAST(...)>
>>

// RULE REF AST

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)> 
<listLabel(elem=label,...)> 
>>

/* How to accumulate lists when we are doing rewrite tracking...
*/
listLabelTrack(label) ::= <<
/* listLabelTrack(label) */
if (list_<label> == NULL) {
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>->add(list_<label>, <label>.tree, NULL);
>>

/* How to accumulate lists of rule outputs (only allowed with AST
* option but if the user is going to walk the tree, they will want
* all their custom elements from rule returns.
* 
* Normally, we use inline structures (which the compiler lays down
* code to copy from heap allocations. However, here we want to accumulate copies
* of the returned structures because we are adding them to a list. This only makes sense if the
* grammar is not rewriting the tree as a tree rewrite only preserves the tree, not the object/structure
* returned from the rule. The rewrite will extract the tree pointer. However, if we are not going to
* do a tree re-write, then the user may wish to iterate the structures returned by the rule in
* action code and will expect the user defined returns[] elements to be available when they do this.
* Hence we cannot just preserve the tree that was returned. So, we must copy the local structure and provide
* a function that can free the allocated space. We cannot know how to free user allocated elements and
* presume that the user will know to do this using their own factories for the structures they allocate.
*/
listLabelAST(label) ::= <<
if (list_<label> == NULL) 

{  
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}

{  
    RETURN_TYPE_<label> * tcopy;

    tcopy = (RETURN_TYPE_<label> *)ANTLR3_MALLOC(sizeof(RETURN_TYPE_<label>)); /* Note no memory allocation checks! */
    ANTLR3_MEMCPY((void *)(tcopy), (const void *)&<label>, sizeof(RETURN_TYPE_<label>));
    list_<label>->add(list_<label>, (void *)tcopy, freeScope); /* Add whatever the return type is */
}

// R e w r i t e

rewriteCode(
    alts,
    description,
    referencedElementsDeep, // ALL referenced elements to right of ->
    referencedTokenLabels,  
    referencedTokenListLabels,  
    referencedRuleLabels,  
    referencedRuleListLabels,  
    referencedWildcardLabels,  
    referencedWildcardListLabels,  
    rewriteBlockLevel,  
    enclosingTreeLevel,  
    treeLevel) ::= <<
    /* AST REWRITE */
    * elements : <referencedElementsDeep; separator=", ">
    * token labels : <referencedTokenLabels; separator=", ">
    * rule labels : <referencedRuleLabels; separator=", ">
    * token list labels : <referencedTokenListLabels; separator=", ">
    * rule list labels : <referencedRuleListLabels; separator=", ">
    /*
    <if(backtracking)>
    if ( <actions.(actionScope).synpredgate> )
    <endif>
    
    <rewriteCodeLabelsDecl()>  
    <rewriteCodeLabelsInit()>  
    root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
    <prevRuleRootRef()> .tree = root_0;
    <alts:rewriteAlt(); separator="else ">
    <if(TREE_PARSER>)
    <if(rewriteMode)>
<prevRuleRootRef>.tree = (ASTLabelType)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
INPUT->replaceChildren(INPUT, ADAPTOR->getParent(ADAPTOR, retval.start),
ADAPTOR->getChildIndex(ADAPTOR, retval.start),
ADAPTOR->getChildIndex(ADAPTOR, _last),
retval.tree);
<endif>
<endif>
<prevRuleRootRef>.tree = root_0; // set result root
<rewriteCodeLabelsFree()>

}
>>

rewriteCodeLabelsDecl() ::= <<
<referencedTokenLabels
:(pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;)
separator="\n"
>
<referencedTokenListLabels
:(pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;)
separator="\n"
>
<referencedRuleLabels
:(pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;)
separator="\n"
>
<referencedRuleListLabels
:(pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;)
separator="\n"
>
>>

rewriteCodeLabelsInit() ::= <<
<referencedTokenLabels
:{stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"token <it>", <it>);}
separator="\n"
>
<referencedTokenListLabels
:{stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEV(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"token <it>", list_<it>); }
separator="\n"
>
<referencedRuleLabels
:{stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"token <it>", <it>.tree != NULL ? <it>.tree : NULL);}
separator="\n"
>
/** Generate code for an optional rewrite block; note it uses the deep ref'd element list rather shallow like other blocks. */
rewriteOptionalBlock(
  alt,
  rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  // <fileName>:<description>
  { if ( <referencedElementsDeep:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) });
  separator="|| ">
  { <alt> }
  <referencedElementsDeep:{el | if ( stream_<el> != NULL) stream_<el>->reset(stream_<el>);<\n> }
} <\n>
>>
rewriteClosureBlock(
  alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
{
while ( <referencedElements:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) }; separator="|| " > )
{
<alt>
}
<referencedElements:{el | if (stream_<el> != NULL) stream_<el>->reset(stream_<el>);<\n> }>
}<\n>
>>

RewriteEarlyExitException() ::=
<<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_REWRITE_EARLY_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_REWRITE_EARLY_EXCEPTION_NAME;
>>

rewritePositiveClosureBlock(
alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
if ( <referencedElements:{el | (stream_<el> == NULL || !stream_<el>->hasNext(stream_<el>)) }; separator="|| " > )
{
<RewriteEarlyExitException()>
}
else
{
while ( <referencedElements:{el | (stream_<el>->hasNext(stream_<el>)) }; separator="|| " > )
{
<alt>
}
<referencedElements:{el | stream_<el>->reset(stream_<el>);<\n> }>
}
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if ((a.pred))
{
<a.alt>
}<\n>
/** For empty rewrites: "r : ... - > ;" */
rewriteEmptyAlt() ::= "root_0 = NULL; /* \<-- rewriteEmptyAlt() */"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<root:rewriteElement()>
<children:rewriteElement()>
ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
}
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createRewriteNodeFromElement(...)>);
<endif>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextNode(stream_<label>));
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextNode(stream_<label>));
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRootToken(ADAPTOR, stream_<label> == NULL ?

---
/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
  root_<treeLevel> = (<ASTLabelType>(ADAPTOR->becomeRoot(ADAPTOR,
    <createRewriteNodeFromElement(...)>, root_<treeLevel>));
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
  root_<treeLevel> = (<ASTLabelType>(ADAPTOR->becomeRoot(ADAPTOR,
    <createImaginaryNode(tokenType=token, ...)>, root_<treeLevel>));
>>

/* plain -> {foo} action */
rewriteAction(action) ::= <<
  root_0 = <action>;<
>>

/** What is the name of the previous value of this rule's root tree?  This
  * let's us refer to $rule to mean previous value.  I am reusing the
  * variable 'tree' sitting in retval struct to hold the value of root_0 right
  * before I set it during rewrites.  The assign will be to retval.tree.
  */
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule,dup) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<rule> == NULL ? NULL : stream_<rule>-
    >nextTree(stream_<rule>));
>>

rewriteRuleRefRoot(rule,dup) ::= <<
  root_<treeLevel> = (<ASTLabelType>(ADAPTOR->becomeRoot(ADAPTOR, stream_<rule> == NULL ? NULL
    : stream_<rule>->nextNode(stream_<rule>), root_<treeLevel>));
>>

rewriteNodeAction(action) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <action>);
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <action>, root_<treeLevel>));

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>->nextTree(stream_<label>));
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>->nextTree(stream_<label>));
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<label> == NULL ? NULL : stream_<label>->nextNode(stream_<label>), root_<treeLevel>));
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot((<ASTLabelType>)(stream_<label> == NULL ? NULL : stream_<label>->nextNode(stream_<label>), root_<treeLevel>));
>>

rewriteWildcardLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>->nextTree(stream_<label>));
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
<hetero>New(<tokenType><if(args), <args; separator=", "><endif>)
<else>
<if(args)>
#if <length(args) == 2
(<ASTLabelType>)ADAPTOR->createTypeTokenText(ADAPTOR, <tokenType>, TOKTEXT(<args; separator=" ", ">))
#else
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)<args; separator=" ", ">)
#endif
<else>

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createRewriteNodeFromElement(token,hetero,args) ::= <<
  if(hetero)>
  <hetero>New(stream_<token>-&gt;nextToken(stream_<token>), if(args), <args; separator=&quot;,&quot;>&lt;endif&gt;)
  &lt;else&gt;
  &lt;if(args)&gt; !! must create new node from old !!

  #if &lt;length(args)&gt; == 2
  ADAPTOR-&gt;createTypeTokenText(ADAPTOR, &lt;token-&gt;&gt;&gt;getType(&lt;token&gt;, TOKTEXT(&lt;token&gt;, &lt;args; separator=&quot;,&quot;)) /* JIMI */
  #else
  ADAPTOR-&gt;createTypeToken(ADAPTOR, &lt;token&gt;&gt;&gt;getType(&lt;token&gt;, &lt;token&gt;, &lt;args; separator=&quot;,&quot;))
  #endif

  &lt;else&gt;
  stream_<token> == NULL ? NULL : stream_<token>-&gt;nextNode(stream_<token>)
  &lt;endif&gt;
  &lt;endif&gt;
&gt;&gt;

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/C/AST.stg

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*/

/** Templates for building ASTs during normal parsing. */
* 
* Deal with many combinations. Dimensions are:
*  * Auto build or rewrite
*  *  no label, label, list label  (label/no-label handled together)
*  *  child, root
*  *  token, set, rule, wildcard
*  *
*  * The situation is not too bad as rewrite (->) usage makes ^ and !
*  * invalid. There is no huge explosion of combinations.
* */

group ASTParser;

@rule.setErrorReturnValue() ::= <<
retval.tree = (<ASTLabelType>)adaptor.ErrorNode(input, retval.start, input.LT(-1), re);
:! System.out.WriteLine("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<label>_tree = <createNodeFromToken(...)>
; adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>
<label>_tree = <createNodeFromToken(...)>
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>} <endif>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
	<tokenRefBang(...)
	<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
	<tokenRef(...)
	<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
	<tokenRefRuleRoot(...)
	<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
<endif>
adaptor.AddChild(root_0, <createNodeFromToken(...)>;})>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(....)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(....)>"
// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
  <if(label)>
  <label>=(<labelType>)input.LT(1);<
  <endif>
  <super.matchSet(..., postmatchCode={ <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0
  = (<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);})>
  >>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>adaptor.AddChild(root_0, <label>.Tree);
  >>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "$<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 =
  (<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
  >>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(elem=label+.Tree",...")>
  >>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefBang(...)>
  <listLabel(elem=label+.Tree",...")>
  >>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(elem=label+.Tree",...")>
  >>

// WILDCARD AST
wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
@if(backtracking)>}<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
@if(backtracking)>}<endif>
>>

createNodeFromToken(label,hetero) ::= <<
@if(hetero)>
new <hetero>(<label>) <! new MethodNode(IDLabel) !>
@else>
(<ASTLabelType>)adaptor.Create(<label>)
@endif
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.tree, retval.start, retval.stop);
@if(backtracking)>}<endif>
>>

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gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/Perl5Target.java
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/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */
group ASTDbg;

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor =
    new DebugTreeAdaptor(null,new CommonTreeAdaptor());
public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
}
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}<\n>
>>

createListenerAndHandshake() ::= <<
<super.createListenerAndHandshake()>
>>

ctorForPredefinedListener() ::= <<
>>

@rewriteElement.pregen() ::= ""

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/C/ASTDbg.stg
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*/
group AST;

@outputFile.imports() ::= <<
  @super.imports()
>>

@genericParser.members() ::= <<
  @super.members()
  <parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
  <grammar.directDelegates:{g|g:delegateName().setTreeAdaptor(this.adaptor);}>
  getTreeAdaptor: function() {
    return this.adaptor;
  },
  setTreeAdaptor: function(adaptor) {
    this.adaptor = adaptor;
  },

  <grammar.directDelegates:{g|g:delegateName().setTreeAdaptor(this.adaptor);}>
  getTree: function() {
    return this.tree;
  }
>>
/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var root_0 = null;
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{var <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{var <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
 :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleTokenStream(this.adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
 :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"rule <it>");}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST)
@if(outerAlt)
@if(!rewriteMode)
root_0 = this.adaptor.nil();
</if>
</if>
</if>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);
</if>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>
```java
/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
  <tokenRefBang(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);
</if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefRuleRootTrack(...)>
  <listLabel(elem=label,...)>
>>

wildcardTrack(label,elementIndex) ::= <<
  <super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefTrack(...)>
  <listLabel(elem=label+.getTree(),...)
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.getTree());
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(elem=label+.getTree(),...)
>>

// R e w r i t e
rewriteCode(
  alts, description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
```
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
    referencedWildcardLabels,
    referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator="",">
// token labels: <referencedTokenLabels; separator="",">
// rule labels: <referencedRuleLabels; separator="",">
// token list labels: <referencedTokenListLabels; separator="",">
// rule list labels: <referencedRuleListLabels; separator="",">
@if(backtracking)  
@if ( <actions.(actionScope).synpredgate> ) {<
@if(TREE_PARSER)  
@if(rewriteMode)  
<prevRuleRootRef()>.tree = this.adaptor.rulePostProcessing(root_0);
this.input.replaceChildren(this.adaptor.getParent(retval.start),
    this.adaptor.getChildIndex(retval.start),
    this.adaptor.getChildIndex(_last),
    retval.tree);
@endif>
@endif>
<endif>
</if(backtracking)>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token <it>",<it>);};
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep,  // all nested refs
    referencedElements,  // elements in immediately block; no nested blocks
    description) ::= 
    <<
    // <fileName>:<description>
    if ( <referencedElementsDeep:{el | stream_<el>.hasNext(); separator="||"> ) { 
        <alt>
    }
    <referencedElementsDeep:{el | stream_<el>.reset();
    >>

rewriteClosureBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep,  // all nested refs
    referencedElements,  // elements in immediately block; no nested blocks
    description) ::= 
    <<
    // <fileName>:<description>
    while ( <referencedElements:{el | stream_<el>.hasNext(); separator="||"> ) { 
        <alt>
    }
    <referencedElements:{el | stream_<el>.reset();
    >>

rewritePositiveClosureBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
if ( !(<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) ) {
  throw new org.antlr.runtime.tree.RewriteEarlyExitException();
} while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
  <alt>
} <referencedElements:{el | stream_<el>.reset();<\n>}> >>

rewriteAlt(a) ::= <<
// <a.description>
@if(a.pred)>
if (<a.pred>) {
  <a.alt>
} \n
#else>
{
  <a.alt>
} \n
</endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
var root_<treeLevel> = this.adaptor.nil();
<root:rewriteElement()>
<children:rewriteElement()>
this.adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
} \n
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...>), root_<treeLevel>);
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"
rewriteRuleRef(rule) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);<
>>

rewriteNodeAction(action) ::= <<
this.adaptor.addChild(root_<treeLevel>, <action>);<
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<action>, root_<treeLevel>);<
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<
>>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<
>>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
  <if(hetero)>
  <! new MethodNode(IDLabel, args) !>
  new <hetero>(<tokenType><if(args)>, <args; separator=","><endif>)
  <else>
  this.adaptor.create(<tokenType>, <args; separator=","><if(!args)"<tokenType>"<endif>)
  <endif>
  >>

createRewriteNodeFromElement(token,hetero,args) ::= <<
  <if(hetero)>
  new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator=","><endif>)
  >>
Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-targ-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-
sources/org/antlr/codegen/templates/JavaScript/AST.stg
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*/

/** Templates for building ASTs during tree parsing.
 *
 * Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  <ASTLabelType> _first_0 = null;
  <ASTLabelType> _last = null;
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(rewriteMode)>
    retval.Tree = (<ASTLabelType>)_first_0;
      retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
  <endif>
  <if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
     enclosingTreeLevel, treeLevel) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  {
    <ASTLabelType> _save_last_<treeLevel> = _last;
    <ASTLabelType> _first_<treeLevel> = null;
    <if(!rewriteMode)>
      <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.GetNilNode();
    <endif>
    <root:element()>
      <if(rewriteMode)>
        <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
        <if(root.el.rule)>
          if ( _first_<enclosingTreeLevel))==null ) _first_<enclosingTreeLevel> = (<ASTLabelType>) root.el.label.Tree;
          <else>
if (_first_<enclosingTreeLevel>==null) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1)==Token.DOWN) {
    Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add */
/* setting of _last */
tokenRefBang(token,label,elementIndex) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.tokenRef(...)>
    <if(!rewriteMode)>
    <if(backtracking)>
    if (state.backtracking == 0) {
        <endif>
    <if(hetero)>
    <label>_tree = new <hetero>({label});
    <else>
    <label>_tree = (<ASTLabelType>)adaptor.DupNode({label});
    <endif>
    adaptor.AddChild(root_<treeLevel>, {label}_tree);
<if(backtracking)>
}
<endif>

<else> <! rewrite mode !>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>=null ) _first_<treeLevel> = <label>;
<endif>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>;
<label>_tree = new <hetero>(<label>);
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>
}
<endif>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>;
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking == 0 )
{
<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>
}
<endif>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>;
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<label>_tree = new <hetero>(<label>);
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>
}
<endif>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>

<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)> </if>
<else> ! rewrite mode !
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(..., postmatchCode={
    <if(!rewriteMode)>
      <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
      <if(hetero)>
        <label>_tree = new <hetero>(<label>);
      <else>
        <label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
      <endif><
  adaptor.AddChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <endif>
})
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...)>
  <noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(...)
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
  <super.matchSet(..., postmatchCode={
    <if(!rewriteMode)>
      <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
      <if(hetero)>
        <label>_tree = new <hetero>(<label>);
      <else>
        <label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
      <endif><
  <endif></
/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
*  change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextNode())
<else>
stream_<token>.NextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)>
}
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-targ-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr_3.2-
sources/org/antlr/codegen/templates/CSharp/ASTTreeParser.stg
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*/
group CSharp2 implements ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules */
* and cyclic DFAs plus support code.
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, 
docComment, recognizer, 
name, tokens, tokenNames, rules, cyclicDFAs, 
bisets, buildTemplate, buildAST, rewriteMode, profile, 
backtracking, synpreds, memoize, numRules, 
fileName, ANTLRVersion, generatedTimestamp, trace, 
scopes, superClass, literals) ::= 
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
// The variable 'variable' is assigned but its value is never used.
#pragma warning disable 168, 219
// Unreachable code detected.
#pragma warning disable 162

@imports
using System;
using Antlr.Runtime;
@if(TREE_PARSER>
using Antlr.Runtime.Tree;
@end>
using IList = System.Collections.IList;
using ArrayList = System.Collections.ArrayList;
using Stack = Antlr.Runtime.Collections.StackList;
@if(backtracking>)
using IDictionary = System.Collections.IDictionary;
using Hashtable = System.Collections.Hashtable;
@end>

@end>
@if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
@end>

@docComment
@recognizer
@if(actions.(actionScope).namespace)>
}
@end>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="IToken",
    filterMode, superClass="Lexer") ::= <<
public partial class <grammar.recognizerName> : @superClassName><superClass><@end> {
    <tokens:{public const int <it.name> = <it.type>;}; separator="\n"}>
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}
        <globalAttributeScope(scope=it)><endif> }>
    <actions.lexer.members>
    // delegates
    <grammar.delegates:
        {glpublic <g.recognizerName> <g:delegateName()>;}; separator="\n"}>


// delegators
<grammar.delegators:
    {g|public <g.recognizerName> <g:delegateName>() { separator="\n"}
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}}>

public <grammar.recognizerName>() <! needed by subclasses !>
{
    InitializeCyclicDFAs();
}

public <grammar.recognizerName>(ICharStream input<grammar.delegators:{g|, <g.recognizerName>
    <g:delegateName()}>})
    : this(input, null<grammar.delegators:{g|, <g:delegateName()}>}) {
}

public <grammar.recognizerName>(ICharStream input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName>
    <g:delegateName()}>})
    : base(input, state) {
    InitializeCyclicDFAs(); <! Necessary in C#??? Not removed yet. !>
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
        state.ruleMemo = new Hashtable[<numRules>+1];\n    <\n> <! index from 1..n !>
    <endif>
    <endif>
    <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
            <p:delegateName()>}, this);}; separator="\n"}

    <grammar.delegators:
        {g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n"
<last(grammar.delegators):{g|gParent = <g:delegateName>();}}>

    override public string GrammarFileName
    {
        get { return "<fileName>";}
    }

<if(filterMode)>
    <filteringNextToken()>
<endif>

    <rules; separator="\n\n">

    <synpreds:{p | <lexerSynpred(p)>}>}

    <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">
private void InitializeCyclicDFAs<@debugInitializeCyclicDFAs()> {
    <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new
        DFA<dfa.decisionNumber>(this<@debugAddition()>);}; separator="\n">
    <cyclicDFAs:{dfa | if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new

DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);< endif> }
separator="\n">

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
}

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
*
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
override public IToken NextToken()
{
    while (true)
    {
        if ( input.LA(1) == (int)CharStreamConstants.EOF )
        {
            return Token.EOF_TOKEN;
        }
        state.token = null;
        state.channel = Token.DEFAULT_CHANNEL;
        state.tokenStartCharIndex = input.Index();
        state.tokenStartCharPositionInLine = input.CharPositionInLine;
        state.tokenStartLine = input.Line;
        state.text = null;
        try
        {
            int m = input.Mark();
            state.backtracking = 1; <! means we won't throw slow exception !>
            state.failed = false;
            mTokens();
            state.backtracking = 0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if ( state.failed )
            {
                input.Rewind(m);
                input.Consume(); <! // advance one char and try again !>
            }
        }
        }}
else
{
    Emit();
    return state.token;
}
}
catch (RecognitionException re)
{
    // shouldn't happen in backtracking mode, but...
    ReportError(re);
    Recover(re);
}
}
}

override public void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
    if ( state.backtracking > 1 )
        base.Memoize(input, ruleIndex, ruleStartIndex);
}

override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    if ( state.backtracking > 1 )
        return base.AlreadyParsedRule(input, ruleIndex);
    return false;
}

actionGate() ::= "(state.backtracking==0)"
filteringActionGate() ::= "(state.backtracking == 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="object", labelType, members, rewriteElementType) ::= <<
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
    <if(grammar.grammarIsRoot)>
        public static readonly string[] tokenNames = new string[]
        {
            "\<invalid> ",
            "\<EOR> ",
            "\<DOWN> ",
            "\<UP> ",
            <tokenNames; separator="\", \n">;
        };
    </if>
} >>
// delegates
<grammar.delegates:
    {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"
// delegators
<grammar.delegators:
    {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>}

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}}
@end

<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
    <g:delegateName()>>})
    : this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g:delegateName()}>) {
}

public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState
    state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()}>})
    : base(input, state) {
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g:delegateName()>= new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
            <p:delegateName()}>), this;}; separator="\n"
        <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;};
            separator="\n"
        <last(grammar.delegators):{g|gParent = <g:delegateName()>;}>}
    }
@end

override public string[] TokenNames {
    get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }  
}

override public string GrammarFileName {
    get { return "<fileName>"; }  
}

@members
@rules; separator="\n\n"

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules: [ruleDescriptor]
    public <returnType()> <ruleDescriptor.name>({ruleDescriptor.parameterScope:parameterScope(scope=it)}) //
    throws RecognitionException
{[<if(ruleDescriptor.hasReturnValue)>return
    <endif><ruleDescriptor.grammar:delegateName().<ruleDescriptor.name>({ruleDescriptor.parameterScope.attributes:[a[a.name] ]; separator="","};
    \}]}; separator="\n"

    <synpreds:{p | <synpred(p)>}>
<grammar.delegatedRules: [ruleDescriptor]
    public <returnType()> <ruleDescriptor.name>({ruleDescriptor.parameterScope:parameterScope(scope=it)}) //
    throws RecognitionException
{[<if(ruleDescriptor.hasReturnValue)>return
    <endif><ruleDescriptor.grammar:delegateName().<ruleDescriptor.name>({ruleDescriptor.parameterScope.attributes:[a[a.name] ]; separator="","};
    \}]}; separator="\n"

    <synpreds:{p | <synpred(p)>}>

    private void InitializeCyclicDFAs(<@debugInitializeCyclicDFAs()>)
    {
    <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new
    DFA<dfa.decisionNumber>(this<@debugAddition()>);}; separator="\n"
        <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new
    DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif> }; separator="\n"
        }
    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
        <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
          words64=it.bits)>}
    }

        parserCtorBody() ::= <<
        <@initializeCyclicDFAs>InitializeCyclicDFAs();<@end>
        <if(memoize)>
        <if(grammar.grammarIsRoot)>
        this.state.ruleMemo = new Hashtable[length(grammar.allImportedRules)+1];<\n> <! index from 1..n !>
    <endif>
        <endif>
        <grammar.delegators:
        {g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n"
        }
        parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
        labelType="IToken", members={<actions.parser.members>}) ::= <<
        <genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>>
    }

    /**< How to generate a tree parser; same as parser except the input
    * stream is a different type.
    */
/** A simpler version of a rule template that is specific to the imaginary rules created for syntactic predicates. As they never have return values nor parameters etc..., just give simplest possible method. Don't do any of the normal memoization stuff in here either; it's a waste. As predicates cannot be inlined into the invoking rule, they need to be in a rule by themselves. */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start "<ruleName>"
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) {
<ruleLabelDefs()>
<if(trace)>
    TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try
    {
        <block>
    }
    finally
    {
        TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
<else>
    <block>
</endif>
}
// $ANTLR end "<ruleName>"
>>
synpredDecls(name) ::= <<
SynPredPointer <name>;<
>
>>
synpred(name) ::= <<
public bool <name>()
{
    state.backtracking++;
    @start()
    int start = input.Mark();
    try
    {
        <name>_fragment(); // can never throw exception
```java
try {
    catch (RecognitionException re) {
        Console.Error.WriteLine("impossible: "+re);
    }
    bool success = !state.failed;
    input.Rewind(start);
    @stop()
    state.backtracking--; 
    state.failed = false;
    return success;
} 

lexerSynpred(name) ::= <<
    <synpred(name)>
>>

ruleMemoization(name) ::= <<
    if(memoize)
    if ( (state.backtracking > 0) && AlreadyParsedRule(input, <ruleDescriptor.index>) )
    {
        return <ruleReturnValue>();
    }
    endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
    if(backtracking)>if (state.failed) return <ruleReturnValue>();<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
    if(backtracking)>if ( state.backtracking > 0 ) {state.failed = true; return <ruleReturnValue>();}<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
* /
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
    <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
    <returnScope(scope=ruleDescriptor.returnScope)>
    // $ANTLR start "<ruleName>"
    // <fileName>::<description>
    public <returnType()> <ruleName>(&lt;ruleDescriptor.parameterScope:parameterScope(scope=it)&gt;) // throws
    RecognitionException [1]
    ```
{ 
    <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);
    endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <!--preamble()-->
    try
    {
        <ruleMemoization(name=ruleName)>
        <block>
        <ruleCleanUp()>
        <(ruleDescriptor.actions.after):execAction()>
        </block>
    }
    <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>}
    <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
    <else>
    catch (RecognitionException re)
    {
        ReportError(re);
        Recover(input,re);
        <!--setErrorReturnValue()-->
    }<\n>
    </if(exceptions)>
    </if(!emptyRule)>
    </if(actions.(actionScope).rulecatch)>
    <else>
    catch (RecognitionException re)
    {
        ReportError(re);
        Recover(input,re);
        <!--setErrorReturnValue()-->
    }<\n>
    </if(exceptions)>
    </if(!emptyRule)>
    <@postamble()>
    return <ruleReturnValue();
    } // $ANTLR end "<ruleName>" 
}
catch(decl,action) ::= <<
catch (<e.decl>)
{
    <e.action>
}
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.Start = input.LT(1);<n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>; 
}
<endif>
<if(memoize)>
int <ruleDescriptor.name>._StartIndex = input.Index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.Push(new <it>_scope());}; separator="n">
<ruleDescriptor.ruleScope:{<it.name>_stack.Push(new <it.name>_scope());}; separator="n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.Pop();}; separator="n">
<ruleDescriptor.ruleScope:{<it.name>_stack.Pop();}; separator="n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels, ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 :{<labelType> <it.label.text> = null;}; separator="n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
 :{IList list_<it.label.text> = null;}; separator="n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="n"
>
<ruleDescriptor.ruleListLabels:{ll|<ll:ruleLabelDef(label=it)> <ll.label.text> = null;}; separator="n"
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels, ruleDescriptor.ruleLabels]
 :{<labelType> <it.label.text> = null;}; separator="n"
>
<ruleDescriptor.charLabels:{int <it.label.text>}; separator="n"
><ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels]
 :{IList list_<it.label.text> = null;}; separator="n"
```java
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
  // $ANTLR start "<ruleName>"
  public void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws RecognitionException [2]
  {
    <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
    <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    try
    {
```
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><
</if>

<int _type = <ruleName> >;
<int _channel = DEFAULT_TOKEN_CHANNEL; >
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>
</block>

</endif>

finally {
<if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
<memoize()>


</if>

// $ANTLR end "<ruleName>" >>

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
override public void mTokens() // throws RecognitionException
{
    <block><


// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    int alt<decisionNumber> = <maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>


switch (alt<decisionNumber>)
{
    <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
int alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>)
{
    <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>::<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>::<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
int cnt<decisionNumber> = 0;
<decls>
<@preloop()>
do
{
int alt<decisionNumber> = <maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:altSwitchCase()>
default:
if ( cnt<decisionNumber> >= 1 ) goto loop<decisionNumber>; 
<ruleBacktrackFailure()>  
EarlyExitException eee<decisionNumber> =  
new EarlyExitException(<decisionNumber>, input);  
<@earlyExitException()>  
throw eee<decisionNumber>; 
}
  cnt<decisionNumber>++;
} while (true);

loop<decisionNumber>:
:// Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>
<@preloop()>
do
{
int alt<decisionNumber> = <maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:altSwitchCase()>
default:
  goto loop<decisionNumber>;
}
} while (true);

loop<decisionNumber>:
:// Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
<@postloop()>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
   <@prealt()>
   <it>
   break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alts(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
   // <fileName>:<description>
   {
   <@declarations()>
   <elements:element()>
   <rew>
   <@cleanup()>
   }
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
norRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
   <@prematch()>
   <it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
```java
/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...)>
  <listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
  if (list_<label> == null) list_<label> = new ArrayList();
  list_<label>.Add(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
  <if(label)>
  <label> = input.LA(1);
  <endif>
  Match(<char>); <checkRuleBacktrackFailure>()
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> = input.LA(1);
  <endif>
  MatchRange(<a>,<b>); <checkRuleBacktrackFailure>()
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
  <if(label)>
  <if(LEXER)>
  <label>= input.LA(1);
  <else>
  <label>= ( <labelType> ) input.LT(1);
  <endif>
  <endif>
  if ( <s> )
  {
    input.Consume();
    <postmatchCode>
    <if(!LEXER)>
    state.errorRecovery = false;
    <endif>
    <if(backtracking)>state.failed = false;<endif>
  }
>>
```
else
{
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    <@mismatchedSetException()>
    <if(LEXER)>
        Recover(mse);
        throw mse;
    <else>
        throw mse;
        <! use following code to make it recover inline; remove throw mse:
        RecoverFromMismatchedSet(input,mse.FOLLOW_set_in_<ruleName><elementIndex>); !>
    <endif>
}<\n
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
int <label>Start = CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start, CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()></n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = (<labelType>)input.LT(1);<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> = <if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<else>
<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<endif>
state.followingStackPointer--;
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>

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```java
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, CharIndex-1);
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator="", ");
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,..)>;
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^<root children> in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1) == Token.DOWN )
{
   Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
   <children:element()>
   Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
```
validateSemanticPredicate(pred, description) ::= <<
if (!<evalPredicate(...)>)
{
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// Fixed DFA (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
int LA<decisionNumber><stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
    <if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>;<
    <else>
    <ruleBacktrackFailure()>
    NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
        new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    <@noViableAltException()>
    throw nvae_d<decisionNumber>s<stateNumber>;<\n>
    <endif>
    }
}>

/** Same as a normal DFA state except that we don't examine lookahead
*  for the bypass alternative. It delays error detection but this
*  is faster, smaller, and more what people expect. For (X)? people
*  expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
int LA<decisionNumber><stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
*  loop. If end-of-token (EOT) predicts any of the targets then it
*  should act like a default clause (i.e., no error can be generated).
*  This is used only in the lexer so that for ('a')* on the end of a rule
*  anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
int LA<decisionNumber><stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
<<
alt<decisionNumber> = <eotPredictsAlt>; <!-- if no edges, don't gen ELSE !>
<else>

else
{
    alt<decisionNumber> = <eotPredictsAlt>
}<n>
<endif>
<endif>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
    if (((labelExpr) && (predicates))<if(predicates)>)
    {
        <targetState>
    }
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    switch ( input.LA(<k>) )
    {
    <edges; separator="\n">
    default:
        <if(eotPredictsAlt)>
            alt<decisionNumber> = <eotPredictsAlt>
            break;
        <else>
            <ruleBacktrackFailure()>
            NoViableAltException nvae_d<decisionNumber>s<stateNumber> = 
                new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
            @noViableAltException()>
            throw nvae_d<decisionNumber>s<stateNumber>;<n>
        <endif>
    }
    <n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
}<\n>
>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
    <if(eotPredictsAlt)>
        default:
        alt<decisionNumber> = eotPredictsAlt;
        break;<\n>
    </if>
}<\n>
>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n">
{
    <targetState>
}</targetState>
break;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
>>

/* Dump DFA tables.
*/
cyclicDFA(dfa) ::= <<
const string DFA<dfa.decisionNumber>._eotS =
    "<dfa.javaCompressedEOT; wrap="\"+\n \"">";
const string DFA<dfa.decisionNumber>._eofS =
    "<dfa.javaCompressedEOF; wrap="\"+\n \"">";
const string DFA<dfa.decisionNumber>._minS =
    "<dfa.javaCompressedMin; wrap="\"+\n \"">";
const string DFA<dfa.decisionNumber>._maxS =
    "<dfa.javaCompressedMax; wrap="\"+\n \"">";
const string DFA<dfa.decisionNumber>._acceptS =
"<dfa.javaCompressedAccept; wrap="\n\"">;
const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="\n\"">}»;
static readonly string[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition:{s|"s; wrap="\n\"">}; separator=",\n»
};

static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static readonly short[][] DFA<dfa.decisionNumber>_transition =
DFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_transitionS);

protected class DFA<dfa.decisionNumber> : DFA
{
    //@debugMember()
    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer)
    {
        this.recognizer = recognizer;
        this.decisionNumber = <dfa.decisionNumber>;
        this.eot = DFA<dfa.decisionNumber>_eot;
        this.eof = DFA<dfa.decisionNumber>_eof;
        this.min = DFA<dfa.decisionNumber>_min;
        this.max = DFA<dfa.decisionNumber>_max;
        this.accept = DFA<dfa.decisionNumber>_accept;
        this.special = DFA<dfa.decisionNumber>_special;
        this.transition = DFA<dfa.decisionNumber>_transition;
    }
    //@dbgCtor()

    override public string Description
    {
        get { return "<dfa.description>"; }
    }
}

//@errorMethod()
protected internal int DFA<dfa.decisionNumber>_SpecialStateTransition(DFA dfa, int s, IIntStream _input)
//throws NoViableAltException
{
    if(LEXER)
        IIntStream input = _input;
    endif
    if(PARSER)
        ITokenStream input = (ITokenStream)_input;
    endif
    if(TREE_PARSER)
        ITreeNodeStream input = (ITreeNodeStream)_input;
    endif
    int _s = s;
    switch ( s )
    {
    <dfa.specialStateSTs:{state |
        case <i0> : <! compressed special state numbers 0..n-1 !>
            <state> }; separator="\n">
    }
    if(backtracking)
        if (state.backtracking > 0) {state.failed = true; return -1;}<
    endif
    NoViableAltException nvae<dfa.decisionNumber> =
        new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
    dfa.Error(nvae<dfa.decisionNumber>);
    throw nvae<dfa.decisionNumber>;
} <\n>
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
    int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
    if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
        int index<decisionNumber>_<stateNumber> = input.Index();
        input.Rewind();<\n>
    <endif>
    s = -1;
    <edges; separator="\nelse ">
    if(semPredState) <! return input cursor to state before we rewound !>
        input.Seek(index<decisionNumber>_<stateNumber>);
    <endif>
    if ( s >= 0 ) return s;
    break;
    >>
/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
  if ( (<labelExpr>) <if(predicates)>&& (<predicates>) <endif>) { s = <targetStateNumber>; } <\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
  s = <targetStateNumber>; <\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left, right) ::= "(<left> && <right>)"

orPredicates(operands) ::= "(<first(operands)<rest(operands): {o | || <o>}>))"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred, description) ::= "(<pred>)"

evalSynPredicate(pred, description) ::= "<pred>()"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_stateNumber == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom, k, atomAsInt) ::= "input.LA(<k>) == <atom>"

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <<
  (LA<decisionNumber>_stateNumber >= <lower> && LA<decisionNumber>_stateNumber <= <upper>)
>>

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "(input.LA(<k>) =>
  <lower> && input.LA(<k>) <= <upper>)"

setTest(ranges) ::= "<ranges; separator=" || ">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
  <if(scope.attributes)>
  </if(scope.attributes)>
  
  </if(scope.attributes)>

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 31731
protected class <scope.name>_scope
{
    <scope.attributes:{protected internal <it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();

ruleAttributeScope(scope) ::= <<
    <if(scope.attributes)>
    protected class <scope.name>_scope
    {
        <scope.attributes:{protected internal <it.decl>;}; separator="\n">
    }
    protected Stack <scope.name>_stack = new Stack();
    <endif>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
    <if(ruleDescriptor.hasMultipleReturnValues)>
    <ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
    <else>
    <if(ruleDescriptor.hasSingleReturnValue)>
    <ruleDescriptor.singleValueReturnType>
    <else>
    void
    <endif>
    <endif>

ruleLabelType(referencedRule) ::= <<
    <if(referencedRule.hasMultipleReturnValues)>
    <referencedRule.grammar.recognizerName>.<referencedRule.name>_return
    <else>
    <if(referencedRule.hasSingleReturnValue)>
    <referencedRule.singleValueReturnTypeName>
    <else>
    void
    <endif>
    <endif>

delegateName() ::= <<

/** Generate the C# type associated with a single or multiple return
*  values.
*/
ruleLabelType(referencedRule) ::= <<
    <if(referencedRule.hasMultipleReturnValues)>
    <referencedRule.grammar.recognizerName>.<referencedRule.name>_return
    <else>
    <if(referencedRule.hasSingleReturnValue)>
    <referencedRule.singleValueReturnTypeName>
    <else>
    void
    <endif>
    <endif>

delegateName() ::= <<

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 31732
/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
>>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
public class <ruleDescriptor:returnStructName()> :
@if(TREE_PARSER)Tree<else>Parser<endif>RuleReturnScope
{
  <scope.attributes:{public <it.decl>;}; separator="\n">
  #@ruleReturnMembers()
};
@endif
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
@if(negIndex)
((<scope>_scope)<scope>_stack[<scope>_stack.Count<-negIndex>-1]).<attr.name
<else>
@if(index)
((<scope>_scope)<scope>_stack[index]).<attr.name
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name
<endif>
<endif>
scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <<
  if(negIndex)
  (scope_stack[scope_stack.Count-negIndex-1].attr.name = expr);
  else
  if(index)
  (scope_stack[index].attr.name = expr);
  else
  (scope_stack.Peek()).attr.name = expr;
  endif
  endif
>>

/** $x is either global scope or x is rule with dynamic scope; refers 
* to stack itself not top of stack. This is useful for predicates 
* like {$function.size()>0 && $function::name.equals("foo")}? 
*/
isolatedDynamicScopeRef(scope) ::= "scope_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <<
  if(referencedRule.hasMoreReturnValues)
  ((scope != null) ? scope.attr.name : initValue(attr.type))
  else
  scope
  endif
  endif
>>

returnAttributeRef(ruleDescriptor, attr) ::= <<
  if(ruleDescriptor.hasMoreReturnValues)
  retval.attr.name
  else
  attr.name
  endif
  endif
>>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
  if(ruleDescriptor.hasMoreReturnValues)
  retval.attr.name = expr;
  else
  attr.name = expr;
  endif
  endif
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"
/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.Text : null)"
tokenLabelPropertyRef_type(scope,attr) ::= "((<scope> != null) ? <scope>.Type : 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "((<scope> != null) ? <scope>.Line : 0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "((<scope> != null) ? <scope>.CharPositionInLine : 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "((<scope> != null) ? <scope>.Channel : 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "((<scope> !=null?int.Parse(<scope>.Text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "((<scope> != null) ? ((<labelType>)<scope>.Start) : null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<scope> != null) ? ((<labelType>)<scope>.Stop) : null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<scope> != null) ? ((<ASTLabelType>)<scope>.Tree) : null)"
ruleLabelPropertyRef_text(scope,attr) ::= "<if(TREE_PARSER)>
  (input.TokenStreamToString(input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
  input.TreeAdaptor.GetTokenStopIndex(<scope>.Start)) : null)
<else>
<endif>
""

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> != null) ? <scope>.Type : 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> != null) ? <scope>.Line : 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> != null) ? <scope>.CharPositionInLine : -1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> != null) ? <scope>.Channel : 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> != null) ? <scope>.TokenIndex : 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> !=null?int.Parse(<scope>.Text):0)"

// Somebody may ref Stemplate or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.Start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.Stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.Tree)"
rulePropertyRef_text(scope,attr) ::= "<if(TREE_PARSER>>
input.TokenStreamToString(input.TreeAdaptor.GetTokenStartIndex(retval.Start),
"
input.TreeAdaptor.GetTokenStopIndex(retval.Start) )
<else>
input.ToString((IToken)retval.Start,input.LT(-1))
<endif>
>
rulePropertyRef_st(scope,attr) ::= "retval.ST"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "._type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= ",_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.ST = <expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
 <action>
}
<else>
 <action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)
bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[] {<words64:{<it>UL};separator","}>);\n>>

codeFileExtension() ::= ".cs"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/CSharp2/CSharp2.stg
No license file was found, but licenses were detected in source scan.

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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

interface ANTLRCore;

/*** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals);
/** The header file; make sure to define headerFileExtension() below */
optional
headerFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
           docComment, recognizer,
           name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals);

lexer(grammar, name, tokens, scopes, rules, numRules, labelType,
      filterMode, superClass);

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
       bitsets, ASTLabelType, superClass,
       labelType, members);

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
           numRules, bitsets, labelType, ASTLabelType,
           superClass, members, filterMode);

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock);

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize);

/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize);

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor);
filteringNextToken();

filteringActionGate();

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description);

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description);

/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

positiveClosureBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

closureBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

optionalBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew);

// E L E M E N T S

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero);

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero);

listLabel(label,elem);

/** match a character */
charRef(char,label);

/** match a character range */
charRangeRef(a,b,label);

/** For now, sets are interval tests and must be tested inline */
machSet(s,label,elementIndex,postmatchCode);

matchSetAndListLabel(s,label,elementIndex,postmatchCode);

/** Match a string literal */
lexerStringRef(string,label);

wildcard(label,elementIndex);

wildcardAndListLabel(label,elementIndex);

/** Match . wildcard in lexer */
wildcardChar(label,elementIndex);

wildcardCharListLabel(label,elementIndex);

/** Match a rule reference by invoking it possibly with arguments * and a return value or values. */
ruleRef(rule,label,elementIndex,args,scope);

/** ids+=ID */
ruleRefAndListLabel(rule,label,elementIndex,args,scope);

/** A lexer rule reference */
lexerRuleRef(rule,label,elementIndex,scope);

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope);

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex);

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel);
/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description);

// F i x e d  D F A  (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
* 
* If a semPredState, don't force lookahead lookup; preds might not
* need.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a
* rule anything other than 'a' predicts exiting.
* 
* If a semPredState, don't force lookahead lookup; preds might not
* need.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt);

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates);

// F i x e d  D F A  (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState);
dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaEdgeSwitch(labels, targetState);

// Cycle DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description);

/** Generate the tables and support code needed for the DFAState object
 * argument. Unless there is a semantic predicate (or syn pred, which
 * become sem preds), all states should be encoded in the state tables.
 * Consequently, cyclicDFAState/cyclicDFAEdge,eotDFAEdge templates are
 * not used except for special DFA states that cannot be encoded as
 * a transition table.
 */
cyclicDFA(dfa);

/** A special state in a cyclic DFA; special means has a semantic predicate
 * or it's a huge set of symbols to check.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState);

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful. Again, this is for special
 * states.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates);

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates);

// DFA EXPRESSIONS

andPredicates(left,right);

orPredicates(operands);

notPredicate(pred);

evalPredicate(pred,description);
evalSynPredicate(pred,description);
lookaheadTest(atom,k,atomAsInt);

/\* Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly. 
/\*
isolatedLookaheadTest(atom,k,atomAsInt);

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt);

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt);

setTest(ranges);

// A T T R I B U T E S

parameterAttributeRef(attr);
parameterSetAttributeRef(attr,expr);

scopeAttributeRef(scope,attr,index,negIndex);
scopeSetAttributeRef(scope,attr,expr,index,negIndex);

/\* $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}? 
/\*
isolatedDynamicScopeRef(scope);

/\* reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr);

returnAttributeRef(ruleDescriptor,attr);
returnSetAttributeRef(ruleDescriptor,attr,expr);

/\* How to translate $tokenLabel */
tokenLabelRef(label);

/\* ids+=ID [Ids] or e+=expr [$e] */
listLabelRef(label);

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :( 
tokenLabelPropertyRef_text(scope,attr);
tokenLabelPropertyRef_type(scope,attr);
tokenLabelPropertyRef_line(scope,attr);
tokenLabelPropertyRef_pos(scope,attr);
tokenLabelPropertyRef_channel(scope,attr);
tokenLabelPropertyRef_index(scope,attr);
tokenLabelPropertyRef_tree(scope,attr);

ruleLabelPropertyRef_start(scope,attr);
ruleLabelPropertyRef_stop(scope,attr);
ruleLabelPropertyRef_tree(scope,attr);
ruleLabelPropertyRef_text(scope,attr);
ruleLabelPropertyRef_st(scope,attr);

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label);

lexerRuleLabelPropertyRef_type(scope,attr);
lexerRuleLabelPropertyRef_line(scope,attr);
lexerRuleLabelPropertyRef_pos(scope,attr);
lexerRuleLabelPropertyRef_channel(scope,attr);
lexerRuleLabelPropertyRef_index(scope,attr);
lexerRuleLabelPropertyRef_text(scope,attr);

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr);
rulePropertyRef_stop(scope,attr);
rulePropertyRef_tree(scope,attr);
rulePropertyRef_text(scope,attr);
rulePropertyRef_st(scope,attr);

lexerRulePropertyRef_text(scope,attr);
lexerRulePropertyRef_type(scope,attr);
lexerRulePropertyRef_line(scope,attr);
lexerRulePropertyRef_pos(scope,attr);
/** Undefined, but present for consistency with Token attributes; set to -1 */
lexerRulePropertyRef_index(scope,attr);
lexerRulePropertyRef_channel(scope,attr);
lexerRulePropertyRef_start(scope,attr);
lexerRulePropertyRef_stop(scope,attr);

ruleSetPropertyRef_tree(scope,attr,expr);
ruleSetPropertyRef_st(scope,attr,expr);

/** How to execute an action */
execAction(action);

// M I S C (properties, etc...)

codeFileExtension();

/** Your language needs a header file; e.g., "h" */
optional headerFileExtension();

true();
false();

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-
gz/antlr_3.2.0.wso2v1/repo/antlr_3.2.0/0/antlr_3.2.0.wso2v1/antlr-3.2-
sources/org/antlr/codegen/templates/ANTLRCore.sti

No license file was found, but licenses were detected in source scan.

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*/

/*
Template group file for the Objective C code generator.
Heavily based on Java.stg

Written by Kay Roepke <kroepke(at)classdump.org>

This file is part of ANTLR and subject to the same license as ANTLR itself.
*/

group ObjC implements ANTLRCore;
objcTypeInitMap ::= [
  "int":"0",
  "long":"0",
  "float":"0.0",
  "double":"0.0",
  "boolean":"false",
  "byte":"0",
  "short":"0",
  "char":"0",
  "id":"nil",
  default:"nil" // anything other than an atomic type
]

className() ::= "<name><! if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif !>"

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer,
  name, tokens, tokenNames, rules, cyclicDFAs,
  bitsets, buildTemplate, buildAST, rewriteMode, profile,
  backtracking, synpreds, memoize, numRules,
  fileName, ANTLRVersion, generatedTimestamp, trace,
  scopes, superClass, literals) ::= <<
  // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

  <@imports>
  #import "<name><! if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif !>.h"
  <@end>

  <docComment>
  <recognizer>
  >>

  headerFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::= <<
    // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<@imports>
#import `<Cocoa/Cocoa.h>
#import `<ANTLR/antlr.h`
</@end>

<actions.(actionScope).header>

<if(LEXER)>
<lexerHeaderFile(...)>
<endif>
<if(PARSER)>
<parserHeaderFile(...)>
<endif>
<if(TREE_PARSER)>
<treeParserHeaderFile(...)>
<endif>
>>>

lexerHeaderFile() ::= <<
<cyclicDFAs:cyclicDFAInterface()>

#pragma mark Rule return scopes start
<rules:{rule | 
<rule:{ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)>}> ]; separator="n">
}
#pragma mark Rule return scopes end

#pragma mark Tokens
<tokens:{#define <name>_<it.name>	<it.type>}; separator="n">`

@interface <className()> : ANTLRLexer {
<cyclicDFAs:{dfa | <name>DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>}; separator="n">
<synpreds:{p | SEL <p>SyntacticPredicate;}; separator="n">
<actions.lexer.ivars>
}

<actions.lexer.methodsdecl>

<rules:{rule |
- (~<rule.ruleDescriptor:{ruleDescriptor|<returnType()>}> | )>
<if(!rule.ruleDescriptor.isSynPred)>m<endif><rule.ruleName><if(rule.ruleDescriptor.parameterScope)<rule.ruleDescriptor.parameterScope:parameterScope(scope=it)><endif>;
}>

@end
>>
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="id<ANTLRToken> ",
        filterMode) ::= <<
        <cyclicDFAs:cyclicDFA()>

        /** As per Terence: No returns for lexer rules!
#pragma mark Rule return scopes start
<rules:{rule |
    <rule.ruleDescriptor:{ruleDescriptor | <returnScope(scope=ruleDescriptor.returnScope)> }>
    }
#pragma mark Rule return scopes end */
@implementation <className()>

static NSArray *tokenNames;

<actions.lexer.methods>

+ (void) initialize
{
    // todo: get tokenNames into lexer - requires changes to CodeGenerator.java and ANTLRCore.sti
    tokenNames = [[NSArray alloc] init];
}

- (id) initWithCharStream:(id<ANTLRCharStream>)anInput
{
    if (nil!=(self = [super initWithCharStream:anInput])) {
        <if(memoize)>
        // initialize the memoization cache - the indices are 1-based in the runtime code!
        [ruleMemo addObject:[NSNull null]]; // dummy entry to ensure 1-basedness.
        for (int i = 0; i < <numRules>; i++) {
            [[state ruleMemo] addObject:[NSMutableDictionary dictionary]];
        }
        <endif>
        <synpreds:{p | <lexerSynpred(name=p)>};separator="\n">
        <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = [[<name>DFA<dfa.decisionNumber> alloc]
        initWithRecognizer:self]; separator="\n">
        <actions.lexer.init>
        }
    return self;
}

- (void) dealloc
{
    <cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
    <actions.lexer.dealloc>
    [super dealloc];
}
/** A override of Lexer.nextToken() that backtracks over mTokens() looking for matches. No error can be generated upon error; just rewind, consume a token and then try again. backtracking needs to be set as well. */
filteringNextToken() ::= <<
- (id<ANTLRToken>) nextToken
{
  <sharedStateLocalVarDefinition()>
  while (YES) {
    if ( [input LA:1] == ANTLRCharStreamEOF ) {
      return nil; // should really be a +eofToken call here -> go figure
    }
    [self setToken:nil];
    [_.state setChannel:ANTLRTokenChannelDefault];
    [_.state setTokenStartLine:[input line]];
  }
}>>
filteringActionGate() ::= "[_state backtracking] == 1"

treeParserHeaderFile(LEXER, PARSER, TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass="ANTLRTreeParser") ::= <<
<parserHeaderFile(...)>
>>

parserHeaderFile(LEXER, PARSER, TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass="ANTLRParser") ::= <<
<parserHeaderFile(...)>

#pragma mark Tokens
				<tokens:{#define <name>_<it.name>	<it.type>}; separator="\n">  

#pragma mark Dynamic Global Scopes
```objc
#pragma mark Dynamic Rule Scopes
<rules:{rule |
  <rule.ruleDescriptor: { ruleDescriptor | <ruleAttributeScopeDecl(scope=ruleDescriptor.ruleScope)> }>
}>

#pragma mark Rule Return Scopes
<rules:{rule |
  <rule.ruleDescriptor: { ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)> }>
}>

@interface <className()>: <@superClassName><superClass><@end> {

@cyclicDFAs:{dfa | <name>DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n"
<synpreds:{p | SEL <p>SyntacticPredicate;}; separator="\n"}
<scopes:{<if(it.isDynamicGlobalScope)<globalAttributeScopeIVar(scope=it)> <endif>}}
<rules:{rule |
  <rule.ruleDescriptor:ruleScope:ruleAttributeScopeIVar(scope=it)}>
}

@interface <class>() : <@superClassName><superClass><@end> {

@cyclicDFAs:{dfa | <name>DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n"
<synpreds:{p | SEL <p>SyntacticPredicate;}; separator="\n"}
<scopes:{<if(it.isDynamicGlobalScope)<globalAttributeScopeIVar(scope=it)> <endif>}}
<rules:{rule |
  <rule.ruleDescriptor:ruleScope:ruleAttributeScopeIVar(scope=it)}>
}

@ivars()>

<actions.(actionScope).ivars>
}

<actions.(actionScope).methodsdecl>

<rules:{rule |
  - (<rule.ruleDescriptor:{ruleDescriptor|<returnType()>}>)
  <rule.ruleName><if(rule.ruleDescriptor.parameterScope)<rule.ruleDescriptor.parameterScope:parameterScope(sco pe=it)> <endif>;
}>

@end
@end

/** How to generate a parser */
genericParser(name, scopes, tokens, tokenNames, rules, numRules, 
cyclicDFAs, bitsets, inputStreamType, superClass, 
ASTLabelType="id", labelType, members) ::= <<

<cyclicDFAs:cyclicDFA()>

#pragma mark Bitsets
<bitsets:set(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
```
#pragma mark Dynamic Global Scopes
<scopes: {<if(it.isDynamicGlobalScope)> <globalAttributeScopeImpl(scope=it)> <endif> }>

#pragma mark Dynamic Rule Scopes
<rules: {rule |
<rule.ruleDescriptor.ruleScope: <ruleAttributeScopeImpl(scope=it)> }
}>

#pragma mark Rule return scopes start
<rules: {rule |
<rule.ruleDescriptor:{ruleDescriptor |
<returnScope(scope=ruleDescriptor.returnScope)> }
}
}>

@interface <className>()

static NSArray *tokenNames;

+ (void) initialize
{
<bitsets:bitsetInit(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>

if ((self = [super initWithTokenStream:aStream])) {
<else> <!TREE_PARSER!*>
- (id) initWithTreeNodeStream:(<inputStreamType>)aStream
{
if ((self = [super initWithTreeNodeStream:aStream])) {
<endif> \n
<if(memoize)>
ruleMemo = [[NS MUTABLE DICTIONARY alloc] initWithCapacity:<numRules>+1];
@end

<cyclicDFAs: {
| dfa | dfa.decisionNumber > = {
| <name> | DFA <dfa.decisionNumber> alloc |
initWithRecognizer:self]; separator="n"
| <scopes: {<if(it.isDynamicGlobalScope)> <globalAttributeScopeInit(scope=it)> <endif> }>
| <rules: {rule |
| <rule.ruleDescriptor.ruleScope: <ruleAttributeScopeInit(scope=it)> }
| }
| <actions.(actionScope).init>
| @init()>

return self;
}
- (void) dealloc
{
  <if(memoize)>
  [ruleMemo release];
  </if>
  <cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">;
  <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDealloc(scope=it)><endif>}}
  <actions.(actionScope).dealloc>
  [@dealloc()]
  [super dealloc];
}

- (NSString *) grammarFileName
{
  return @"<fileName>";
}

<actions.(actionScope).methods>
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= 
<<
- (void) <ruleName>
{
   <sharedStateLocalVarDefinition()>
   <if(trace)>NSLog("enter <ruleName> %d failed=%@ backtracking=%d", [input LA:1], [_state isFailed] ? @"YES" : @"NO", [_state backtracking]);
   @try {
      <block>
   }
   @finally {
      NSLog("exit <ruleName> %d failed=%@ backtracking=%d", [input LA:1], [_state isFailed] ? @"YES" : @"NO", [_state backtracking]);
   }
   <else>
      <block>
   <endif>
}
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
   <if(backtracking)>if ([_state isFailed]) return <ruleReturnValue>();<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
   <if(backtracking)>if ([_state isBacktracking]) {[_state setIsFailed:YES]; return <ruleReturnValue>();}<endif>
>>
synpred(name) ::= <<
   <!name>SyntacticPredicate = @selector(<name>); !>
>>

lexerSynpred(name) ::= <<
   <synpred(name)>
>>

ruleMemoization(name) ::= <<
   <if(memoize)>
      if ([_state isBacktracking] && [self alreadyParsedRule:input ruleIndex:<ruleDescriptor.index>]) { return <ruleReturnvalue>(); }
   <endif>
>>
/** How to generate code for a rule.
* The return type aggregates are declared in the header file (headerFile template)
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
// $ANTLR start <ruleName>
// <fileName>:<description>
- (<returnType()>) <ruleName><ruleDescriptor.parameterScope:parameterScope(scope=it)>
{
<if(trace)>NSLog(@"enter <ruleName> %@ failed=%@ backtracking=%d", [input LT:1], [_state isFailed] ?
@"YES" : @"NO", [_state backtracking]);<endif>
<sharedStateLocalVarDefinition()>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
<ruleMemoization(name=ruleName)>
@try {
<block>
}
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
@catch (ANTLRRecognitionException *re) {
[self reportError:re];
[self recover:input exception:re];
}<\n>
<endif>
<endif>
<endif>
@finally {
<if(trace)>NSLog(@"exit <ruleName> %@ failed=%@ backtracking=%d", [input LT:1], [_state isFailed] ?
@"YES" : @"NO", [_state backtracking]);<endif>
<ruleCleanUp()>
<(ruleDescriptor.actions.finally):execAction()>
<ruleScopeCleanUp()>
}
<@postamble()>
return <ruleReturnValue()>;
}
// $ANTLR end <ruleName>
>>

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catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
<returnType()> _retval = [[[returnTypeName()> alloc] init] autorelease];
[_retval setStart:[input LT:1]];<
}else
@if(ruleDescriptor.hasSingleReturnValue)
<returnType()> _<ruleDescriptor.singleValueReturnName> = <initValue(typeName=returnType())>;
@endif
@endif
@if(memoize)
int <ruleDescriptor.name>_StartIndex = [input index];
@endif
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{[^<name>_<it>_stack addObject:[[^<name><it>Scope alloc] init] autorelease]};}
separator="\n">
<ruleDescriptor.ruleScope:{[^<name>_<it.name>_stack addObject:[[^<name><it.name>Scope alloc] init] autorelease]};}
separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{[^<name>_<it>_stack removeLastObject];}; separator="\n">
<ruleDescriptor.ruleScope:{[^<name>_<it.name>_stack removeLastObject];}; separator="\n">
>>

ruleLabelDefs() ::= <<
[^ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
    :[^labelType> _<it.label.text> = nil;]; separator="\n"
>
[^ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
    :[^NSMutableArray *_<it.label.text> = nil;]; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{[^ANTLRRuleReturnScope <ll.label.text> = nil;]; separator="\n"}
>>

ruleReturnValue() ::= <<
@if(!ruleDescriptor.isSynPred)
@if(ruleDescriptor.hasReturnValue)
@if(ruleDescriptor.hasSingleReturnValue)
lexerRule(ruleName,nakedBlock,ruleDescriptor,block, memoize) ::= <<
- (void)
m<ruleName><if(ruleDescriptor.parameterScope)<ruleDescriptor.parameterScope:parameterScope(scope=it)><endif>
{
  <if(trace)>NSLog("enter <ruleName> %C line=%d:%d failed=%@ backtracking=%d", [input LA:1], [self line],
  [self charPositionInLine], [_state isFailed] ? "YES" : "NO", [_state backtracking]);<endif>
  <sharedStateLocalVarDefinition()>
  <ruleDeclarations()>
  <ruleLabelDefs()>
  <ruleMemoization(name=ruleName)>
  @try {
    <ruleDescriptor.actions.init>
    <if(nakedBlock)>
      <block><
    </else>
      int _type = <name>_<ruleName>;
      <block>
      [_state setTokenType:_type];<
    >
  >>

// token+rule list labels
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>:[_list_<it.label.text> release]; separator="\n"
<if(!ruleDescriptor.hasMultipleReturnValues)>
[_retval setStop:[input LT:-1]];<
</if>
</if>
</if>
</if>
</if>
</if>
</if>
>>

/* How to generate a rule in the lexer; naked blocks are used for * fragment rules.
*/

ruleCleanUp() ::= <<
// token+rule list labels
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>:[_list_<it.label.text> release]; separator="\n"
<if(!ruleDescriptor.hasMultipleReturnValues)>
[_retval setStop:[input LT:-1]];<
</if>
</if>
</if>
</if>
</if>
>>
/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
- (void) mTokens
{
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // block
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // ruleblock
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>::<description> // ruleBlockSingleAlt
    <decls>
    #@prealt()>
    <alts>
    #@postal()>
    >>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>::<description> // blockSingleAlt
    <decls>
    #@prealt()>
    <alts>
    #@postal()>
    >>

/** A (...)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>::<description> // positiveClosureBlock
    int cnt<decisionNumber>=0;
    <decls>
    #@preloop()>

do {
    int alt<decisionNumber>=<maxAlt>;
    #@predecision()>
    <decision>
    #@postdecision()>
    switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
    default :
        if ( cnt<decisionNumber> >= 1 ) goto loop<decisionNumber>;
    }@if(backtracking)>
    <ruleBacktrackFailure()>
    endif
    ANTLREarlyExitException *eee = [ANTLRREarlyExitException exceptionWithStream:input
decisionNumber:<decisionNumber>];
    #@earlyExitException()>
    @throw eee;
}
cnt<decisionNumber>++;
} while (YES); loop<decisionNumber>: ;
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
<decls>
<@preloop()>
do {
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
default :
  goto loop<decisionNumber>;
}
} while (YES); loop<decisionNumber>: ;
<@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
case <i> :
  <@prealt()>
  <it>
  break;<ln>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel) ::= <<
/** What to emit when there is no rewrite. For auto build */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)>
_<label>=(<labelType>)[input LT:1];<\n>
<endif>
[self match:input tokenType:<token> follow:FOLLOW_<token>_in_<ruleName><elementIndex>];
<checkRuleBacktrackFailure()>>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>>
>>

listLabel(label,elem) ::= <<
if (_list_<label> == nil)
_list_<label> = [[NSMutableArray alloc] init];
[_list_<label> addObject:_<elem>];
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
int _<label> = [input LA:1];<\n>
<endif>
[self matchChar:<char>];
/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
    _<label> = [input LA:1];
  </if>
  [self matchRangeFromChar:<a> to:<b>];<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
  <if(label)>
    _<label> = (<labelType>)[input LT:1];
  </if>
  if (<>) {
    <postmatchCode>
    [input consume];
    <if(!LEXER)>
      [_state setIsErrorRecovery:NO];
    </if>
  } else {
    <ruleBacktrackFailure()>
    ANTLRMismatchedSetException *mse = [ANTLRMismatchedSetException exceptionWithSet:nil stream:input];
    <@mismatchedSetException()>
    <if(LEXER)>
      [self recover:mse];
    </if>
    [self recoverFromMismatchedSet:input exception:mse follow:FOLLOW_set_in_<ruleName><elementIndex>];
    <endif>
    @throw mse;
  }
>>

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
  <if(label)>
    int _<label>Start = [self charIndex];
    [self matchString:<string>];
  </if>
  <checkRuleBacktrackFailure()>
  _<label> = [[ANTLRCommonToken alloc] initWithInput:input tokenType:ANTLRTokenTypeInvalid
channel:ANTLRTokenChannelDefault start:_<label>Start stop:[self charIndex]];
<else>
[self matchString:<string>];
<checkRuleBacktrackFailure()>\n
<endif>
>

wildcard(label,elementIndex) ::= <<
<if(label)>
_<label> = (<labelType>)[input LT:1];<\n>
<endif>
[self matchAny:input];
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
int _<label> = [input LA:1];<\n>
<endif>
[self matchAny];
<checkRuleBacktrackFailure()><\n>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(...)>
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
[[_state following] addObject:FOLLOW_<rule.name>_in_<ruleName><elementIndex>];
<if(label)>
_<label> = [self <rule.name><if(args)>:<args; separator=" :"><endif>];<\n>
<else>
[self <rule.name><if(args)>:<args; separator=" :"><endif>];<\n>
<endif>
[[_state following] removeLastObject];
<checkRuleBacktrackFailure()><\n>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>  
  <listLabel(...)>
>>

/** A lexer rule reference */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
  <if(label)>
  int _<label>Start<elementIndex> = [self charIndex];
  [self m<rule.name><if(args)>:<args; separator=" ":><endif>];
  <checkRuleBacktrackFailure()><\n
  _<label> = [[ANTLRCommonToken alloc] initWithInput:input tokenType:ANTLRTokenTypeInvalid
  channel:ANTLRTokenChannelDefault start:_<label>Start<elementIndex> stop:[self charIndex]-1];
  [_<label> setLine:[self line]];  
  <else>
  [self m<rule.name><if(args)>:<args; separator=" ":><endif>];
  <checkRuleBacktrackFailure()><\n
  <endif>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
  <if(label)>
  int _<label>Start<elementIndex> = [self charIndex];
  [self matchChar:ANTLRCharStreamEOF];
  <checkRuleBacktrackFailure()><\n
  _<label> = [[ANTLRCommonToken alloc] initWithInput:input tokenType:ANTLRTokenTypeEOF
  channel:ANTLRTokenChannelDefault start:_<label>Start<elementIndex> stop:[self charIndex]-1];
  [_<label> setLine:[self line]];  
  <else>
  [self matchChar:ANTLRCharStreamEOF];
  <checkRuleBacktrackFailure()><\n
  <endif>
>>

/** match ^root children in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>

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if ( [input LA:1] == ANTLRTokenTypeDOWN ) {  
    [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
}  
<else>
    [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 *  also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
    if ( !(<evalPredicate(...)>) ) {
        <ruleBacktrackFailure()>
        @throw [ANTLRFailedPredicateException exceptionWithRuleName:@"<ruleName>"
            predicate:@"<description>" stream:input];
    }
>>

// F i x e d  D F A (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    {  
        int LA<decisionNumber>_<stateNumber> = [input LA:<k>];
        <edges; separator="else ">
        } else {
            alt<decisionNumber> = <eotPredictsAlt>;
        } else {  
            <ruleBacktrackFailure()>
            ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
                exceptionWithDecision:<decisionNumber> state:<stateNumber> stream:input];
            <@noViableAltException()>
            @throw nvae;<
        }
    }  
>>

/** Same as a normal DFA state except that we don't examine lookahead
 *  for the bypass alternative. It delays error detection but this
 *  is faster, smaller, and more what people expect. For (X)? people
 *  expect "if ( LA(1)==X ) match(X);" and that's it.
 */
/** A DFA state that is actually the loopback decision of a closure
 * loop.  If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  { int LA<decisionNumber>_<stateNumber> = [input LA:<k>];
  <edges; separator="\nelse ">
  } >>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression.  If the expression is satisfied,
 * enter to the target state.  To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
  if ( <labelExpr> <if(predicates)>&& <predicates><endif>) {
    <targetState>
  } <<

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated.  The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  switch ([input LA:<k>]) {
  default:
    <if(eotPredictsAlt)>
  } <<
alt<decisionNumber> = <eotPredictsAlt>;  
<else> {  
<ruleBacktrackFailure()>  
ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException exceptionWithDecision:<decisionNumber> state:<stateNumber> stream:input];  
<@noViableAltException()>  
@throw nvae;<\n>  
}  
<endif>  
}  
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {
<edges; separator="\n">  
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {
<edges; separator="\n">  
<if(eotPredictsAlt)>  
default:
alt<decisionNumber> = <eotPredictsAlt>
break;<\n>  
<endif>  
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n">  
<targetState>
break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used  
* in the rule to predict an alt just like the fixed DFA case.  
* The <name> attribute is inherited via the parser, lexer, ...  
*/
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = [dfa<decisionNumber> predict];
>>

/** Used in headerFile */
cyclicDFAInterface(dfa) ::= <<  
#pragma mark Cyclic DFA interface start <name>DFA<dfa.decisionNumber>
@interface <name>DFA<dfa.decisionNumber> : ANTLRDFA {} @end

#pragma mark Cyclic DFA interface end <name>DFA<dfa.decisionNumber>

/** Used in lexer/parser implementation files */
cyclicDFA(dfa) ::= <<

#pragma mark Cyclic DFA implementation start <name>DFA<dfa.decisionNumber>

@implementation <name>DFA<dfa.decisionNumber>

const static int <name>dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
    {<dfa.eot; wrap="\n    ", separator="", null="-1">};
const static int <name>dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
    {<dfa.eof; wrap="\n    ", separator="", null="-1">};
const static unichar <name>dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
    {<dfa.min; wrap="\n    ", separator="", null="0">};
const static unichar <name>dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
    {<dfa.max; wrap="\n    ", separator="", null="0">};
const static int <name>dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
    {<dfa.accept; wrap="\n    ", separator="", null="-1">};
const static int <name>dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] =
    {<dfa.special; wrap="\n    ", separator="", null="-1">};
const static int <name>dfa<dfa.decisionNumber>_transition[<dfa.numberOfStates>][<dfa.numberOfStates>] =
    {<table; separator="\t", null="-1">};

-(id) initWithRecognizer:(ANTLRBaseRecognizer *) theRecognizer
{
    if ((self = [super initWithRecognizer:theRecognizer]) != nil) {
        eot = <name>dfa<dfa.decisionNumber>_eot;
        eof = <name>dfa<dfa.decisionNumber>_eof;
        min = <name>dfa<dfa.decisionNumber>_min;
        max = <name>dfa<dfa.decisionNumber>_max;
        accept = <name>dfa<dfa.decisionNumber>_accept;
        special = <name>dfa<dfa.decisionNumber>_special;
        if (!transition = calloc(<dfa.numberOfStates>, sizeof(void*))))) {
            [self release];
            return nil;
        }
        <dfa.transitionEdgeTables:{whichTable|transition[<i0>] =
            <name>dfa<dfa.decisionNumber>_transition[whichTable]>}; separator="\n", null=""} >
        }
        return self;
    }

@if(dfa.specialStateSTs)
    -(int) specialStateTransition:(int) s
{
    +}
int _s = s;
switch ( s ) {
<dfa.specialStateSTs: {state |
case <i0> : <! compressed special state numbers 0..n-1 !>
<state> ]; separator="\n";
}"<endif
if ( recognizer isBacktracking ) {
[recognizer setIsFailed:YES];
return -1;
}
ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
exceptionWithDecision:<dfa.decisionNumber> state:_s stream:[recognizer input]];
<! [self error:nvae]: !> <! for debugger - do later !>
@throw nvae;
}<endif
@end

- (void) dealloc
{
free(transition);
[super dealloc];
}

- (NSString *) description
{
return @"<dfa.description>";
}

@cerrorMethod()
@end

#pragma mark Cyclic DFA implementation end <name>DFA<dfa.decisionNumber>
@end

"cyclicDFAState(decisionNumber, stateNumber,edges,needErrorClause,semPredState) ::= <<-<
@if(semPredState)
[[recognizer input] rewind];
#else
int LA<decisionNumber>._<stateNumber> = [input LA:1];
@end

s = -1;
<edges; separator="\nelse ">
if ( s>=0 ) return s;
brek;
"}
/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((labelExpr) <if(predicates)>\&\& (<predicates>)<endif>) {s = <targetStateNumber>;};
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
s = <targetStateNumber>;;
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(first(operands)<rest(operands):{o | ||<o>}>)"
notPredicate(pred) ::= "!(<evalPredicate(...)>)"
evalPredicate(pred,description) ::= "<pred>"

/** synpreds are b0rken in cyclic DFA special states
 * Damn! For now, work around with using the selectors directly, and by providing a trampoline evalSynPred
 * method in
 * ANTLRDFA
 */
//evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:<pred>SyntacticPredicate stream:input]"
/*
evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:@selector(<pred>)]"
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "[input LA:<k>]==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>\>=<lower> && LA<decisionNumber>_<stateNumber>\=<upper)
>>
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "([input LA:<k>]>=<lower>
&& [input LA:<k>]\=<upper])"
setTest(ranges) ::= "<ranges; separator=\\"\\\|\\"\\n">"

// ATTRIBUTES

globalAttributeScopeDecl(scope) ::= <<
@interface <name><scope.name>Scope : NSObject {
<scope.attributes:{<it.decl>;}; separator="\n">
}
// use KVC to access attributes!
@end
>>

globalAttributeScopeIVar(scope) ::= <<
NSMutableArray *<name>_<scope.name>_stack;
>>

globalAttributeScopeImpl(scope) ::= <<
@interface <name><scope.name>Scope : NSObject {
<scope.attributes:{<it.decl>;}; separator="\n">
}
// use KVC to access attributes!
@end
>>

globalAttributeScopeInit(scope) ::= <<
<name>_<scope.name>_stack = [[NSMutableArray alloc] init];
>>

globalAttributeScopeDealloc(scope) ::= <<
[<name>_<scope.name>_stack release];
>>

ruleAttributeScopeDecl(scope) ::= <<
@if(scope.attributes)
@interface <name><scope.name>Scope : NSObject {
<scope.attributes:{<it.decl>;}; separator="\n">
}
// use KVC to access attributes!
@end
@end
>>

ruleAttributeScopeIVar(scope) ::= <<
NSMutableArray *<name>_<scope.name>_stack;
>>

ruleAttributeScopeImpl(scope) ::= <<
@if(scope.attributes)
@implementation <name><scope.name>Scope
@end
@end
>>
ruleAttributeScopeInit(scope) ::= <<
<name>_<scope.name>_stack = [[NSMutableArray alloc] init];
>>

ruleAttributeScopeDealloc(scope) ::= <<
<typename>_<scope.name>_stack release;
>>

returnTypeName() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<className()>_<ruleDescriptor.name>_return
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
void<! for synpreds this is always void !>
<endif>
>>

returnType() ::= <<
<returnTypeName()><if(!ruleDescriptor.isSynPred)><if(ruleDescriptor.hasMultipleReturnValues)>
>*<endif><endif>
>>

/** Generate the Objective-C type associated with a single or multiple return
* values.
*/
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<className()>_<referencedRule.name>_return *
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
  <objcTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
  <ruleLabelType(referencedRule=label.referencedRule)> _<label.label.text> =
  <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its */
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScopeInterface(scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <if(ruleDescriptor.hasMultipleReturnValues)>
      @interface <returnTypeName()> : ANTLR<TREE_PARSER>TreeParserRuleReturnScope {
        <scope.attributes:{<it.decl>;}; separator="\n"><@ivars()>
        <actions.(actionScope).ruleReturnIvars>
      }
      <@methods()>
      <actions.(actionScope).ruleReturnMethodsDecl>
    @end
  <endif>
@end
>>

returnScope(scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <if(ruleDescriptor.hasMultipleReturnValues)>
      @implementation <returnTypeName()>
      <@methods()>
      <actions.(actionScope).ruleReturnMethodsDecl>
    @end
  <endif>
@end
>>

parameterScope(scope) ::= <<
  <scope.attributes:{:<it.type> <it.name>}; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"
scopeAttributeRef(scope,attr,index,negIndex) ::= <<
[<scopeAttributeRefStack()> valueForKey:@"<attr.name>"]
>>
scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
[<scopeAttributeRefStack()> setValue:<expr> forKey:@"<attr.name>"];
>>
scopeAttributeRefStack() ::= <<
<if(negIndex)>
[<name>_<scope>_stack objectAtIndex:[<name>_<scope>_stack count]-<negIndex>-1]
<else>
<if(index)>
[<name>_<scope>_stack objectAtIndex:<index>]
<else>
[<name>_<scope>_stack lastObject]
<endif>
<endif>
>>
/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}?
*/
isolatedDynamicScopeRef(scope) ::= "<name>_<scope>_stack"
/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
[<scope> valueForKey:@"<attr.name>"]
<else>
_<scope>
<endif>
>>
returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
[_retval setValue: forKey:@"<attr.name>"];
<else>
_<attr.name>
<endif>
>>
returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
[_retval setValue:<expr> forKey:@"<attr.name>"];
<else>

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_{<attr.name>} =<expr>;
@if(LEXER)
// double check this after beta release!
_{<attr.name>} retain;
@endif
@endif
>>
/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "_<label>"

/** ids+=ID {Ids} or e+=expr {$e} */
listLabelRef(label) ::= "_list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example.:(

tokenLabelPropertyRef_text(scope,attr) ::= "[_<scope> text]"
tokenLabelPropertyRef_type(scope,attr) ::= "[_<scope> type]"
tokenLabelPropertyRef_line(scope,attr) ::= "[_<scope> line]"
tokenLabelPropertyRef_pos(scope,attr) ::= "[_<scope> charPositionInLine]"
tokenLabelPropertyRef_channel(scope,attr) ::= "[_<scope> channel]"
tokenLabelPropertyRef_index(scope,attr) ::= "[_<scope> tokenIndex]"
tokenLabelPropertyRef_tree(scope,attr) ::= "<_scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "[_<scope> start]"
ruleLabelPropertyRef_stop(scope,attr) ::= "[_<scope> stop]"
ruleLabelPropertyRef_tree(scope,attr) ::= "[_<scope> tree]"
ruleLabelPropertyRef_text(scope,attr) ::= <<
@if(TREE_PARSER)
// input textForNode:[_<scope> start]]
[input substringWithRange:NSMakeRange([[input treeAdaptor] startIndex:[_<scope> start]], [[input treeAdaptor] stopIndex:[_<scope> start]])]
#else
[input substringWithRange:NSMakeRange([_<scope> start], [_<scope> stop]-[_<scope> start])]
@endif
>>
ruleLabelPropertyRef_st(scope,attr) ::= "[_<scope> st]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "_<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "[_<scope> type]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "[_<scope> line]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "[_<scope> charPositionInLine]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "[_<scope> channel]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "[_<scope> tokenIndex]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "[_<scope> text]"
// Somebody may ref $Template or $Tree or $Stop within a rule:
rulePropertyRef_start(scope,attr) ::= "\[ retval start\]"
rulePropertyRef_stop(scope,attr) ::= "\[ retval stop\]"
rulePropertyRef_tree(scope,attr) ::= "\[ retval tree\]"
rulePropertyRef_text(scope,attr) ::= "\[input substringWithRange:NSMakeRange(_start, [input index]-_start)]"
rulePropertyRef_st(scope,attr) ::= "\[ retval st\]"

ruleSetPropertyRef_tree(scope,attr,expr) ::= "\[retval setValue:<expr> forKey:@"tree"]"
ruleSetPropertyRef_st(scope,attr,expr) ::= "\n#error StringTemplates are unsupported\n"

/* hideous: find a way to cut down on the number of templates to support read/write access */
/* TODO: also, which ones are valid to write to? ask Ter */
lexerRuleSetPropertyRef_text(scope,attr,expr) ::= "\[state setText:<expr>]";
lexerRuleSetPropertyRef_type(scope,attr,expr) ::= "\_type"
lexerRuleSetPropertyRef_line(scope,attr,expr) ::= "\[state tokenStartLine]"
lexerRuleSetPropertyRef_pos(scope,attr,expr) ::= "\[state tokenCharPositionInLine]"
lexerRuleSetPropertyRef_index(scope,attr,expr) ::= "\-1" // undefined token index in lexer
lexerRuleSetPropertyRef_channel(scope,attr,expr) ::= "\[state setChannel:<expr>]"
lexerRuleSetPropertyRef_start(scope,attr,expr) ::= "\[state tokenStartCharIndex]"
lexerRuleSetPropertyRef_stop(scope,attr,expr) ::= "\[self charIndex]-1]"

lexerRulePropertyRef_text(scope,attr) ::= "\[self text]"
lexerRulePropertyRef_type(scope,attr) ::= "\_type"
lexerRulePropertyRef_line(scope,attr) ::= "\[state tokenStartLine]"
lexerRulePropertyRef_pos(scope,attr) ::= "\[state tokenCharPositionInLine]"
lexerRulePropertyRef_index(scope,attr) ::= "\-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "\[state channel]"
lexerRulePropertyRef_start(scope,attr) ::= "\[state tokenStartCharIndex]"
lexerRulePropertyRef_stop(scope,attr) ::= "\[self charIndex]-1]"

/*** How to execute an action */
execAction(action) ::= <<
  <if(backtracking)>
  <if(actions.(actionScope).synpredgate)>
  if ( <actions.(actionScope).synpredgate> ) {
    <action>
  }
  <else>
    if ( ![\_state isBacktracking] ) {
      <action>
    }
  </else>
  <endif>
  <else>
    <action>
    <endif>
  >>
// MIS C (properties, etc...)

bitset(name, words64) ::= <<
const static unsigned long long <name>_data[] = {<words64:{<it>LL};separator=","} ;
static ANTLRBitSet *<name> ;
<! ANTLRBitSet *<name> = [[ANTLRBitSet alloc] initWithBits:<name>_data count:<length(words64)>];</\n> !>
>>

bitsetInit(name, words64) ::= <<
<name> = [[ANTLRBitSet alloc] initWithBits:<name>_data count:<length(words64)>];</\n>
>>

codeFileExtension() ::= ".m"
headerFileExtension() ::= ".h"

true() ::= "YES"
false() ::= "NO"

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-
sources/org/antlr/codegen/templates/ObjC/ObjC.stg
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*/
/** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
group Dbg:

@protocolFile.debugPreprocessor() ::= "#define ANTLR_DEBUG"

@protocolFile.imports() ::= <<
<@super.imports()>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames = new string[] {
    "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n    ", separator="", ">
};

<if(profile)>
<ctorForProfilingRootGrammar()><if(profile)>
<ctorForPredefinedListener()><else> <! grammar imports other grammar(s) !>
    private int ruleLevel = 0;
    public int RuleLevel {
        get { return ruleLevel; }
        public void IncRuleLevel() { ruleLevel++; }
        public void DecRuleLevel() { ruleLevel--; }
    }

    <ctorForDelegateGrammar()>
<else>
    <ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else> <! imported grammar !>
    public int RuleLevel {
        get { return <grammar.delegators:{g| <g:delegateName()}>.RuleLevel; }
        public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()}>.IncRuleLevel(); }
        public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()}>.DecRuleLevel(); }
    }
<ctorForDelegateGrammar()>
<endif>
<if(profile)>
<ctorforotherProgrammers>
override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex,
    <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    return base.AlreadyParsedRule(input, ruleIndex);
} <\n
override public void Memoize(IIntStream input,
    int ruleIndex,
    int ruleStartIndex)
{
    ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
    <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    base.Memoize(input, ruleIndex, ruleStartIndex);
} <\n
protected bool EvalPredicate(bool result, string predicate)
{
    dbg.SemanticPredicate(result, predicate);
    return result;
} <\n
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>(<inputStreamType> input)
    : this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState()) {
}

public <name>(<inputStreamType> input, int port, RecognizerSharedState state)
    : base(input, state) {
    <parserCtorBody()>
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">;
    <@finally()>}
} <\n
>>

@parserCtorBody.initializeCyclicDFAs() ::= <<
InitializeCyclicDFAs(dbg);
>>

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input) {
    this(input, new Profiler(null), new RecognizerSharedState());
}
public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state)
    : base(input, dbg, state) {
    Profiler p = (Profiler)dbg;
    p.setParser(this);
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|
            <g:delegateName>() }>);; separator="\n">;
    <@finally()>}
} <\n>

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
    : base(input, dbg, state) {
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g:delegateName>() = new <g.recognizerName>(input, this, this.state<grammar.delegators:{g|
            <g:delegateName>() }>);; separator="\n">;
    } <\n>
>>
ctorForPredefinedListener() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg)
    : <@superClassRef>base(input, dbg, new RecognizerSharedState())<@end> {
    <if(profile)>
        Profiler p = (Profiler)dbg;
        p.setParser(this);
    <endif>
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g:delegateName>() = new <g.recognizerName>(input, this, this.state, this<grammar.delegators:{g|
            <g:delegateName>() }>);; separator="\n">;
    <@finally()>}
} <\n>
>>
createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, input.TreeAdaptor);
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, null);
<endif>
DebugListener = proxy;
try
{
    proxy.Handshake();
}
catch (IOException ioe)
{
    ReportError(ioe);
}
>>

@genericParser.superClassName() ::= "Debug<@super.superClassName()>>"

@rule.preamble() ::= <<
try {
    dbg.EnterRule(GrammarFileName, "<ruleName>");
    if ( RuleLevel==0 ) {dbg.Commence();}
    IncRuleLevel();
    dbg.Location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);
}>

@lexer.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"

@lexer.debugAddition() ::= ", dbg"

@genericParser.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"

@genericParser.debugAddition() ::= ", dbg"

@rule.postamble() ::= <<
finally {
    dbg.ExitRule(GrammarFileName, "<ruleName>");
    DecRuleLevel();
    if ( RuleLevel==0 ) {dbg.Terminate();}
}>

@synpred.start() ::= "dbg.BeginBacktrack(state.backtracking);"

@synpred.stop() ::= "dbg.EndBacktrack(state.backtracking, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::= 
"try { dbg.EnterSubRule(<decisionNumber>);}<\n"

exitSubRule() ::=
" } finally { dbg.ExitSubRule(<decisionNumber>); }<\n>"

enterDecision() ::= 
"try { dbg.EnterDecision(<decisionNumber>);}<\n>"

exitDecision() ::= 
" } finally { dbg.ExitDecision(<decisionNumber>); }<\n>"

enterAlt(n) ::= "dbg.EnterAlt(<n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>" 

@block.postbranch() ::= "<exitSubRule()>"

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::= 
"dbg.RecognitionException(eee<decisionNumber>);<\n>"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

@closureBlock.predecision() ::= "<enterDecision()>"

@closureBlock.postdecision() ::= "<exitDecision()>"

@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
"dbg.Location(<it.line>,<it.pos>);"

@matchSet.mismatchedSetException() ::= "dbg.RecognitionException(mse);"

@dfaState.noViableAltException() ::= "dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

dfaDecision(decisionNumber,description) ::= <<
try {
    isCyclicDecision = true;
    <super.dfaDecision(...)>
} catch (NoViableAltException nvae) {
    dbg.RecognitionException(nvae);
    throw nvae;
} >>

@cyclicDFA.dbgCtor() ::= <<
    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer, IDebugEventListener dbg) : this(recognizer) {
        this.dbg = dbg;
    }
>>

@cyclicDFA.debugMember() ::= <<
IDebugEventListener dbg;
>>

@cyclicDFA.errorMethod() ::= <<
    public override void Error(NoViableAltException nvae) {
        dbg.RecognitionException(nvae);
    }
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
    EvalPredicate(<pred>,"<description>")
>>

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*/

```java
import org.antlr.runtime.tree.*;
import org.antlr.runtime.tree.*;
```

```java
/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
```
protected var adaptor:TreeAdaptor = new CommonTreeAdaptor();

override public function set treeAdaptor(adaptor:TreeAdaptor):void {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|g:delegateName()}.treeAdaptor = this.adaptor;>
}

override public function get treeAdaptor():TreeAdaptor {
    return adaptor;
}

@returnScope.ruleReturnMembers() ::= <<
    <ASTLabelType> tree;
    public function get tree():Object { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
    <super.ruleDeclarations()>
    var root_0:<ASTLabelType> = null;
>>

ruleLabelDefs() ::= <<
    <super.ruleLabelDefs()>
    {[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
        ruleDescriptor.wildcardTreeListLabels]:{var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n"}
    <ruleDescriptor.tokenListLabels:{var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n"}
    <ruleDescriptor.allTokenRefsInAltsWithRewrites
        :{var stream_<it>:RewriteRule<rewriteElementType>Stream=new
            RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ");}; separator="\n"}
    <ruleDescriptor.allRuleRefsInAltsWithRewrites
        :{var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it> ");}; separator="\n"}
>>

/** When doing auto AST construction, we must define some variables;
*  These should be turned off if doing rewrites. This must be a "mode"
*  as a rule could have both rewrite and AST within the same alternative
*  block.
*/
@alt.declarations() ::= <<
    <if(autoAST)>
    <if(outerAlt)>
    <if(!rewriteMode)>
    root_0 = <ASTLabelType>(adaptor.nil());
    <endif>
    <endif>
    <endif>
>>
// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <!-- Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);
</if>
>>

/** id+=ID and track it for use in a rewrite rule; adds to ids *and* */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)
<listLabel(elem=label,...)>;
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);
</if>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)
<listLabel(elem=label,...)>;
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.tree);
</if>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)
<listLabel(elem=label+.tree",....)>;
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.tree);
</if>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule.label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".tree",...)> 
>>

// Rewrite

rewriteCode(
  alts, description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedRuleLabels,
  referencedRuleListLabels,
  referencedWildcardLabels,
  referencedWildcardListLabels,
  rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
  // AST REWRITE
  // elements: <referencedElementsDeep; separator=", ">
  // token labels: <referencedTokenLabels; separator=", ">
  // rule labels: <referencedRuleLabels; separator=", ">
  // token list labels: <referencedTokenListLabels; separator=", ">
  // rule list labels: <referencedRuleListLabels; separator=", ">
  <if(backtracking)>
    if ( <actions.(actionScope).synpredgate> ) {
      <prevRuleRootRef()>.tree = root_0;
      <rewriteCodeLabels();
      root_0 = <ASTLabelType>(adaptor.nil());
      <alts:rewriteAlt(); separator="else ">
        ! if tree parser and rewrite=true !>
        <if(TREE_PARSER)>
        <if(rewriteMode)>
          <prevRuleRootRef()>.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
          input.replaceChildren(adaptor.getParent(retval.start),
            adaptor.getChildIndex(retval.start),
            adaptor.getChildIndex(_last),
            retval.tree);
        <endif>
        <else>
          <if(!TREE_PARSER)>
          <prevRuleRootRef()>.tree = root_0;
        <endif>
        <else>
          <if(!rewriteMode)>
          <prevRuleRootRef()>.tree = root_0;
        </if(TREE_PARSER)>
      </endif>
      <else>
        <if(!TREE_PARSER)>
        <prevRuleRootRef()>.tree = root_0;
      <else>
        <if(!rewriteMode)>
        <prevRuleRootRef()>.tree = root_0;
  </if(backtracking)>
</rewriteCode();
}}
**Generate code for an optional rewrite block; note it uses the deep ref'd element
* list rather shallow like other blocks. */
 rewriteOptionalBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
 // <fileName>:
<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext}; separator=""""""""”) ) {  
  <alt>  
}  
<referencedElementsDeep:{el | stream_<el>.reset();\n}>  
>>  

rewriteClosureBlock(  
alt,rewriteBlockLevel,  
referencedElementsDeep, // all nested refs  
referencedElements, // elements in immediately block; no nested blocks  
description) ::=  
<<  
// <fileName>:<description>  
while ( <referencedElements:{el | stream_<el>.hasNext}; separator=""""""""”) ) {  
  <alt>  
}  
<referencedElements:{el | stream_<el>.reset();\n}>  
>>  

rewritePositiveClosureBlock(  
alt,rewriteBlockLevel,  
referencedElementsDeep, // all nested refs  
referencedElements, // elements in immediately block; no nested blocks  
description) ::=  
<<  
if ( !(<referencedElements:{el | stream_<el>.hasNext}; separator=""""""""”) ) {  
  throw new RewriteEarlyExitException();  
}  
while ( <referencedElements:{el | stream_<el>.hasNext}; separator=""""""""”) ) {  
  <alt>  
}  
<referencedElements:{el | stream_<el>.reset();\n}>  
>>  

rewriteAlt(a) ::= <<  
// <a.description>  
<if(a.pred)>  
if (<a.pred>) {  
  <a.alt>  
} <\n>  
<else>  
{  
  <a.alt>  
} <\n>  
<endif>  
>>  

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() := "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
   // <fileName>:<description>
   {
   var root_.<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
   root_.rewriteElement();
   <child:rewriteElement();
   adaptor.addChild(root_.<enclosingTreeLevel>, root_.<treeLevel>);
   }
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
   #@pregen()
   <e.el>
   >>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
   adaptor.addChild(root_.<treeLevel>, <createRewriteNodeFromElement(...)>);
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
   adaptor.addChild(root_.<treeLevel>, stream_<label>.nextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
   adaptor.addChild(root_.<treeLevel>, stream_<label>.nextNode());
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
   root_.<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_.<treeLevel>));
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
   root_.<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_.<treeLevel>));
>>
rewriteImaginaryTokenRef(args, token, hetero, elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>>

rewriteImaginaryTokenRefRoot(args, token, hetero, elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...>), root_<treeLevel>));<\n>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>));<\n>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);<\n>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<action>, root_<treeLevel>));<\n>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
  <if(hetero)>
  <! new MethodNode(IDLabel, args) !>
  new <hetero>(<tokenType><if(args)>, <args; separator="","><endif>)
  <else>
  <ASTLabelType>(adaptor.create(<tokenType>, <args; separator="","><if(!args)"<tokenType>"<endif>))
  <endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
  <if(hetero)>
  new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator="","><endif>)
  <else>
  <if(args) <! must create new node from old !>
  adaptor.create(<token>, <args; separator="",">)
  <else>
  stream_<token>.nextNode()
  <endif>
  <endif>
>>

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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-
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*/

/** Templates for building ASTs during tree parsing.
* 
* Deal with many combinations. Dimensions are:
*  Auto build or rewrite
*  no label, label, list label (label/no-label handled together)
*  child, root
*  token, set, rule, wildcard
* 
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
* */
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking>)if ( <actions.(actionScope).synpredgate> ) { <endif>
<if(rewriteMode>)
retval.tree = (<ASTLabelType>)_first_0; 
if ( adaptor.GetParent(retval.tree)! = null && adaptor.IsNil(adaptor.getParent(retval.tree) ) )
   retval.tree = (<ASTLabelType>)adaptor.GetParent(retval.tree); 
<endif>
<if(backtracking)> }<endif>
>>

/** match ^((root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList, 
   enclosingTreeLevel, treeLevel) ::= <<
   _last = (<ASTLabelType>)input.LT(1);
   {
      <ASTLabelType> _save_last_<treeLevel> = _last;
      <ASTLabelType> _first_<treeLevel> = null;
      <if(!rewriteMode)>
         <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
      <endif>
      <root:element()>
      <if(rewriteMode)>
         <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
      <if(root.el.rule)>
         if ( _first_<enclosingTreeLevel> == null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
         <else>
         if ( _first_<enclosingTreeLevel> == null ) _first_<enclosingTreeLevel> = <root.el.label>;
      <endif>
      <actionsAfterRoot:element()>
      <if(nullableChildList)>
      if ( input.LA(1) == TokenTypes.Down ) {
         Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
         <children:element()>
         Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
      }
      <else>
      Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
      <children:element()>
     Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
   <endif>
   <if(!rewriteMode)>
     adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
   <endif>
   _last = _save_last_<treeLevel>;
} </n>
>>
// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.tokenRef(...)
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.tokenRef(...>
  <if(!rewriteMode>)
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(hetero>)
  <label>_tree = new <hetero>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
  <endif><\n>
  adaptor.AddChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <else> <! rewrite mode !>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  <endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...>
  <listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.tokenRef(...>
  <if(!rewriteMode>)
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(hetero>)
  <label>_tree = new <hetero>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
  <endif><\n>
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
/** Match ^label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
><endif>
>>

// SET AST
matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<hetero>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif></hetero>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}]<endif>
<endif>
}
})
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>
matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(...)
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
  <super.matchSet(..., postmatchCode={
    <if(!rewriteMode)>
      <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
      <if(hetero)>
        <label>_tree = new <hetero>(<label>);
      <else>
        <label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
      <endif>
      root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
      <if(backtracking)>}<endif>
    }<endif>
  }
 }}>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRef(...)
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
  <if(!rewriteMode)>
    adaptor.AddChild(root_<treeLevel>, <label>.Tree);
  <else> <! rewrite mode !>
    if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
  <endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)
  <listLabel(elem=label+".Tree",...)> >>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRef(...)
  <if(!rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)
>>
/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)
>>
/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)
>>
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)
>>
/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)
>>
/** Streams for token refs are tree nodes now; override to */
* change NextToken to NextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextNode())
<else>
stream_<token>.NextNode()
<endif>
>>
ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>


if ( <actions.(actionScope).synpredgate> ) { <u> <endif>
retval.tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)> } <endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-targ-
gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-
sources/org/antlr/codegen/templates/CSharp3/ASTTreeParser.stg
No license file was found, but licenses were detected in source scan.

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*/

@outputFile.imports() ::= <<
<@super.imports()><if(!TREE_PARSER)<<!
tree parser would already have imported !>
Antlr.Runtime.Tree,<\n> <endif>
>>

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 31799
/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
  strict protected
  FAdaptor: ITreeAdaptor;
  procedure SetAdaptor(const Value: ITreeAdaptor);
  property Adaptor: ITreeAdaptor read FAdaptor;
public
  property TreeAdaptor: ITreeAdaptor read FAdaptor write SetAdaptor;
>>

parserMembersConstructor() ::= <<
  FAdaptor := TCommonTreeAdaptor.Create;
>>

parserMembersImplementation() ::= <<
  procedure T<grammar.recognizerName>.SetAdaptor(const Value: ITreeAdaptor);
  begin
    FAdaptor := Value;
    <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor := FAdaptor;}>.TreeAdaptor := FAdaptor;
  end;
>>

@returnScope.ruleReturnMembers() ::= <<
  function T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.GetTree: IANTLRInterface;
  begin
    Result := FTree;
  end;

  procedure T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.SetTree(const Value: IANTLRInterface);
  begin
  end;
>>
@returnScopeDeclaration.ruleReturnMembers() ::= <<
strict private
FTree: I<ASTLabelType>;
protected
{ IRuleReturnScope }
function GetTree: IANTLRInterface; override;
procedure SetTree(const Value: IANTLRInterface); override;
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
Root[0] := nil;<\n
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
Root: array [0..63] of I<ASTLabelType>;
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree := nil;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree := nil;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites:{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor,'token <it>');?>; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites:{Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor,'rule <it>');?>; separator="\n">
>>

ruleLabelDefVars() ::= <<
<super.ruleLabelDefVars()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables:
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 31801
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...) <! Track implies no auto AST construction!>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as IRewriteRuleElementStream).Add(<label>);
>n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and* *
to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)
<listLabel(elem=label,...)>>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as IRewriteRuleElementStream).Add(<label>);
>n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule.name>'] as IRewriteRuleElementStream).Add(<label>.Tree);
>n>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+'.Tree','.')>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule, label, elementIndex, args, scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule>'] as IRewriteRuleElementStream).Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+'.Tree','.')>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedRuleLabels,
referencedRuleListLabels,
  referencedWildcardLabels,
  referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements:         <referencedElementsDeep; separator="", ">
// token labels:     <referencedTokenLabels; separator="", ">
// rule labels:      <referencedRuleLabels; separator="", ">
// token list labels: <referencedTokenListLabels; separator="", ">
// rule list labels: <referencedRuleListLabels; separator="", ">
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<prevRuleRootRef().Tree := Root[0];
<rewriteCodeLabels()>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER>
<if(rewriteMode)>
<prevRuleRootRef()>.Tree = (<ASTLabelType>)adaptor.rulePostProcessing(root[0]);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
    adaptor.GetChildIndex(retval.Start),
    adaptor.GetChildIndex(_last),
    retval.Tree);
<endif>
<endif>
<! if parser or rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef()>.Tree := Root[0];
</if>
<if(!rewriteMode)>
<prevRuleRootRef()>.Tree := Root[0];
</if>
<if(backtracking)>
end;
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
    :{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', <it>);};
    separator="\n"
>
<referencedTokenListLabels
    :{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor,'token <it>', list_<it>);};
    separator="\n"
>
<referencedRuleLabels:{
    if Assigned(<it>) then
    Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', <it>.Tree)
    else
    Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', nil);}; separator="\n"
<referencedRuleListLabels
    :{Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', list_<it>);};
    separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
description) ::=
if (<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ">
then
begin
<alt>
end;
<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset;

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
(* <fileName>:<description> *)
while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ">
) do
begin
<alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
(* <fileName>:<description> *)
if (not (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ">)) then
raise ERewriteEarlyExitException.Create('');
while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ">) do
begin
<alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();

rewriteAlt(a) ::= <<
(* <a.description> *)
<if(a.pred)>
if (<a.pred>) then
begin

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "Root[0] = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
(* <fileName>:<description> *)
begin
Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
        <root:rewriteElement()>
        <children:rewriteElement()>
        Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
end;
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
        <@pregen()>
        <e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
        Adaptor.AddChild(Root[<treeLevel>], <createRewriteNodeFromElement(...)>);<
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
        Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as I RewriteRuleElementStream).NextNode());<
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
        Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as I RewriteRuleElementStream).NextNode());<
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
>>
IRewriteRuleElementStream).NextNode(), Root[<treeLevel>] as I<ASTLabelType>;<
> >>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^ID ... or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, Root[<treeLevel>]) as I<ASTLabelType>;<
> >>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createImaginaryNode(tokenType=token, ...)>);<
> >>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...>), Root[<treeLevel>]) as I<ASTLabelType>;<
> >>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
Root[0] = <action>;<
> >>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of Root[0] right
* before I set it during rewrites. The assign will be to retval.Tree.
*/
prevRuleRootRef() ::= "RetVal"

rewriteRuleRef(rule) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextTree());<
> >>

rewriteRuleRefRoot(rule) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<
> >>

rewriteNodeAction(action) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <action>);<
> >>

rewriteNodeActionRoot(action) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<action>, Root[<treeLevel>]) as I<ASTLabelType>;<
> >>
/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
    Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
    Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
    Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
        Root[<treeLevel>]) as I<ASTLabelType>;
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
    Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
        Root[<treeLevel>]) as I<ASTLabelType>;
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
    <if(hetero)>
    <! new MethodNode(IDLabel, args) !>
    T<hetero>.Create(<tokenType><if(args)>,<args; separator="","><endif>)
    <else>
    Adaptor.CreateNode(<tokenType>, <args; separator="","><if(!args)>'<tokenType>'<endif>) as I<ASTLabelType>
    <endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
    <if(hetero)>
    T<hetero>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextToken<if(args)>,<args;
        separator="","><endif>)
    <else>
    <if(args)> <! must create new node from old !>
    Adaptor.Create(<token>, <args; separator="",">)
    <else>
    (Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
    <endif>
    <endif>
>>

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-
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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/misc/Utils.java
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/analysis/RuleClosureTransition.java
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/Java/ST.stg
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/templates/Java/ST.stg
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*/

group Java implements ANTLRCore;

javaTypeInitMap ::= [
  "int" : "0",
  "long" : "0",
  "float" : "0.0f",
  "double" : "0.0",
  "boolean" : "false",
  "byte" : "0",
  "short" : "0",
  "char" : "0",
  default : "null" // anything other than an atomic type
/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
         name, tokens, tokenNames, rules, cyclicDFAs,
         bitsets, buildTemplate, buildAST, rewriteMode, profile,
         backtracking, synpreds, memoize, numRules,
         fileName, ANTLRVersion, generatedTimestamp, trace,
         scopes, superClass, literals) ::= <<
 << $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp> 
 <actions.(actionScope).header> 

 <@imports> 
 import org.antlr.runtime.*;
 <if(TREE_PARSER)> 
 import org.antlr.runtime.tree.*;
 <endif>
 import java.util.Stack;
 import java.util.List;
 import java.util.ArrayList;
 <if(backtracking)> 
 import java.util.Map;
 import java.util.HashMap;
 <endif>
 <@end> 
<docComment> 
<recognizer> 
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="CommonToken",
      filterMode, superClass="Lexer") ::= <<
 public class <grammar.recognizerName> extends <@superClassName><superClass><@end> { 
   <tokens:{public static final int <it.name>=<it.type>;}; separator="\n"> 
   <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}> 
   <actions.lexer.members> 
   // delegates 
   <grammar.delegates: {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"> 
   // delegators 
   <grammar.delegators: {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"> 
   <last(grammar.delegators): {g|public <g.recognizerName> gParent;}>

   // delegators 
   <grammar.delegators: {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"> 
   // delegators 
   <grammar.delegators: {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"> 
   <last(grammar.delegators): {g|public <g.recognizerName> gParent;}>
public <grammar.recognizerName>() {}

public <grammar.recognizerName>(CharStream input<grammar.delegators:{g|, <g.recognizerName>
<g:delegateName()>}>) {
    this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g:delegateName()>}>));
}

public <grammar.recognizerName>(CharStream input, RecognizerSharedState state<grammar.delegators:{g|,
<g.recognizerName> <g:delegateName()>}>) {
    super(input, state);

<if(memoize)>
    <if(grammar.grammarIsRoot)>
        state.ruleMemo = new HashMap[numRules]+1];\n<! index from 1..n !>
    <endif>
<endif>

<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|
<p:delegateName()>}>, this);}; separator="\n">

<grammar.delegators:{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">

<last(grammar.delegators):{g|gParent = <g:delegateName>();}>}

public String getGrammarFileName() { return "<fileName>"; }

<if(filterMode)>
    <filteringNextToken()>
<endif>

<endif>

<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)> }>

<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n">

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
    }
}>>

/\*
*/
state.token = null;
state.channel = Token.DEFAULT_CHANNEL;
state.tokenStartCharIndex = input.index();
state.tokenStartCharPositionInLine = input.getCharPositionInLine();
state.tokenStartLine = input.getLine();
state.text = null;
try {
    int m = input.mark();
    state.backtracking=1;  <! means we won't throw slow exception !>
    state.failed=false;
    mTokens();
    state.backtracking=0;
    <! mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1. !>
    if ( state.failed ) {
        input.rewind(m);
        input.consume(); <! advance one char and try again !>
    }
    else {
        emit();
        return state.token;
    }
}
catch (RecognitionException re) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}

public void memoize(IntStream input,
int ruleIndex,
int ruleStartIndex)
{
    if ( state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if ( state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
}

actionGate() ::= "state.backtracking==0"

filteringActionGate() ::= "state.backtracking==1"
/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    ASTLabelType="Object", labelType, members, rewriteElementType,
    filterMode) ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
    <if(grammar.grammarIsRoot)>
        public static final String[] tokenNames = new String[] {
            "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=" ">
        };
    </if>
    <tokens:{public static final int <it.name>=<it.type>;}; separator="
">
    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g:delegateName()>;}; separator="
">
    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g:delegateName()>;}; separator="
">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>}
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>}
    <@members>
        public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
            <g:delegateName()>}>){
            this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>));
        }
        public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState
            state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()> }>) {
            super(input, state);
            <parserCtorBody()>
            <grammar.directDelegates:
                {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|
                    <p:delegateName()>}, this);}; separator="
">
            <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;}; separator="
">
            <last(grammar.delegators):{g|gParent = <g:delegateName>();}>}
        }
    </@end>
    public String[] getTokenNames() { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
    public String getGrammarFileName() { return "<fileName>"; }
    <members>
    <rules; separator="\n\n">
<!-- generate rule/method definitions for imported rules so they appear to be defined in this recognizer. -->

// Delegated rules
grammar.delegatedRules:{[ruleDescriptor]
   public <returnType()> <ruleDescriptor.name>({ruleDescriptor.parameterScope:parameterScope(scope=it)})
   throws RecognitionException { <if(ruleDescriptor.hasReturnValue>)return
   <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>({ruleDescriptor.parameterScope.attribut;
es:[a|a.name]; separator="","}; \}); separator="n">}

<synpreds:{p | <synpred(p)>}>  
<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n">  
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bits:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
   words64=it.bits)>  
} >>

parserCtorBody() ::= <<
   <if(memoize)>
   <if(grammar.grammarIsRoot)>
   this.state.ruleMemo = new HashMap[length(grammar.allImportedRules)]+1];
   \n   <\n   <index from 1..n !>
   <endif>
   <endif>
   <grammar.delegators: 
   {g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">  
} >>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
   ASTLabelType="Object", superClass="Parser", labelType="Token",
   members={<actions.parser.members>}) ::= <<
   <genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>  
} >>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
   numRules, bitsets, labelType={<ASTLabelType>}, ASTLabelType="Object",
   superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
   members={<actions.treeparser.members>},
   filterMode) ::= <<
   <genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>  
} >>
/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= 
<<
// $ANTLR start <ruleName>
public final void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws 
RecognitionException {
<ruleLabelDefs()>
<if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try {
        <block>
    }
    finally {
        traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
<else>
    <block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public final boolean <name>() {
    state.backtracking++;
    #@start()
    int start = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = !state.failed;
    input.rewind(start);
    #@stop()
    state.backtracking--;
    state.failed=false;
    return success;
}="#
>>

lexerSynpred(name) ::= <<
ruleMemoization(name) ::= <<
<if(memoize)>
if ( state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue>(); } <endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) return <ruleReturnValue>();<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) {state.failed=true; return <ruleReturnValue>();}<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
// $ANTLR start "<ruleName>"
// <fileName>:<description>
public final <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws RecognitionException {
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
}@preamble()>
try {
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
catch (RecognitionException re) {
    reportError(re);
    recover(input,re);
    \@setErrorReturnValue()
} \in
\endif
\endif
\endif
\finally {
    \if(trace)traceOut("<ruleName>", <ruleDescriptor.index>);\endif
    \memoize()
    \ruleScopeCleanUp()
    \finally
\}
\@postamble()
return <ruleReturnValue>;
\}
// $ANTLR end "<ruleName>"

\catch(decl,action) ::= <<
    catch (<e.decl>) {
        \e.action
    }
\>>

ruleDeclarations() ::= <<
\if(ruleDescriptor.hasMultipleReturnValues)
    <returnType()> retval = new <returnType()>();
    retval.start = input.LT(1);\in
\else
\ruleDescriptor.returnScope.attributes:{ a |
    \a.type \a.name = \if(a.initValue)\a.initValue\else\initValue(a.type)\endif;
} \endif
\if(memoize)
    int <ruleDescriptor.name>_StartIndex = input.index();
\endif
\>>

ruleScopeSetUp() ::= <<
\ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
\ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
\>>

ruleScopeCleanUp() ::= <<
\ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">

<ruleDescriptor.ruleScope: {<it.name>._stack.pop();}; separator="\n">

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
  :{<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
  :{List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">

ruleCleanUp() ::= <<
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
  :{<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
  :{List list_<it.label.text>=null;}; separator="\n"
>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);
<endif>
<endif>

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memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); } 
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public final void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws RecognitionException {
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
[block]<\n>
<else>
int _type = <ruleName>;
int _channel = DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
[block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>}
<endif>
}
finally {
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
<memoize()>
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
that chooses between lexer rules.

```java
public void mTokens() throws RecognitionException {
    // ...
}
```

/* SUBRULES

/** A (...) subrule with multiple alternatives */
block(alt, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    <@prebranch()>
    switch (alt<decisionNumber>) {
        <alts:altSwitchCase()>
    }
    <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alt, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {
        <alts:altSwitchCase()>
    }
>>

ruleBlockSingleAlt(alt, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
// <fileName>:<description>
<decls>
    <@prealt()>
    <alts>
    <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alt, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

---

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switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
    default :
        break loop<decisionNumber>;
    }
} while (true);

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock := block

optionalBlockSingleAlt := block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
    case <i> :
        <@prealt()>
        <it>
        break;<

** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    // <fileName>::<description>
    {
    <@declarations()>
    <elements:element()>
    <rew>
    <@cleanup()>
    }
} >>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS
/** Dump the elements one per line */
element() ::= <<
  <prematch()>
  <it.el>
  
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
  <if(label)> <label>=(<labelType>)<endif>match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>);
  <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...>)
  <listLabel(elem=label,...)> 
>>

listLabel(label,elem) ::= <<
  if (list_<label>==null) list_<label>=new ArrayList();
  list_<label>.add(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
  <if(label)> 
  <label> = input.LA(1);
  <endif>
  match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)> 
  <label> = input.LA(1);
  <endif>
  matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
mismatch(s,label,elementIndex,postmatchCode="") ::= <<
  <if(label)> 
  <if(LEXER)> 
  <label> = input.LA(1);
  <else> 
  <label> = (<labelType>)input.LT(1);
  <endif>
  <endif>
  <endif>
  <endif>
if ( <s>) {
    input.consume();
    <postmatchCode>
    <if(!LEXER>)
        state.errorRecovery=false;
    <endif>
    <if(backtracking)>state.failed=false;</endif>
}
else {
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    @mismatchedSetException()>
    <if(Lexer)>
        recover(mse);
        throw mse;
    <else>
        throw mse;
        <! use following code to make it recover inline; remove throw mse;
        recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    !>
    <endif>
} 

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
    <matchSet(...)>
    <listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
    <if(label)>
    int <label>Start = getCharIndex();
    match(<string>); <checkRuleBacktrackFailure()>
    <label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
    <else>
    match(<string>); <checkRuleBacktrackFailure()>
<<
    <endif>
>>

wildcard(label,elementIndex) ::= <<
    <if(label)>
    <label>=(<labelType>)input.LT(1);<
    <endif>
    matchAny(input); <checkRuleBacktrackFailure()>


wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,....)> 
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()> 
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)> 
>>

/** Match a rule reference by invoking it possibly with arguments 
* and a return value or values. The 'rule' argument was the 
* target rule name, but now is type Rule, whose toString is 
* same: the rule name. Now though you can access full rule 
* descriptor stuff. */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>); 
<if(label)> <label>=<endif> <if(scope)> <scope:delegateName()> <endif> <rule.name>({args; separator="","});<\n> 
state._fsp--; 
<checkRuleBacktrackFailure()> 
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,....)> 
>>

/** A lexer rule reference. */
* 
* The 'rule' argument was the target rule name, but now 
* is type Rule, whose toString is same: the rule name. 
* Now though you can access full rule descriptor stuff. */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>,
getCharIndex()-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
        match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    }
<else>
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is *
also hoisted into a prediction expression).
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<
<edges; separator="nelse ">
else {
    <if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
    <else>
    <ruleBacktrackFailure()>
    NoViableAltException nvae =
        new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<
        #@noViableAltException()>
    throw nvae;<
    <endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<
<edges; separator="nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<
<edges; separator="nelse ">
<< if(!edges) 
 alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
  <targetState>
}
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n"> default:
  alt<decisionNumber>=<eotPredictsAlt>;
<else>
  <ruleBacktrackFailure()>
NoViableAltException nvae =
  new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
  @noViableAltException()
  throw nvae;
@end

<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
  <edges; separator="\n">}
>>
dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= 
<switch ( input.LA(<k>) ) > {
    <edges; separator="\n"><\n>
        <if(eotPredictsAlt)>
            default:
            alt<decisionNumber> = eotPredictsAlt;
            break;\n        <endif>
    }\n}\n
>>

dfaEdgeSwitch(labels, targetState) ::= 
<labels:{case <it>:}; separator="\n">{
    <targetState>
} break;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::= 
alt<decisionNumber> = dfa<decisionNumber>.predict(input);

>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= 
static final String DFA<dfa.decisionNumber>._eotS = 
    "<dfa.javaCompressedEOT; wrap="\"+\n\"">";
static final String DFA<dfa.decisionNumber>._eofS = 
    "<dfa.javaCompressedEOF; wrap="\"+\n\"">";
static final String DFA<dfa.decisionNumber>._minS = 
    "<dfa.javaCompressedMin; wrap="\"+\n\"">";
static final String DFA<dfa.decisionNumber>._maxS = 
    "<dfa.javaCompressedMax; wrap="\"+\n\"">";
static final String DFA<dfa.decisionNumber>._acceptS = 
    "<dfa.javaCompressedAccept; wrap="\"+\n\"">";
static final String DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="\"\n \"">";
static final String[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition:s; wrap="\"\n\"">"};
};

static final short[] DFA<dfa.decisionNumber>_eot =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static final short[] DFA<dfa.decisionNumber>_eof =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static final char[] DFA<dfa.decisionNumber>_min =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static final char[] DFA<dfa.decisionNumber>_max =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static final short[] DFA<dfa.decisionNumber>_accept =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static final short[] DFA<dfa.decisionNumber>_special =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static final short[][] DFA<dfa.decisionNumber>_transition;
static {
    int numStates = DFA<dfa.decisionNumber>_transitionS.length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for (int i=0; i<numStates; i++) {
        DFA<dfa.decisionNumber>_transition[i] =
        DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

class DFA<dfa.decisionNumber> extends DFA {

    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer) {
        this.recognizer = recognizer;
        this.decisionNumber = <dfa.decisionNumber>;
        this.eot = DFA<dfa.decisionNumber>_eot;
        this.eof = DFA<dfa.decisionNumber>_eof;
        this.min = DFA<dfa.decisionNumber>_min;
        this.max = DFA<dfa.decisionNumber>_max;
        this.accept = DFA<dfa.decisionNumber>_accept;
        this.special = DFA<dfa.decisionNumber>_special;
        this.transition = DFA<dfa.decisionNumber>_transition;
    }

    public String getDescription() {
        return "<dfa.description>";
    }
}

<@errorMethod()>
<if(dfa.specialStateSTs)>
    public int specialStateTransition(int s, IntStream _input) throws NoViableAltException {

    }
```java
<if(LEXER)>
IntStream input = _input;
<endif>
<if(PARSER)>
TokenStream input = (TokenStream)_input;
<endif>
<if(TREE_PARSER)>
TreeNodeStream input = (TreeNodeStream)_input;
<endif>
int _s = s;
switch ( s ) {
<dfa.specialStateSTs:{state | case <i0> : <! compressed special state numbers 0..n-1 !>}
<state>}; separator="\n">}
<if(backtracking)>
if (state.backtracking>0) {state.failed=true; return -1;}<
><endif>
NoViableAltException nvae =
new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input);
error(nvae);
throw nvae;
}<
><endif>
}
<<
/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<
><if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.index();
input.rewind();<
><endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);<
><endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
```
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>) && (<predicates>) <endif>) {s = <targetStateNumber>;}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | ||<o>}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred, description) ::= "(<pred>)"

evalSynPredicate(pred, description) ::= "<pred>()"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom, k, atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>\=<lower> && LA<decisionNumber>_<stateNumber>\=<upper>)
>>

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "(input.LA(<k>)\=<lower>
&& input.LA(<k>)\=<upper>)"

setTest(ranges) ::= "<ranges; separator="\||">"

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<
>>
ruleAttributeScope(scope) ::= <<
  <if(scope.attributes)>
  protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">
  }
  protected Stack <scope.name>_stack = new Stack();
  <endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName>()
  <else>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
>>

/** Generate the Java type associated with a single or multiple return
 * values.
 */

ruleLabelType(referencedRule) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
  <referencedRule.grammar.recognizerName>.<referencedRule.name>_return
  <else>
  <if(referencedRule.hasSingleReturnValue)>
  <referencedRule.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
>>

delegateName() ::= <<
  <if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<j avaTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
public static class <ruleDescriptor:returnStructName()> extends
@if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
 <scope.attributes:{public <it.decl>;}; separator="\n">
 @ruleReturnMembers()
};
@endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
@if(negIndex)
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
@else
@if(index)
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
@else
((<scope>_scope)<scope>_stack.peek()).<attr.name>
@endif>
@endif>
>>

scopeSetAttributeRef(scope,attr.expr,index,negIndex) ::= <<
@if(negIndex)
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
@else
@if(index)
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
@endif>
@endif>
((<scope>_scope)._stack.elementAt(<index>).<attr.name> =<expr>;)
<else>
((<scope>_scope)._stack.peek()).<attr.name> =<expr>
<endif>
<endif>
>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {sf.function.size()>0 && sf.function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(scope!=null?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>
<else>
<attr.name> =<expr>
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.getText():null)"
tokenLabelPropertyRef_type(scope, attr) ::= "(<scope>!=null?<scope>.getType():0)"

ruleLabelPropertyRef_start(scope, attr) ::= "((<labelType>)retval.start)"

lexerRuleLabelPropertyRef_type(scope, attr) ::= 
"(<scope>!=null?<scope>.getType():0)"

lexerRuleLabelPropertyRef_line(scope, attr) ::= 
"(<scope>!=null?<scope>.getLine():0)"

lexerRuleLabelPropertyRef_pos(scope, attr) ::= 
"(<scope>!=null?<scope>.getCharPositionInLine():-1)"

lexerRuleLabelPropertyRef_channel(scope, attr) ::= 
"(<scope>!=null?<scope>.getChannel():0)"

lexerRuleLabelPropertyRef_index(scope, attr) ::= 
"(<scope>!=null?<scope>.getTokenIndex():0)"

lexerRuleLabelPropertyRef_text(scope, attr) ::= 
"(<scope>!=null?<scope>.getText():null)"

def input.getString(scope, stop)

(Collectors.stream(lexerRuleLabelPropertyRefs()).map(lexerRuleLabelPropertyRef ->
   lexemes.get(lexerRuleLabelPropertyRef.text().text)
).forEach(System.out::println)

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "((<labelType>)retval.start)"

rulePropertyRef_stop(scope, attr) ::= "((<labelType>)retval.stop)"

rulePropertyRef_tree(scope, attr) ::= "((<ASTLabelType>)retval.tree)"

rulePropertyRef_text(scope, attr) ::= "((<labelType>)retval.text())"
input.getTreeAdaptor().getTokenStartIndex(retval.start),
input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
input.toString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= ".type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= ".channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
 <action>
 }
<else>
 <action>
 <endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)
bitset(name, words64) ::= <<
pub\b\b\b\b\b\blic static final BitSet <name> = new BitSet(new long[]{<words64:{<it>L};separator","});
>>

codeFileExtension() ::= ".java"

true() ::= "true"
false() ::= "false"
/*
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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDBG : AST : DBG : JAVA by code generator.
*/
group ASTDBG;

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;
public void setTreeAdaptor(TreeAdaptor adaptor) {
<if(grammar.grammarIsRoot)>
  this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
<else>
  this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
<endif>>
<grammar.directDelegates:{g|g:delegateName()}.setTreeAdaptor(this.adaptor);>
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
    new DebugEventSocketProxy(this,port,<if(TREE_PARSER)>input.getTreeAdaptor()<else>adaptor<endif>);
setDebugListener(proxy);
set<InputStreamType>(new Debug<InputStreamType>(input,proxy));
try {
    proxy.handshake();
}
catch (IOException ioe) {
    reportError(ioe);
}
>>

@ctorForRootGrammar.finally() ::= <<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>

@ctorForProfilingRootGrammar.finally() ::=<<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>

@ctorForPredefinedListener.superClassRef() ::= "super(input, dbg);"

@ctorForPredefinedListener.finally() ::=<<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
<endif>
<un>
>>

@rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);"
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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/codegen/ObjCTarget.java
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* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/tool/CompositeGrammarTree.java
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-tar-gz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/tool/CompositeGrammar.java

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*/
/*
New style messages. This file only contains the messages in English, but no
information about which file, line, or column it occurred in.
The location and message ids are taken out of the formats directory.
Kay Roepke
*/
group en_US;

// TOOL ERRORS
// file errors
CANNOT_WRITE_FILE(arg,exception,stackTrace) ::= <<
cannot write file <arg>: <exception>
<stackTrace; separator="\n">
>>
CANNOT_CLOSE_FILE(arg,exception,stackTrace) ::= "cannot close file <arg>: <exception>"
CANNOT_FIND_TOKENS_FILE(arg) ::= "cannot find tokens file <arg>"
ERROR_READING_TOKENS_FILE(arg,exception,stackTrace) ::= <<
problem reading token vocabulary file <arg>: <exception>
<stackTrace; separator="\n">
>>
DIR_NOT_FOUND(arg,exception,stackTrace) ::= "directory not found: <arg>"
OUTPUT_DIR_IS_FILE(arg,exception,stackTrace) ::= "output directory is a file: <arg>"
CANNOT_OPEN_FILE(arg,exception,stackTrace) ::= "cannot find or open file: <arg><if(exception)>; reason:
<exception><endif>"
CIRCULAR_DEPENDENCY() ::= "your grammars contain a circular dependency and cannot be sorted into a valid
build order."

INTERNAL_ERROR(arg,exception,stackTrace) ::= <<
internal error: <arg> <arg2><if(exception)>; reason:<exception><endif>
<stackTrace; separator="\n">
>>
INTERNAL_WARNING(arg) ::= "internal warning: <arg>"
ERROR_CREATING_ARTIFICIAL_RULE(arg,exception,stackTrace) ::= <<
problems creating lexer rule listing all tokens: <exception>
<stackTrace; separator="\n">
>>
TOKENS_FILE_SYNTAX_ERROR(arg,exception,stackTrace) ::= <<
"problems parsing token vocabulary file <arg> on line <arg2>"
CANNOT_GEN_DOT_FILE(arg,exception,stackTrace) ::= <<
"cannot write DFA DOT file <arg>: <exception>"
BAD_ACTION_AST_STRUCTURE(exception,stackTrace) ::= <<
"bad internal tree structure for action '<arg>': <exception>"
BAD_AST_STRUCTURE(exception,stackTrace) ::= <<
bad internal tree structure '<arg>': <exception>
<stackTrace; separator="\n">
>>
FILE_AND_GRAMMAR_NAME_DIFFER(arg,arg2) ::= 
"file <arg2> contains grammar <arg>; names must be identical"
FILENAME_EXTENSION_ERROR(arg) ::= 
"file <arg> must end in a file extension, normally .g"

// code gen errors
MISSING_CODE_GEN_TEMPLATES(arg) ::= 
"cannot find code generation templates <arg>.stg"
MISSING_CYCLIC_DFA_CODE_GEN_TEMPLATES() ::= 
"cannot find code generation cyclic DFA templates for language <arg>"
CODE_GEN_TEMPLATES_INCOMPLETE(arg) ::= 
"at least one code generation template missing for language <arg>"
CANNOT_CREATE_TARGET_GENERATOR(arg,exception,stackTrace) ::= 
"cannot create target <arg> code generator: <exception>"
CANNOT_COMPUTE_SAMPLE_INPUT_SEQ() ::= 
"cannot generate a sample input sequence from lookahead DFA"

// grammar interpretation errors
/*
NO_VIABLE_DFA_ALT(arg,arg2) ::= 
"no viable transition from state <arg> on <arg2> while interpreting DFA"
*/

// GRAMMAR ERRORS
SYNTAX_ERROR(arg) ::= "syntax error: <arg>"
RULE_REDEFINITION(arg) ::= 
"rule <arg> redefinition"
LEXER_RULES_NOT_ALLOWED(arg) ::= 
"lexer rule <arg> not allowed in parser"
PARSER_RULES_NOT_ALLOWED(arg) ::= 
"parser rule <arg> not allowed in lexer"
CANNOT_FIND_ATTRIBUTE_NAME_IN_DECL(arg) ::= 
"cannot find an attribute name in attribute declaration"
NO_TOKEN_DEFINITION(arg) ::= 
"no lexer rule corresponding to token: <arg>"
UNDEFINED_RULE_REF(arg) ::= 
"reference to undefined rule: <arg>"
LITERAL_NOT_ASSOCIATED_WITH_LEXER_RULE(arg) ::= 
"literal has no associated lexer rule: <arg>"
CANNOT_ALIAS_TOKENS_IN_LEXER(arg) ::= 
"literals are illegal in lexer tokens{} section: <arg>"
ATTRIBUTE_REF_NOT_IN_RULE(arg,arg2) ::= 
"reference to attribute outside of a rule: <arg><if(arg2)>.<arg2><endif>"
UNKNOWN_ATTRIBUTE_IN_SCOPE(arg,arg2) ::= 
"unknown attribute for <arg>: <arg2>"
UNKNOWN_RULE_ATTRIBUTE(arg, arg2) ::= "unknown attribute for rule <arg>: <arg2>"
UNKNOWN_SIMPLE ATTRIBUTE(arg, args2) ::= "attribute is not a token, parameter, or return value: <arg>"
ISOLATED_RULE_SCOPE(arg) ::= "missing attribute access on rule scope: <arg>"
INVALID_RULE_PARAMETER_REF(arg, arg2) ::= "cannot access rule <arg>'s parameter: <arg2>"
INVALID_RULE_SCOPE_ATTRIBUTE_REF(arg, arg2) ::= "cannot access rule <arg>'s dynamically-scoped attribute: <arg2>"
SYMBOL_CONFLICTS_WITH_GLOBAL_SCOPE(arg) ::= "symbol <arg> conflicts with global dynamic scope with same name"
WRITE_TO_READONLY_ATTR(arg, arg2, arg3) ::= "cannot write to read only attribute: $<arg><if(arg2)>.<arg2><endif>"
LABEL_CONFLICTS_WITH_RULE(arg) ::= "label <arg> conflicts with rule with same name"
LABEL_CONFLICTS_WITH_TOKEN(arg) ::= "label <arg> conflicts with token with same name"
LABEL_CONFLICTS_WITH_RULE_SCOPE_ATTRIBUTE(arg, arg2) ::= "label <arg> conflicts with rule <arg2>'s dynamically-scoped attribute with same name"
LABEL_CONFLICTS_WITH_RULE_ARG_RETVAL(arg, arg2) ::= "label <arg> conflicts with rule <arg2>'s return value or parameter with same name"
ATTRIBUTE_CONFLICTS_WITH_RULE(arg, arg2) ::= "rule <arg2>'s dynamically-scoped attribute <arg> conflicts with the rule name"
ATTRIBUTE_CONFLICTS_WITH_RULE_ARG_RETVAL(arg, arg2) ::= "rule <arg2>'s dynamically-scoped attribute <arg> conflicts with <arg2>'s return value or parameter with same name"
LABEL_TYPE_CONFLICT(arg, arg2) ::= "label <arg> type mismatch with previous definition: <arg2>"
ARG_RETVAL_CONFLICT(arg, arg2) ::= "rule <arg2>'s argument <arg> conflicts a return value with same name"
NONUNIQUE_REF(arg) ::= "<arg> is a non-unique reference"
FORWARD_ELEMENT_REF(arg) ::= "illegal forward reference: <arg>"
MISSING_RULE_ARGS(arg) ::= "missing parameter(s) on rule reference: <arg>"
RULE_HAS_NO_ARGS(arg) ::= "rule <arg> has no defined parameters"
ARGS_ON_TOKEN_REF(arg) ::= "token reference <arg> may not have parameters"
/
NONCHAR_RANGE() ::= "range operator can only be used in the lexer"
*/
ILLEGAL_OPTION(arg) ::= "illegal option <arg>"
LIST_LABEL_INVALID_UNLESS_RETVAL_STRUCT(arg) ::=
"rule '+=' list labels are not allowed w/o output option: <arg>"
UNDEFINED_TOKEN_REF_IN_REWRITE(arg) ::= 
"reference to undefined token in rewrite rule: <arg>"
REWRITE_ELEMENT_NOT_PRESENT_ON_LHS(arg) ::= 
"reference to rewrite element <arg> without reference on left of ->
UNDEFINED_LABEL_REF_IN_REWRITE(arg) ::= 
"reference to undefined label in rewrite rule: $<arg>"
NO_GRAMMAR_START_RULE (arg) ::= 
"grammar <arg>: no start rule (no rule can obviously be followed by EOF)"
EMPTY_COMPLEMENT(arg) ::= <<
<if(arg)>
set complement ~<arg> is empty
<else>
set complement is empty
<endif>
>>
UNKNOWN_DYNAMIC_SCOPE(arg) ::= 
"unknown dynamic scope: <arg>"
UNKNOWN_DYNAMIC_SCOPE_ATTRIBUTE(arg, arg2) ::= 
"unknown dynamically-scoped attribute for scope <arg>: <arg2>"
RULE_REF_AMBIG_WITH_RULE_IN_ALT(arg) ::= 
"reference $<arg> is ambiguous; rule <arg> is enclosing rule and referenced in the production (assuming enclosing rule)"
ISOLATED_RULE_ATTRIBUTE(arg) ::= 
"reference to locally-defined rule scope attribute without rule name: <arg>"
INVALID_ACTION_SCOPE(arg, arg2) ::= 
"unknown or invalid action scope for <arg2> grammar: <arg>"
ACTION_REDEFINITION(arg) ::= 
"redefinition of <arg> action"
DOUBLE_QUOTES_ILLEGAL(arg) ::= 
"string literals must use single quotes (such as \begin\): <arg>"
INVALID_TEMPLATE_ACTION(arg) ::= 
"invalid StringTemplate % shorthand syntax: '<arg>'"
MISSING_ATTRIBUTE_NAME() ::= 
"missing attribute name on $ reference"
ARG_INIT_VALUES_ILLEGAL(arg) ::= 
"rule parameters may not have init values: <arg>"
REWRITE_OR_OP_WITH_NO_OUTPUT_OPTION(arg) ::= 
"<if(arg)>rule <arg> uses <endif>rewrite syntax or operator with no output option; setting output=AST"
AST_OP_WITH_NON_AST_OUTPUT_OPTION(arg) ::= 
"AST operator with non-AST output option: <arg>"
NO_RULES(arg) ::= "grammar file <arg> has no rules"
MISSING_AST_TYPE_IN_TREE_GRAMMAR(arg) ::= 
"tree grammar <arg> has no ASTLabelType option"
REWRITE_FOR_MULTI_ELEMENT_ALT(arg) ::= 
"with rewrite=true, alt <arg> not simple node or obvious tree element; text attribute for rule not guaranteed to be correct"
RULE_INVALID_SET(arg) ::=
"Cannot complement rule <arg>; not a simple set or element"

HETERO_ILLEGAL_IN_REWRITE_ALT(arg) ::= "alts with rewrites can't use heterogeneous types left of ->"

NO_SUCH_GRAMMAR_SCOPE(arg,arg2) ::= "reference to undefined grammar in rule reference: <arg>.<arg2>"

NO_SUCH_RULE_IN_SCOPE(arg,arg2) ::= "rule <arg2> is not defined in grammar <arg>"

TOKEN_ALIAS_CONFLICT(arg,arg2) ::= "cannot alias <arg>; string already assigned to <arg2>"

TOKEN_ALIAS_REASSIGNMENT(arg,arg2) ::= "cannot alias <arg>; token name already assigned to <arg2>"

TOKEN_VOCAB_IN_DELEGATE(arg,arg2) ::= "tokenVocab option ignored in imported grammar <arg>"

INVALID_IMPORT(arg,arg2) ::= "<arg.grammarTypeString> grammar <arg.name> cannot import <arg2.grammarTypeString> grammar <arg2.name>"

IMPORTED_TOKENS_RULE_EMPTY(arg,arg2) ::= "no lexer rules contributed to <arg> from imported grammar <arg2>"

IMPORT_NAME_CLASH(arg,arg2) ::= "combined grammar <arg.name> and imported <arg2.grammarTypeString> grammar <arg2.name> both generate <arg2.recognizerName>; import ignored"

AST_OP_IN_ALT_WITH_REWRITE(arg,arg2) ::= "rule <arg> alt <arg2> uses rewrite syntax and also an AST operator"

WILDCARD_AS_ROOT(arg) ::= "Wildcard invalid as root; wildcard can itself be a tree"

CONFLICTING_OPTION_IN_TREE_FILTER(arg,arg2) ::= "option <arg>=<arg2> conflicts with tree grammar filter mode"

// GRAMMAR WARNINGS

GRAMMAR_NONDETERMINISM(input,conflictingAlts,paths,disabled,hasPredicateBlockedByAction) ::= <<
  <if(paths)>
  Decision can match input such as "<input>" using multiple alternatives:
  <paths: { alt <it.alt> via NFA path <it.states; separator=","}>\n  }>
  <else>
  Decision can match input such as "<input>" using multiple alternatives: <conflictingAlts; separator=",">\n  <endif>
  <if(disabled)>
  As a result, alternative(s) <disabled; separator=","> were disabled for that input\n  <endif>
  <if(hasPredicateBlockedByAction)>
  Semantic predicates were present but were hidden by actions.\n  <endif>
>>

DANGLING_STATE(danglingAlts,input) ::= <<
  the decision cannot distinguish between alternative(s) <danglingAlts; separator=","> for input such as "<input>"
>>

UNREACHABLE_ALTS(alts) ::= <<
  The following alternatives can never be matched: <alts; separator=",">\n>>
INSUFFICIENT_PREDICATES(upon, altToLocations, hasPredicateBlockedByAction) ::= <<
Input such as "<upon>" is insufficiently covered with predicates at locations: <altToLocations.keys:{alt|alt <alt>:<altToLocations.(alt):{loc|line <loc.line>:<loc.column> at <loc.text>}; separator="","> <if(hasPredicateBlockedByAction)><
Semantic predicates were present but were hidden by actions.<endif> >>

DUPLICATE_SET_ENTRY(arg) ::= "duplicate token type <arg> when collapsing subrule into set"

ANALYSIS_ABORTED(enclosingRule) ::= <<
ANTLR could not analyze this decision in rule <enclosingRule>; often this is because of recursive rule references visible from the left edge of alternatives. ANTLR will re-analyze the decision with a fixed lookahead of k=1. Consider using "options {k=1;}" for that decision and possibly adding a syntactic predicate.
>>

RECURSION_OVERFLOW(alt, input, targetRules, callSiteStates) ::= <<
Alternative <alt>: after matching input such as <input> decision cannot predict what comes next due to recursion overflow <targetRules, callSiteStates:{t,c|to <t> from <c:{s|<s.enclosingRule.name>}; separator="",}>; separator=" and ">
>>

LEFT_RECURSION(targetRules, alt, callSiteStates) ::= <<
Alternative <alt> discovers infinite left-recursion <targetRules, callSiteStates:{t,c|to <t> from <c:{s|<s.enclosingRule>}; separator="",}>; separator=" and ">
>>

UNREACHABLE_TOKENS(tokens) ::= <<
The following token definitions can never be matched because prior tokens match the same input: <tokens; separator="",>
>>

TOKEN_NONDETERMINISM(input, conflictingTokens, paths, disabled, hasPredicateBlockedByAction) ::= <<
<if(paths)>
Decision can match input such as "<input>" using multiple alternatives: <paths:{<alt|alt via NFA path <alt.states; separator="",}>}<n>
<else>
Multiple token rules can match input such as "<input>": <conflictingTokens; separator="",><n>
<endif>
<if(disabled)><n>As a result, token(s) <disabled; separator="",> were disabled for that input.<endif><if(hasPredicateBlockedByAction)><
Semantic predicates were present but were hidden by actions.< endif> >>

LEFT_RECURSION_CYCLES(listOfCycles) ::= <<
The following sets of rules are mutually left-recursive <listOfCycles:{e|<e|<e.name>}; separator="",}>;
NONREGULAR_DECISION(ruleName, alts) ::= <<
[fatal] rule <ruleName> has non-LL(*) decision due to recursive rule invocations reachable from alts <alts;
separator="",".">. Resolve by left-factoring or using syntactic predicates or using backtrack=true option.
>>

/* 110n for message levels */
warning() ::= "warning"
error() ::= "error"

Found in path(s):
* /opt/cola/permits/1125728034_1615664205.55/0/antlr-3-2-0-wso2v1-source-targz/antlr_3.2.0.wso2v1/repo/antlr_3/2/0/antlr_3.2.0.wso2v1/antlr-3.2-sources/org/antlr/tool/templates/messages/languages/en.stg
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"
/** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/

group Dbg:

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
@if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames =
{
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator="", " >
};
</@
@if(grammar.grammarIsRoot)>
} ! grammar imports other grammar(s) !>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }
public virtual void IncRuleLevel() { ruleLevel++; }
public virtual void DecRuleLevel() { ruleLevel--; }
@if(profile)>
<ctorForProfilingRootGrammar()>
</@
@if(profile)>
<ctorForRootGrammar()>
</@
<ctorForPredefinedListener()>
@if(grammar.delegators:{g| <g:delegateName()>})>
public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>}>.RuleLevel; } }
public virtual void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.IncRuleLevel(); }
public virtual void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.DecRuleLevel(); }
<ctorForDelegateGrammar()>
} ! imported grammar !>
</@
@if(profile)>
public virtual bool AlreadyParsedRule( IIntStream input, int ruleIndex )
{
((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
return super.AlreadyParsedRule(input, ruleIndex);
}</@
public virtual void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
super.Memoize(input, ruleIndex, ruleStartIndex);
} \n\nprotected virtual bool EvalPredicate( bool result, string predicate )
{
    dbg.SemanticPredicate( result, predicate );
    return result;
}\n
ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>( <inputStreamType> input )
    : this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
{
}

public <name>( <inputStreamType> input, int port, RecognizerSharedState state )
    : base( input, state )
{
    <parserCtorBody()>
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}> );}; separator="\n">\n    <@finally()>
}\n
ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>( <inputStreamType> input )
    : this( input, new Profiler(null), new RecognizerSharedState() )
{
}

public <name>( <inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state )
    : base( input, dbg, state )
{
    Profiler p = (Profiler)dbg;
p.setParser(this);
    <parserCtorBody()>
    <grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{g|,
    <g:delegateName()>}> );}; separator="\n">\n    <@finally()>
}
/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>( <inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
: base( input, dbg, state )
{
    <grammar.directDelegates:}
    {g|<g:delegateName()> = new <g.recognizerName>( input, this, this.state<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n"}
}<
>>
ctorForPredefinedListener() ::= <<
public <name>( <inputStreamType> input, IDebugEventListener dbg )
    <@superClassRef>: base( input, dbg, new RecognizerSharedState() )<@end>
{
    <if(profile)>
   Profiler p = (Profiler)dbg;
p.setParser(this);
   <endif>
    <grammar.directDelegates:}
    {g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n"}
    <@finally()>}
}<
>>
createListenerAndHandshake() ::= <<
    <if(TREE_PARSER)>
    DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );<\n>
    <else>
    DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );<\n>
    <endif>
    DebugListener = proxy;
    try
    {
        proxy.Handshake();
    }
    catch ( IOException ioe )
    {
        ReportError( ioe );
    }
    <>>
@genericParser.superClassName() ::= "Debug<@super.superClassName()>">
@rule.preamble() ::= <<

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try {
  dbg.EnterRule( GrammarFileName, "<ruleName>" );
  if ( RuleLevel == 0 )
    {
    dbg.Commence();
  }
  IncRuleLevel();
  dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );
}>

@rule.postamble() ::= <<
  dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
} finally
  {
  dbg.ExitRule( GrammarFileName, "<ruleName>" );
  DecRuleLevel();
  if ( RuleLevel == 0 )
    {
  dbg.Terminate();
    }
}>

@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

enterSubRule() ::= <<
  try
    {
    dbg.EnterSubRule( <decisionNumber> );
  }>

exitSubRule() ::= <<
  }
} finally
  {
  dbg.ExitSubRule( <decisionNumber> );
<\n>
}>

enterDecision() ::= <<
  try
    {
}>

dbg.EnterDecision( <decisionNumber> );
>
exitDecision() ::= <<
} finally {
dbg.ExitDecision( <decisionNumber> );
}
>
enterAlt(n) ::= "dbg.EnterAlt( <n> );"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>">

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::= "dbg.RecognitionException( eee<decisionNumber> );"
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* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/bootstrap/Bootstrap.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/local/LocalAddress.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/local/package-info.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/oio/package-info.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/AbstractServerChannel.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/nio/NioEventLoop.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/VoidChannelPromise.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java
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* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/local/LocalServerChannel.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/ChannelUtils.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/internal/package-info.java
* /opt/cola/permits/1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
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  jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-
  jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-
  jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-
  jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-
  jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-
  jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-
  jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-
  jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-
  jar/io/netty/channel/group/VoidChannelGroupFuture.java
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  jar/io/netty/channel/SelectStrategyFactory.java
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  jar/io/netty/channel/ChannelOutboundInvoker.java
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* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/PendingWriteQueue.java
* /opt/cola/permits/1266442493_1644246666.76/0/netty-transport-4-1-43-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java

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*/
/** *
**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its ChannelPipeline. *
* <h3>Sub-types</h3>
* <p> *
* [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its subtypes: *
* </ul> *
* [@link ChannelInboundHandler] to handle inbound I/O events, and</p> *
* [@link ChannelOutboundHandler] to handle outbound I/O operations.</li> *
* </ul> *
* </p> *
* <p> *
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* For more information, please refer to the documentation of each subtype.
* </p>
* 
* <h3>The context object</h3>
* 
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* 
* public interface Message {
*   // your methods here
* }
* 
* public class DataServerHandler extends {@link SimpleChannelInboundHandler<Message>} {
*   private boolean loggedIn;
*   
*   @Override
*   public void channelRead0(@link ChannelHandlerContext) ctx, Message message) {
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) message);
*       loggedIn = true;
*     } else (message instanceof GetDataMessage) {
*       if (loggedIn) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*       } else {
*         fail();
*       }
*     }
*   }
*   ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel) }.
* public class DataServerInitializer extends { @link ChannelInitializer } &lt; @link Channel } &gt; { 
* { @code @Override }
* public void initChannel( { @link Channel } channel ) { 
* channel.pipeline().addLast("handler", new DataServerHandler()); 
* }
* }
* </pre>
* 
* <h4>Using { @link AttributeKey }s</h4>
* 
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey }s which is provided by
* { @link ChannelHandlerContext }:
* <pre>
* public interface Message { 
* // your methods here 
* }
* }
* { @code @Sharable }
* public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt; Message &gt; { 
* private final { @link AttributeKey } &lt; @link Boolean } &gt; auth = 
* { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth") };
* }
* { @code @Override }
* public void channelRead( { @link ChannelHandlerContext } ctx, Message message ) { 
* { @link Attribute } &lt; @link Boolean } &gt; attr = ctx.attr(auth); 
* if ( message instanceof LoginMessage ) { 
* authenticate((LoginMessage) o); 
* &lt;b&gt;attr.set(true)&lt;/b&gt;; 
* } else ( message instanceof GetDataMessage ) { 
* if ( &lt;b&gt;Boolean.TRUE.equals(attr().)&lt;/b&gt; ) { 
* ctx.writeAndFlush(fetchSecret((GetDataMessage) o)); 
* } else { 
* fail(); 
* } 
* } 
* }
* ...
* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the same handler instance to different pipelines:
* 
* public class DataServerInitializer extends [@link ChannelInitializer]&lt;[@link Channel]&gt; { 
* 
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler(); 
* 
*     {[@code @Override]}  
*     public void initChannel([@link Channel] channel) { 
*         channel.pipeline().addLast(“handler”.,<b>SHARED</b>); 
*     } 
* }  
* </pre>
*
* <h4>The [@code @Sharable] annotation</h4>
* 
* In the example above which used an [@link AttributeKey],
* you might have noticed the [@code @Sharable] annotation.
* 
* If a [@link ChannelHandler] is annotated with the [@code @Sharable] annotation, it means you can create an instance of the handler just once and add it to one or more [@link ChannelPipeline]s multiple times without a race condition.
* 
* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.
* 
* This annotation is provided for documentation purpose, just like <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>. 
* 
* Additional resources worth reading
* 
* Please refer to the [@link ChannelHandler], and 
* [@link ChannelPipeline] to find out more about inbound and outbound operations, 
* what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
* /

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1.3187 jline 0.9.94

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* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleReader.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/MultiCompletor.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/SimpleCompletor.java
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* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/CandidateCycleCompletionHandler.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ArgumentCompletor.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ClassNameCompletor.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/CursorBuffer.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/WindowsTerminal.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/UnsupportedTerminal.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/CandidateListCompletionHandler.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/History.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/UnixTerminal.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleReaderInputStream.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/CompletionHandler.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleRunner.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/NullCompletor.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/FileNameCompletor.java
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1.3193 jackson-jaxrs-base 2.9.6

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1.3196 libwbclient 4.10.12-r0

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1.80.69

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1.3201 yaml 2.3.0

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---
abstract: 'Perl pragma to declare constants'
author:
- 'Sébastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.2808
dynamic_config: 1
generated_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: constant
provides:
  constant:
    file: lib/constant.pm
    version: 1.27
resources:
  license: http://dev.perl.org/licenses/
  version: 1.27

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548089_1591379339.64/0/perl-constant-1.33-396.el8.src.rpm-cosi-expand-archive-m15loNwe/constant-1.27.tar.gz-cosi-expand-archive-jvagHUVh/constant-1.27/META.yml
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=head1 NAME

constant - Perl pragma to declare constants

=head1 SYNOPSIS

use constant PI     => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "\n" if DEBUG;

use constant {
    SEC => 0,
    MIN => 1,
    HOUR => 2,
    MDAY => 3,
    MON  => 4,
    YEAR => 5,
    WDAY => 6,
    YDAY => 7,
    ISDST => 8,
};

use constant WEEKDAYS => qw(
    Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);

print "Today is ", (WEEKDAYS)[ (localtime)[WDAY] ], "\n";

=head1 DESCRIPTION

This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown above, each machine your script runs upon can have as many digits of accuracy as it can use. Also, your program will be easier to read, more likely to be maintained (and maintained correctly), and far less likely to send a space probe to the wrong planet because nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an C<if (CONSTANT)> block will be optimized away if the constant is false.

=head1 NOTES
As with all `use` directives, defining a constant happens at compile time. Thus, it's probably not correct to put a constant declaration inside of a conditional statement (like C<if ($foo) { use constant ... }>).

Constants defined using this module cannot be interpolated into strings like variables. However, concatenation works just fine:

```perl
print "Pi equals PI...
";        # WRONG: does not expand "PI" 
print "Pi equals ".PI."...\n";    # right
```

Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

```perl
use constant ARRAY => [ 1,2,3,4 ];
print ARRAY->[1];
ARRAY->[1] = " be changed";
print ARRAY->[1];
```

Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a constant defined in another package, specify the full package name, as in C<Some::Package::CONSTANT>. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as C<< Some::Package->CONSTANT >> or as C<< $obj->CONSTANT >> where C<$obj> is an instance of C<Some::Package>. Subclasses may define their own constants to override those in their base class.

The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or underscore. Names beginning with a double underscore are reserved. Some poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to C<undef> in scalar context. Note that constants with more than one value do I<not> return their last value in scalar context as one might expect. They currently return the number of values, but B<this may change in the future>. Do not use constants with multiple values in scalar context.
This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:

```perl
use constant TIMESTAMP => localtime; # WRONG!
use constant TIMESTAMP => scalar localtime; # right
```

The first line above defines \texttt{TIMESTAMP} as a 9-element list, as returned by \texttt{localtime()} in list context. To set it to the string returned by \texttt{localtime()} in scalar context, an explicit \texttt{scalar} keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

```perl
my @workdays = WEEKDAYS[1 .. 5]; # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5]; # right
```

=head2 Defining multiple constants at once

Instead of writing multiple \texttt{use constant} statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

```perl
use constant {
  FOO => "A single value",
  BAR => "This", "won't", "work!", # Error!
};
```

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until \texttt{use} statement is finished.

```perl
use constant {
  BITMASK => 0xAFBAEBA8,
  NEGMASK => ~BITMASK, # Error!
};
```

=head2 Magic constants
Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren't totally portable, alas.)

    use constant E2BIG => ($! = 7);
    print E2BIG, "\n";  # something like "Arg list too long"
    print 0+E2BIG, "\n";  # "7"

You can't produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted directly in place of some subroutine calls, thereby saving the overhead of a subroutine call. See L<perlsub/Constant Functions> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is used.

    sub declared ($) {
        use constant 1.01;       # don't omit this!
        my $name = shift;
        $name =~ s/^::/main::/;
        my $pkg = caller;
        my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
        $constant::declared{$full_name};
    }

=head1 CAVEATS

In the current version of Perl, list constants are not inlined and some symbols may be redefined without generating a warning.

It is not possible to have a subroutine or a keyword with the same name as a constant in the same package. This is probably a Good Thing.

A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT ENV INC SIG> is not allowed anywhere but in package C<main::>, for technical reasons.
Unlike constants in some languages, these cannot be overridden on the command line or via environment variables.

You can get into trouble if you use constants in a context which automatically quotes barewords (as is true for any subroutine call). For example, you can't say \texttt{C<$hash\{CONSTANT]\}>} because \texttt{C<CONSTANT>} will be interpreted as a string. Use \texttt{C<$hash\{CONSTANT()\}>} or \texttt{C<$hash\{+CONSTANT\}>} to prevent the bareword quoting mechanism from kicking in. Similarly, since the \texttt{C<< => >>} operator quotes a bareword immediately to its left, you have to say \texttt{C<< CONSTANT() => 'value' >>} (or simply use a comma in place of the big arrow) instead of \texttt{C<< CONSTANT => 'value' >>}.

=head1 SEE ALSO

L\texttt{<Readonly>} - Facility for creating read-only scalars, arrays, hashes.

L\texttt{<Attribute::Constant>} - Make read-only variables via attribute

L\texttt{<Scalar::Readonly>} - Perl extension to the \texttt{C<SvREADONLY>} scalar flag

L\texttt{<Hash::Util>} - A selection of general-utility hash subroutines (mostly to lock/unlock keys and values)

=head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, \texttt{E<lt>F<rootbeer@redcat.com>E<gt>}, with help from many other folks.

Multiple constant declarations at once added by Casey West, \texttt{E<lt>F<casey@geeknest.com>E<gt>}

Documentation mostly rewritten by Ilmari Karonen, \texttt{E<lt>F<perl@itz.pp.sci.fi>E<gt>}

This program is maintained by the Perl 5 Porters.
The CPAN distribution is maintained by \texttt{SE<eacute>bastien Aperghis-Tramoni E<lt>F<sebastien@aperghis.net>E<gt>}

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NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an "if (CONSTANT)" block will be optimized away if the constant is false.

INSTALLATION

To install this module, run the following commands:

    perl Makefile.PL
    make
    make test
    make install

Alternatively, to install with Module::Build, you can use the following commands:

    perl Build.PL
    ./Build
    ./Build test
    ./Build install

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

    perldoc constant
You can also look for information at:

Search CPAN
http://search.cpan.org/dist/constant

CPAN Request Tracker:
http://rt.cpan.org/Dist/Display.html?Name=constant

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/constant

CPAN Ratings:
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/* Jackson JSON-processor.
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com.fasterxml.jackson.core.JsonFactory
```

Found in path(s):

## 1.3211 googlecloudgobigtable 1.2.0

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```

```
package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
```
func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.
        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
    })
}
if err != nil {
    t.Fatal(err)
}


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* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
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* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/logging/LogHandler.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
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* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
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* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
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* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java

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  jar/io/netty/handler/address/package-info.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-
  jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-
  jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-
  jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1266444603_1644246689.13/0/netty-handler-4-1-43-final-sources-
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1.3217 kubernetes-kube-scheduler v0.21.0

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1.3218 hosted-git-info 2.8.8

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `\[ case (a, b) => ... ]
val x: ((Int, Int) => Int) = (((a, b)) => a)
^ 
not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `\[ case (param1, param2) => ... ]
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
^ 
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function: `\[ case (param1, ..., param3) => ... ]
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^ 
3 errors
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1.3224 e2fsprogs 1.45.5-r0
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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore T'so
23-June-2007

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with the Library, with the complete machine-readable "work that
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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That's all there is to it!

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$((BSDLIB_PIC_FLAG)
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) $(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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Version 2.1, February 1999

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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

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1.3241 python3-7-minimal 3.7.3-2+deb10u2

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3243 libmodbus 3.1.6

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.. _contrib:

==============

click-contrib
==============

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As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

```
.. _click-contrib: https://github.com/click-contrib/

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    * /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7.0-0-ga936b99-1-tar-gz/pallets-click-a936b99/docs/contrib.rst

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```
.. include:: ../LICENSE.rst

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import io
import re
from setuptools import setup
with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = '(.*?)'", f.read()).group(1)

setup(
    name="Click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets Team",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=["click"],
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*",
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.4",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
    ],
)

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* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7.0.0-ga936b99-1.tar.gz/pallets-click-a936b99/setup.py
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# binary only, patch it back to the system, and then use a wrapper
Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

------------

Install and update using `pip`:

.. code-block:: text

   $ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.


A Simple Example

-------------
What does it look like? Here is an example of a simple Click program:

```python
import click

@click.command()
@click.option('--count', default=1, help='Number of greetings.')
@click.option('--name', prompt='Your name',
              help='The person to greet.')
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times.""
    for _ in range(count):
        click.echo('Hello, %s!' % name)

if __name__ == '__main__':
    hello()
```

And what it looks like when run:

```
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

Donate
------

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`.

Links
-----

* Website: https://palletsprojects.com/p/click/
* Documentation: https://click.palletsprojects.com/
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* Issue tracker: https://github.com/pallets/click/issues
* Test status:

  * Linux, Mac: https://travis-ci.org/pallets/click
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* Test coverage: https://codecov.io/gh/pallets/click

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* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7.0-0-ga936b99-1-tar-gz/pallets-click-
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1.3263 opencollective-postinstall 2.0.3

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1.3266 wso2-carbon-securevault 4.4.35

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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text format.
Brian Atkinson <nairb774@gmail.com>
* Added `@Override` annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>

* Tru64 support.

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* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

* MS Visual Studio error format option.

* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>

* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).

* Added generation of field number constants.

Wink Saville <wink@gmail.com>

* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

* Detect whether zlib is new enough in configure script.

* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

* Optimize Java serialization code when writing a small message to a stream.

* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

* Clean up some Java warnings.

* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

* Fixed detection of sched_yield on Solaris.

* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

* Fixed minor IBM xIC compiler build issues

* Added atomicops for AIX (POWER)
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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<signature of Ty Coon>, 1 April 1990
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1.3295 mime-support 3.62
1.3295.1 Available under license:

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1.3296 string-width 3.1.0

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1.3297 kubernetes-component-base v0.21.0

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Bnd-LastModified: 1595301005506
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jseward@bzip.org
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  "github.com/gophercloud/gophercloud"  
  "github.com/gophercloud/gophercloud/pagination"  
)

// RESOURCE represents...  
type Resource struct {  
}

type commonResult struct {  
gophercloud.Result  
}

// GetResult is the response from a Get operation. Call its Extract method  
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"`
        } `json:"links"`
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}
// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"`
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"`
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================
This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful
that everyone is new to this in the beginning. Please reach out for help or ask
for clarification if needed. No question is ever "dumb" or not worth our time
answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the
[CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably
the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will
help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples
of similar implementations. It would be a _very_ rare occurrence for you
to be implementing something that hasn't already been done.
Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.
## Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

### What to Include in a Pull Request

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

### Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code
There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
```
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

**Step 6: Code Review**

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.
You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

------------------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

Submitting Changes
---------------------

If a code review requires changes to be submitted, please do not squash your
commits. Please only add new commits to the Pull Request. This is to help the
code reviewer see only the changes that were made.

It's Never Personal
---------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot
items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the
code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your
Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
{
}
`
// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
}
`

// UpdateResult provides an update result.
const UpdateResult = `{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE
import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to  
// the List request  
type ListOptsBuilder interface {  
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.  
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.  
func (opts ListOpts) ToResourceListQuery() (string, error) {  
    q, err := gophercloud.BuildQueryString(opts)  
    return q.String(), err
}

// List retrieves a list of RESOURCES.  
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {  
    url := listURL(client)  
    if opts != nil {  
        query, err := opts.ToResourceListQuery()  
        if err != nil {  
            return pagination.Pager{Err: err}
        }
    }
    url += query
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.  
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {  
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)  
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to  
// the Create request.  
type CreateOptsBuilder interface {  
    ToResourceCreateMap() (map[string]interface{}, error)
}
// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Put(updateURL(client, id), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}
return
}
_, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
OkCodes: []int{200},
})
return
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}
package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 4: Acceptance Testing

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull
/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
Step 7: Congratulations!
================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 2: Create an Issue
================================

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug
--------------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request
--------------
If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in
'networking/v2/extensions'.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---
With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

====================

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go

````
   
   ```

type Network struct {
   ID       string `json:"id"
   Name     string `json:"name"
   AdminStateUp bool `json:"admin_state_up"
   Status   string `json:"status"
   Subnets  []string `json:"subnets"
   TenantID string `json:"tenant_id"
   Shared   bool `json:"shared"
   } 
````

```

```

````

```

type Network struct {
   ID       string `json:"id"
   Name     string `json:"name"
   AdminStateUp bool `json:"admin_state_up"
   Status   string `json:"status"
   Subnets  []string `json:"subnets"
   TenantID string `json:"tenant_id"
   Shared   bool `json:"shared"
   
   AvailabilityZoneHints []string `json:"availability_zone_hints"
   
   } 
````

```

```

```

```

```

```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.
In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

--------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located
in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

=================================

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.3306 @babel/plugin-transform-parameters

7.18.6

1.3306.1 Available under license:

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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBUTIONS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
eplode.c) was originally written by Mark Adler who submitted it
as public domain code.

---------------------------------------------------------------
1.3312 wso2-carbon-directory-server-manager-ui 5.12.153

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1.3313 wso2-carbon-identity-authz-service

1.1.20

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4.4.35

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1.3327 wso2-carbon-identity-authenticator-thrift 5.12.153

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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// limitations under the License.

package spec
License information for the exposed API.

For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

1.3329 systemd 239-45.el8_4.1

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root function must still compute square roots.)
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1.3342 babel-plugin-proposal-dynamic-import

7.18.6

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## Licensing

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property.

Zope Corporation was a sponsoring member of the PSF.

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* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java

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  jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
  jar/io/netty/channel/ExtendedClosedChannelException.java
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* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
  jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
  jar/io/netty/channel/embedded/EmbeddedChannelId.java
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  jar/io/netty/channel/AbstractEventLoop.java
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its { @link ChannelPipeline}.
*/
Sub-types

{@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:

- [@link ChannelInboundHandler] to handle inbound I/O events, and
- [@link ChannelOutboundHandler] to handle outbound I/O operations.

Alternatively, the following adapter classes are provided for your convenience:

- [@link ChannelInboundHandlerAdapter] to handle inbound I/O events,
- [@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations,
- [@link ChannelDuplexHandler] to handle both inbound and outbound events

For more information, please refer to the documentation of each subtype.

The context object

A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext] object. A [@link ChannelHandler] is supposed to interact with the [@link ChannelPipeline] it belongs to via a context object. Using the context object, the [@link ChannelHandler] can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using [@link AttributeKey]) which is specific to the handler.

State management

A [@link ChannelHandler] often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}
```

```java
public class DataServerHandler extends [@link SimpleChannelInboundHandler]<Message> {
    private boolean loggedIn;

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
        }
    }
}
```
* `loggedIn = true;`  
* } else (message instanceof GetDataMessage) {  
*     if (`loggedIn`) {  
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) message));  
*     } else {  
*         fail();  
*     }  
* }  
* }  
* }  
* }  
* }  
* </pre>  
* Because the handler instance has a state variable which is dedicated to  
* one connection, you have to create a new handler instance for each new  
* channel to avoid a race condition where a unauthenticated client can get  
* the confidential information:  
* <pre>  
* // Create a new handler instance per channel.  
* // See {@link ChannelInitializer#initChannel(Channel)}.  
* public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {  
*     @Override  
*     public void initChannel({@link Channel} channel) {  
*         channel.pipeline().addLast("handler", <b>new DataServerHandler</b>());  
*     }  
* }  
* </pre>  
*  
* <h4>Using {@link AttributeKey}s</h4>  
*  
* Although it's recommended to use member variables to store the state of a  
* handler, for some reason you might not want to create many handler instances.  
* In such a case, you can use {@link AttributeKey}s which is provided by  
* {@link ChannelHandlerContext}:  
* <pre>  
* public interface Message {  
*     // your methods here  
* }  
* </pre>  
*  
* [{@code @Sharable}]  
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {  
*     private final {@link AttributeKey}<{@link Boolean}> auth =  
*         {@link AttributeKey:#valueOf(String) AttributeKey.valueOf("auth")};  
* }  
* </pre>  
*  
* [{@code @Override}]  
* public void channelRead({@link ChannelHandlerContext} ctx, Message message) {  
*     [{@link Attribute}]&lt;{@link Boolean}&gt; attr = ctx.attr(auth);  
*     if (message instanceof LoginMessage) {


authenticate((LoginMessage) o);
<b>attr.set(true)</b>;
} else (message instanceof GetDataMessage) {
  if (<b>Boolean.TRUE.equals(attr.get())</b>) {
    ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
  } else {
    fail();
  }
} ...
</pre>

Now that the state of the handler is attached to the `<link(ChannelHandlerContext)`), you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends `<link(ChannelInitializer)`{`<link(Channel)`} {
  private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();

  @Override
  public void initChannel(`<link(Channel)` channel) {
    channel.pipeline().addLast("handler", <b>SHARED</b>);
  }
}
```

<h4>The `<code>@Sharable</code>` annotation</h4>

In the example above which used an `<link(AttributeKey)`, you might have noticed the `<code>@Sharable</code>` annotation.

If a `<link(ChannelHandler)` is annotated with the `<code>@Sharable</code>` annotation, it means you can create an instance of the handler just once and add it to one or more `<link(ChannelPipeline)`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `<link(ChannelHandler)`,
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

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* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ChannelException.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/nio/package-info.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/oio/OioServerSocketChannel.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/EventLoop.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/nio/NioTask.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
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1.3363 fonts-dejavu 2.37-1

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1.3364 google-api-go-client 0.20.0

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.|\s)* (All rights reserved.\s)*
(//|#) Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.
```

const prefix = `"// Copyright"`
// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true,  // This file requires another comment above the license.
  "internal/third_party/uritemplates/uritemplates.go": true,  // This file is licensed to an individual.
  "internal/third_party/uritemplates/uritemplates_test.go": true,  // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
      return nil
    }
    if err != nil {
      return err
    }
    if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
      return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
      return nil
    }
    // Verify that the license is matched.
    if !sentinel.Match(src) {
      t.Errorf("%v: license header not present", path)
      return nil
    }
    // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
    if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
      t.Errorf("%v: license header not at the top", path)
    }
    return nil
  })
  if err != nil {
    t.Fatal(err)
  }
}

1.3365 libxdamage 1.1.4-2+b3
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1.3366 cross-spawn 4.0.2

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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1.3378 libedit 3.1-20160903-3

1.3378.1 Available under license:

This package was debianized by Gergely Nagy <algernon@debian.org>.

It was checked out from NetBSD CVS on 2008-06-14.
(CVS_RSH=ssh CVSROOT=anoncvs@anoncvs.NetBSD.org:/cvsroot cvs checkout -P $path)

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1.3379 quartz 2.1.1.wso2v1

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* /opt/cola/permits/1001160097_1613180595.19/0/quartz-2-1-1-wso2v1-source-tar-
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sources/org/quartz/ListenerManager.java
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gz/quartz_2.1.1.wso2v1/repo/quartz_2/1/1/quartz_2.1.1.wso2v1/quartz-2.1.1-sources/org/quartz/plugins/SchedulerPluginWithUserTransactionSupport.java
* /opt/cola/permits/1001160097_1613180595.19/0/quartz-2-1-1-wso2v1-source-targ-
gz/quartz_2.1.1.wso2v1/repo/quartz_2/1/1/quartz_2.1.1.wso2v1/quartz-2.1.1-sources/org/quartz/listeners/TriggerListenerSupport.java

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sources/org/quartz/impl/jdbcjobstore/AttributeRestoringConnectionInvocationHandler.java
* /opt/cola/permits/1001160097_1613180595.19/0/quartz-2-1-1-wso2v1-source-targ-
gz/quartz_2.1.1.wso2v1/repo/quartz_2/1/1/quartz_2.1.1.wso2v1/quartz-2.1.1-sources/org/quartz/plugins/SchedulerPluginWithUserTransactionSupport.java
* /opt/cola/permits/1001160097_1613180595.19/0/quartz-2-1-1-wso2v1-source-targ-
gz/quartz_2.1.1.wso2v1/repo/quartz_2/1/1/quartz_2.1.1.wso2v1/quartz-2.1.1-sources/org/quartz/listeners/TriggerListenerSupport.java
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gz/quartz_2.1.1.wso2v1/repo/quartz_2/1/1/quartz_2.1.1.wso2v1/quartz-2.1.1-
sources/org/quartz/utils/counter/CounterManagerImpl.java
* /opt/cola/permits/1001160097_1613180595.19/0/quartz-2-1-1-wso2v1-source-targ-
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sources/org/quartz/utils/counter/CounterConfig.java
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sources/org/quartz/utils/counter/CounterImpl.java
* /opt/cola/permits/1001160097_1613180595.19/0/quartz-2-1-1-wso2v1-source-targ-
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sources/org/quartz/utils/counter/Counter.java
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sources/org/quartz/utils/counter/sampled/SampledRateCounterConfig.java

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sources/org/quartz/plugins/xml/XMLSchedulingDataProcessorPlugin.java
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sources/org/quartz/xml/XMLSchedulingDataProcessor.java

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* /opt/cola/permits/1001160097_1613180595.19/0/quartz-2.1.1.wso2v1-source-targz/quartz_2.1.1.wso2v1/repo/quartz_2/1/1/quartz_2.1.1.wso2v1/quartz-2.1.1-sources/org/quartz/ee/servlet/QuartInitializerServlet.java

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1.3380 urlesc 0.0.0-20170810143723-de5bf2ad4578

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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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1.3384 clj-time 0.8.0
1.3384.1 Available under license:

No license file was found, but licenses were detected in source scan.

A date and time library for Clojure, wrapping the [Joda Time](http://joda-time.sourceforge.net/) library.

## Artifacts

`clj-time` artifacts are [released to Clojars](https://clojars.org/clj-time/clj-time).

If you are using Maven, add the following repository definition to your `pom.xml`:

``` xml
<repository>
  <id>clojars.org</id>
  <url>http://clojars.org/repo</url>
</repository>
```

### The Most Recent Release

With Leiningen:

``` clj
[clj-time "0.7.0"]
```

With Maven:

``` xml
<dependency>
  <groupId>clj-time</groupId>
  <artifactId>clj-time</artifactId>
  <version>0.7.0</version>
</dependency>
```

## Bugs and Enhancements

Please open issues against the [official clj-time repo on Github](https://github.com/clj-time/clj-time/issues).

**Note: version 0.6.0 introduces a number of API changes to improve consistency.**

The API now uses `second`, `seconds` and `millis` where it previously had `sec`, `secs` and `msecs`. The older API is still present but marked as deprecated (and calling deprecated functions will print a message to the console as well returning the result). The older API will be removed in version 0.7.0 so be prepared to update your code.

## Usage
### clj-time.core

The main namespace for date-time operations in the `clj-time` library is `clj-time.core`.

``` clj
=> (require '[clj-time.core :as t])
```

Create a DateTime instance with date-time, specifying the year, month, day, hour, minute, second, and millisecond:

``` clj
(t/date-time 1986 10 14 4 3 27 456)
=> #<DateTime 1986-10-14T04:03:27.456Z>
```

Less-significant fields can be omitted:

``` clj
(t/date-time 1986 10 14)
=> #<DateTime 1986-10-14T00:00:00.000Z>
```

Get the current time with `now` and the start of the Unix epoch with `epoch`.

Once you have a date-time, use accessors like `hour` and `second` to access the corresponding fields:

``` clj
(t/hour (date-time 1986 10 14 22))
=> 22
```

The date-time constructor always returns times in the UTC time zone. If you want a time with the specified fields in a different time zone, use `from-time-zone`:

``` clj
(t/from-time-zone (t/date-time 1986 10 22) (t/time-zone-for-offset -2))
=> #<DateTime 1986-10-22T00:00:00.000-02:00>
```

If on the other hand you want a given absolute instant in time in a different time zone, use `to-time-zone`:
In addition to `time-zone-for-offset`, you can use the `time-zone-for-id` and `default-time-zone` functions and the `utc` Var to construct or get `DateTimeZone` instances.

If you only want a date with no time component, consider using the `local-date` and `today` functions. These return `LocalDate` instances that do not have time components (and thus don't suffer from timezone-related shifting).

The functions `after?` and `before?` determine the relative position of two `DateTime` instances:

Often you will want to find a date some amount of time from a given date. For example, to find the time 1 month and 3 weeks from a given date-time:

An `Interval` is used to represent the span of time between two `DateTime` instances. Construct one using `interval`, then query them using `within?`, `overlaps?`, and `abuts?`
The `in-seconds` and `in-minutes` functions can be used to describe intervals in the corresponding temporal units:

```clj
(t/in-minutes (t/interval (t/date-time 1986 10 2) (t/date-time 1986 10 14)))
=> 17280
```

`today-at` returns a moment in time at the given hour, minute and second on the current date:

```clojure
(t/today-at 12 00)
=> #<DateTime 2013-03-29T12:00:00.000Z>
(t/today-at 12 00 05)
=> #<DateTime 2013-03-29T12:00:05.000Z>
```

### clj-time.format

If you need to parse or print date-times, use `clj-time.format`:

```clj
(require '[clj-time.format :as f])
```

Parsing and printing are controlled by formatters. You can either use one of the built in ISO8601 formatters or define your own, e.g.:

```clj
(def built-in-formatter (f/formatters :basic-date-time))
(def custom-formatter (f/formatter "yyyyMMdd"))
```

To see a list of available built-in formatters and an example of a date-time printed in their format:

```clj
(f/show-formatters)
```

Remember that `mm` is minutes, `MM` is months, `ss` is seconds and `SS` is milliseconds.
Once you have a formatter, parsing and printing are straightforward:

```
 Bà clj
(f/parse custom-formatter "20100311")
=> #<DateTime 2010-03-11T00:00:00.000Z>

(f/unparse custom-formatter (t/date-time 2010 10 3))
=> "20101003"
```

To parse dates in multiple formats and format dates in just one
format, you can do this:

```
Bà clj
(def multi-parser (f/formatter (t/default-time-zone) "YYYY-MM-dd" "YYYY/MM/dd"))

(f/unparse multi-parser (f/parse multi-parser "2012-02-01"))
=> "2012-02-01"

(f/unparse multi-parser (f/parse multi-parser "2012/02/01"))
=> "2012-02-01"
```

### clj-time.coerce

The namespace `clj-time.coerce` contains utility functions for
coercing Joda `DateTime` instances to and from various other types:

```
Bà clj
(require '[clj-time.coerce :as c])
```

For example, to convert a Joda `DateTime` to and from a Java `long`:

```
Bà clj
(c/to-long (t/date-time 1998 4 25))
=> 893462400000

(c/from-long 893462400000)
=> #<DateTime 1998-04-25T00:00:00.000Z>
```

And by the magic of protocols you can pass in an isoformat string and
get the unix epoch milliseconds:

```
Bà clj
```
There are also conversions to and from `java.util.Date` (`to-date` and `from-date`), `java.sql.Date` (`to-sql-date` and `from-sql-date`), `java.sql.Timestamp` (`to-sql-time` and `from-sql-time`) and several other types.

### clj-time.local

The namespace `clj-time.local` contains functions for working with local time without having to shift to/from utc, the preferred time zone of clj-time.core.

``` clj
(require '[clj-time.local :as l])
```

Get the current local time with

``` clj
(l/local-now)
```

Get a local date-time instance retaining the time fields with

``` clj
(l/to-local-date-time obj)
```

The following all return 1986-10-14 04:03:27.246 with the local time zone.

``` clj
(l/to-local-date-time (clj-time.core/date-time 1986 10 14 4 3 27 246))
(l/to-local-date-time "1986-10-14T04:03:27.246")
(l/to-local-date-time "1986-10-14T04:03:27.246Z")
```

The dynamic var `*local-formatters*` contains a map of local formatters for parsing and printing. It is initialized with all the formatters in clj-time.format localized.

to-local-date-time for strings uses `*local-formatters*` to parse.

Format an obj using a formatter in `*local-formatters*` corresponding to the format-key passed in with
```clj
(l/format-local-time (l/local-now) :basic-date-time)
```

### clj-time.periodic

`clj-time.periodic/periodic-seq` returns an infinite sequence of instants separated by a time period starting with the given point in time:

```clojure
(require '[clj-time.periodic :as p])
(require '[clj-time.core :as t])

;; returns 10 instants starting with current time separated
;; by 12 hours
(take 10 (p/periodic-seq (t/now) (t/hours 12)))
```

### clj-time.predicates

`clj-time.predicates` comes with a set of handy predicates to check for common conditions. For instance:

```clojure
(require '[clj-time.core :as t])
(require '[clj-time.predicates :as pr])

(pr/monday? (t/date-time 1999 9 9))
=> false

(pr/january? (t/date-time 2011 1 1))
=> true

(pr/weekend? (t/date-time 2014 1 26))
=> true

(pr/weekday? (t/date-time 2014 1 26))
=> false

(pr/last-day-of-month? (t/date-time 2014 1 26))
=> false

(pr/first-day-of-month? (t/date-time 2014 1 26))
=> false
```
## Development

Running the tests:

```
$ lein test-all
```

(assumes Leiningen 2.x)

## Documentation

The complete [API documentation](http://clj-time.github.com/clj-time/doc/index.html) is also available (codox generated).

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Found in path(s):

* /opt/cola/permits/1362377174_1657710576.9020321/0/clj-time-0-8-0-jar-zip/clj-time-0-8-0-jar/META-INF/leiningen/clj-time/clj-time/README.md

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* /opt/cola/permits/1362377174_1657710576.9020321/0/clj-time-0-8-0-jar-zip/clj-time-0-8-0-jar/META-INF/maven/clj-time/clj-time/pom.xml

No license file was found, but licenses were detected in source scan.

```
(defproject clj-time/clj-time "0.8.0"
 :description "A date and time library for Clojure, wrapping Joda Time."
 :url "https://github.com/clj-time/clj-time"
 :mailing-list [:name "clj-time mailing list"
 :archive "https://groups.google.com/forum/?fromgroups#!forum/clj-time"
 :post "clj-time@googlegroups.com"]
 :license {:name "MIT License"
 :url "http://www.opensource.org/licenses/mit-license.php"
 :distribution :repo}
 :dependencies [[joda-time "2.3"] [org.clojure/clojure "1.6.0"]]
 :min-lein-version "2.0.0"
 :profiles [{:dev {:plugins [[codox "0.6.1"]
                            [lein-midje "3.0.0"]
                            [midje-readme "1.0.2"]]
                      :dependencies [[midje "1.5.0"]]
                      :midje-readme {:require "[clj-time.core :as t] [clj-time.predicates :as pr]"}}
             :1.2 {:dependencies [[org.clojure/clojure "1.2.1"]]
             :1.3 {:dependencies [[org.clojure/clojure "1.3.0"]]}]}]
1.3385 bronze1man-gostrongswanvici 0.0.0-20171013065002-4d72634a2f11

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1.3386 posix-character-classes 0.1.1

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1.3387 afero 1.0.5

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1.3388 jackson-mapper-asl 1.9.13
1.3388.1 Available under license:
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/* Jackson JSON-processor.
 *
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* /opt/ws_local/PERMITS_SQL/1078286973_1597285663.32/0/jackson-mapper-asl-1-9-13-sources-2-
jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.3389 javax-websocket-server-impl
9.4.20.v20190813
1.3389.1 Available under license:
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.3396 jackson 2.9.6

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.3421 error-ex 1.3.2

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1.3423 go-pubsub 1.3.1

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}  
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}
return nil
})
if err != nil {
    t.Fatal(err)
}
}

1.3424 libxslt 1.1.35-r0
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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.3441 sqlite 3.32.1-r0

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1.3442 kerberos 1.17-3

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lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
and the initial implementation of incremental propagation, including the following new or changed files:

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    kprop/kpropd_rpc.c
    kprop/kproplog.c

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1.3446 jackson 2.12.3
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# Jackson JSON processor

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

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1.3458 adduser 3.115

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschluss.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

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1.3459 sonar-maven-plugin 3.2

1.3460 maven-shade-plugin 3.2.3
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1.3461 synchronous-promise 2.0.15

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1.3462 llvm 7.0.1-8+deb10u2

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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**OW2**

The following artifacts are licensed by the OW2 Foundation according to the terms of [http://asm.ow2.org/license.html](http://asm.ow2.org/license.html)

org.ow2.asm:asm-commons
org.ow2.asm:asm

-----

**Apache**

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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**MortBay**

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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[https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html](https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html)
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4.6.3

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1.3472 @babel/code-frame 7.18.6

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1.3473 Mitchellh-mapstructure 1.4.3

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1.3476 tzdata 2021a 1.el8

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1.3477 prelude-ls 1.1.2

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Version 3, 29 June 2007

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DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.3502 plexus-cipher 1.4

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>\`
- Remote file format is `\<pod-name>:\<path>\`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path>\`
- Remote file format is `\<pod-name>:\<path>\`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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1.3514 jetty 9.4.31.v20200723

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.3515 javax-ws-rs-api 2.1.1
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- Strongtalk assembler, the basis of the files assembler-arm-inl.h, assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h, assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h, assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h, assembler-mips.cc, assembler-mips.h, assembler.cc and assembler.h. This code is copyrighted by Sun Microsystems Inc. and released under a 3-clause BSD license.

- Valgrind client API header, located at src/third_party/valgrind/valgrind.h. This is released under the BSD license.

- The Wasm C/C++ API headers, located at third_party/wasm-api/wasm.{h,hh} This is released under the Apache license. The API's upstream prototype implementation also formed the basis of V8's implementation in src/wasm/c-api.cc.

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Tests included here are based on build output generated by the six-speed benchmark suite.
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3537 call-limit 1.1.1

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{% panel style="info", title="TL;DR" %}
- Copy files to and from Containers in a cluster
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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster
Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\`<path>`\`
- Remote file format is `\`<pod-name>:\<path>`\`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\`<path>`\`
- Remote file format is `\`<pod-name>:\<path>`\`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
## Namespaces

Set the Pod namespace by prefixing the Pod name with `/<namespace>/`.

- `/<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

1.3539 lodash.once 4.1.1

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# Contributions to the urllib3 project

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
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* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
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* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
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* Marc Schlaich <marc.schlaich@gmail.com>
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* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields
* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes
* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter
* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.
* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urlib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemende <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.3559 wso2-carbon-tenant-redirector-servlet

4.6.15

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### 1.3574 jackson-jaxrs 2.9.6

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### 1.3575 color 1.9.0

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1.3576 get-stream 3.0.0

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1.3577 armon-go-metrics 0.0.0-
20180917152333-f0300d1749da

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1.3578 asm 8.0
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* /opt/cola/permits/113738355_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/113738355_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/113738355_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/Constants.java
* /opt/cola/permits/113738355_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/113738355_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/MethodTooLargeException.java
* /opt/cola/permits/113738355_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/SymbolTable.java
* /opt/cola/permits/113738355_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/MethodVisitor.java
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* /opt/cola/permits/113738355_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/113738355_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/RecordComponentVisitor.java
* /opt/cola/permits/113738355_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/CurrentFrame.java
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* /opt/cola/permits/1137338358_1_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/package.html
* /opt/cola/permits/1137338358_1_1614061942.66/0/asm-8-0-sources-1-jar/org/objectweb/asm/signature/package.html

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/SAXBuilderEngine.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderJDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderSAX2Factory.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/StringBin.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/AbstractReaderXSDFactory.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderSchemaFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaders.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderXSDFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/SAXHandlerFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/stax/DefaultStAXFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/AbstractReaderSchemaFactory.java

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dev/DevNull.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/perf/PerfTest.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/NamespaceAware.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/JDOMConstants.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/Filters.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/ClassFilter.java

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*/

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/SAXBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/entity/EntityRef.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/AndFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/Format.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/CDATA.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/ContentFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/OrFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JDOMXPath.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/sax/SAXBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/FilterIterator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/ProcessingInstruction.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/ElementFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/element/Element.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/element/AbstractFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/element/Element.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/element/Comment.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/DescendantIterator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/DescendantIterator.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/BuilderErrorHandler.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/DOMOutputter.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ContentList.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/contrib/perf/SavingVerifier.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1- jar/org/jdom2/test/cases/TestSerialization.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/doc-
files/TestIds.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/transform/JDOMSource.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/transform/JDOMResult.java
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/*
*/
/*
* Support methods for Text-content formatting. Should all be protected. The
* following are used when printing Text-based data. Because of complicated
* multi-sequential text sometimes the requirements are odd. All Text
* content will be output using these methods, which is why there is the None
* version.
*/

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
* jar/org/jdom2/output/support/AbstractXMLOutputProcessor.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestCDATA.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/DataConversionException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/adapters/DOMAdapter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/IllegalDataException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/IllegalTargetException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Namespace.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/IllegalTargetException.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/support/WalkerPRESERVE.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedDocType.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedProcessingInstruction.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/support/Walker.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/support/WalkerTRIM_FULL_WHITE.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedCDATA.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/support/WalkerTRIM.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedJDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/Located.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedXMLFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2/located/AttAwareXMLOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/Located.xml
jar/org/jdom2/contrib/dtdaware/AttFilteredXMLOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedComment.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedEntityRef.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedElement.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedText.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/test/cases/TestFilterList.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/test/cases/TestDocType.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/test/cases/TestVerifier.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/transform/XSLTransformException.java

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Found in path(s):
  */opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/test/cases/input/TestSAXBuilder.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/transform/XSLTransformer.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/scanner/XPathMatcher.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdAttribute.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdDocument.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdElement.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdFactory.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/LineNumberSAXHandler.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/LineNumberElement.java

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/XPathExpression.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JDOMImplementation.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JXPathExpression.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JXPathFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JXPathNavigator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JXPathCompiled.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JXPathDiagnostic.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestComment.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestNamespace.java

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*/
/
*=======================================================================
* Support methods for Text-content formatting. Should all be protected. The
* following are used when printing Text-based data. Because of complicated
* multi-sequential text sometimes the requirements are odd. All Text
* content will be output using these methods, which is why there is the None
* version.
*==============================================================================
*/

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/output/support/AbstractOutputProcessor.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/schema/ValidationError.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/schema/Schema.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/internal/ReflectionConstructor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/util/NamespaceStack.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/internal/ArrayCopy.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/StAXEventBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/NamespaceContainer.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/EscapeStrategy.java
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Found in path(s):
* /opt/cola/permits/1135936329_161363824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/support/SAXTarget.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/DOMOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/AbstractStAXStreamProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/input/ResultSetBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/beans/TestBean.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/beans/JDOMBean.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/beans/TestIndexed.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/beans/DateUtils.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/beans/XPathHelper.java
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jar/org/jdom2/contrib/beans/BeanMapperException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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the version number 2.1.]

Preamble

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freedom to share and change it. By contrast, the GNU General Public 
Licenses are intended to guarantee your freedom to share and change 
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some 
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Free Software Foundation and other authors who decide to use it. You 
can use it too, but we suggest you first think carefully about whether 
this license or the ordinary General Public License is the better 
strategy to use in any particular case, based on the explanations 
below.

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it in new free programs; and that you are informed that you can do these things.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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\*L

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
-------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
a=20
library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
To: Neulinger, Nathan
Cc: cracklib-devel@li...; Alec Muffett
Subject: Re: [Cracklib-devel] cracklib license

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec
directly
> and see if he wants to relicense his code as LGPL... but at this
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> it was enough to just get it consistent and documented as to what
it was
> released under. This wasn't actually a license change, just a
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unlike the old license, GPL-2 prevents people from using cracklib
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applications are also GPL-2 which imo is just wrong. it isn't the
place of a
library to dictate to application writes what license they should
be using.
thus LGPL-2.1 enters to fill this void.

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small
bit of
additional code, so whatever licensing y'all come up with is fine
by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a
Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don’t think that it’s the correct
license in this situation.

Devin
--
If it’s sinful, it’s more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin
On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> >> > Seems like the ideal thing here would be for you and the other distro
> >> > maintainers to get together with Alec in a conversation and come to a
> >> > decision as to what licensing scheme y'all want. I haven't really done
> >> > much other than cleaning up the packaging and patches and a small
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> >> > additional code, so whatever licensing y'all come up with is fine
> >> > by me.
> >
> >> I am sympathetic. Guys, what do you reckon?
> >
> >> > What I am hearing so far is that LGPL makes sense, since it can be
> >> > linked with any code, not just GPL...
> >
> > My apologies for not chiming in in anything resembling a reasonable
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> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes, go for it. thanks++

-a
From: Mike Fry sing er <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
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> >>
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

----------

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSV C(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSV C(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ES MTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Revised: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmt (Exim 4.50)
id 1IoeO-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-80DD-56FBFE8E6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> 
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> 
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.
>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> =20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> =-mike
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
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> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didn't notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
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applications are also GPL-2 which imo is just wrong. it isn't the place of =20
a=20
library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
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> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> >=20
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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
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> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
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My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
On Monday 28 January 2008, Nalin Dahyabhai wrote:
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 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
1.3586 commons-csv 1.7

1.3586.1 Available under license:

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1.3587 google-go-cmp 0.3.0
1.3587.1 Available under license :

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1.3588 msgp 1.1.2
1.3588.1 Available under license:
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1.3589 procps 3.3.15-2
1.3589.1 Available under license:
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  jar/org/springframework/beans/factory/NamedBean.java
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* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/support/InstantiationAwareBeanPostProcessor.java

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* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/config/PropertiesFactoryBean.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/support/ResourceEditorRegistrar.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/support/BeanDefinitionReader.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/config/TypedStringValue.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/config/AutowireCapableBeanFactory.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
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* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.groovy
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
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* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/access/BeanFactoryReference.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/config/PlaceholderConfigurerSupport.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/BeanInfoFactory.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/support/GenericTypeAwareAutowireCandidateResolver.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/ExtendedBeanInfoFactory.java

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* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/support/GenericBeanDefinition.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/support/BeanDefinitionValueResolver.java
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* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/ConfigurablePropertyAccessor.java
* /opt/cola/permits/1136508409_1618993732.11/0/spring-beans-4-1-6-release-sources-1-jar/org/springframework/beans/factory/support/ReplaceOverride.java
1.3593 pango 1.40.5-1

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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
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  jar/io/netty/resolver/dns/DnsServerAddresses.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
  jar/io/netty/resolver/dns/DnsResolveContext.java
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# lodash v4.5.1

The [lodash](https://lodash.com/) library exported as a [UMD](https://github.com/umdjs/umd) module.

Generated using [lodash-cli](https://www.npmjs.com/package/lodash-cli):

```bash
```bash
$ npm run build
$ lodash -o ./dist/lodash.js
$ lodash core -o ./dist/lodash.core.js
```

## Community


## Documentation

* [API Documentation](https://lodash.com/docs)
* [FP Guide](https://github.com/lodash/lodash/wiki/FP-Guide)

## Download

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Review the [build differences](https://github.com/lodash/lodash/wiki/build-differences) & pick one that’s right for you.

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## Why Lodash?

Lodash makes JavaScript easier by taking the hassle out of working with arrays, numbers, objects, strings, etc. Lodash’s modular methods are great for:

* Iterating arrays, objects, & strings
* Manipulating & testing values
* Creating composite functions

## Module Formats

Lodash is available in a [variety of builds](https://lodash.com/custom-builds) & module formats.

* [lodash](https://www.npmjs.com/package/lodash) & [per method packages](https://www.npmjs.com/browse/keyword/lodash-modularized)
* [lodash-amd](https://www.npmjs.com/package/lodash-amd)
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## Further Reading

* [Contributing](https://github.com/lodash/lodash/blob/4.5.1/.github/CONTRIBUTING.md)
* [Release Notes](https://github.com/lodash/lodash/releases/tag/4.0.0)
* [Wiki (Changelog, Roadmap, etc.)](https://github.com/lodash/lodash/wiki)

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* /opt/cola/permits/1128921657_1612120636.47/0/fis-components-lodash-keys-3-1-2-0-gc47407a-1-tar-gz/fis-components-lodash.keys-9efd785/README.md

No license file was found, but licenses were detected in source scan.

/**
 * lodash 3.1.2 (Custom Build) <https://lodash.com/>
 * Build: `lodash modern modularize exports="npm" -o .`
 * Copyright 2012-2015 The Dojo Foundation <http://dojofoundation.org/>
 * Based on Underscore.js 1.8.3 <http://underscorejs.org/LICENSE>
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 */

/**
 * Creates an array of the own enumerable property names of `object`.
 * 
 * **Note:** Non-object values are coerced to objects. See the
 * [ES spec](http://ecma-international.org/ecma-262/6.0/#sec-object.keys)
 * for more details.
 *
function Foo() {
  this.a = 1;
  this.b = 2;
}

Foo.prototype.c = 3;

_.keys(new Foo);
// => ['a', 'b'] (iteration order is not guaranteed)

_.keys('hi');
// => ['0', '1']

1.3597 encoder-jsp 1.2.1

1.3598 wso2-carbon-governance-client 4.7.27

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jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
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1.3621 cxf-rt-security 2.7.16

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1.3622 xorg-x11-font-utils 7.5-41.el8

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1.3625 cronie 1.5.2 4.el8

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devspec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
The MIT License (MIT)

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limitations under the License.

package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
The MIT License (MIT)

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metrics from the pseudo-filesystem proc.

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1.3628 curl 7.61.1-18.el8

1.3628.1 Available under license :

License Mixing

=========

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an
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## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using another TLS library.

## GnuTLS

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## WolfSSL

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## BoringSSL

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## libressl

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

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## Heimdal

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## GNU GSS

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## libidn

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.3629 wso2-carbon-registry-resource 4.6.38
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1.3631 swagger-core 1.5.16
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Manifest-Version: 1.0
Bnd-LastModified: 1500145157945
Build-Jdk: 1.7.0_79
Built-By: tony
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on https://oss.sonatype.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
1.3632 spring-context 4.3.14.RELEASE

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j/en/springframework/format/datetime/joda/DateTimeFormatterFactory.java
* /en/springframework/format/datetime/joda/LocalDateTimeParser.java
* /en/springframework/ui/ModelMap.java
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* /en/springframework/remoting/rmi/JndiRmiClientInterceptor.java
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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/support/ContextTypeMatchClassLoader.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/scheduling/concurrent/ForkJoinPoolFactoryBean.java

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  jar/org/springframework/remoting/RemoteAccessException.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/annotation/BeanMethod.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/instrument/classloading/jboss/JBossClassLoaderAdapter.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/annotation/AdviceMode.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/MessageSourceAware.java

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*/
/**
* [@link FactoryBean] that obtains a WebSphere [@link javax.management.MBeanServer]
* reference through WebSphere's proprietary [@code AdminServiceFactory] API,
* available on WebSphere 5.1 and higher.
* Exposes the {code MBeanServer} for bean references.
* This FactoryBean is a direct alternative to {link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.

* See the javadocs for WebSphere's
* and {code AdminServiceFactory} and {code MBeanFactory}.

* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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  jar/org/springframework/jmx/export/MBeanExportOperations.java
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* /opt/cola/permits/113668068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /opt/cola/permits/113668068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/validation/Errors.java
* /opt/cola/permits/113668068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/validation/AbstractBindingResult.java
* /opt/cola/permits/113668068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/validation/Parser.java
* /opt/cola/permits/113668068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
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jar/org/springframework/validation/AbstractBindingResult.java
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jar/org/springframework/validation/Errors.java
* /opt/cola/permits/113668068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
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* /opt/cola/permits/113668068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
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* /opt/cola/permits/113668068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/jmx/export/assembly/AutodetectCapableMBeanInfoAssembler.java
* /opt/cola/permits/113668068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
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jar/org/springframework/context/event/ContextStoppedEvent.java
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jar/org/springframework/context/ResourceLoaderAware.java
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jar/org/springframework/context/access/DefaultLocatorFactory.java
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* Indicates that a component is only eligible for registration when all
  * value specified conditions match.
* A <em>condition</em> is any state that can be determined programmatically
  * before the bean definition is due to be registered (see @link Condition for details).
* The {code @Conditional} annotation may be used in any of the following ways:
  * as a type-level annotation on any class directly or indirectly annotated with
    * includes Configuration classes</li>
  * as a meta-annotation, for the purpose of composing custom stereotype
    * annotations</li>
  * as a method-level annotation on any {link Bean} method</li>
* If a {code @Configuration} class is marked with {code @Conditional},
  * all of the {code @Bean} methods, {link Import} annotations, and
  * ComponentScan annotations associated with that
  * class will be subject to the conditions.
* : Inheritance of {code @Conditional} annotations
  * is not supported; any conditions from superclasses or from overridden
  * methods will not be considered. In order to enforce these semantics,
  * itself is not declared as
  * inherited; furthermore, any
  * composed annotation that is meta-annotated with
  * must not be declared as {code @Inherited}.
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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  jar/org/springframework/remoting/support/RemoteInvocationFactory.java
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  jar/org/springframework/scripting/config/LangNamespaceUtils.java
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  jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
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  jar/org/springframework/jndi/JndiAccessor.java
  */opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/jmx/export/SpringModelMBean.java
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  jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
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  */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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1.3635 github.com/timescale/timescaledb-tune v0.12.0

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1.3636 perl-modules 5.28.1-6+deb10u1

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Lee, Assistant to the Director of Finance, has been tasked with reviewing the project for its financial feasibility. She plans to meet with the core team at 1:30 PM tomorrow to discuss the budget and resource allocation. Further, Assistant Lee requests a comprehensive list of all potential resource requirements and an estimated cost for each to aid in finalizing the project plans.
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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1.3672 event-emitter 0.3.5

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1.3673 kubernetes 1.21.11

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package types

import "time"
// FeatureType store features types
type FeatureType string

const (  
// HA means High Availability
HA = FeatureType("HA")  
// DEV means developer licence
DEV = FeatureType("DEV")  
// TRIAL means trial licence
TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane
type Licence struct {  
ArrayUUID string `json:"arrayUUID,omitempty"`  
ClusterID string `json:"clusterID,omitempty"`  
CustomerID string `json:"customerID"`  
CustomerName string `json:"customerName"`  
Storage int `json:"storage"`  
ValidUntil time.Time `json:"validUntil"`  
LicenceType string `json:"licenceType"`  
Features map[FeatureType]bool `json:"features"`  
Unregistered bool `json:"unregistered"`  
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {  
Key string `json:"key"`  
}

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    URL  string `json:"url,omitempty"`
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https://github.com/golang/protobuf

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin  string
    Option  string
}
Severity string // 'deprecated', 'removed', or 'unsupported'
ReplacedBy string
Additional string
Version string

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "Plugin ", n.Plugin)
    } else {
        s += fmt.Sprintf("Option "Option " in plugin " in plugin ", n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += " is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(" It is replaced by "ReplacedBy", n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const ( // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

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- Copy files to and from Containers in a cluster

## Copying Container Files

### Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`
Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `path`.
- Remote file format is `<pod-name>:<path>`.

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>`.

- `<namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
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limitations under the License.

package storageos

import (
    "encoding/json"
    "github.com/storageos/go-api/types"
)

cost ( // licenceAPIPrefix is a partial path to the HTTP endpoint.
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    licence := &types.Licence{
        if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
            return nil, err
        }
    return licence, nil
}

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
    _, err := c.do("POST", licenceAPIPrefix, doOptions{
        data: &types.LicenceKeyContainer{Key: licenceKey},
    })
    return err
}
// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{ })
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

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tomb - support for clean goroutine termination in Go.

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package simulator

import {
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
}

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key: "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         }},
        {Key: "feature",
         Value: types.KeyValue{
             Key: "dvs",
             Value: "vSphere Distributed Switch",
         }}
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {

m := &LicenseManager{}  
m.Self = ref  
m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}  

if Map.IsVPX() {  
am := Map.Put(&LicenseAssignmentManager{}).Reference()  
m.LicenseAssignmentManager = &am  
}

return m

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {  
body := &methods.AddLicenseBody{  
Res: &types.AddLicenseResponse{},  
}  

for _, license := range m.Licenses {  
if license.LicenseKey == req.LicenseKey {  
body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)  
return body  
}
}

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{  
LicenseKey: req.LicenseKey,  
Labels: req.Labels,  
})  

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)  

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {  
body := &methods.RemoveLicenseBody{  
Res: &types.RemoveLicenseResponse{},  
}  

for i, license := range m.Licenses {  
if req.LicenseKey == license.LicenseKey {  
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...]  
return body  
}
}

return body
}
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        body := &methods.UpdateLicenseLabelBody{
            for i := range m.Licenses {
                license := &m.Licenses[i]
                if req.LicenseKey != license.LicenseKey {
                    continue
                }
            }
            body.Res = new(types.UpdateLicenseLabelResponse)
            for j := range license.Labels {
                label := &license.Labels[j]
                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)}
                    else {
                        license.Labels = append(license.Labels[i], license.Labels[i+1:]...)}
                }
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)}
                else {
                    license.Labels = append(license.Labels[i], license.Labels[i+1:]...)}
                label.Value = req.LabelValue
                return body
                return body
            }
            license.Labels = append(license.Labels, types.KeyValue{
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })
            return body
            body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
            return body
            type LicenseAssignmentManager struct {
                mo.LicenseAssignmentManager
            }
            func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
                body := &methods.QueryAssignedLicensesBody{
                    Res: &types.QueryAssignedLicensesResponse{
                }
            // EntityId can be a HostSystem or the vCenter InstanceUuid

            Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 35583
if req.EntityId != "" {
    if req.EntityId != Map.content().About.InstanceUuid {
        id := types.ManagedObjectReference{
            Type:  "HostSystem",
            Value: req.EntityId,
        }

        if Map.Get(id) == nil {
            return body
        }
    }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId: req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    infoLICENSEKey = key
    info.Labels = labels

    return info
}

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tomb - support for clean goroutine termination in Go.

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1.3675 jackson-dataformat-yaml 2.10.2

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1.3676 go-redis-redis 8.2.3

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1.3677 mssql-jdbc 7.0.0

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Found in path(s):
* /opt/cola/permits/1229306456_1640809786.49/0/mssql-jdbc-7-0-0-jre8-jar/META-INF/maven/com.microsoft.sqlserver/mssql-jdbc/pom.xml

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Manifest-Version: 1.0
Bundle-Description: Microsoft JDBC Driver for SQL Server.
Bundle-License: http://www.opensource.org/licenses/mit-license.php
Bundle-SymbolicName: com.microsoft.sqlserver.mssql-jdbc
Built-By: BLD-003-W81-64$
Bnd-LastModified: 1533057440087
Bundle-ManifestVersion: 2
Bundle-Vendor: Microsoft Corporation
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-3.5.0.201709291849
Export-Package: com.microsoft.sqlserver.jdbc;uses:="javax.naming,javax.naming.spi,javax.security.auth.callback,javax.security.auth.login,javax.sql,javax.transaction.xa,microsoft.sql,org.ietf.jgss";version="7.0.0",microsoft.sql;version="7.0.0"
Bundle-Name: Microsoft JDBC Driver for SQL Server
Bundle-Version: 7.0.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 10.0.1

Name: com/microsoft/sqlserver/jdbc/InputStreamGetterArgs.class
SHA-256-Digest: sla7i+Wp0fJ7/D36xIyzsqIyQdDVZahgZPhdbTj6E=

Name: com/microsoft/sqlserver/jdbc/SSLenType.class
SHA-256-Digest: mETZXg1aL2IWXLSOMiNTBZ6zhdTpM6eWTZe9j4E7YC=

Name: com/microsoft/sqlserver/jdbc/SQLServerConnection$State.class
SHA-256-Digest: +CwNO8/EaMurUWqwYJB7ht7oqRS0Nq8NAfnGKL BdB1M=

Name: mssql.googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap.class
SHA-256-Digest: UW9bytjxRsHuxvU3XZDq30UJd3K07X8/+GQm3odXAJs=

Name: com/microsoft/sqlserver/jdbc/TDSChannel$SSLHandhsakeState.class
SHA-256-Digest: t+gyRxG0t+8RywjaunQnbbVFeL/Zj/Xs4bSH61ug0frE=

Name: com/microsoft/sqlserver/jdbc/SQLServerConnection.class
SHA-256-Digest: sQEmE+9qocxXgcTyJhaMEk9O2qvHm2CWF8PGOdlMAz4=

Name: com/microsoft/sqlserver/jdbc/Column.class
SHA-256-Digest: cX/o+PaOkwQBL8MR6ECQ+3CCXTD0gh8DyXajj80mwaw=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$10.class
SHA-256-Digest: PXUVJwJKaH0j0qiXYyE7tOdjajspYleA0gWbP1+3EH8=

Name: mssql.googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap$DrainStatus.class
SHA-256-Digest: jRRWNbPAb39tQXewqkvn1+jTd3DMH5HYVlm5XJD/po=

Name: com/microsoft/sqlserver/jdbc/StreamColInfo.class
SHA-256-Digest: Amg0UvgyFSJLNFMNdOWxD4TKFIlfmo6PYWCQ77aMD0I=

Name: com/microsoft/sqlserver/jdbc/JavaType$1.class
SHA-256-Digest: e2GOV9jiKaCPyfBjRq70Ql50mTTd/a3JIpUP301Jm2k=

Name: com/microsoft/sqlserver/jdbc/DDC.class
SHA-256-Digest: bSoLrPDSetp+NQr/3eSAULZ6y1BAOZMLzNVktxXtfQ=

Name: com/microsoft/sqlserver/jdbc/SQLServerResultSetMetaData.class
SHA-256-Digest: h38qRrVYABGVj1s4PlYLEUahFLEZ72yex9UIhh7s=

Name: com/microsoft/sqlserver/jdbc/JDBCType.class
SHA-256-Digest: Pxm5eRYVYrqOOUJYTTvEMKsrEyKWfdHHRqa1RY3K8=

Name: com/microsoft/sqlserver/jdbc/KerbAuthentication$2.class
SHA-256-Digest: i6Sjn0gwOmdD3+83VKhH1rpY4Q1EEKHV9MZn8YRbE1=
Name: com/microsoft/sqlserver/jdbc/StreamPacket.class
SHA-256-Digest: HnQ7ld0KCO6OS4Nm7xJ+yWVYpkkeD7wqmjg9dMdJhc=

Name: com/microsoft/sqlserver/jdbc/SQLServerPooledConnection.class
SHA-256-Digest: AozzF0x1QrpM3dVl4UON99Nemor7+HYoOrHvmSGbp4=

Name: com/microsoft/sqlserver/jdbc/KerbCallback.class
SHA-256-Digest: lt9fpt6s0JuJfP5FqYP+e+EMY9zbnmJlIwakuqkJcceg=

Name: com/microsoft/sqlserver/jdbc/SQLServerDataSource.class
SHA-256-Digest: s+YldRG32uRUMZfrowRnaGgJefy2AU1pCzfUBugkfc=

Name: com/microsoft/sqlserver/jdbc/SQLServerCallableStatement.class
SHA-256-Digest: IhauIouD3dOgBzR6ysz7fOuZ0gcFBlAErTuRw/7+MW4=

Name: com/microsoft/sqlserver/jdbc/SQLServerPreparedStatement$PrepStmtExecCmd.class
SHA-256-Digest: oxHFWWNr534XwPiYQLD/GoejW2mkOQ940DlZ5Qxiz3U=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$1.class
SHA-256-Digest: E1LAjylMnwlqMAR/9ypki3LdmG8m7xgcqE1m3yJS5vg=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$BigOrSmallByteLenStrategy.class
SHA-256-Digest: yDhE2px/CcwPB11mLkLvMB6np8kcvgLAlJxvoYP2Rj0=

Name: com/microsoft/sqlserver/jdbc/SQLServerException.class
SHA-256-Digest: WXjE5h2oFEhqGxEWzJeN5w62V6XY01lwVwrEU5DDZCM=

Name: com/microsoft/sqlserver/jdbc/ISQLServerSavepoint.class
SHA-256-Digest: ewrhd4qfpCrpi89vXulHAVYYNyVt7/MANqw7tflAZM=

Name: com/microsoft/sqlserver/jdbc/SQLServerParameterMetaData.class
SHA-256-Digest: NBUk0GeqUvZw2nqjzgSWKvke73WN7roeOll4bhEEvul=

Name: com/microsoft/sqlserver/jdbc/DescribeParameterEncryptionResultSet1.class
SHA-256-Digest: +0qX0TifO85XI+p2mTISI0IXK5LXXDUfq0gMfb43aEU=

Name: mssql/googlecode/concurrentlinkedhashmap/Weighers$IterableWeigher.class
SHA-256-Digest: nczLTNMvay8qaiAhEjce32e9W+Hg/rUaoqYUbSiwuSwn=

Name: com/microsoft/sqlserver/jdbc/SQLServerLob.class
SHA-256-Digest: 1U1ezG0a+2/Fe+Ijbbkki2rdUngrhmGvSdtfxmmok=

Name: mssql/googlecode/concurrentlinkedhashmap/LinkedDeque$AbstractLin
kedIterator.class
SHA-256-Digest: hKmzZbt5bcx8q3gmA2IJXhxj3PEJcVvXMyhA9u8dRho=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$5.class
SHA-256-Digest: eW1HfLaHe6RZh/bm4r033+O0ycesWFYjle+ErwF8W4Sbg=

Name: com/microsoft/sqlserver/jdbc/Sqlarios.class
SHA-256-Digest: 1OcUVK2oYUPkR2WxuUJHRzG0iP+ai8Eq4ModSuyqKAgg=

Name: com/microsoft/sqlserver/jdbc/SQLServerResource_it.class
SHA-256-Digest: HJTxzGEyqI1ymC5A6WEk29ivWDKOArL27UD6VD4=

Name: mssql/googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap$UpdateTask.class
SHA-256-Digest: x6xRKwfk28341J0J5GqlRRDKtuv3l9vLsBko4cX41s=

Name: com/microsoft/sqlserver/jdbc/ConnectionComm.class
SHA-256-Digest: gmCcvvli2ZBRbaiPbS36cDrbC/hUUFO8lW/flWRRbg=

Name: mssql/googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap$KeySet.class
SHA-256-Digest: ld4ryvKqNb4aT1yl8z+4yOcF35Acx4Y9zekrUDHF11o=

Name: com/microsoft/sqlserver/jdbc/SQLServerBulkCopy$ColumnMapping.class
SHA-256-Digest: 9Pp5Ybiy/1YB/pVtjRqazPU8KdoPG7QdQ227xO5Mw=

Name: com/microsoft/sqlserver/jdbc/DriverError.class
SHA-256-Digest: qsZ6mJjUZtLoLpCdQs7H9a83ZBxh4wDWjxJWGdwbww4=

Name: mssql/googlecode/concurrentlinkedhashmap/Weighers$MapWeigher.class
SHA-256-Digest: r0sA9+1RFSZ0e/fcqOYMmi7W8fInkRn/H55ynk+UOo4=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$16.class
SHA-256-Digest: CSTnLd3mQkW8s0HmE1PfQwjbOzJQX2QYtd/21YaUo=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$15.class
SHA-256-Digest: 45Ocjf8dIFN20NO0FFzHluoxyj+wg5QNNCrULULHE8g=

Name: com/microsoft/sqlserver/jdbc/StreamInfo.class
SHA-256-Digest: CsnLlau+5+id7r3/elUQ3GTLYosSUwFP4q7FxMgIPRo=

Name: com/microsoft/sqlserver/jdbc/ISQLServerStatement.class
SHA-256-Digest: ifFPmHQQ0OQuGuBXLRF9RQwyK4ntaxmb29hwLj28iCl=

Name: com/microsoft/sqlserver/jdbc/KerbAuthentication$3.class

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SHA-256-Digest: HtyniRqz6SoXBgWRTmUr9QM3m/kIylfl+1BUyOc6bDU=
Name: mssql/googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap
$AddTask.class
SHA-256-Digest: QGOk4HUx7VFvRidive6AxAUL/CPFPGJoemEt4bR1PPMw=
Name: com/microsoft/sqlserver/jdbc/SQLServerResourceFr.class
SHA-256-Digest: MldpWXkVblTnckrtNj44z547+6IfL+jkgmMDHyjVlbU=
Name: com/microsoft/sqlserver/jdbc/SQLServerConnection$FedAuthTokenCommand.class
SHA-256-Digest: dHLbgBRNqi1/Vv/8cLmIB7RWsVIGWouls7Nos6ukZA=
Name: com/microsoft/sqlserver/jdbc/SSPIAuthentication.class
SHA-256-Digest: bMdOEQKbbNsFDHt+84a6dFEWJlf25fRdv5EC4eIDWnk8=
Name: com/microsoft/sqlserver/jdbc/SQLCollation.class
SHA-256-Digest: qlfUQd4DCqS16sgupW8UGCNVbboyrGkH9zforB3w=
Name: com/microsoft/sqlserver/jdbc/SQLServerEncryptionAlgorithmFactoryList.class
SHA-256-Digest: MwdLOU1SNMy15tpuCp/luYB7yi54V+wfAfHOmgcdl8w=
Name: microsoft/sql/DateTimeOffset$SerializationProxy.class
SHA-256-Digest: BFOVFzEunz1xub5Qdu976/Asqy8PYthi54xWEZ9X7A=
Name: mssql/googlecode/concurrentlinkedhashmap/Weighers$ListWeigher.class
SHA-256-Digest: HPcFXgQBfnxP8pyxaUfUEv7Awj9msdno1w1HrsZqW64=
Name: mssql/googlecode/concurrentlinkedhashmap/EntryWeigher.class
SHA-256-Digest: yiQBWiqfhi+8j0ui2HdBGDwrFvdcX9JFvLzBEqLA=
Name: mssql/googlecode/concurrentlinkedhashmap/Linked.class
SHA-256-Digest: ihK/NpCRC2fxlcvb272Ww2sXNSC/+ZdsmR+8K15jppY=
Name: com/microsoft/sqlserver/jdbc/ColumnEncryptionSetting.class
SHA-256-Digest: V131HIiXkLqW9NGdYC12/MpJFFONcgQYCyqSFL66kJ3o=
Name: com/microsoft/sqlserver/jdbc/TDSChannel$ProxyOutputStream.class
SHA-256-Digest: sA4r/LY/OLFw+bXIWVD1JGg5MhDIVO/BoVwY9rMJuZQ=
Name: com/microsoft/sqlserver/jdbc/SQLServerBulkCopy$BulkTimeoutTimer.class
SHA-256-Digest: MiLYzarz47T9qI9RHQ8R6xALpHn23HE0Wu5ceEKzEuw=
Name: com/microsoft/sqlserver/jdbc/RowType.class
SHA-256-Digest: a/Ip5hyQDY7VnlBWA8kimLx62PX24k2kMtwf3hILWBA=
Name: com/microsoft/sqlserver/jdbc/ISQLServerConnection.class
SHA-256-Digest: QtEyMWr69vyIkJi8zX1cfbwJijnhbZcQ9U9U8mm8UxGg=

Name: com/microsoft/sqlserver/jdbc/SQLServerDriverBooleanProperty.class
SHA-256-Digest: Akurq45CcF2oxlAOdXuM8PS2bIGxmxNNU5VQHG57l8=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$FixedLenStrategy.class
SHA-256-Digest: LnWXNnhLhxbo6U1Wwt0T3brDRgqIwM8g+7qy/lhXCe=

Name: com/microsoft/sqlserver/jdbc/SQLServerAeadAes256CbcHmac256EncryptionKey.class
SHA-256-Digest: UcQuB+GusssIEuumk8KC2uWmWBkmwWNXhPDKBECEDo=

Name: com/microsoft/sqlserver/jdbc/SQLServerConnection$1DTCCommand.class
SHA-256-Digest: JbtWxcphTWZPxFGFIM+oQeSnzz5c+7zP9N1zfH7C6VFI=

Name: com/microsoft/sqlserver/jdbc/DTVImpl.class
SHA-256-Digest: qszWTXx+bRojQdlhTTbE8vop+HVaDeAF/E103Rwj0fY=

Name: com/microsoft/sqlserver/jdbc/SQLServerDataTable$1.class
SHA-256-Digest: v0zzZG98zthnGycAfswhH81kMSDRzaiXstVDP+33f14=

Name: com/microsoft/sqlserver/jdbc/Shape.class
SHA-256-Digest: gnCukPIQ0ZnrwWugm4qx8qZS/8dEvEo5TliyW931LpU=

Name: com/microsoft/sqlserver/jdbc/SQLServerDriver.class
SHA-256-Digest: sdQebZpOWU0WTUl+lSlt+aWH+wa8Y1menJKfrD/BCCU=

Name: mssql/googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap$WriteThroughEntry.class
SHA-256-Digest: WYWDqldnVj6gRKw47tAGyELrGHPdzuwBmGLc3Xa1A=

Name: com/microsoft/sqlserver/jdbc/SQLServerResultSet$1ClientCursorInitializer.class
SHA-256-Digest: nArYh7t9XiaCYah9E52691SKnJQ2AI2T4LbJ/ghRF8U=

Name: com/microsoft/sqlserver/jdbc/SQLServerKeyVaultAuthenticationCallback.class
SHA-256-Digest: 0FdwnxKmW/W191KyrScQi7HHUL3pDEKVmAhl0gNUvno=

Name: com/microsoft/sqlserver/jdbc/SQLServerStatement$StmtBatchExecCmd.class
SHA-256-Digest: 13ZtKtyYCHLBoYbwWng9yc45qyv/6x4wBpf5QeQNG4M=
Name: com/microsoft/sqlserver/jdbc/FailoverInfo.class
SHA-256-Digest: hb9q4mH03BF6G50m/M27g81gZ4G0CoqS3VXig5uNI=

Name: com/microsoft/sqlserver/jdbc/StreamError.class
SHA-256-Digest: jn0uxuMq+UN7swN31ZXYF6G72OJsIoV7FYyp1Hn4Psw=

Name: com/microsoft/sqlserver/jdbc/SQLServerResultSet$1UpdateRowRPC.class
SHA-256-Digest: uZSMGIM2wgbG0A2iOGRaSZyafRDiJeSHA0e6S19nu+kIA=

Name: com/microsoft/sqlserver/jdbc/TDSChannel.class
SHA-256-Digest: 1/IchH5Wri72b1b6j5FsSU/yHoQPOxVahm8NXINOZJg=

Name: com/microsoft/sqlserver/jdbc/SQLServerBulkCopy$BulkColumnMetaDataType.class
SHA-256-Digest: cVPvIoKUKQrUvqiPfn+9bH6JoSqrvy3jvHxiQcXFDTA=

Name: com/microsoft/sqlserver/jdbc/Util$1.class
SHA-256-Digest: zMeqSHT59bXP1QJHk2teki8rQkCS1zmNSi8j7I8E8=

Name: com/microsoft/sqlserver/jdbc/SocketFinder.class
SHA-256-Digest: yojrplB0E7dPmekrhSkYRPBCXH6h211a9Oe1r9nE=

Name: com/microsoft/sqlserver/jdbc/SQLServerStatement$ExecuteProperties.class
SHA-256-Digest: z3Rvmod0ugayelQrYOutBzUoAU6y8H4HLx66QyYOU=

Name: com/microsoft/sqlserver/jdbc/InternalSpatialDatatype.class
SHA-256-Digest: UsMk7vPmbdazwaiYXfYXicexWafeqLRf00elWMCQXc=

Name: com/microsoft/sqlserver/jdbc/TimeoutTimer.class
SHA-256-Digest: 0CgIBMaCueLy5z07KqlWHvd6Lix7/l1pkogk3bgBgRY=

Name: com/microsoft/sqlserver/jdbc/ServerPortPlaceHolder.class
SHA-256-Digest: G+mtTBFl5X3Af/5juR/g99ZQeYAFZk626dL0ajT90Cs=

Name: com/microsoft/sqlserver/jdbc/Encoding.class
SHA-256-Digest: v08HL2vlH7vz/H7rCmIJW9bPjx/NMPbC6W0QFOmG0=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$KatmaiScaledTemporalStrategy.class
SHA-256-Digest: h87tcqfKpqPPPrkQ8EsizZZYeq2w/bgCdN+Dd+rWvYwGU=

Name: com/microsoft/sqlserver/jdbc/dataclassification/Label.class
SHA-256-Digest: 3M1Wao/gbb1JSThy88WBBHMTP6mvYZANkA29uGh1dxc=

Name: com/microsoft/sqlserver/jdbc/CekTable.class
SHA-256-Digest: 4EKK9gXmlVrjWhDcZbJkv+Czf97s2/7hNXFVUXu8o=
Name: com/microsoft/sqlserver/jdbc/dns/DNSUtilities.class
SHA-256-Digest: 421Ttr1vL5SVm6YSoJhb2Gk6yzPeuY5sep6NL0kVloA=

Name: com/microsoft/sqlserver/jdbc/DriverJDBCVersion.class
SHA-256-Digest: Dqfv0SW4fJqPl457eyMJqBW+GpfppLzUupku8UYx5Y=

Name: com/microsoft/sqlserver/jdbc/ServerDTVImpl.class
SHA-256-Digest: Sf9amf7GjCiCgYLkwlq/lBI/aPCHwLW/skvy5j+MI=

Name: com/microsoft/sqlserver/jdbc/AsciiFilteredInputStream.class
SHA-256-Digest: uVrNftz4bNu70DdLeLDXM1wgc4rbNzOoOoWKquXRh6Go=

Name: com/microsoft/sqlserver/jdbc/DataTypes.class
SHA-256-Digest: o0iSrrwYOyec7bzoLiAE/jfu1sTUVxThio9yXyIosaks=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$7.class
SHA-256-Digest: WzCncyBlNeP2k0krQ+scho47H6sUsHIEtW5SUTj4gvE=

Name: com/microsoft/sqlserver/jdbc/TDSReader.class
SHA-256-Digest: 5LxHILDVQo990VtRbdTBeq2hLUyTwjRIwRD8JYXCg=

Name: com/microsoft/sqlserver/jdbc/SQLIdentifier.class
SHA-256-Digest: 5EFZ+F+najlJp7t8x8eCeoJFSmZLVuLUGPObAKLhk+MA=

Name: com/microsoft/sqlserver/jdbc/TDSChannel$SSLHandshakeOutputStream.class
SHA-256-Digest: /tb6uEEx/mItLn8JVuNvb63fQKrY4r8FleJe81wdqEY=

Name: com/microsoft/sqlserver/jdbc/SqlFedAuthToken.class
SHA-256-Digest: EfY7lV+zbiWagI2aX6bYfg2MweF+qvTUjvfq5hHTrack=

Name: mssql/googlecode/concurrentlinkedhashmap/Weighers$ByteArrayWeigher.class
SHA-256-Digest: PVOXhSbqpSF1czt53c2XE7kog8TO+raEG/f4xFw9J5M=

Name: com/microsoft/sqlserver/jdbc/UserTypes.class
SHA-256-Digest: HOcJQLDqMqDHUFLtZkNaDpG7zbdRj8Qu6MA63AxI=
Name: com/microsoft/sqlserver/jdbc/TDSWriter.class
SHA-256-Digest: XO0XrCZexlsV7U9voqGz29uADqnEWX5fI4v6afBGc0M=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$4.class
SHA-256-Digest: aXBohkauNPrVyMOorLMZO6vNucvjh93QdeBGx7zRYSD4=

Name: com/microsoft/sqlserver/jdbc/SQLServerResource.pt_BR.class
SHA-256-Digest: U9TGVsMKVg8+iDeoHKvdSOiM++N+O7NExArLrwzz5R8=

Name: com/microsoft/sqlserver/jdbc/SQLServerXML.class
SHA-256-Digest: ZHjeae2Se5T/t2KoJXkkGB0iU3CLzoGsf/Jzj0WSZXRI=

Name: com/microsoft/sqlserver/jdbc/IntColumnFilter$1.class
SHA-256-Digest: xhTLrZRBXzBWyHYdTUdxwOWF7mMSmpSOzz/O0LFpmE=

Name: com/microsoft/sqlserver/jdbc/SQLServerStatementColumnEncryptionSetting.class
SHA-256-Digest: qvSfx5a725cINQISjJ/hPqDjRiqMSNiUrlmY7X9rdA=

Name: com/microsoft/sqlserver/jdbc/SSType.class
SHA-256-Digest: X3k/BoBuDSg8NLeHbsn3HdubBBLGhjwUCjWxWUYkba++8=

Name: com/microsoft/sqlserver/jdbc/SQLServerResultSet$1CursorInitializer.class
SHA-256-Digest: kQPmiIRwmMxG2HYKlyKm8CPy8E/M6/2TzwhzY+W2qsM=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$DecimalNumericStrategy.class
SHA-256-Digest: eXz7C6sNdYMg+dPrx7/w7SmjNu8qRKKaSimgx8MyY=

Name: com/microsoft/sqlserver/jdbc/CekTableEntry.class
SHA-256-Digest: u174Fl88oURIZKXzgLZmQ/kc8C8OJ6rZGPfcIMxjWKg=

Name: com/microsoft/sqlserver/jdbc/JDBCType$1.class
SHA-256-Digest: 4IUxG8ufxivkrRlw6V9TQ9C+7hNvWoaKZfqa0hvWti=

Name: com/microsoft/sqlserver/jdbc/TDS.class
SHA-256-Digest: QSno0x++1rNmR5cVPOooPV+d7J7DdcfoxD6PpBYITofuk=

Name: com/microsoft/sqlserver/jdbc/SQLServerConnection$CityHash128Key.class
SHA-256-Digest: rBcRaFikK6p3h5aqiw2kLhLbXs9jPUK/QVEgtpohPg=

Name: com/microsoft/sqlserver/jdbc/SQLServerConnection$SqlFedAuthInfo.class
SHA-256-Digest: j79hyw6l0hXPe5vA77sUR10d3PMLU6z2f0pYVoNzl=

Name: com/microsoft/sqlserver/jdbc/SQLServerStatement$StmtExecOutParam
Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$6.class
SHA-256-Digest: dHbn6fFqA82pyPaO2M1RsDQ7Aq8XB1NyU4T1Y6qJ5o0=

Name: com/microsoft/sqlserver/jdbc/dataclassification/ColumnSensitivity.class
SHA-256-Digest: BRpC+k0AFWKAOT9cXc9A51DKeLpF2OO9/IiEcobyTpE=

Name: com/microsoft/sqlserver/jdbc/TDSChannel$ProxyInputStream.class
SHA-256-Digest: c9zPZa28KB2dQIcY32To07Q0V6rP0TrHhRVSMBMDigI=

Name: mssql/googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap$BoundedEntryWeigher.class
SHA-256-Digest: dh1gcYOGTVLSEwTd2Tjsyi3vcSD6sAQKf7Xc7tXaNts=

Name: com/microsoft/sqlserver/jdbc/SQLServerClobAsciiOutputStream.class
SHA-256-Digest: 6Fufv5qMRCX57ySH86xGqzKSh/+RmAxOV/vQ6jva5w=

Name: com/microsoft/sqlserver/jdbc/JavaType.class
SHA-256-Digest: SwV79ecSoq2wNgSuuFiJaV2+FEbqGjcjNwhPgXMJX0c=

Name: com/microsoft/sqlserver/jdbc/SQLServerPreparedStatement$1PreparedHandleClose.class
SHA-256-Digest: Ucblf3lSGZhgROabdo8qA3ZOT8sz0s+LNVWU2XkpGw=

Name: com/microsoft/sqlserver/jdbc/ParameterUtils.class
SHA-256-Digest: 1Wya2lItzmIcik/HECXoV/YBAq5rGZQmstLRASOG8=

Name: com/microsoft/sqlserver/jdbc/SQLServerBlobOutputStream.class
SHA-256-Digest: pmP56UsTgEtOEGECW12Qn5S5VDTCHG3gf5iJ24smAVE=

Name: com/microsoft/sqlserver/jdbc/SQLServerPreparedStatement$PrepareStmtBatchExecCmd.class
SHA-256-Digest: euwj8M173O6Gtt33w7UWEhns+4jC92FADQ9Y/7E6MWqE=

Name: com/microsoft/sqlserver/jdbc/SQLServerSpatialDatatype$1.class
SHA-256-Digest: OhrU82sRkomtfPC0eBkibupPzwatwJpVdB+B16yN/tk=

Name: com/microsoft/sqlserver/jdbc/SQLServerEntityResolver.class
SHA-256-Digest: rGZUWyru1gHpO/Mii2KtC7OpRhWBpVltO9cv174qw=

Name: com/microsoft/sqlserver/jdbc/SQLServerCallableStatement$1OutPara
mHandler.class
SHA-256-Digest: n0jMfh8v5eyA4vm4E6RIZULFn08JVpc9+blTI9V2fR0=
Name: com/microsoft/sqlserver/jdbc/SQLServerConnection$LogonCommand.class
SHA-256-Digest: wSi8AAxetQfUbJoWgw/RGmg+1wvXsSPEzGgp6Yy1sw=

Name: com/microsoft/sqlserver/jdbc/TDSReader$1.class
SHA-256-Digest: NJNTZ0HflP9WvVumAqX2fcU/jAinb6l/1vEVd+zlsImM=

Name: mssql/googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap$DrainStatus$1.class
SHA-256-Digest: bN0sDUieNw0jw7zmR7r7u9mgzwsmmLaA+SKtWCDtGTh=

Name: mssql/googlecode/concurrentlinkedhashmap/EvictionListener.class
SHA-256-Digest: fWBfjpz0DDFo1pUwngsegJx1aqsGcOdqBQExzU+z8o=

Name: com/microsoft/sqlserver/jdbc/SQLJdbcVersion.class
SHA-256-Digest: J1nlqvcIjSearnmD1tVvovC0SG2LfGboApBIDQUlc=

Name: com/microsoft/sqlserver/jdbc/Geometry.class
SHA-256-Digest: Oh9Olnc9dVX3nkgaagLhOJ88tC0PvUtdq1dPaghgo=

Name: mssql/googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap$1.class
SHA-256-Digest: tI6JyenuNFXE+5h1Hfc9UdT75QK45yog8qOwuUyj=

Name: com/microsoft/sqlserver/jdbc/JDBCType$NormalizationAE.class
SHA-256-Digest: m/sOqPCT6vRIoakWgb98VzwwoWcy7cDYEN+hkU/Hylw=

Name: com/microsoft/sqlserver/jdbc/SQLServerSavepoint.class
SHA-256-Digest: yFnHe5HCFWjEh4AlpVLPrjILXqqB3TRN1MibdzOh4g=

Name: com/microsoft/sqlserver/jdbc/TDSTokenHandler.class
SHA-256-Digest: ccBWMD/nDK8wC63zWWdShc0L0E7H11ry7wIM9lupzD8=

Name: com/microsoft/sqlserver/jdbc/SQLServerBulkCopy$1.class
SHA-256-Digest: 7xDJb9FFymacS5isu872F66l34pBiAvZ5/vXngPEo=

Name: mssql/googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap$Node.class
SHA-256-Digest: LA2AJleTnI2OUiTzXepc080zst/EYVw9YZ07X6tDzDs=

Name: com/microsoft/sqlserver/jdbc/EncryptionKeyInfo.class
SHA-256-Digest: PutVEqTmWpHyGww3GvHnngnx/bEqvksvsm6fniunEE=

Name: com/microsoft/sqlserver/jdbc/SQLServerResource_ko.class
SHA-256-Digest: UnvPxZFKov3mZOWRpzu6iwW4OqjW8V/6KSTRRSTRZxs=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$11.class
SHA-256-Digest: J+W/Y6n8ynLD46K+sQTKM5KQjvHCC28XISgrved7Sbc=

Name: com/microsoft/sqlserver/jdbc/UninterruptableTDSCommand.class
SHA-256-Digest: b5b/bcllIIIG+orFwlog4wTVD9tgg6spokZ6AFy/FCH0=

Name: com/microsoft/sqlserver/jdbc/SQLServerCllobBase.class
SHA-256-Digest: E+zkNuVGRwzaefL+RpuYsowJ7/OLScJo8yYhrbqku0=

Name: com/microsoft/sqlserver/jdbc/SQLServerBulkCommon.class
SHA-256-Digest: VySmdZQaXsFWlbRCsaQNoF3nOlGtzj8hRgzV2gydyk=

Name: com/microsoft/sqlserver/jdbc/JDBCType$Category.class
SHA-256-Digest: jbPS1I4V167BAPBZ8hpy4LxmDbzQW6YzWk6v/jcqaQ0=

Name: microsoft/sql/DateTimeOffset.class
SHA-256-Digest: FeAoX9zEDsc+OugG36A6qBwHs/io1N0EGY0EU6cxcc=

Name: com/microsoft/sqlserver/jdbc/TDSChannel$HostNameOverrideX509TrustManager.class
SHA-256-Digest: PgNjCmTbocMScZCK2cjD4ALcAveBv0WEqOTXntng6Fk=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$13.class
SHA-256-Digest: j962XbdOkyf03hloAyGhy/5GQVGRHm25Fwq1ql7wwks=

Name: com/microsoft/sqlserver/jdbc/SQLServerDriverIntProperty.class
SHA-256-Digest: IMPZjcd7qXuKSn/oOiZp42itfCKZ04uslgfuLdgfrE=

Name: com/microsoft/sqlserver/jdbc/Parameter$1.class
SHA-256-Digest: 4+M0826P4jWajlFE1mALNsXd/tF0oCUUJZFE/UZzB08=

Name: com/microsoft/sqlserver/jdbc/SQLServerResult$FetchBuffer$FetchBufferTokenHandler.class
SHA-256-Digest: j34R7ZZM/4Xo04GkfFv0t6gY5EiorxFuB0GrbNkzBg=

Name: com/microsoft/sqlserver/jdbc/SQLServerResult$FetchBuffer.class
SHA-256-Digest: v2sggpyd/DxbQ+BycOLBEf5P1fP2ukEcTkp/2/mUkTw=

Name: com/microsoft/sqlserver/jdbc/JDBCSyntaxTranslator$State.class
SHA-256-Digest: LUVjnsf6Tn6eqFwgtXA+4f6RgRMTUp7gLrA//acd90Nk=

Name: com/microsoft/sqlserver/jdbc/SQLServerEncryptionAlgorithm.class
SHA-256-Digest: Pld64HT0phIE6Am75yY16XEG9GmQQ2bQ+wb8w/K9608=

Name: mssql/googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap
$DrainStatus$3.class
SHA-256-Digest: 3Q2d1JHOOk26lGwWmth1Xq0vofEHHfwB1fREs65dpPS1=

Name: com/microsoft/sqlserver/jdbc/SQLServerEncryptionType.class
SHA-256-Digest: 2NltDniUp/HbRUXlcLJBNKNDXBo3u5zn1wqKWWYIPLi=

Name: com/microsoft/sqlserver/jdbc/SQLServerConnection$FederatedAuthenticationFeatureExtensionData.class
SHA-256-Digest: pxA6rpLbBBnYsEN3NjIE3cSS9p+vy4CGG7SSSS298dU=

Name: com/microsoft/sqlserver/jdbc/SQLServerConnectionPoolDataSource.class
SHA-256-Digest: i7BalOx3YGkxY/Wb2utwPjq7GaJEihNtj5RKMPOw=

Name: com/microsoft/sqlserver/jdbc/CertificateDetails.class
SHA-256-Digest: uQYvupG96hoaU0LktOPJStwiE74KQzk4maeVjno0ws=

Name: com/microsoft/sqlserver/jdbc/SQLServerDriverStringProperty.class
SHA-256-Digest: 5R+nyJohp2sihPNmaoiirR3vIrKj8bPavlfq/5SSLc=

Name: com/microsoft/sqlserver/jdbc/TypeInfo$Builder$3.class
SHA-256-Digest: cn+SCPH2ocmjJeuxxb+DGldWeXlpm+TbMwATszDaPYY=

Name: com/microsoft/sqlserver/jdbc/SQLServerXADataSource$SerializationProxy.class
SHA-256-Digest: zPLbHok5a4vY58/SXJ4ngQLSBWKOx1u3iV587+vsJqE=

Name: com/microsoft/sqlserver/jdbc/SQLServerEncryptionAlgorithmFactory.class
SHA-256-Digest: 4ZII95wr6NYiPDclvIHISIIOK7o07/imjz8FiFtPYY=

Name: com/microsoft/sqlserver/jdbc/TDSParser.class
SHA-256-Digest: vBFp+e0oh+N9iS8e7GoWBT2/bjiDpgPEnCS1xFk15w4=

Name: com/microsoft/sqlserver/jdbc/SQLState.class
SHA-256-Digest: ZORtjIIIV+N+6x6m/Abd2qxKxy6APB5ntczBM2pDnMLDU=

Name: com/microsoft/sqlserver/jdbc/ActivityCorrelator.class
SHA-256-Digest: 8kYwyXY6+o9LDa1ZNE7i5J4BOHr/Mk5FISP1C1SBl=

Name: com/microsoft/sqlserver/jdbc/GregorianChange.class
SHA-256-Digest: Yw3degHTKfFqFYXnQiXTit41/EfFntMgaVyHFP5iaf8=

Name: com/microsoft/sqlserver/jdbc/ParsedSQLCacheItem.class
SHA-256-Digest: 6azB4YiOBtfamqMx9un/MxptvquhpPx/WzMSTb0kYQ=

Name: com/microsoft/sqlserver/jdbc/Point.class
SHA-256-Digest: sWESMOxt8NdODiJLVBBvHlxBV2poeon+3SmKhYTy+oQ=
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SHA-256-Digest: bIZigAwfmaa1sMN/iaHco05cFvNdTy1nZsbHmXzWUs=

Name: com/microsoft/sqlserver/jdbc/KeyStoreAuthentication.class
SHA-256-Digest: PpRSLPmnycPbPBzhi1WQFWvvsxCGEehARgGvjtKY=

Name: mssql/googlecode/concurrentlinkedhashmap.ConcurrentLinkedHashMap$RemovalTask.class
SHA-256-Digest: hrXZpEGXIGPKwSrYyqGuzr1s35mYYsG4tqGUZubjZ98=

Name: com/microsoft/sqlserver/jdbc/ISQLServerResultMetaSetMetaData.class
SHA-256-Digest: DaM0ZsuenmKm4rug8faKFvQyLvtuqNhDiQ90Nqah7jQ=

Name: com/microsoft/sqlserver/jdbc/BaseInputStream.class
SHA-256-Digest: /2BjnTpnrAQ0ME94SuJcwOMBej1LY8CwJQYsIlFCTs=

Name: com/microsoft/sqlserver/jdbc/SQLServerResultMetaSetMetaData$1.class
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Name: com/microsoft/sqlserver/jdbc/dataclassification/SensitivityClass$ification.class
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Name: com/microsoft/sqlserver/jdbc/SQLServerStatement$1NextResult.class
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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 35747
Name: com/microsoft/sqlserver/jdbc/SQLServerBulkCopyOptions.class
SHA-256-Digest: wj+5qO7qwIF7MBOpaoaccLepWR9NnWMKQMhNmnROS6PQ=

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Name: com/microsoft/sqlserver/jdbc/SQLServerSymmetricKeyCache$1.class
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Name: com/microsoft/sqlserver/jdbc/SQLServerClob.class
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* /opt/cola/permits/1229306456_1640809786.49/0/mssql-jdbc-7.0.0-jre8-jar/META-INF/MANIFEST.MF

1.3678 zlib 1.2.11
1.3678.1 Available under license:

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5.10.2

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1.3688 wso2-carbon-tenant-theme-mgt 4.6.15

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** Overrides binding confidentiality. */
/**
* Returns confidentiality override flag.
* @return true iff the encoder cannot provide confidentiality
*/
/**
* Sets confidentiality override flag.
* @param flag override flag
*/

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1.3695 corednscoredns 1.8.0
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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 36082

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- org.wso2.carbon.mashup.utils_4.2.0.jar
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- org.wso2.carbon.mediation.configadmin_4.6.103.jar
- org.wso2.carbon.mediation.dependency.mgt_4.6.103.jar
- org.wso2.carbon.mediation.initializer.ui_4.6.103.jar
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- org.wso2.carbon.mediation.message.processor_4.6.103.jar
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package org.eclipse.aether.util.repository;

import org.eclipse.aether.RepositorySystemSession;
import org.eclipse.aether.artifact.Artifact;
import org.eclipse.aether.metadata.Metadata;
import org.eclipse.aether.resolution.ResolutionErrorPolicy;
import org.eclipse.aether.resolution.ResolutionErrorPolicyRequest;

/**
 * A resolution error policy that allows to control caching for artifacts and metadata at a global level.
 */
public final class SimpleResolutionErrorPolicy
    implements ResolutionErrorPolicy
{

    private final int artifactPolicy;
    private final int metadataPolicy;

    /**
     * Creates a new error policy with the specified behavior for both artifacts and metadata.
     * @param cacheNotFound {@code true} to enable caching of missing items, {@code false} to disable it.
     * @param cacheTransferErrors {@code true} to enable caching of transfer errors, {@code false} to disable it.
     */
    public SimpleResolutionErrorPolicy( boolean cacheNotFound, boolean cacheTransferErrors )
    {
        this( ( cacheNotFound ? CACHE_NOT_FOUND : 0 ) | ( cacheTransferErrors ? CACHE_TRANSFER_ERROR : 0 ) );
    }

    /**
     * Creates a new error policy with the specified bit mask for both artifacts and metadata.
     * @param policy The bit mask describing the policy for artifacts and metadata.
     */
    public SimpleResolutionErrorPolicy( int policy )
    {
        this( policy, policy );
    }

    /**
     * Creates a new error policy with the specified bit masks for artifacts and metadata.
     * @param artifactPolicy The bit mask describing the policy for artifacts.
     * @param metadataPolicy The bit mask describing the policy for metadata.
     */
    public SimpleResolutionErrorPolicy( int artifactPolicy, int metadataPolicy )
    {
        this.artifactPolicy = artifactPolicy;
        this.metadataPolicy = metadataPolicy;
    }
public int getArtifactPolicy(RepositorySystemSession session, ResolutionErrorPolicyRequest<Artifact> request) {
    return artifactPolicy;
}

public int getMetadataPolicy(RepositorySystemSession session, ResolutionErrorPolicyRequest<Metadata> request) {
    return metadataPolicy;
}

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*******************************************************************************/
package org.eclipse.aether.util.repository;

import org.eclipse.aether.RepositorySystemSession;
import org.eclipse.aether.resolution.ArtifactDescriptorPolicy;
import org.eclipse.aether.resolution.ArtifactDescriptorPolicyRequest;

/**
 * An artifact descriptor error policy that allows to control error handling at a global level.
 */
public final class SimpleArtifactDescriptorPolicy implements ArtifactDescriptorPolicy {
    private final int policy;

    /**
     * Creates a new error policy with the specified behavior.
     *
     * @param ignoreMissing [true] to ignore missing descriptors, [false] to fail resolution.
     * @param ignoreInvalid [true] to ignore invalid descriptors, [false] to fail resolution.
     */
    public SimpleArtifactDescriptorPolicy(boolean ignoreMissing, boolean ignoreInvalid) {
        this((ignoreMissing ? IGNORE_MISSING : 0) | (ignoreInvalid ? IGNORE_INVALID : 0));
    }
}
/**
 * Creates a new error policy with the specified bit mask.
 * 
 * @param policy The bit mask describing the policy.
 */
 public SimpleArtifactDescriptorPolicy( int policy )
 {
     this.policy = policy;
 }

 public int getPolicy( RepositorySystemSession session, ArtifactDescriptorPolicyRequest request )
 {
     return policy;
 }

1.3705 fontconfig 2.11.0-6.7

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Clockwork - a scheduler process to replace cron

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Example
-------

Create schedule.rb:

```ruby
require 'clockwork'
include Clockwork

every('10s') { puts 'every 10 seconds' }
every('3m') { puts 'every 3 minutes' }
every('1h') { puts 'once an hour' }
every('1d', :at => '00:00') { puts 'every night at midnight' }
```

Run it with the clockwork binary:

```bash
$ clockwork schedule.rb
```

Or run directly with Ruby:

```bash
$ ruby -r schedule -e Clockwork.run
```

Use with queueing

Clockwork only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as...
[Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job),
[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/),
or
[Resque](http://github.com/blog/542-introducing-resque). This design allows
a simple scheduler process with no locks, but also offers near infinite
horizontal scalability.

For example, if you're using Beanstalk/Staker:

```ruby
require 'clockwork'
include Clockwork

require 'stalker'
include Stalker

every('1h') { enqueue('feeds.refresh') }
every('1d', :at => '01:30') { enqueue('reminders.send') }
```

Using a queueing system which doesn't require that your full application be loaded is preferable, because the scheduler process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application enviroment. For example, with DJ/Rails:

```ruby
require 'config/boot'
require 'config/environment'
require 'clockwork'
include Clockwork

every('1h') { Feed.send_later(:refresh) }
every('1d', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

In production
-------------

Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

- Machine 1: 3 web (thin start), 3 workers (rake jobs:work), 1 scheduler (clockwork schedule.rb)
- Machine 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your scheduler process running the same way you keep your web and workers running.

Meta
Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [resque-scheduler](http://github.com/bvandenbos/resque-scheduler)

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http://github.com/adamwiggins/clockwork

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1.3707 githubcomgoopenapiruntim 0.19.15

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain.jetty-schemas

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Assorted

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1.3723 jackson-xc 2.4.5

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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  * /opt/cola/permits/1274552229_1645214592.67/0/kafka-oauth-server-0-8-1-sources-jar/io/strimzi/kafka/oauth/server/OAuthKafkaPrincipal.java
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* /opt/cola/permits/1274552229_1645214592.67/0/kafka-oauth-server-0-8-1-sources-jar/io/strimzi/kafka/oauth/server/OAuthSessionAuthorizer.java
* /opt/cola/permits/1274552229_1645214592.67/0/kafka-oauth-server-0-8-1-sources-jar/io/strimzi/kafka/oauth/server/OAuthKafkaPrincipalBuilder.java

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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This package was debianized by Jay Berkenbilt <qjb@debian.org> on August 5, 2005.
The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on Tue, 17 Mar 2015.

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1.3729 maven-surefire-common 2.12.4

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must


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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion of derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanying the executable.

It may happen that this requirement contradicts the licensor restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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  `88. 8' 888   d8'  `888b `YbodP’ o888o  o888o o88888o
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The following is additional information from Mark Adamson on how this license is to be interpreted:

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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

Hi Stephen,

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-Mark
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---
After discussing this license with the OpenLDAP Foundation we received clarification on it:
---

* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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The Foundation sees no reason for it to expend its limited resources seeking clarifications which it believes are unnecessary. You are, of course, welcomed to expend time and energy seeking clarifications you think are necessary. I suggest you contact University's general counsel office (http://www.umich.edu/~vpgc/).

Regards, Kurt

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1.3741 cloud-google-com-go 0.56.0

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {

if err != nil {
    return err
}

if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasPrefix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
})
if err != nil {
    t.Fatal(err)
}

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1.3743 jaeger-client 1.6.0

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* /opt/cola/permits/1177915105_1625543467.81/0/jaeger-client-1-6-0-sources-jar/io/jaegertracing/client/Version.java

1.3744 json-path 0.9.1
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Manifest-Version: 1.0
Bnd-LastModified: 1382637933453
Build-Jdk: 1.7.0_17
Built-By: kalle
Bundle-Description: Java JsonPath implementation
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: json-path
Bundle-SymbolicName: com.jayway.jsonpath.json-path
Bundle-Version: 0.9.1
Created-By: Apache Maven Bundle Plugin
Export-Package: com.jayway.jsonpath;uses:="com.jayway.jsonpath.spi.org.s
If4j";version="0.9.1",com.jayway.jsonpath.spi;uses:="com.jayway.jsonpat h";version="0.9.1"
Import-Package: net.minidev.json;version="[1.2,2)",net.minidev.json.pars er;version="[1.2,2)",org.codehaus.jackson;version="[1.9,2)";resolution: =optional,org.codehaus.jackson.map;version="[1.9,2)";resolution:=option al,org.codehaus.jackson.map.type;version="[1.9,2)";resolution:=optional ,org.codehaus.jackson.type;version="[1.9,2)";resolution:=optional,org.s If4j;version="[1.7,2)"
Tool: Bnd-1.50.0

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* /opt/cola/permits/1151708433_1617966812.11/0/json-path-0-9-1-2-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1151708433_1617966812.11/0/json-path-0-9-1-2-jar/META-INF/maven/com.jayway.jsonpath/json-path/pom.xml
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Metadata-Version: 1.1
Name: idna
Version: 2.5
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

=================================================================
Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5891. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, Unicode IDNA Compatibility Processing. This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (RFC 3490).

Basic functions are simply executed:

```python
# Python 3
>>> import idna
>>> idna.encode(.)
\b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

# Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

Packages
--------

The latest tagged release version is published in the PyPI repository:

```bash
$ pip install idna
```
Alternatively, you can install the package using the bundled setup script:

```
$ python setup.py install
```

This library works with Python 2.6 or later, and Python 3.3 or later.

Usage
-----

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
# Python 3
>>> import idna
>>> idna.encode('.
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```
# Python 2
>>> import idna.codec
>>> print(u'.'.encode('idna'))
xn--80ahd1agd.xn--80akhbyknj4f
>>> print('xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna'))
.
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```
# Python 2
>>> idna.alabel(u")
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)

+--------------------+
| IdnaDecodeFix  |
+--------------------+
As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode(u'Königsgäßchen')
    ...  
    idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
    >>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
    >>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsgsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility

+++++++++++++++++++++++

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Function calls from the Python built-in `encodings.idna` module are mapped to their IDNA 2008 equivalents using the `idna.compat` module. Simply substitute the `import` clause in your code to refer to the new module name.

Exceptions
-------

All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Testing
-------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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-------

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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for
import io, sys
from setuptools import setup

version = "2.5"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': "https://github.com/kjd/idna",
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2.6',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'test_suite': 'tests',
    }

    setup(**arguments)

    if __name__ == '__main__':
main()

Found in path(s):
* /opt/cola/permits/1133406498_1620110696.99/0/idna-2-5-tar-gz/idna-2.5/setup.py

1.3755 jetty-jmx 9.2.22.v20170606

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1.3756 wso2-carbon-metrics-data-common

1.2.3

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* /opt/cola/permits/1160226219_1620275400.56/0/accessors-smart-2-4-7-sources-jar/net/minidev/asm/BeansAccess.java
* /opt/cola/permits/1160226219_1620275400.56/0/accessors-smart-2-4-7-sources-jar/net/minidev/asm/DynamicClassLoader.java
* /opt/cola/permits/1160226219_1620275400.56/0/accessors-smart-2-4-7-sources-jar/net/minidev/asm/Accessor.java
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MySQL Connector/C++ 8.0

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-------------------------------------------------------------------------

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle
The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.
org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jettyschemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.3778 wso2-carbon-event-output-adapter-email 5.1.42

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1.3779 kubernetes-apimachinery 0.0.0-20191111054156-6eb29fdf75dc

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1.3780 kubernetes 1.21.11

1.3780.1 Available under license:

package types

import "time"

// FeatureType store features types
type FeatureType string

const (
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
    DEV = FeatureType("DEV")
    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID string `json:"arrayUUID,omitempty"
    ClusterID string `json:"clusterID,omitempty"
    CustomerID string `json:"customerID"
    CustomerName string `json:"customerName"
}
Storage int "json:"storage""
ValidUntil time.Time "json:"validUntil"
LicenceType string "json:"licenceType"
Features map[FeatureType]bool "json:"features"
Unregistered bool "json:"unregistered"

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
    Key string "json:"key"
}

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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"
  URL string `json:"url,omitempty"`
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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(" It is replaced by "%v".", n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const (  
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
                        // the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present
                        // in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    all = "all" // show all statuses
)

// The following statuses are used for selecting/filtering notifications
// The following statuses are used to indicate the state of support/deprecation in a given release.

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## Copying Container Files

### Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:/path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

### Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:/path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

```
- `-c <container-name>`
```

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

```
- `<pod-namespace>/<pod-name>:<path>`
```

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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= vendor/github.com/mindprince/gonvml/LICENSE 3b83ef96387f14655fc854ddc3c6bd57
package storageos

import (  
"encoding/json"

"github.com/storageos/go-api/types"
)

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const (  
// licenceAPIPrefix is a partial path to the HTTP endpoint.  
licenceAPIPrefix = "licencing"  
)  

// Licence returns the current licence on the server.  
func (c *Client) Licence() (*types.Licence, error) {  
resp, err := c.do("GET", licenceAPIPrefix, doOptions{})  
if err != nil {  
return nil, err  
}  
defer resp.Body.Close()  
licence := &types.Licence{}  
if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {  
return nil, err  
}  
return licence, nil  
}  

// LicenceApply applies a licence on the server.  
func (c *Client) LicenceApply(licenceKey string) error {  
_, err := c.do("POST", licenceAPIPrefix, doOptions{  
data: &types.LicenceKeyContainer{Key: licenceKey},  
})  
return err  
}  

// LicenceDelete removes the current licence.  
func (c *Client) LicenceDelete() error {  
resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})  
if err != nil {  
return err  
}  
return resp.Body.Close()  
}  

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tomb - support for clean goroutine termination in Go.

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:       "Evaluation Mode",
}
Properties: []types.KeyAnyValue{
                      
                          Key: "feature",
                          Value: types.KeyValue{
                                  Key:   "serialuri:2",
                                  Value: "Remote virtual Serial Port Concentrator",
                          },
                      
                          Key: "feature",
                          Value: types.KeyValue{
                                  Key:   "dvs",
                                  Value: "vSphere Distributed Switch",
                          },
                      }

    type LicenseManager struct {
        mo.LicenseManager
    }

    func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
        m := &LicenseManager{ }
        m.Self = ref
        m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense

            if Map.IsVFX() {
                am := Map.Put(&LicenseAssignmentManager{}).Reference()
                m.LicenseAssignmentManager = &am
            }

            return m
        }

        func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
            body := &methods.AddLicenseBody{
                    Res: &types.AddLicenseResponse{ },
            }

            for _, license := range m.Licenses {
                if license.LicenseKey == req.LicenseKey {
                    body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
                    return body
                }
            }

            m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
LicenseKey: req.LicenseKey,
Labels: req.Labels,
}

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{},
}

for i, license := range m.Licenses { if req.LicenseKey == license.LicenseKey {
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
return body
}
}
return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
body := &methods.UpdateLicenseLabelBody{}

for i := range m.Licenses { license := &m.Licenses[i]

if req.LicenseKey != license.LicenseKey { continue
}

body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels { label := &license.Labels[j]

if label.Key == req.LabelKey { if req.LabelValue == "" {
license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
} else {
label.Value = req.LabelValue
}
return body
}
}
license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type:  "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId:   req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
info.LicenseKey = key
info.Labels = labels

return info
}
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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `:<pod-name>:<path>`

```bash
Copy a remote file from a Pod to a local file.

- Local file format is `\<path>\`
- Remote file format is `\<pod-name>\:\<path>\`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

Specify the Container within a Pod running multiple containers.

- `\-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

Set the Pod namespace by prefixing the Pod name with `\<namespace>\`.

- `\<pod-namespace>\<pod-name>\:\<path>\`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
1.3784 plexus-component-annotations 1.5.5

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**1.3791 j2objc-annotations 1.1**

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:


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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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* cvt - IEEE floating point formatting routines.  
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*/

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }
}
public PermissionCollection newPermissionCollection() {
    return new AllPermissionCollection();
}

public abstract String getActions();

public abstract boolean implies(Permission permission);
}

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* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4
*
* created on: 2005jan16
* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/.c.

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<?xml version="1.0"?>
<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ul>
    <li>Set the metadata of the new text to the metadata of the first character replaced</li>
    <li>If no characters are replaced, use the metadata of the previous character</li>
    <li>If there is no previous character (i.e. start == 0), use the following characters</li>
    <li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
    <li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0
ReplaceableString is an adapter class that implements the Replaceable API around an ordinary StringBuffer.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement Replaceable in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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1.3797 wso2-carbon-event-receiver-stub

5.1.42

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src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
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. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
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--------------------

. The -mdoc macro set, using the BSD license.

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  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
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----------------------

The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

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* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris.

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues.
1.3810 centos-linux 8.4-1.2105.el8
1.3810.1 Available under license:

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One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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1.3843 snappy 0.4

1.3844 javascript-state-machine 3.1.0
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* /opt/cola/permits/1274596154_1645218340.55/0/vertx-auth-common-3-9-1-sources-jar/io/vertx/ext/auth/ChainAuth.java
* /opt/cola/permits/1274596154_1645218340.55/0/vertx-auth-common-3-9-1-sources-jar/io/vertx/ext/auth/HashString.java
* /opt/cola/permits/1274596154_1645218340.55/0/vertx-auth-common-3-9-1-sources-jar/io/vertx/ext/auth/ChainAuthImpl.java
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* /opt/cola/permits/1274596154_1645218340.55/0/vertx-auth-common-3-9-1-sources-jar/io/vertx/ext/auth/AuthProvider.java
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jar/io/vertx/ext/authimpl/AuthProviderInternal.java

1.3846 @babel/traverse 7.18.6

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1.3847 jaggeryjs-hostobjects-stream 0.12.6

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1.3848 libcap-ng 0.7.7-3+b1

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7.18.6

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1.3850 acorn 6.4.2

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1.3851 cifs-utils 6.9-r0

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1.3852 ext-list 2.2.2

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1.3854 x-text 0.3.0

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1.3856 aproba 2.0.0

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1.3857 unset-value 1.0.0

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1.3859 libcap-ng 0.7.9 2

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modififications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.3870 go-msgpack 0.5.3

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1.3872 go-autorest-logging 0.2.0

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1.3879 netty-codec 4.1.62.Final
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Manifest-Version: 1.0
Implementation-Title: Netty/Codec
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.codec
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec
Implementation-Version: 4.1.62.Final
Built-By: norman
Bnd-LastModified: 1617128255368
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.google.protobuf;version="[2.6,3)";resolution=opti
onal,com.google.protobuf.nano;resolution=optional,com.jcraft.jzlib;r
esolution=optional,com.ning.compress;version="[1.0,2)";resolution=opti
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com.ning.compress.lz4.util;version="[1.0,2)";resolution=optional,io.
netty.buffer;version="[4.1,5)";io.netty.channel;version="[4.1,5)";io.
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# This is the official list of people who can contribute
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# The agreement for individuals can be filled out on the web.
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# Names should be added to this file like so:
# Individual's name <submission email address>
# Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
#
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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@subheading END OF TERMS AND CONDITIONS

@page
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```
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@end smallexample

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@end example

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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1.3898 which-module 2.0.0

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1.3899 fake-gcs-server 1.7.0

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1.3900 perl-interpreter 5.26.3-420.el8

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/opt/cola/permits/1302210582_1657901079.579121/0/perl-interpreter-5-26-3-420-el8-x86-64-rpm-zip/perl-interpreter-5.26.3-420.el8.x86_64.rpm: binary file matches

Found in path(s):
* /bin/grep

1.3901 postgresql-11-pgextwlist 1.11-4.pgdg100+1

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: pgextwlist
Source: https://github.com/dimitri/pgextwlist

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1.3902 xerces-j 2.8.1

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   * /opt/cola/permits/1124983266_1611221501.99/0/xercesimpl-2-8-1-
   jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties

1.3903 etcd 0.5.0-alpha.5.0.20200218102753-4258cdd2efdf

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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import (
    "encoding/json"
    "testing"

    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {

    const licenseYAML = "name: the name
url: the url"

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }
}

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package spec

import {
    "encoding/json"
    "github.com/go-openapi/swag"
}

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object

type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

1.3911 gpgme 1.13.1-9.el8
1.3911.1 Available under license:
  hkp4py
  requests
  \input texinfo  @c -*- texinfo -*-
  @c %**start of header
  @setfilename what-was-new.info
  @settitle What Was New in the GPGME Python Bindings and Documentation
  @documentencoding utf-8
  @documentlanguage en
  @c %**end of header

  @finalout
  @titlepage
  @title What Was New in the GPGME Python Bindings and Documentation
  @author Ben McGinnes
  @end titlepage

  @contents

  @ifnottex
  @node Top
  @top What Was New in the GPGME Python Bindings and Documentation
  @end ifnottex

  @menu
  * What Was New::

  @detailmenu
  --- The Detailed Node Listing ---

  What Was New

  * What Was New in GPGME 1120::
What Was New in GPGME 1120

* New in GPGME 1120::

The following are all the past *What's New* sections for the Python Bindings HOWTO and other documentation.

The most obviously new point for those reading this guide is this section on other new things, but that's hardly important. Not given all the other things which spurred the need for adding this section and its subsections.
There have been quite a number of additions to GPGME and the Python bindings to it since the last release of GPGME with versions 1.11.0 and 1.11.1 in April, 2018.

The bullet points of new additions are:

@itemize
@item
an expanded section on @uref{gpgme-python-howto#installation, installing} and @uref{gpgme-python-howto#snafu, troubleshooting} the Python bindings.
@item
The release of Python 3.7.0; which appears to be working just fine with our bindings, in spite of intermittent reports of problems for many other Python projects with that new release.
@item
Python 3.7 has been moved to the head of the specified python versions list in the build process.
@item
In order to fix some other issues, there are certain underlying functions which are more exposed through the @uref{gpgme-python-howto#howto-get-context, gpg.Context()}, but ongoing documentation ought to clarify that or otherwise provide the best means of using the bindings. Some additions to @samp{gpg.core} and the @samp{Context()}, however, were intended (see below).
@item
Continuing work in identifying and confirming the cause of oft-reported @uref{gpgme-python-howto#snafu-runtime-not-funtime, problems installing the Python bindings on Windows}.
@item
GSOC: Google's Surreptitiously Ordered Conscription @dots{} erm @dots{} oh, right; Google's Summer of Code. Though there were two hopeful candidates this year; only one ended up involved with the GnuPG Project directly, the other concentrated on an unrelated third party project with closer ties to one of the GNU/Linux distributions than to the GnuPG Project. Thus the Python bindings benefited from GSOC participant Jacob Adams, who added the key@math{import} function; building on prior work by Tobias Mueller.
@item
Several new methods functions were added to the gpg.Context(), including: @uref{gpgme-python-howto#howto-import-key, key@math{import}}, @uref{gpgme-python-howto#howto-export-key, key@math{export}}, @uref{gpgme-python-howto#howto-export-public-key, key@math{export}@math{minimal}} and @uref{gpgme-python-howto#howto-export-secret-key, key@math{export}@math{secret}}.
@item
Importing and exporting examples include versions integrated with Marcel Fest's recently released @uref{https://github.com/Selfnet/hkp4py, HKP for Python} module. Some @uref{gpgme-python-howto#hkp4py, additional notes on this module} are included at the end of the HOWTO.
Instructions for dealing with semi-walled garden implementations like ProtonMail are also included. This is intended to make things a little easier when communicating with users of ProtonMail’s services and should not be construed as an endorsement of said service. The GnuPG Project neither favours, nor disfavours ProtonMail and the majority of this deals with interacting with the ProtonMail keyservers.

- Semi-formalised the location where draft versions of this HOWTO may periodically be accessible. This is both for the reference of others and testing the publishing of the document itself. Renamed this file at around the same time.

- The Texinfo documentation build configuration has been replicated from the parent project in order to make to maintain consistency with that project (and actually ship with each release).

- A reStructuredText version is also generated for Python developers more used to and comfortable with that format as it is the standard Python documentation format and Python developers may wish to use it with Sphinx. Please note that there has been no testing of the reStructuredText version with Sphinx at all. The reST file was generated by the simple expedient of using Pandoc.

- Added a new section for advanced or experimental use.

- Began the advanced use cases with a section on using the module with Cython.

- Added a number of new scripts to the directory; some of which may be in advance of their planned sections of the HOWTO (and some are just there because it seemed like a good idea at the time).

- Cleaned up a lot of things under the hood.

This is gpgme.info, produced by makeinfo version 6.3 from gpgme.texi.

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INFO-DIR-SECTION GNU Libraries
START-INFO-DIR-ENTRY
* GPGME: (gpgme). Adding support for cryptography to your program.
END-INFO-DIR-ENTRY

This file documents the GPGME library.


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File: gpgme.info, Node: Top, Next: Introduction, Up: (dir)

Main Menu
*********


* Menu:

* Introduction:: How to use this manual.
* Preparation:: What you should do before using the library.
* Protocols and Engines:: Supported crypto protocols.
* Algorithms:: Supported algorithms.
* Error Handling:: Error numbers and their meanings.
* Exchanging Data:: Passing data to and from GPGME.
* Contexts:: Handling GPGME contexts.
Appendices

* Debugging:: How to solve problems.
* Deprecated Functions:: Documentation of deprecated functions.

* Library Copying:: The GNU Lesser General Public License says how you can copy and share GnuPG Made Easy.
* Copying:: The GNU General Public License says how you can copy and share this manual.

Indices

* Concept Index:: Index of concepts and programs.
* Function and Data Index:: Index of functions, variables and data types.

The Detailed Node Listing

Introduction

* Getting Started:: Purpose of the manual, and how to use it.
* Features:: Reasons to install and use GPGME.
* Overview:: Basic architecture of the GPGME library.

Preparation

* Header:: What header file you need to include.
* Building the Source:: Compiler options to be used.
* Largefile Support (LFS):: How to use GPGME with LFS.
* Using Automake:: Compiler options to be used the easy way.
* Using Libtool:: Avoiding compiler options entirely.
* Library Version Check:: Getting and verifying the library version.
* Signal Handling:: How GPGME affects signal handling.
* Multi-Threading:: How GPGME can be used in an MT environment.

Protocols and Engines

* Engine Version Check:: Verifying the engine version.
* Engine Information:: Obtaining more information about the engines.
* Engine Configuration:: Changing the engine configuration.
* OpenPGP:: Support for the OpenPGP protocol.
* Cryptographic Message Syntax:: Support for the CMS.

Algorithms

* Public Key Algorithms:: A list of all public key algorithms.
* Hash Algorithms:: A list of all hash algorithms.
Error Handling

* Error Values:: The error value and what it means.
* Error Codes:: A list of important error codes.
* Error Sources:: A list of important error sources.
* Error Strings:: How to get a descriptive string from a value.

Exchanging Data

* Creating Data Buffers:: Creating new data buffers.
* Destroying Data Buffers:: Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.

Creating Data Buffers

* Memory Based Data Buffers:: Creating memory based data buffers.
* File Based Data Buffers:: Creating file based data buffers.
* Callback Based Data Buffers:: Creating callback based data buffers.

Manipulating Data Buffers

* Data Buffer I/O Operations:: I/O operations on data buffers.
* Data Buffer Meta-Data:: Meta-data manipulation of data buffers.
* Data Buffer Convenience:: Convenience function for data buffers.

Contexts

* Creating Contexts:: Creating new GPGME contexts.
* Destroying Contexts:: Releasing GPGME contexts.
* Result Management:: Managing the result of crypto operations.
* Context Attributes:: Setting properties of a context.
* Key Management:: Managing keys with GPGME.
* Trust Item Management:: Managing trust items with GPGME.
* Crypto Operations:: Using a context for cryptography.
* Miscellaneous:: Miscellaneous operations.
* Run Control:: Controlling how operations are run.

Context Attributes

* Protocol Selection:: Selecting the protocol used by a context.
* Crypto Engine:: Configuring the crypto engine.
* Setting the Sender:: How to tell the engine the sender.
* ASCII Armor:: Requesting ASCII armored output.
* Text Mode:: Choosing canonical text mode.
* Offline Mode:: Choosing offline mode.
* Included Certificates:: Including a number of certificates.
* Key Listing Mode:: Selecting key listing mode.
* Passphrase Callback:: Getting the passphrase from the user.
* Progress Meter Callback:: Being informed about the progress.
* Status Message Callback:: Status messages received from gpg.
* Locale:: Setting the locale of a context.

Key Management

* Key objects:: Description of the key structures.
* Listing Keys:: Browsing the list of available keys.
* Information About Keys:: Requesting detailed information about keys.
* Manipulating Keys:: Operations on keys.
* Generating Keys:: Creating new key pairs.
* Signing Keys:: Adding key signatures to public keys.
* Exporting Keys:: Retrieving key data from the key ring.
* Importing Keys:: Adding keys to the key ring.
* Deleting Keys:: Removing keys from the key ring.
* Changing Passphrases:: Change the passphrase of a key.
* Changing TOFU Data:: Changing data pertaining to TOFU.
* Advanced Key Editing:: Advanced key edit operation.

Trust Item Management

* Listing Trust Items:: Browsing the list of available trust items.
* Manipulating Trust Items:: Operations on trust items.

Crypto Operations

* Decrypt:: Decrypting a ciphertext.
* Verify:: Verifying a signature.
* Decrypt and Verify:: Decrypting a signed ciphertext.
* Sign:: Creating a signature.
* Encrypt:: Encrypting a plaintext.

Sign

* Selecting Signers:: How to choose the keys to sign with.
* Creating a Signature:: How to create a signature.
* Signature Notation Data:: How to add notation data to a signature.

Encrypt

* Encrypting a Plaintext:: How to encrypt a plaintext.

Miscellaneous

* Running other Programs:: Running other Programs.
* Using the Assuan protocol:: Using the Assuan protocol.
* Checking for updates:: How to check for software updates.
Run Control

* Waiting For Completion:: Waiting until an operation is completed.
* Using External Event Loops:: Advanced control over what happens when.
* Cancellation:: How to end pending operations prematurely.

Using External Event Loops

* I/O Callback Interface:: How I/O callbacks are registered.
* Registering I/O Callbacks:: How to use I/O callbacks for a context.
* I/O Callback Example:: An example how to use I/O callbacks.
* I/O Callback Example GTK+:: How to integrate GPGME in GTK+.
* I/O Callback Example GDK:: How to integrate GPGME in GDK.
* I/O Callback Example Qt:: How to integrate GPGME in Qt.


1 Introduction
**************

GnuPG Made Easy (GPGME) is a C language library that allows to add support for cryptography to a program. It is designed to make access to public key crypto engines like GnuPG or GpgSM easier for applications. GPGME provides a high-level crypto API for encryption, decryption, signing, signature verification and key management.

GPGME uses GnuPG and GpgSM as its backends to support OpenPGP and the Cryptographic Message Syntax (CMS).

* Menu:

* Getting Started:: Purpose of the manual, and how to use it.
* Features:: Reasons to install and use GPGME.
* Overview:: Basic architecture of the GPGME library.


1.1 Getting Started
===================

This manual documents the GPGME library programming interface. All functions and data types provided by the library are explained.

The reader is assumed to possess basic knowledge about cryptography in general, and public key cryptography in particular. The underlying
cryptographic engines that are used by the library are not explained, but where necessary, special features or requirements by an engine are mentioned as far as they are relevant to GPGME or its users.

This manual can be used in several ways. If read from the beginning to the end, it gives a good introduction into the library and how it can be used in an application. Forward references are included where necessary. Later on, the manual can be used as a reference manual to get just the information needed about any particular interface of the library. Experienced programmers might want to start looking at the examples at the end of the manual, and then only read up those parts of the interface which are unclear.

The documentation for the language bindings is currently not included in this manual. Those languages bindings follow the general programming model of GPGME but may provide some extra high level abstraction on top of the GPGME style API. For now please see the README files in the lang/ directory of the source distribution.

1.2 Features
============

GPGME has a couple of advantages over other libraries doing a similar job, and over implementing support for GnuPG or other crypto engines into your application directly.

its free software
   Anybody can use, modify, and redistribute it under the terms of the GNU Lesser General Public License (*note Library Copying:.*).

its flexible
   GPGME provides transparent support for several cryptographic protocols by different engines. Currently, GPGME supports the OpenPGP protocol using GnuPG as the backend, and the Cryptographic Message Syntax using GpgSM as the backend.

its easy
   GPGME hides the differences between the protocols and engines from the programmer behind an easy-to-use interface. This way the programmer can focus on the other parts of the program, and still integrate strong cryptography in his application. Once support for GPGME has been added to a program, it is easy to add support for other crypto protocols once GPGME backends provide them.

its language friendly
GPGME comes with languages bindings for several common programming languages: Common Lisp, C++, Python 2, and Python 3.

1.3 Overview
==============

GPGME provides a data abstraction that is used to pass data to the crypto engine, and receive returned data from it. Data can be read from memory or from files, but it can also be provided by a callback function.

The actual cryptographic operations are always set within a context. A context provides configuration parameters that define the behaviour of all operations performed within it. Only one operation per context is allowed at any time, but when one operation is finished, you can run the next operation in the same context. There can be more than one context, and all can run different operations at the same time.

Furthermore, GPGME has rich key management facilities including listing keys, querying their attributes, generating, importing, exporting and deleting keys, and acquiring information about the trust path.

With some precautions, GPGME can be used in a multi-threaded environment, although it is not completely thread safe and thus needs the support of the application.

2 Preparation
*************

To use GPGME, you have to perform some changes to your sources and the build system. The necessary changes are small and explained in the following sections. At the end of this chapter, it is described how the library is initialized, and how the requirements of the library are verified.

* Menu:

  * Header:: What header file you need to include.
  * Building the Source:: Compiler options to be used.
  * Largefile Support (LFS):: How to use GPGME with LFS.
  * Using Automake:: Compiler options to be used the easy way.
* Using Libtool:: Avoiding compiler options entirely.
* Library Version Check:: Getting and verifying the library version.
* Signal Handling:: How GPGME affects signal handling.
* Multi-Threading:: How GPGME can be used in an MT environment.

File: gpgme.info, Node: Header, Next: Building the Source, Up: Preparation

2.1 Header

All interfaces (data types and functions) of the library are defined in the header file gpgme.h. You must include this in all programs using the library, either directly or through some other header file, like this:

```
#include <gpgme.h>
```

The name space of GPGME is gpgme_* for function names and data types and GPGME_* for other symbols. Symbols internal to GPGME take the form _gpgme_* and _GPGME_*.

Because GPGME makes use of the GPG Error library, using GPGME will also use the GPG_ERR_* name space directly, and the gpg_err*, gpg_str*, and gpgrt_* name space indirectly.


2.2 Building the Source

If you want to compile a source file including the gpgme.h header file, you must make sure that the compiler can find it in the directory hierarchy. This is accomplished by adding the path to the directory in which the header file is located to the compilers include file search path (via the -I option).

However, the path to the include file is determined at the time the source is configured. To solve this problem, gpgme ships with a small helper program gpgme-config that knows about the path to the include file and other configuration options. The options that need to be added to the compiler invocation at compile time are output by the --cflags option to gpgme-config. The following example shows how it can be used at the command line:

```
gcc -c foo.c `gpgme-config --cflags`
```
Adding the output of `gpgme-config --cflags` to the compiler command line will ensure that the compiler can find the GPGME header file.

A similar problem occurs when linking the program with the library. Again, the compiler has to find the library files. For this to work, the path to the library files has to be added to the library search path (via the `-L` option). For this, the option `--libs` to `gpgme-config` can be used. For convenience, this option also outputs all other options that are required to link the program with GPGME (in particular, the `-lgpgme` option). The example shows how to link `foo.o` with the GPGME library to a program `foo`.

```
gcc -o foo foo.o `gpgme-config --libs`
```

Of course you can also combine both examples to a single command by specifying both options to `gpgme-config`:

```
gcc -o foo foo.c `gpgme-config --cflags --libs`
```

If you need to detect the installed language bindings you can use:

```
gpgme-config --print-lang
```

or test for the availability using:

```
gpgme-config --have-lang=python && echo 'Bindings for Python available'
```


2.3 Largefile Support (LFS)

GPGME is compiled with largefile support by default, if it is available on the system. This means that GPGME supports files larger than two gigabyte in size, if the underlying operating system can. On some systems, largefile support is already the default. On such systems, nothing special is required. However, some systems provide only support for files up to two gigabyte in size by default. Support for larger file sizes has to be specifically enabled.

To make a difficult situation even more complex, such systems provide two different types of largefile support. You can either get all relevant functions replaced with alternatives that are largefile capable, or you can get new functions and data types for largefile support added. Those new functions have the same name as their
smallfile counterparts, but with a suffix of 64.

An example: The data type off_t is 32 bit wide on GNU/Linux PC systems. To address offsets in large files, you can either enable largefile support add-on. Then a new data type off64_t is provided, which is 64 bit wide. Or you can replace the existing off_t data type with its 64 bit wide counterpart. All occurrences of off_t are then automatically replaced.

As if matters were not complex enough, there are also two different types of file descriptors in such systems. This is important because if file descriptors are exchanged between programs that use a different maximum file size, certain errors must be produced on some file descriptors to prevent subtle overflow bugs from occurring.

As you can see, supporting two different maximum file sizes at the same time is not at all an easy task. However, the maximum file size does matter for GPGME, because some data types it uses in its interfaces are affected by that. For example, the off_t data type is used in the gpgme_data_seek function, to match its POSIX counterpart. This affects the call-frame of the function, and thus the ABI of the library. Furthermore, file descriptors can be exchanged between GPGME and the application.

For you as the user of the library, this means that your program must be compiled in the same file size mode as the library. Luckily, there is absolutely no valid reason for new programs to not enable largefile support by default and just use that. The compatibility modes (small file sizes or dual mode) can be considered an historic artefact, only useful to allow for a transitional period.

On POSIX platforms GPGME is compiled using largefile support by default. This means that your application must do the same, at least as far as it is relevant for using the gpgme.h header file. All types in this header files refer to their largefile counterparts, if they are different from any default types on the system.

On 32 and 64 bit Windows platforms off_t is declared as 32 bit signed integer. There is no specific support for LFS in the C library. The recommendation from Microsoft is to use the native interface (CreateFile et al.) for large files. Released binary versions of GPGME (libgpgme-11.dll) have always been build with a 32 bit off_t. To avoid an ABI break we stick to this convention for 32 bit Windows by using long there. GPGME versions for 64 bit Windows have never been released and thus we are able to use int64_t instead of off_t there. For easier migration the typedef gpgme_off_t has been defined. The reason we cannot use off_t directly is that some toolchains (e.g. mingw64) introduce a POSIX compatible hack for off_t. Some widely
used toolkits make use of this hack and in turn GPGME would need to use it also. However, this would introduce an ABI break and existing software making use of libgpgme might suffer from a severe break. Thus with version 1.4.2 we redefined all functions using off_t to use gpgme_off_t which is defined as explained above. This way we keep the ABI well defined and independent of any toolchain hacks. The bottom line is that LFS support in GPGME is only available on 64 bit versions of Windows.

On POSIX platforms you can enable largefile support, if it is different from the default on the system the application is compiled on, by using the Autoconf macro AC_SYS_LARGEFILE. If you do this, then you don’t need to worry about anything else: It will just work. In this case you might also want to use AC_FUNC_FSEEKO to take advantage of some new interfaces, and AC_TYPE_OFF_T (just in case).

If you do not use Autoconf, you can define the preprocessor symbol _FILE_OFFSET_BITS to 64 _before_ including any header files, for example by specifying the option -D_FILE_OFFSET_BITS=64 on the compiler command line. You will also want to define the preprocessor symbol LARGEFILE_SOURCE to 1 in this case, to take advantage of some new interfaces.

If you do not want to do either of the above, you probably know enough about the issue to invent your own solution. Just keep in mind that the GPGME header file expects that largefile support is enabled, if it is available. In particular, we do not support dual mode (_LARGEFILE64_SOURCE).

---


2.4 Using Automake

It is much easier if you use GNU Automake instead of writing your own Makefiles. If you do that you do not have to worry about finding and invoking the gpgme-config script at all. GPGME provides an extension to Automake that does all the work for you.

-- Macro: AM_PATH_GPGME ([MINIMUM-VERSION], [ACTION-IF-FOUND], [ACTION-IF-NOT-FOUND])
-- Macro: AM_PATH_GPGME_PTH ([MINIMUM-VERSION], [ACTION-IF-FOUND], [ACTION-IF-NOT-FOUND])
-- Macro: AM_PATH_GPGME_PTHREAD ([MINIMUM-VERSION], [ACTION-IF-FOUND], [ACTION-IF-NOT-FOUND])

Check whether GPGME (at least version MINIMUM-VERSION, if given) exists on the host system. If it is found, execute
ACTION-IF-FOUND, otherwise do ACTION-IF-NOT-FOUND, if given.

Additionally, the function defines GPGME_CFLAGS to the flags needed for compilation of the program to find the gpgme.h header file, and GPGME_LIBS to the linker flags needed to link the program to the GPGME library. If the used helper script does not match the target type you are building for a warning is printed and the string libgcrypt is appended to the variable gpg_config_script_warn.

AM_PATH_GPGME_PTH checks for the version of GPGME that can be used with GNU Pth, and defines GPGME_PTH_CFLAGS and GPGME_PTH_LIBS.

AM_PATH_GPGME_PTHREAD checks for the version of GPGME that can be used with the native pthread implementation, and defines GPGME_PTHREAD_CFLAGS and GPGME_PTHREAD_LIBS. Since version 1.8.0 this is no longer required to GPGME_PTHREAD as GPGME itself is thread safe.

This macro searches for gpgme-config along the PATH. If you are cross-compiling, it is useful to set the environment variable SYSROOT to the top directory of your target. The macro will then first look for the helper program in the bin directory below that top directory. An absolute directory name must be used for SYSROOT. Finally, if the configure command line option --with-gpgme-prefix is used, only its value is used for the top directory below which the helper script is expected.

You can use the defined Autoconf variables like this in your Makefile.am:

\[
\text{AM_CPPFLAGS} = $(GPGME_CFLAGS) \\
\text{LDADD} = $(GPGME_LIBS)
\]


2.5 Using Libtool

The easiest way is to just use GNU Libtool. If you use libtool, and link to libgpgme.la, libgpgme-pth.la or libgpgme-thread.la respectively, everything will be done automatically by Libtool.
2.6 Library Version Check
==================================

-- Function: const char * gpgme_check_version
     (const char *REQUIRED_VERSION)
The function gpgme_check_version has four purposes. It can be
used to retrieve the version number of the library. In addition it
can verify that the version number is higher than a certain
required version number. In either case, the function initializes
some sub-systems, and for this reason alone it must be invoked
early in your program, before you make use of the other functions
in GPGME. The last purpose is to run selftests.

As a side effect for W32 based systems, the socket layer will get
initialized.

If REQUIRED_VERSION is NULL, the function returns a pointer to a
statically allocated string containing the version number of the
library.

If REQUIRED_VERSION is not NULL, it should point to a string
containing a version number, and the function checks that the
version of the library is at least as high as the version number
provided. In this case, the function returns a pointer to a
statically allocated string containing the version number of the
library. If REQUIRED_VERSION is not a valid version number, or if
the version requirement is not met, the function returns NULL.

If you use a version of a library that is backwards compatible with
older releases, but contains additional interfaces which your
program uses, this function provides a run-time check if the
necessary features are provided by the installed version of the
library.

If a selftest fails, the function may still succeed. Selftest
errors are returned later when invoking gpgme_new or
gpgme-data_new, so that a detailed error code can be returned
(historically, gpgme_check_version does not return a detailed
error code).

-- Function: int gpgme_set_global_flag (const char *NAME,
     const char *VALUE)

SINCE: 1.4.0

On some systems it is not easy to set environment variables and
thus hard to use GPGMEs internal trace facility for debugging.
This function has been introduced as an alternative way to enable
debugging and for a couple of other rarely used tweaks. It is important to assure that only one thread accesses GPGME functions between a call to this function and after the return from the call to gpgme_check_version.

All currently supported features require that this function is called as early as possible even before gpgme_check_version. The features are identified by the following values for NAME:

debug
To enable debugging use the string debug for NAME and VALUE identical to the value used with the environment variable GPGME_DEBUG.

disable-gpgconf
Using this feature with any VALUE disables the detection of the gpgconf program and thus forces GPGME to fallback into the simple OpenPGP only mode. It may be used to force the use of GnuPG-1 on systems which have both GPG versions installed. Note that in general the use of gpgme_set_engine_info is a better way to select a specific engine version.

gpgconf-name
gpg-name
Set the name of the gpgconf respective gpg binary. The defaults are GNU/GnuPG/gpgconf and GNU/GnuPG/gpg. Under Unix the leading directory part is ignored. Under Windows the leading directory part is used as the default installation directory; the .exe suffix is added by GPGME. Use forward slashed even under Windows.

require-gnupg
Set the minimum version of the required GnuPG engine. If that version is not met, GPGME fails early instead of trying to use the existent version. The given version must be a string with major, minor, and micro number. Example: "2.1.0".

w32-inst-dir
On Windows GPGME needs to know its installation directory to find its spawn helper. This is in general no problem because a DLL has this information. Some applications however link statically to GPGME and thus GPGME can only figure out the installation directory of this application which may be wrong in certain cases. By supplying an installation directory as value to this flag, GPGME will assume that that directory is the installation directory. This flag has no effect on non-Windows platforms.
This function returns 0 on success. In contrast to other
functions the non-zero return value on failure does not convey any
error code. For setting debug the only possible error cause is
an out of memory condition; which would exhibit itself later
anyway. Thus the return value may be ignored.

After initializing GPGME, you should set the locale information to
the locale required for your output terminal. This locale information
is needed for example for the curses and Gtk pinentry. Here is an
example of a complete initialization:

```c
#include <locale.h>
#include <gpgme.h>

void
init_gpgme (void)
{
    /* Initialize the locale environment. */
    setlocale (LC_ALL, "");
    gpgme_check_version (NULL);
    gpgme_set_locale (NULL, LC_CTYPE, setlocale (LC_CTYPE, NULL));
    #ifdef LC_MESSAGES
    gpgme_set_locale (NULL, LC_MESSAGES, setlocale (LC_MESSAGES, NULL));
    #endif
}
```

Note that you are highly recommended to initialize the locale
settings like this. GPGME can not do this for you because it would not
be thread safe. The conditional on LC_MESSAGES is only necessary for
portability to W32 systems.


### 2.7 Signal Handling

The GPGME library communicates with child processes (the crypto
engines). If a child process dies unexpectedly, for example due to a
bug, or system problem, a SIGPIPE signal will be delivered to the
application. The default action is to abort the program. To protect
against this, gpgme_check_version sets the SIGPIPE signal action to
SIG_IGN, which means that the signal will be ignored.

GPGME will only do that if the signal action for SIGPIPE is
SIG_DEF at the time gpgme_check_version is called. If it is
something different, GPGME will take no action.
This means that if your application does not install any signal handler for SIGPIPE, you don't need to take any precautions. If you do install a signal handler for SIGPIPE, you must be prepared to handle any SIGPIPE events that occur due to GPGME writing to a defunct pipe. Furthermore, if your application is multi-threaded, and you install a signal action for SIGPIPE, you must make sure you do this either before `gpgme_check_version` is called or afterwards.


2.8 Multi-Threading

The GPGME library is mostly thread-safe, and can be used in a multi-threaded environment but there are some requirements for multi-threaded use:

The function `gpgme_check_version` must be called before any other function in the library, because it initializes the thread support subsystem in GPGME. To achieve this in multi-threaded programs, you must synchronize the memory with respect to other threads that also want to use GPGME. For this, it is sufficient to call `gpgme_check_version` before creating the other threads using GPGME(1).

Any `gpgme_data_t` and `gpgme_ctx_t` object must only be accessed by one thread at a time. If multiple threads want to deal with the same object, the caller has to make sure that operations on that object are fully synchronized.

Only one thread at any time is allowed to call `gpgme_wait`. If multiple threads call this function, the caller must make sure that all invocations are fully synchronized. It is safe to start asynchronous operations while a thread is running in `gpgme_wait`.

The function `gpgme_strerror` is not thread safe. You have to use `gpgme_strerror_r` instead.

---------- Footnotes ----------

(1) At least this is true for POSIX threads, as `pthread_create` is a function that synchronizes memory with respect to other threads. There are many functions which have this property, a complete list can be found in POSIX, IEEE Std 1003.1-2003, Base Definitions, Issue 6, in the definition of the term Memory Synchronization. For other thread packages other, more relaxed or more strict rules may apply.
GPGME supports several cryptographic protocols, however, it does not implement them. Rather it uses backends (also called engines) which implement the protocol. GPGME uses inter-process communication to pass data back and forth between the application and the backend, but the details of the communication protocol and invocation of the backend is completely hidden by the interface. All complexity is handled by GPGME. Where an exchange of information between the application and the backend is necessary, GPGME provides the necessary callback function hooks and further interfaces.

-- Data type: enum gpgme_protocol_t
The gpgme_protocol_t type specifies the set of possible protocol values that are supported by GPGME. The following protocols are supported:

GPGME_PROTOCOL_OpenPGP
GPGME_PROTOCOL_OPENPGP
This specifies the OpenPGP protocol.

GPGME_PROTOCOL_CMS
This specifies the Cryptographic Message Syntax.

GPGME_PROTOCOL_GPGCONF
Under development. Please ask on <gnupg-devel@gnupg.org> for help.

GPGME_PROTOCOL_ASSUAN
SINCE: 1.2.0
This specifies the raw Assuan protocol.

GPGME_PROTOCOL_G13
SINCE: 1.3.0
Under development. Please ask on <gnupg-devel@gnupg.org> for help.

GPGME_PROTOCOL_UISERVER
Under development. Please ask on <gnupg-devel@gnupg.org> for help.

GPGME_PROTOCOL_SPAWN
Special protocol for use with gpgme_op_spawn.

**GPGME_PROTOCOL_UNKNOWN**
Reserved for future extension. You may use this to indicate that the used protocol is not known to the application. Currently, GPGME does not accept this value in any operation, though, except for gpgme_get_protocol_name.

```c
-- Function: const char * gpgme_get_protocol_name
    (gpgme_protocol_t PROTOCOL)

The function gpgme_get_protocol_name returns a statically allocated string describing the protocol PROTOCOL, or NULL if the protocol number is not valid.
```

* Menu:

* Engine Version Check:: Verifying the engine version.
* Engine Information:: Obtaining more information about the engines.
* Engine Configuration:: Changing the engine configuration.
* OpenPGP:: Support for the OpenPGP protocol.
* Cryptographic Message Syntax:: Support for the CMS.
* Assuan:: Support for the raw Assuan protocol.


3.1 Engine Version Check

```
-- Function: const char * gpgme_get_dirinfo (const char *WHAT)
    SINCE: 1.5.0

The function gpgme_get_dirinfo returns a statically allocated string with the value associated to WHAT. The returned values are the defaults and wont change even after gpgme_set_engine_info has been used to configure a different engine. NULL is returned if no value is available. Commonly supported values for WHAT are:

<table>
<thead>
<tr>
<th>WHAT</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>homedir</td>
<td>Return the default home directory.</td>
</tr>
<tr>
<td>sysconfdir</td>
<td>Return the name of the system configuration directory</td>
</tr>
<tr>
<td>bindir</td>
<td>Return the name of the directory with GnuPG program files.</td>
</tr>
</tbody>
</table>
```
libdir
 Return the name of the directory with GnuPG related library files.

libexecdir
 Return the name of the directory with GnuPG helper program files.

datadir
 Return the name of the directory with GnuPG shared data.

localedir
 Return the name of the directory with GnuPG locale data.

agent-socket
 Return the name of the socket to connect to the gpg-agent.

agent-ssh-socket
 Return the name of the socket to connect to the ssh-agent component of gpg-agent.

dirmngr-socket
 Return the name of the socket to connect to the dirmngr.

uiserver-socket
 Return the name of the socket to connect to the user interface server.

gpgconf-name
 Return the file name of the engine configuration tool.

gpg-name
 Return the file name of the OpenPGP engine.

gpgsm-name
 Return the file name of the CMS engine.

g13-name
 Return the name of the file container encryption engine.

gpg-wks-client-name
 Return the name of the Web Key Service tool.

-- Function: gpgme_error_t gpgme_engine_check_version
 (gpgme_protocol_t PROTOCOL)
 The function gpgme_engine_check_version verifies that the engine implementing the protocol PROTOCOL is installed in the expected
This function returns the error code GPG_ERR_NO_ERROR if the engine is available and GPG_ERR_INV_ENGINE if it is not.


3.2 Engine Information

-- Data type: gpgme_engine_info_t

The gpgme_engine_info_t type specifies a pointer to a structure describing a crypto engine. The structure contains the following elements:

gpgme_engine_info_t next
This is a pointer to the next engine info structure in the linked list, or NULL if this is the last element.

gpgme_protocol_t protocol
This is the protocol for which the crypto engine is used. You can convert this to a string with gpgme_get_protocol_name for printing.

const char *file_name
This is a string holding the file name of the executable of the crypto engine. Currently, it is never NULL, but using NULL is reserved for future use, so always check before you use it.

const char *home_dir
This is a string holding the directory name of the crypto engines configuration directory. If it is NULL, then the default directory is used. See gpgme_get_dirinfo on how to get the default directory.

const char *version
This is a string containing the version number of the crypto engine. It might be NULL if the version number can not be determined, for example because the executable doesn't exist or is invalid.

const char *req_version
This is a string containing the minimum required version number of the crypto engine for GPGME to work correctly. This is the version number that gpgme_engine_check_version
verifies against. Currently, it is never NULL, but using NULL is reserved for future use, so always check before you use it.

-- Function: gpgme_error_t gpgme_get_engine_info
        (gpgme_engine_info_t *INFO)

    The function gpgme_get_engine_info returns a linked list of engine info structures in INFO. Each info structure describes the defaults of one configured backend.

    The memory for the info structures is allocated the first time this function is invoked, and must not be freed by the caller.

    This function returns the error code GPG_ERR_NO_ERROR if successful, and a system error if the memory could not be allocated.

    Here is an example how you can provide more diagnostics if you receive an error message which indicates that the crypto engine is invalid.

    gpgme_ctx_t ctx;
    gpgme_error_t err;

    [...]}

if (gpgme_err_code (err) == GPG_ERR_INV_ENGINE)
{
    gpgme_engine_info_t info;
    err = gpgme_get_engine_info (&info);
    if (!err)
    {
        while (info && info->protocol != gpgme_get_protocol (ctx))
            info = info->next;
        if (!info)
            fprintf (stderr, "GPGME compiled without support for protocol %s",
                            gpgme_get_protocol_name (info->protocol));
        else if (info->file_name && !info->version)
            fprintf (stderr, "Engine %s not installed properly",
                                info->file_name);
        else if (info->file_name && info->version && info->req_version)
            fprintf (stderr, "Engine %s version %s installed, "
                              "but at least version %s required", info->file_name,
                                info->version, info->req_version);
        else
            fprintf (stderr, "Unknown problem with engine for protocol %s",
                                gpgme_get_protocol_name (info->protocol));
    }
3.3 Engine Configuration

You can change the configuration of a backend engine, and thus change the executable program and configuration directory to be used. You can make these changes the default or set them for some contexts individually.

-- Function: gpgme_error_t gpgme_set_engine_info
     (gpgme_protocol_t PROTO, const char *FILE_NAME,
      const char *HOME_DIR)

SINCE: 1.1.0

The function gpgme_set_engine_info changes the default configuration of the crypto engine implementing the protocol PROTO.

FILE_NAME is the file name of the executable program implementing this protocol, and HOME_DIR is the directory name of the configuration directory for this crypto engine. If HOME_DIR is NULL, the engines default will be used.

The new defaults are not applied to already created GPGME contexts.

This function returns the error code GPG_ERR_NO_ERROR if successful, or an error code on failure.

The functions gpgme_ctx_get_engine_info and gpgme_ctx_set_engine_info can be used to change the engine configuration per context. *Note Crypto Engine::

3.4 OpenPGP

OpenPGP is implemented by GnuPG, the GNU Privacy Guard. This is the first protocol that was supported by GPGME.

The OpenPGP protocol is specified by GPGME_PROTOCOL_OpenPGP.
3.5 Cryptographic Message Syntax
================================

CMS is implemented by GpgSM, the S/MIME implementation for GnuPG.

The CMS protocol is specified by GPGME_PROTOCOL_CMS.

3.6 Assuan
==========

Assuan is the RPC library used by the various GnuPG components. The Assuan protocol allows one to talk to arbitrary Assuan servers using GPGME. *Note Using the Assuan protocol::.

The ASSUAN protocol is specified by GPGME_PROTOCOL_ASSUAN.

4 Algorithms
*************

The crypto backends support a variety of algorithms used in public key cryptography. (1) The following sections list the identifiers used to denote such an algorithm.

* Menu:

* Public Key Algorithms:: A list of all public key algorithms.
* Hash Algorithms:: A list of all hash algorithms.

-------- Footnotes --------

(1) Some engines also provide symmetric only encryption; see the description of the encryption function on how to use this.
Public key algorithms are used for encryption, decryption, signing and verification of signatures.

-- Data type: enum gpgme_pubkey_algo_t
The gpgme_pubkey_algo_t type specifies the set of all public key algorithms that are supported by GPGME. Possible values are:

GPGME_PK_RSA
This value indicates the RSA (Rivest, Shamir, Adleman) algorithm.

GPGME_PK_RSA_E
Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for encryption and decryption only.

GPGME_PK_RSA_S
Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for signing and verification only.

GPGME_PK_DSA
This value indicates DSA, the Digital Signature Algorithm.

GPGME_PK_ELG
This value indicates ElGamal.

GPGME_PK_ELG_E
This value also indicates ElGamal and is used specifically in GnuPG.

GPGME_PK_ECC
Since: 1.5.0
This value is a generic indicator for elliptic curve algorithms.

GPGME_PK_ECDSA
Since: 1.3.0
This value indicates ECDSA, the Elliptic Curve Digital Signature Algorithm as defined by FIPS 186-2 and RFC-6637.

GPGME_PK_ECDH
Since: 1.3.0
This value indicates ECDH, the Elliptic Curve Diffie-Hellmann encryption algorithm as defined by RFC-6637.
GPGME_PK_EDDSA
SINCE: 1.7.0

This value indicates the EdDSA algorithm.

-- Function: const char * gpgme_pubkey_algo_name
  (gpgme_pubkey_algo_t ALGO)
The function gpgme_pubkey_algo_name returns a pointer to a
statically allocated string containing a description of the public
key algorithm ALGO. This string can be used to output the name of
the public key algorithm to the user.

If ALGO is not a valid public key algorithm, NULL is returned.

-- Function: char * gpgme_pubkey_algo_string (gpgme_subkey_t KEY)
SINCE: 1.7.0

The function gpgme_pubkey_algo_string is a convenience function
to build and return an algorithm string in the same way GnuPG does
(e.g. rsa2048 or ed25519). The caller must free the result
using gpgme_free. On error (e.g. invalid argument or memory
exhausted), the function returns NULL and sets ERRNO.


4.2 Hash Algorithms

Hash (message digest) algorithms are used to compress a long message to
make it suitable for public key cryptography.

-- Data type: enum gpgme_hash_algo_t
The gpgme_hash_algo_t type specifies the set of all hash
algorithms that are supported by GPGME. Possible values are:

GPGME_MD_MD5
GPGME_MD_SHA1
GPGME_MD_RMD160
GPGME_MD_MD2
GPGME_MD_TIGER
GPGME_MD_HAVAL
GPGME_MD_SHA256
GPGME_MD_SHA384
GPGME_MD_SHA512
GPGME_MD_SHA224
SINCE: 1.5.0
-- Function: const char * gpgme_hash_algo_name (gpgme_hash_algo_t ALGO)

The function gpgme_hash_algo_name returns a pointer to a
statically allocated string containing a description of the hash
algorithm ALGO. This string can be used to output the name of the
hash algorithm to the user.

If ALGO is not a valid hash algorithm, NULL is returned.


5 Error Handling

Many functions in GPGME can return an error if they fail. For this
reason, the application should always catch the error condition and take
appropriate measures, for example by releasing the resources and passing
the error up to the caller, or by displaying a descriptive message to
the user and cancelling the operation.

Some error values do not indicate a system error or an error in the
operation, but the result of an operation that failed properly. For
example, if you try to decrypt a tempered message, the decryption will
fail. Another error value actually means that the end of a data buffer
or list has been reached. The following descriptions explain for many
error codes what they mean usually. Some error values have specific
meanings if returned by a certain functions. Such cases are described
in the documentation of those functions.

GPGME uses the libgpg-error library. This allows to share the
error codes with other components of the GnuPG system, and thus pass
error values transparently from the crypto engine, or some helper
application of the crypto engine, to the user. This way no information
is lost. As a consequence, GPGME does not use its own identifiers for
error codes, but uses those provided by libgpg-error. They usually
start with GPG_ERR_.

However, GPGME does provide aliases for the functions defined in
libgpg-error, which might be preferred for name space consistency.

* Menu:

* Error Values:: The error value and what it means.
5.1 Error Values

-- Data type: gpgme_err_code_t
The gpgme_err_code_t type is an alias for the libgpg-error type gpg_err_code_t. The error code indicates the type of an error, or the reason why an operation failed.

A list of important error codes can be found in the next section.

-- Data type: gpgme_err_source_t
The gpgme_err_source_t type is an alias for the libgpg-error type gpg_err_source_t. The error source has not a precisely defined meaning. Sometimes it is the place where the error happened, sometimes it is the place where an error was encoded into an error value. Usually the error source will give an indication to where to look for the problem. This is not always true, but it is attempted to achieve this goal.

A list of important error sources can be found in the next section.

-- Data type: gpgme_error_t
The gpgme_error_t type is an alias for the libgpg-error type gpg_error_t. An error value like this has always two components, an error code and an error source. Both together form the error value.

Thus, the error value can not be directly compared against an error code, but the accessor functions described below must be used. However, it is guaranteed that only 0 is used to indicate success (GPG_ERR_NO_ERROR), and that in this case all other parts of the error value are set to 0, too.

Note that in GPGME, the error source is used purely for diagnostical purposes. Only the error code should be checked to test for a certain outcome of a function. The manual only documents the error code part of an error value. The error source is left unspecified and might be anything.

-- Function: static inline gpgme_err_code_t gpgme_err_code
(gpgme_error_t ERR)
The static inline function `gpgme_err_code` returns the `gpgme_err_code_t` component of the error value `ERR`. This function must be used to extract the error code from an error value in order to compare it with the `GPG_ERR_*` error code macros.

-- Function: `static inline gpgme_err_code_t gpgme_err_code`  
(`gpgme_error_t ERR`)  
The static inline function `gpgme_err_code` returns the `gpgme_err_code_t` component of the error value `ERR`. This function must be used to extract the error code from an error value in order to compare it with the `GPG_ERR_*` error code macros.

-- Function: `static inline gpgme_err_source_t gpgme_err_source`  
(`gpgme_error_t ERR`)  
The static inline function `gpgme_err_source` returns the `gpgme_err_source_t` component of the error value `ERR`. This function must be used to extract the error source from an error value in order to compare it with the `GPG_ERR_SOURCE_*` error source macros.

-- Function: `static inline gpgme_err_make`  
(`gpgme_err_source_t SOURCE, gpgme_err_code_t CODE`)  
The static inline function `gpgme_err_make` returns the error value consisting of the error source `SOURCE` and the error code `CODE`. This function can be used in callback functions to construct an error value to return it to the library.

-- Function: `static inline gpgme_error_t gpgme_error`  
(`gpgme_err_code_t CODE`)  
The static inline function `gpgme_error` returns the error value consisting of the default error source and the error code `CODE`. For GPGME applications, the default error source is `GPG_ERR_SOURCE_USER_1`. You can define `GPGME_ERR_SOURCE_DEFAULT` before including `gpgme.h` to change this default.

This function can be used in callback functions to construct an error value to return it to the library.

The `libgpg-error` library provides error codes for all system error numbers it knows about. If `ERR` is an unknown error number, the error code `GPG_ERR_UNKNOWN_ERRNO` is used. The following functions can be used to construct error values from system error numbers.

-- Function: `gpgme_error_t gpgme_err_make_from_errno`  
(`gpgme_err_source_t SOURCE, int ERR`)  
The function `gpgme_err_make_from_errno` is like `gpgme_err_make`, but it takes a system error like `errno` instead of a `gpgme_err_code_t` error code.

-- Function: `gpgme_error_t gpgme_error_from_errno (int ERR)`  
The function `gpgme_error_from_errno` is like `gpgme_error`, but it takes a system error like `errno` instead of a `gpgme_err_code_t` error code.
Sometimes you might want to map system error numbers to error codes directly, or map an error code representing a system error back to the system error number. The following functions can be used to do that.

-- Function: gpgme_err_code_t gpgme_err_code_from_errno (int ERR)
The function gpgme_err_code_from_errno returns the error code for the system error ERR. If ERR is not a known system error, the function returns GPG_ERR_UNKNOWN_ERRNO.

-- Function: int gpgme_err_code_to_errno (gpgme_err_code_t ERR)
The function gpgme_err_code_to_errno returns the system error for the error code ERR. If ERR is not an error code representing a system error, or if this system error is not defined on this system, the function returns 0.

5.2 Error Sources
=================

The library libgpg-error defines an error source for every component of the GnuPG system. The error source part of an error value is not well defined. As such it is mainly useful to improve the diagnostic error message for the user.

If the error code part of an error value is 0, the whole error value will be 0. In this case the error source part is of course GPG_ERR_SOURCE_UNKNOWN.

The list of error sources that might occur in applications using GPGME is:

GPG_ERR_SOURCE_UNKNOWN
The error source is not known. The value of this error source is 0.

GPG_ERR_SOURCE_GPGME
The error source is GPGME itself. This is the default for errors that occur in the GPGME library.

GPG_ERR_SOURCE_GPG
The error source is GnuPG, which is the crypto engine used for the OpenPGP protocol.

GPG_ERR_SOURCE_GPGSM
The error source is GPGSM, which is the crypto engine used for the
CMS protocol.

GPG_ERR_SOURCE_GCRYPT
The error source is libgcrypt, which is used by crypto engines to perform cryptographic operations.

GPG_ERR_SOURCE_GPGAGENT
The error source is gpg-agent, which is used by crypto engines to perform operations with the secret key.

GPG_ERR_SOURCE_PINENTRY
The error source is pinentry, which is used by gpg-agent to query the passphrase to unlock a secret key.

GPG_ERR_SOURCE_SCD
The error source is the SmartCard Daemon, which is used by gpg-agent to delegate operations with the secret key to a SmartCard.

GPG_ERR_SOURCE_KEYBOX
The error source is libkbx, a library used by the crypto engines to manage local keyrings.

GPG_ERR_SOURCE_USER_1
GPG_ERR_SOURCE_USER_2
GPG_ERR_SOURCE_USER_3
GPG_ERR_SOURCE_USER_4
These error sources are not used by any GnuPG component and can be used by other software. For example, applications using GPGME can use them to mark error values coming from callback handlers. Thus GPG_ERR_SOURCE_USER_1 is the default for errors created with gpgme_error and gpgme_error_from_errno, unless you define GPGME_ERR_SOURCE_DEFAULT before including gpgme.h.

File: gpgme.info, Node: Error Codes, Next: Error Strings, Prev: Error Sources, Up: Error Handling

5.3 Error Codes
=============

The library libgpg-error defines many error values. Most of them are not used by GPGME directly, but might be returned by GPGME because it received them from the crypto engine. The below list only includes such error codes that have a specific meaning in GPGME, or which are so common that you should know about them.

GPG_ERR_EOF
This value indicates the end of a list, buffer or file.
GPG_ERR_NO_ERROR
This value indicates success. The value of this error code is 0. Also, it is guaranteed that an error value made from the error code 0 will be 0 itself (as a whole). This means that the error source information is lost for this error code, however, as this error code indicates that no error occurred, this is generally not a problem.

GPG_ERR_GENERAL
This value means that something went wrong, but either there is not enough information about the problem to return a more useful error value, or there is no separate error value for this type of problem.

GPG_ERR_ENOMEM
This value means that an out-of-memory condition occurred.

GPG_ERR_E...
System errors are mapped to GPG_ERR_FOO where FOO is the symbol for the system error.

GPG_ERR_INV_VALUE
This value means that some user provided data was out of range. This can also refer to objects. For example, if an empty gpgme_data_t object was expected, but one containing data was provided, this error value is returned.

GPG_ERR_UNUSABLE_PUBKEY
This value means that some recipients for a message were invalid.

GPG_ERR_UNUSABLE_SECKEY
This value means that some signers were invalid.

GPG_ERR_NO_DATA
This value means that a gpgme_data_t object which was expected to have content was found empty.

GPG_ERR_CONFLICT
This value means that a conflict of some sort occurred.

GPG_ERR_NOT_IMPLEMENTED
This value indicates that the specific function (or operation) is not implemented. This error should never happen. It can only occur if you use certain values or configuration options which do not work, but for which we think that they should work at some later time.
GPG_ERR_DECYPYRT_FAILED
This value indicates that a decryption operation was unsuccessful.

GPG_ERR_BAD_PASSPHRASE
This value means that the user did not provide a correct passphrase
when requested.

GPG_ERR_CANCELED
This value means that the operation was canceled.

GPG_ERR_INV_ENGINE
This value means that the engine that implements the desired
protocol is currently not available. This can either be because
the sources were configured to exclude support for this engine, or
because the engine is not installed properly.

GPG_ERR_AMBIGUOUS_NAME
This value indicates that a user ID or other specifier did not
specify a unique key.

GPG_ERR_WRONG_KEY_USAGE
This value indicates that a key is not used appropriately.

GPG_ERR_CERT_REVOKED
This value indicates that a key signature was revoked.

GPG_ERR_CERT_EXPIRED
This value indicates that a key signature expired.

GPG_ERR_NO_CRL_KNOWN
This value indicates that no certificate revocation list is known
for the certificate.

GPG_ERR_NO_POLICY_MATCH
This value indicates that a policy issue occurred.

GPG_ERR_NO_SECKEY
This value indicates that no secret key for the user ID is
available.

GPG_ERR_MISSING_CERT
This value indicates that a key could not be imported because the
issuer certificate is missing.

GPG_ERR_BAD_CERT_CHAIN
This value indicates that a key could not be imported because its
certificate chain is not good, for example it could be too long.
GPG_ERR_UNSUPPORTED_ALGORITHM
   This value means a verification failed because the cryptographic
   algorithm is not supported by the crypto backend.

GPG_ERR_BAD_SIGNATURE
   This value means a verification failed because the signature is
   bad.

GPG_ERR_NO_PUBKEY
   This value means a verification failed because the public key is
   not available.

GPG_ERR_USER_1
GPG_ERR_USER_2
...
GPG_ERR_USER_16
   These error codes are not used by any GnuPG component and can be
   freely used by other software. Applications using GPGME might use
   them to mark specific errors returned by callback handlers if no
   suitable error codes (including the system errors) for these errors
   exist already.

File: gpgme.info, Node: Error Strings, Prev: Error Codes, Up: Error Handling

5.4 Error Strings
   =================

   -- Function: const char * gpgme_strerror (gpgme_error_t ERR)
      The function gpgme_strerror returns a pointer to a statically
      allocated string containing a description of the error code
      contained in the error value ERR. This string can be used to
      output a diagnostic message to the user.

      This function is not thread safe. Use gpgme_strerror_r in
      multi-threaded programs.

   -- Function: int gpgme_strerror_r (gpgme_error_t ERR, char *BUF,
      size_t BUFLEN)
      The function gpgme_strerror_r returns the error string for ERR in
      the user-supplied buffer BUF of size BUFLEN. This function is, in
      contrast to gpgme_strerror, thread-safe if a thread-safe
      strerror_r function is provided by the system. If the function
      succeeds, 0 is returned and BUF contains the string describing the
      error. If the buffer was not large enough, ERANGE is returned and
      BUF contains as much of the beginning of the error string as fits
      into the buffer.
The function gpgme_strerror returns a pointer to a statically allocated string containing a description of the error source contained in the error value ERR. This string can be used to output a diagnostic message to the user.

The following example illustrates the use of gpgme_strerror:

```c
int main(int argc, char **argv)
{
  gpgme_ctx_t ctx;
  gpgme_error_t err = gpgme_new (&ctx);
  if (err)
  {
    fprintf (stderr, "%s: creating GpgME context failed: %s: %s\n",
             argv[0], gpgme_strsource (err), gpgme_strerror (err));
    exit (1);
  }
}
```

File: gpgme.info, Node: Exchanging Data, Next: Contexts, Prev: Error Handling, Up: Top

6 Exchanging Data

***************

A lot of data has to be exchanged between the user and the crypto engine, like plaintext messages, ciphertext, signatures and information about the keys. The technical details about exchanging the data information are completely abstracted by GPGME. The user provides and receives the data via gpgme_data_t objects, regardless of the communication protocol between GPGME and the crypto engine in use.

-- Data type: gpgme_data_t

The gpgme_data_t type is a handle for a container for generic data, which is used by GPGME to exchange data with the user.

-- Data type: gpgme_off_t

Since: 1.4.1

On POSIX platforms the gpgme_off_t type is an alias for off_t; it may be used interchangeable. On Windows platforms gpgme_off_t is defined as a long (i.e. 32 bit) for 32 bit Windows and as a 64 bit signed integer for 64 bit Windows.
The `gpgme_ssize_t` type is an alias for `ssize_t`. It has only been introduced to overcome portability problems pertaining to the declaration of `ssize_t` by different toolchains.

* Menu:

* Creating Data Buffers:: Creating new data buffers.
* Destroying Data Buffers:: Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.

Data objects can be based on memory, files, or callback functions provided by the user. Not all operations are supported by all objects.

* Menu:

* Memory Based Data Buffers:: Creating memory based data buffers.
* File Based Data Buffers:: Creating file based data buffers.
* Callback Based Data Buffers:: Creating callback based data buffers.

Memory based data objects store all data in allocated memory. This is convenient, but only practical for an amount of data that is a fraction of the available physical memory. The data has to be copied from its source and to its destination, which can often be avoided by using one of the other data object

-- Function: `gpgme_error_t gpgme_data_new (gpgme_data_t *DH)`

The function `gpgme_data_new` creates a new `gpgme_data_t` object and returns a handle for it in `DH`. The data object is memory based and initially empty.

The function returns the error code `GPG_ERR_NO_ERROR` if the data object was successfully created, `GPG_ERR_INV_VALUE` if `DH` is not a valid pointer, and `GPG_ERR_ENOMEM` if not enough memory is available.
-- Function: gpgme_error_t gpgme_data_new_from_mem (gpgme_data_t *DH, 
    const char *BUFFER, size_t SIZE, int COPY)
The function gpgme_data_new_from_mem creates a new gpgme_data_t object and fills it with SIZE bytes starting from BUFFER.

If COPY is not zero, a private copy of the data is made. If COPY is zero, the data is taken from the specified buffer as needed, and the user has to ensure that the buffer remains valid for the whole life span of the data object.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, GPG_ERR_INV_VALUE if DH or BUFFER is not a valid pointer, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_file (gpgme_data_t *DH, 
    const char *FILENAME, int COPY)
The function gpgme_data_new_from_file creates a new gpgme_data_t object and fills it with the content of the file FILENAME.

If COPY is not zero, the whole file is read in at initialization time and the file is not used anymore after that. This is the only mode supported currently. Later, a value of zero for COPY might cause all reads to be delayed until the data is needed, but this is not yet implemented.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, GPG_ERR_INV_VALUE if DH or FILENAME is not a valid pointer, GPG_ERR_NOT_IMPLEMENTED if CODE is zero, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_filepart
    (gpgme_data_t *DH, const char *FILENAME, FILE *FP, 
    off_t OFFSET, size_t LENGTH)
The function gpgme_data_new_from_filepart creates a new gpgme_data_t object and fills it with a part of the file specified by FILENAME or FP.

Exactly one of FILENAME and FP must be non-zero, the other must be zero. The argument that is not zero specifies the file from which LENGTH bytes are read into the data object, starting from OFFSET.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, GPG_ERR_INV_VALUE if DH and exactly one of FILENAME and FP is not a valid pointer, and GPG_ERR_ENOMEM if not enough memory is available.
File based data objects operate directly on file descriptors or streams. Only a small amount of data is stored in core at any time, so the size of the data objects is not limited by GPGME.

-- Function: gpgme_error_t gpgme_data_new_from_fd (gpgme_data_t *DH, int FD)
The function gpgme_data_new_from_fd creates a new gpgme_data_t object and uses the file descriptor FD to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the file descriptor than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the file descriptor is set to blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_stream (gpgme_data_t *DH, FILE *STREAM)
The function gpgme_data_new_from_stream creates a new gpgme_data_t object and uses the I/O stream STREAM to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code GPG_ERR_NO_ERROR if the data
object was successfully created, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_estream
  (gpgme_data_t *DH, gpgrt_stream_t STREAM)
The function gpgme_data_new_from_estream creates a new gpgme_data_t object and uses the gpgrt stream STREAM to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, and GPG_ERR_ENOMEM if not enough memory is available.

File: gpgme.info, Node: Callback Based Data Buffers, Prev: File Based Data Buffers, Up: Creating Data Buffers

6.1.3 Callback Based Data Buffers

If neither memory nor file based data objects are a good fit for your application, you can implement the functions a data object provides yourself and create a data object from these callback functions.

-- Data type: ssize_t (*gpgme_data_read_cb_t) (void *HANDLE, void *BUFFER, size_t SIZE)
The gpgme_data_read_cb_t type is the type of functions which GPGME calls if it wants to read data from a user-implemented data object. The function should read up to SIZE bytes from the current read position into the space starting at BUFFER. The HANDLE is provided by the user at data object creation time.

Note that GPGME assumes that the read blocks until data is available. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function should return the number of bytes read, 0 on EOF, and -1 on error. If an error occurs, ERRNO should be set to describe the type of the error.
-- Data type: ssize_t (*gpgme_data_write_cb_t) (void *HANDLE, const void *BUFFER, size_t SIZE)
The gpgme_data_write_cb_t type is the type of functions which GPGME calls if it wants to write data to a user-implemented data object. The function should write up to SIZE bytes to the current write position from the space starting at BUFFER. The HANDLE is provided by the user at data object creation time.

Note that GPGME assumes that the write blocks until data is available. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function should return the number of bytes written, and -1 on error. If an error occurs, ERRNO should be set to describe the type of the error.

-- Data type: off_t (*gpgme_data_seek_cb_t) (void *HANDLE, off_t OFFSET, int WHENCE)
The gpgme_data_seek_cb_t type is the type of functions which GPGME calls if it wants to change the current read/write position in a user-implemented data object, just like the lseek function.

The function should return the new read/write position, and -1 on error. If an error occurs, ERRNO should be set to describe the type of the error.

-- Data type: void (*gpgme_data_release_cb_t) (void *HANDLE)
The gpgme_data_release_cb_t type is the type of functions which GPGME calls if it wants to destroy a user-implemented data object. The HANDLE is provided by the user at data object creation time.

-- Data type: struct gpgme_data_cbs
This structure is used to store the data callback interface functions described above. It has the following members:

gpgme_data_read_cb_t read
This is the function called by GPGME to read data from the data object. It is only required for input data object.

gpgme_data_write_cb_t write
This is the function called by GPGME to write data to the data object. It is only required for output data object.

gpgme_data_seek_cb_t seek
This is the function called by GPGME to change the current read/write pointer in the data object (if available). It is optional.
gpgme_data_release_cb_t release
This is the function called by GPGME to release a data object.
It is optional.

-- Function: gpgme_error_t gpgme_data_new_from_cbs (gpgme_data_t *DH,
gpgme_data_cbs_t CBS, void *HANDLE)
The function gpgme_data_new_from_cbs creates a new gpgme_data_t
object and uses the user-provided callback functions to operate on
the data object.

The handle HANDLE is passed as first argument to the callback
functions. This can be used to identify this data object.

The function returns the error code GPG_ERR_NO_ERROR if the data
object was successfully created, and GPG_ERR_ENOMEM if not enough
memory is available.

File: gpgme.info, Node: Destroying Data Buffers, Next: Manipulating Data Buffers, Prev: Creating Data Buffers,
Up: Exchanging Data

6.2 Destroying Data Buffers
===========================

-- Function: void gpgme_data_release (gpgme_data_t DH)
The function gpgme_data_release destroys the data object with the
handle DH. It releases all associated resources that were not
provided by the user in the first place.

-- Function: char * gpgme_data_release_and_get_mem (gpgme_data_t DH,
size_t *LENGTH)
The function gpgme_data_release_and_get_mem is like
gpgme_data_release, except that it returns the data buffer and
its length that was provided by the object.

The user has to release the buffer with gpgme_free. In case the
user provided the data buffer in non-copy mode, a copy will be made
for this purpose.

In case an error returns, or there is no suitable data buffer that
can be returned to the user, the function will return NULL. In
any case, the data object DH is destroyed.

-- Function: void gpgme_free (void *BUFFER)
SINCE: 1.1.1

The function gpgme_free releases the memory returned by
gpgme_data_release_and_get_mem and gpgme_pubkey_algo_string. It should be used instead of the system libraries free function in case different allocators are used by a program. This is often the case if gpgme is used under Windows as a DLL.

File: gpgme.info, Node: Manipulating Data Buffers, Prev: Destroying Data Buffers, Up: Exchanging Data

6.3 Manipulating Data Buffers
================================

Data buffers contain data and meta-data. The following operations can be used to manipulate both.

* Menu:
  * Data Buffer I/O Operations:: I/O operations on data buffers.
  * Data Buffer Meta-Data:: Meta-data manipulation of data buffers.
  * Data Buffer Convenience:: Convenience function for data buffers.

File: gpgme.info, Node: Data Buffer I/O Operations, Next: Data Buffer Meta-Data, Up: Manipulating Data Buffers

6.3.1 Data Buffer I/O Operations
---------------------------------

-- Function: ssize_t gpgme_data_read (gpgme_data_t DH, void *BUFFER, size_t LENGTH)
The function gpgme_data_read reads up to LENGTH bytes from the data object with the handle DH into the space starting at BUFFER.

If no error occurs, the actual amount read is returned. If the end of the data object is reached, the function returns 0.

In all other cases, the function returns -1 and sets ERRNO.

-- Function: ssize_t gpgme_data_write (gpgme_data_t DH, const void *BUFFER, size_t SIZE)
The function gpgme_data_write writes up to SIZE bytes starting from BUFFER into the data object with the handle DH at the current write position.

The function returns the number of bytes actually written, or -1 if an error occurs. If an error occurs, ERRNO is set.

-- Function: off_t gpgme_data_seek (gpgme_data_t DH, off_t OFFSET, int WHENCE)
The function `gpgme_data_seek` changes the current read/write position.

The WHENCE argument specifies how the OFFSET should be interpreted. It must be one of the following symbolic constants:

**SEEK_SET**
- Specifies that OFFSET is a count of characters from the beginning of the data object.

**SEEK_CUR**
- Specifies that OFFSET is a count of characters from the current file position. This count may be positive or negative.

**SEEK_END**
- Specifies that OFFSET is a count of characters from the end of the data object. A negative count specifies a position within the current extent of the data object; a positive count specifies a position past the current end. If you set the position past the current end, and actually write data, you will extend the data object with zeros up to that position.

If successful, the function returns the resulting file position, measured in bytes from the beginning of the data object. You can use this feature together with SEEK_CUR to read the current read/write position.

If the function fails, -1 is returned and ERRNO is set.

File: gpgme.info, Node: Data Buffer Meta-Data, Next: Data Buffer Convenience, Prev: Data Buffer I/O Operations, Up: Manipulating Data Buffers

6.3.2 Data Buffer Meta-Data

--------------

-- Function: char * gpgme_data_get_file_name (gpgme_data_t DH)
    SINCE: 1.1.0

The function `gpgme_data_get_file_name` returns a pointer to a string containing the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

If no error occurs, the string containing the file name is returned. Otherwise, NULL will be returned.
-- Function: gpgme_error_t gpgme_data_set_file_name (gpgme_data_t DH,
     const char *FILE_NAME)
SINCE: 1.1.0

The function gpgme_data_set_file_name sets the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

The function returns the error code GPG_ERR_INV_VALUE if DH is not a valid pointer and GPG_ERR_ENOMEM if not enough memory is available.

-- Data type: enum gpgme_data_encoding_t
The gpgme_data_encoding_t type specifies the encoding of a gpgme_data_t object. For input data objects, the encoding is useful to give the backend a hint on the type of data. For output data objects, the encoding can specify the output data format on certain operations. Please note that not all backends support all encodings on all operations. The following data types are available:

GPGME_DATA_ENCODING_NONE
This specifies that the encoding is not known. This is the default for a new data object. The backend will try its best to detect the encoding automatically.

GPGME_DATA_ENCODING_BINARY
This specifies that the data is encoding in binary form; i.e. there is no special encoding.

GPGME_DATA_ENCODING_BASE64
This specifies that the data is encoded using the Base-64 encoding scheme as used by MIME and other protocols.

GPGME_DATA_ENCODING_ARMOR
This specifies that the data is encoded in an armored form as used by OpenPGP and PEM.

GPGME_DATA_ENCODING_MIME
SINCE: 1.7.0

This specifies that the data is encoded as a MIME part.

GPGME_DATA_ENCODING_URL
SINCE: 1.2.0
The data is a list of linefeed delimited URLs. This is only useful with gpgme_op_import.

GPGME_DATA_ENCODING_URL0
SINCE: 1.2.0

The data is a list of binary zero delimited URLs. This is only useful with gpgme_op_import.

GPGME_DATA_ENCODING_URLESC
SINCE: 1.2.0

The data is a list of linefeed delimited URLs with all control and space characters percent escaped. This mode is is not yet implemented.

-- Function: gpgme_data_encoding_t gpgme_data_get_encoding (gpgme_data_t DH)
The function gpgme_data_get_encoding returns the encoding of the data object with the handle DH. If DH is not a valid pointer (e.g. NULL) GPGME_DATA_ENCODING_NONE is returned.

-- Function: gpgme_error_t gpgme_data_set_encoding (gpgme_data_t DH, gpgme_data_encoding_t ENC)
The function gpgme_data_set_encoding changes the encoding of the data object with the handle DH to ENC.

-- Function: gpgme_error_t gpgme_data_set_flag (gpgme_data_t DH, const char *NAME, const char *VALUE)
SINCE: 1.7.0

Some minor properties of the data object can be controlled with flags set by this function. The properties are identified by the following values for NAME:

size-hint
The value is a decimal number with the length gpgme shall assume for this data object. This is useful if the data is provided by callbacks or via file descriptors but the applications knows the total size of the data. If this is set the OpenPGP engine may use this to decide on buffer allocation strategies and to provide a total value for its progress information.

This function returns 0 on success.
6.3.3 Data Buffer Convenience Functions
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-- Data type: enum gpgme_data_type_t
SINCE: 1.4.3

The gpgme_data_type_t type is used to return the detected type of
the content of a data buffer.

GPGME_DATA_TYPE_INVALID
This is returned by gpgme_data_identify if it was not possible to
identify the data. Reasons for this might be a non-seekable stream
or a memory problem. The value is 0.

GPGME_DATA_TYPE_UNKNOWN
The type of the data is not known.

GPGME_DATA_TYPE_PGP_SIGNED
SINCE: 1.7.0

The data is an OpenPGP signed message. This may be a binary
signature, a detached one or a cleartext signature.

GPGME_DATA_TYPE_PGP_ENCRYPTED
SINCE: 1.7.0

The data is an OpenPGP encrypted message.

GPGME_DATA_TYPE_PGP_SIGNATURE
SINCE: 1.7.0

The data is an OpenPGP detached signature.

GPGME_DATA_TYPE_PGP_OTHER
This is a generic OpenPGP message. In most cases this will be
encrypted data.

GPGME_DATA_TYPE_PGP_KEY
This is an OpenPGP key (private or public).

GPGME_DATA_TYPE_CMS_SIGNED
This is a CMS signed message.

GPGME_DATA_TYPE_CMS_ENCRYPTED
This is a CMS encrypted (enveloped data) message.

GPGME_DATA_TYPE_CMS_OTHER
This is used for other CMS message types.

GPGME_DATA_TYPE_X509_CERT
The data is a X.509 certificate.

GPGME_DATA_TYPE_PKCS12
The data is a PKCS#12 message. This is commonly used to exchange
private keys for X.509.

-- Function: gpgme_data_type_t gpgme_data_identify (gpgme_data_t DH)
SINCE: 1.4.3
The function gpgme_data_identify returns the type of the data with the handle DH. If it is not possible to perform the identification, the function returns zero (GPGME_DATA_TYPE_INVALID). Note that depending on how the data object has been created the identification may not be possible or the data object may change its internal state (file pointer moved). For file or memory based data object, the state should not change.


7 Contexts
**********

All cryptographic operations in GPGME are performed within a context, which contains the internal state of the operation as well as configuration parameters. By using several contexts you can run several cryptographic operations in parallel, with different configuration.

-- Data type: gpgme_ctx_t
The gpgme_ctx_t type is a handle for a GPGME context, which is used to hold the configuration, status and result of cryptographic operations.

* Menu:

* Creating Contexts:: Creating new GPGME contexts.
* Destroying Contexts:: Releasing GPGME contexts.
* Result Management:: Managing the result of crypto operations.
* Context Attributes:: Setting properties of a context.
* Key Management:: Managing keys with GPGME.
* Trust Item Management:: Managing trust items with GPGME.
* Crypto Operations:: Using a context for cryptography.
* Miscellaneous:: Miscellaneous operations
* Run Control:: Controlling how operations are run.

File: gpgme.info, Node: Creating Contexts, Next: Destroying Contexts, Up: Contexts

7.1 Creating Contexts
====================

-- Function: gpgme_error_t gpgme_new (gpgme_ctx_t *CTX)
The function gpgme_new creates a new gpgme_ctx_t object and returns a handle for it in CTX.

The function returns the error code GPG_ERR_NO_ERROR if the context was successfully created, GPG_ERR_INV_VALUE if CTX is not
a valid pointer, and GPG_ERR_ENOMEM if not enough memory is available. Also, it returns GPG_ERR_NOTOPERATIONAL if gpgme_check_version was not called to initialize GPGME, and GPG_ERR_SELFTEST_FAILED if a selftest failed. Currently, the only selftest is for Windows MingW32 targets to see if -mms-bitfields was used (as required).


7.2 Destroying Contexts

---

-- Function: void gpgme_release (gpgme_ctx_t CTX)

The function gpgme_release destroys the context with the handle CTX and releases all associated resources.


7.3 Result Management

---

The detailed result of an operation is returned in operation-specific structures such as gpgme_decrypt_result_t. The corresponding retrieval functions such as gpgme_op_decrypt_result provide static access to the results after an operation completes. Those structures shall be considered read-only and an application must not allocate such a structure on its own. The following interfaces make it possible to detach a result structure from its associated context and give it a lifetime beyond that of the current operation or context.

-- Function: void gpgme_result_ref (void *RESULT)

SINCE: 1.2.0

The function gpgme_result_ref acquires an additional reference for the result RESULT, which may be of any type gpgme_*.result_t. As long as the user holds a reference, the result structure is guaranteed to be valid and unmodified.

-- Function: void gpgme_result_unref (void *RESULT)

SINCE: 1.2.0

The function gpgme_result_unref releases a reference for the result RESULT. If this was the last reference, the result structure will be destroyed and all resources associated to it will be released.
Note that a context may hold its own references to result structures, typically until the context is destroyed or the next operation is started. In fact, these references are accessed through the gpgme_op_*_result functions.

File: gpgme.info, Node: Context Attributes, Next: Key Management, Prev: Result Management, Up: Contexts

7.4 Context Attributes

* Menu:

* Protocol Selection:: Selecting the protocol used by a context.
* Crypto Engine:: Configuring the crypto engine.
* Setting the Sender:: How to tell the engine the sender.
* ASCII Armor:: Requesting ASCII armored output.
* Text Mode:: Choosing canonical text mode.
* Offline Mode:: Choosing offline mode.
* Pinentry Mode:: Choosing the pinentry mode.
* Included Certificates:: Including a number of certificates.
* Key Listing Mode:: Selecting key listing mode.
* Passphrase Callback:: Getting the passphrase from the user.
* Progress Meter Callback:: Being informed about the progress.
* Status Message Callback:: Status messages received from gpg.
* Context Flags:: Additional flags for a context.
* Locale:: Setting the locale of a context.
* Additional Logs:: Additional logs of a context.


7.4.1 Protocol Selection

-- Function: gpgme_error_t gpgme_set_protocol (gpgme_ctx_t CTX,
        gpgme_protocol_t PROTO)

The function gpgme_set_protocol sets the protocol used within the context CTX to PROTO. All crypto operations will be performed by the crypto engine configured for that protocol. *Note Protocols and Engines::.

Setting the protocol with gpgme_set_protocol does intentionally not check if the crypto engine for that protocol is available and installed correctly. *Note Engine Version Check::.

The function returns the error code GPG_ERR_NO_ERROR if the protocol could be set successfully, and GPG_ERR_INV_VALUE if
-- Function: gpgme_protocol_t gpgme_get_protocol (gpgme_ctx_t CTX)
The function gpgme_get_protocol retrieves the protocol currently
use with the context CTX.

Attributes

7.4.2 Crypto Engine
-------------------

The following functions can be used to set and retrieve the
configuration of the crypto engines of a specific context. The default
can also be retrieved without any particular context. *Note Engine
Information::: The default can also be changed globally. *Note Engine
Configuration:::

-- Function: gpgme_engine_info_t gpgme_ctx_get_engine_info (gpgme_ctx_t CTX)
SINCE: 1.1.0

The function gpgme_ctx_get_engine_info returns a linked list of
engine info structures. Each info structure describes the
configuration of one configured backend, as used by the context
CTX.

The result is valid until the next invocation of
gpgme_ctx_set_engine_info for this particular context.

This function can not fail.

-- Function: gpgme_error_t gpgme_ctx_set_engine_info (gpgme_ctx_t CTX,
gpgme_protocol_t PROTO, const char *FILE_NAME,
const char *HOME_DIR)
SINCE: 1.1.0

The function gpgme_ctx_set_engine_info changes the configuration
of the crypto engine implementing the protocol PROTO for the
context CTX.

FILE_NAME is the file name of the executable program implementing
this protocol, and HOME_DIR is the directory name of the
configuration directory for this crypto engine. If HOME_DIR is
NULL, the engines default will be used.

Currently this function must be used before starting the first
crypto operation. It is unspecified if and when the changes will take effect if the function is called after starting the first operation on the context CTX.

This function returns the error code GPG_ERR_NO_ERROR if successful, or an error code on failure.

---

Some engines can make use of the sender's address, for example to figure out the best user id in certain trust models. For verification and signing of mails, it is thus suggested to let the engine know the sender ("From:") address. GPGME provides two functions to accomplish that. Note that the esoteric use of multiple "From:" addresses is not supported.

-- Function: gpgme_error_t gpgme_set_sender (gpgme_ctx_t CTX, int ADDRESS)

SINCE: 1.8.0

The function gpgme_set_sender specifies the sender address for use in sign and verify operations. ADDRESS is expected to be the addr-spec part of an address but may also be a complete mailbox address, in which case this function extracts the addr-spec from it. Using NULL for ADDRESS clears the sender address.

The function returns 0 on success or an error code on failure. The most likely failure is that no valid addr-spec was found in ADDRESS.

-- Function: const char * gpgme_get_sender (gpgme_ctx_t CTX)

SINCE: 1.8.0

The function gpgme_get_sender returns the current sender address from the context, or NULL if none was set. The returned value is valid as long as the CTX is valid and gpgme_set_sender has not been called again.

---
---

-- Function: void gpgme_set_armor (gpgme_ctx_t CTX, int YES)
The function gpgme_set_armor specifies if the output should be
ASCII armored. By default, output is not ASCII armored.

ASCII armored output is disabled if YES is zero, and enabled
otherwise.

-- Function: int gpgme_get_armor (gpgme_ctx_t CTX)
The function gpgme_get_armor returns 1 if the output is ASCII
armored, and 0 if it is not, or if CTX is not a valid pointer.

---

7.4.5 Text Mode

-- Function: void gpgme_set_textmode (gpgme_ctx_t CTX, int YES)
The function gpgme_set_textmode specifies if canonical text mode
should be used. By default, text mode is not used.

Text mode is for example used for the RFC2015 signatures; note that
the updated RFC 3156 mandates that the mail user agent does some
preparations so that text mode is not needed anymore.

This option is only relevant to the OpenPGP crypto engine, and
ignored by all other engines.

Canonical text mode is disabled if YES is zero, and enabled
otherwise.

-- Function: int gpgme_get_textmode (gpgme_ctx_t CTX)
The function gpgme_get_textmode returns 1 if canonical text mode
is enabled, and 0 if it is not, or if CTX is not a valid pointer.

---

7.4.6 Offline Mode

-- Function: void gpgme_set_offline (gpgme_ctx_t CTX, int YES)
SINCE: 1.6.0

The function gpgme_set_offline specifies if offline mode should
be used. Offline mode is disabled if YES is zero, and enabled
otherwise. By default, offline mode is disabled.

The details of the offline mode depend on the used protocol and its backend engine. It may eventually be extended to be more stricter and for example completely disable the use of Dirmngr for any engine.

For the CMS protocol the offline mode specifies whether Dirmngr shall be used to do additional validation that might require connecting external services (e.g. CRL / OCSP checks). Here the offline mode only affects the keylist mode

GPGME_KEYLIST_MODE_VALIDATE.

For the OpenPGP protocol offline mode entirely disables the use of the Dirmngr and will thus guarantee that no network connections are done as part of an operation on this context. It has only an effect with GnuPG versions 2.1.23 or later.

For all other protocols the offline mode is currently ignored.

-- Function: int gpgme_get_offline (gpgme_ctx_t CTX)
           SINCE: 1.6.0

The function gpgme_get_offline returns 1 if offline mode is enabled, and 0 if it is not, or if CTX is not a valid pointer.

7.4.7 Pinentry Mode
-------------------

-- Function: gpgme_error_t gpgme_set_pinentry_mode (gpgme_ctx_t CTX,
                   gpgme_pinentry_mode_t MODE)
           SINCE: 1.4.0

The function gpgme_set_pinentry_mode specifies the pinentry mode to be used.

For GnuPG >= 2.1 this option is required to be set to
GPGME_PINENTRY_MODE_LOOPBACK to enable the passphrase callback mechanism in GPGME through gpgme_set_passphrase_cb.

-- Function: gpgme_pinentry_mode_t gpgme_get_pinentry_mode
                   (gpgme_ctx_t CTX)
           SINCE: 1.4.0
The function gpgme_get_pinentry_mode returns the mode set for the context.

-- Data type: enum gpgme_pinentry_mode_t
SINCE: 1.4.0

The gpgme_minentry_mode_t type specifies the set of possible pinentry modes that are supported by GPGME if GnuPG >= 2.1 is used. The following modes are supported:

GPGME_PINENTRY_MODE_DEFAULT
SINCE: 1.4.0

Use the default of the agent, which is ask.

GPGME_PINENTRY_MODE_ASK
SINCE: 1.4.0

Force the use of the Pinentry.

GPGME_PINENTRY_MODE_CANCEL
SINCE: 1.4.0

Emulate use of Pinentrys cancel button.

GPGME_PINENTRY_MODE_ERROR
SINCE: 1.4.0

Return a Pinentry error No Pinentry.

GPGME_PINENTRY_MODE_LOOPBACK
SINCE: 1.4.0

Redirect Pinentry queries to the caller. This enables the use of gpgme_set_passphrase_cb because pinentry queries are redirected to gpgme.

Note: For 2.1.0 - 2.1.12 this mode requires allow-loopback-pinentry to be enabled in the gpg-agent.conf or an agent started with that option.

File: gpgme.info, Node: Included Certificates, Next: Key Listing Mode, Prev: Pinentry Mode, Up: Context Attributes

7.4.8 Included Certificates

-----------------------------
The function gpgme_set_include_certs specifies how many certificates should be included in an S/MIME signed message. By default, only the sender's certificate is included. The possible values of NR_OF_CERTS are:

```
GPGME_INCLUDE_CERTS_DEFAULT
    SINCE: 1.0.3
```

Fall back to the default of the crypto backend. This is the default for GPGME.

-2
Include all certificates except the root certificate.

-1
Include all certificates.

0
Include no certificates.

1
Include the sender's certificate only.

n
Include the first n certificates of the certificates path, starting from the sender's certificate. The number n must be positive.

Values of NR_OF_CERTS smaller than -2 are undefined.

This option is only relevant to the CMS crypto engine, and ignored by all other engines.

The function gpgme_set_keylist_mode changes the default behaviour of the key listing functions. The value in MODE is a bitwise-or combination of one or multiple of the following bit values:

```
GPGME_KEYLIST_MODE_LOCAL
```

The function gpgme_set_keylist_mode changes the default behaviour of the key listing functions. The value in MODE is a bitwise-or combination of one or multiple of the following bit values:
The GPGME_KEYLIST_MODE_LOCAL symbol specifies that the local keyring should be searched for keys in the keylisting operation. This is the default.

Using only this option results in a --list-keys.

GPGME_KEYLIST_MODE_EXTERN
The GPGME_KEYLIST_MODE_EXTERN symbol specifies that an external source should be searched for keys in the keylisting operation. The type of external source is dependent on the crypto engine used and whether it is combined with GPGME_KEYLIST_MODE_LOCAL. For example, it can be a remote keyserver or LDAP certificate server.

Using only this option results in a --search-keys for GPGME_PROTOCOL_OpenPGP and something similar to --list-external-keys for GPGME_PROTOCOL_CMS.

GPGME_KEYLIST_MODE_LOCATE
This is a shortcut for the combination of GPGME_KEYLIST_MODE_LOCAL and GPGME_KEYLIST_MODE_EXTERN, which results in a --locate-keys for GPGME_PROTOCOL_OpenPGP.

GPGME_KEYLIST_MODE_SIGS
The GPGME_KEYLIST_MODE_SIGS symbol specifies that the key signatures should be included in the listed keys.

GPGME_KEYLIST_MODE_SIG_NOTATIONS
Since: 1.1.1

The GPGME_KEYLIST_MODE_SIG_NOTATIONS symbol specifies that the signature notations on key signatures should be included in the listed keys. This only works if GPGME_KEYLIST_MODE_SIGS is also enabled.

GPGME_KEYLIST_MODE_WITH_TOFU
Since: 1.7.0

The GPGME_KEYLIST_MODE_WITH_TOFU symbol specifies that information pertaining to the TOFU trust model should be included in the listed keys.

GPGME_KEYLIST_MODE_WITH_SECRET
Since: 1.5.1

The GPGME_KEYLIST_MODE_WITH_SECRET returns information about the presence of a corresponding secret key in a public key.
listing. A public key listing with this mode is slower than a standard listing but can be used instead of a second run to list the secret keys. This is only supported for GnuPG versions \( \geq 2.1 \).

**GPGME_KEYLIST_MODE_EPHEMERAL**

**SINCE:** 1.2.0

The GPGME_KEYLIST_MODE_EPHEMERAL symbol specifies that keys flagged as ephemeral are included in the listing.

**GPGME_KEYLIST_MODE_VALIDATE**

**SINCE:** 0.4.5

The GPGME_KEYLIST_MODE_VALIDATE symbol specifies that the backend should do key or certificate validation and not just get the validity information from an internal cache. This might be an expensive operation and is in general not useful. Currently only implemented for the S/MIME backend and ignored for other backends.

At least one of GPGME_KEYLIST_MODE_LOCAL and GPGME_KEYLIST_MODE_EXTERN must be specified. For future binary compatibility, you should get the current mode with gpgme_get_keylist_mode and modify it by setting or clearing the appropriate bits, and then using that calculated value in the gpgme_set_keylisting_mode operation. This will leave all other bits in the mode value intact (in particular those that are not used in the current version of the library).

The function returns the error code GPG_ERR_NO_ERROR if the mode could be set correctly, and GPG_ERR_INV_VALUE if CTX is not a valid pointer or MODE is not a valid mode.

-- Function: gpgme_keylist_mode_t gpgme_get_keylist_mode

\[(gpgme_ctx_t CTX)\]

The function gpgme_get_keylist_mode returns the current key listing mode of the context CTX. This value can then be modified and used in a subsequent gpgme_set_keylist_mode operation to only affect the desired bits (and leave all others intact).

The function returns 0 if CTX is not a valid pointer, and the current mode otherwise. Note that 0 is not a valid mode value.
7.4.10 Passphrase Callback

-- Data type: gpgme_error_t (*gpgme_passphrase_cb_t)(void *HOOK, const char *UID_HINT, const char *PASSPHRASE_INFO, int PREV_WAS_BAD, int FD)

The gpgme_passphrase_cb_t type is the type of functions usable as passphrase callback function.

The argument UID_HINT might contain a string that gives an indication for which user ID the passphrase is required. If this is not available, or not applicable (in the case of symmetric encryption, for example), UID_HINT will be NULL.

The argument PASSPHRASE_INFO, if not NULL, will give further information about the context in which the passphrase is required. This information is engine and operation specific.

If this is the repeated attempt to get the passphrase, because previous attempts failed, then PREV_WAS_BAD is 1, otherwise it will be 0.

The user must write the passphrase, followed by a newline character, to the file descriptor FD. The function gpgme_io_writen should be used for the write operation. Note that if the user returns 0 to indicate success, the user must at least write a newline character before returning from the callback.

If an error occurs, return the corresponding gpgme_error_t value. You can use the error code GPG_ERR_CANCELED to abort the operation. Otherwise, return 0.

Note: The passphrase_cb only works with GnuPG 1.x and 2.1.x and not with the 2.0.x series. See gpgme_set_pinentry_mode for more details on 2.1.x usage.

-- Function: void gpgme_set_passphrase_cb (gpgme_ctx_t CTX, gpgme_passphrase_cb_t PASSFUNC, void *HOOK_VALUE)

The function gpgme_set_passphrase_cb sets the function that is used when a passphrase needs to be provided by the user to PASSFUNC. The function PASSFUNC needs to be implemented by the user, and whenever it is called, it is called with its first argument being HOOK_VALUE. By default, no passphrase callback function is set.

Not all crypto engines require this callback to retrieve the passphrase. It is better if the engine retrieves the passphrase from a trusted agent (a daemon process), rather than having each
user to implement their own passphrase query. Some engines do not even support an external passphrase callback at all, in this case the error code GPG_ERR_NOT_SUPPORTED is returned.

For GnuPG >= 2.1 the pinentry mode has to be set to GPGME_PINENTRY_MODE_LOOPBACK to enable the passphrase callback. See gpgme_set_pinentry_mode.

The user can disable the use of a passphrase callback function by calling gpgme_set_passphrase_cb with PASSFUNC being NULL.

-- Function: void gpgme_get_passphrase_cb (gpgme_ctx_t CTX, gpgme_passphrase_cb_t *PASSFUNC, void **HOOK_VALUE)

The function gpgme_get_passphrase_cb returns the function that is used when a passphrase needs to be provided by the user in *PASSFUNC, and the first argument for this function in *HOOK_VALUE.

If no passphrase callback is set, or CTX is not a valid pointer, NULL is returned in both variables.

PASSFUNC or HOOK_VALUE can be NULL. In this case, the corresponding value will not be returned.


7.4.11 Progress Meter Callback

-----------------------------

-- Data type: void (*gpgme_progress_cb_t)(void *HOOK, const char *WHAT, int TYPE, int CURRENT, int TOTAL)

The gpgme_progress_cb_t type is the type of functions usable as progress callback function.

The arguments are specific to the crypto engine. More information about the progress information returned from the GnuPG engine can be found in the GnuPG source code in the file doc/DETAILS in the section PROGRESS.

-- Function: void gpgme_set_progress_cb (gpgme_ctx_t CTX, gpgme_progress_cb_t PROGFUNC, void *HOOK_VALUE)

The function gpgme_set_progress_cb sets the function that is used when progress information about a cryptographic operation is available. The function PROGFUNC needs to implemented by the user, and whenever it is called, it is called with its first argument being HOOK_VALUE. By default, no progress callback function is set.
Setting a callback function allows an interactive program to display progress information about a long operation to the user.

The user can disable the use of a progress callback function by calling gpgme_set_progress_cb with PROGFUNC being NULL.

-- Function: void gpgme_get_progress_cb (gpgme_ctx_t CTX, gpgme_progress_cb_t *PROGFUNC, void **HOOK_VALUE)
The function gpgme_get_progress_cb returns the function that is used to inform the user about the progress made in *PROGFUNC, and the first argument for this function in *HOOK_VALUE. If no progress callback is set, or CTX is not a valid pointer, NULL is returned in both variables.

PROGFUNC or HOOK_VALUE can be NULL. In this case, the corresponding value will not be returned.


7.4.12 Status Message Callback

-- Data type: gpgme_error_t (*gpgme_status_cb_t)(void *HOOK, const char *KEYWORD, const char *ARGS)
The gpgme_status_cb_t type is the type of function usable as a status message callback function.

The argument KEYWORD is the name of the status message while the ARGS argument contains any arguments for the status message.

If an error occurs, return the corresponding gpgme_error_t value. Otherwise, return 0.

-- Function: void gpgme_set_status_cb (gpgme_ctx_t CTX, gpgme_status_cb_t STATUSFUNC, void *HOOK_VALUE)
SINCE: 1.6.0

The function gpgme_set_status_cb sets the function that is used when a status message is received from gpg to STATUSFUNC. The function STATUSFUNC needs to be implemented by the user, and whenever it is called, it is called with its first argument being HOOK_VALUE. By default, no status message callback function is set.

The user can disable the use of a status message callback function by calling gpgme_set_status_cb with STATUSFUNC being NULL.
-- Function: void gpgme_get_status_cb (gpgme_ctx_t CTX,
   gpgme_status_cb_t *STATUSFUNC, void **HOOK_VALUE)
SINCE: 1.6.0

The function gpgme_get_status_cb returns the function that is
used to process status messages from gpg in *STATUSFUNC, and the
first argument for this function in *HOOK_VALUE. If no status
message callback is set, or CTX is not a valid pointer, NULL is
returned in both variables.


7.4.13 Context Flags
---------------------

-- Function: gpgme_error_t gpgme_set_ctx_flag (gpgme_ctx_t CTX,
   const char *NAME, const char *VALUE)
SINCE: 1.7.0

Some minor properties of the context can be controlled with flags
set by this function. The properties are identified by the
following values for NAME:

"redraw"
This flag is normally not changed by the caller because GPGME
sets and clears it automatically: The flag is cleared before
an operation and set if an operation noticed that the engine
has launched a Pinentry. A Curses based application may use
this information to redraw the screen; for example:

    err = gpgme_op_keylist_start (ctx, "foo@example.org", 0);
    while (!err)
    {
        err = gpgme_op_keylist_next (ctx, &key);
        if (err)
            break;
        show_key (key);
        gpgme_key_release (key);
    }
    if ((s = gpgme_get_ctx_flag (ctx, "redraw")) && *s)
        redraw_screen ();
    gpgme_release (ctx);

"full-status"
Using a VALUE of "1" the status callback set by
gpgme_set_status_cb returns all status lines with the exception of PROGRESS lines. With the default of "0" the status callback is only called in certain situations.

"raw-description"
Setting the VALUE to "1" returns human readable strings in a raw format. For example the non breaking space characters (~) will not be removed from the description field of the gpgme_tofu_info_t object.

"export-session-key"
Using a VALUE of "1" specifies that the context should try to export the symmetric session key when decrypting data. By default, or when using an empty string or "0" for VALUE, session keys are not exported.

"override-session-key"
The string given in VALUE is passed to the GnuPG engine to override the session key for decryption. The format of that session key is specific to GnuPG and can be retrieved during a decrypt operation when the context flag "export-session-key" is enabled. Please be aware that using this feature with GnuPG < 2.1.16 will leak the session key on many platforms via ps(1).

"auto-key-retrieve"
Setting the VALUE to "1" asks the backend to automatically retrieve a key for signature verification if possible. Note that this option makes a "web bug" like behavior possible. Keyserver or Web Key Directory operators can see which keys you request, so by sending you a message signed by a brand new key (which you naturally will not have on your local keyring), the operator can tell both your IP address and the time when you verified the signature.

"request-origin"
The string given in VALUE is passed to the GnuPG engines to request restrictions based on the origin of the request. Valid values are documented in the GnuPG manual and the gpg man page under the option --request-origin. Requires at least GnuPG 2.2.6 to have an effect.

"no-symkey-cache"
For OpenPGP disable the passphrase cache used for symmetrical en- and decryption. This cache is based on the message specific salt value. Requires at least GnuPG 2.2.7 to have an effect.
"ignore-mdc-error"
This flag passes the option --ignore-mdc-error to gpg. This can be used to force decryption of a message which failed due to a missing integrity check. This flag must be used with great caution and only if it is a known non-corrupted old message and the decryption result of the former try had the decryption result flag legacy_cipher_nomdc set. For failsafe reasons this flag is reset after each operation.

"auto-key-locate"
The string given in VALUE is passed to gpg. This can be used to change the behavior of a GPGME_KEYLIST_MODE_LOCATE keylisting. Valid values are documented in the GnuPG manual and the gpg man page under the option --auto-key-locate. Requires at least GnuPG 2.1.18.

Note: Keys retrieved through auto-key-locate are automatically imported in the keyring.

trust-model
SINCE: 1.11.2

Change the trust-model for all GnuPG engine operations. An empty string sets the trust-model back to the users default. If the trust-model is not supported by GnuPG the behavior is undefined and will likely cause all operations to fail. Example: "tofu+pgp".

This options should be used carefully with a strict version requirement. In some versions of GnuPG setting the trust-model changes the default trust-model for future operations. A change in the trust-model also can have unintended side effects, like rebuilding the trust-db.

This function returns 0 on success.

-- Function: const char * gpgme_get_ctx_flag (gpgme_ctx_t CTX, const char *NAME)

SINCE: 1.8.0

The value of flags settable by gpgme_set_ctx_flag can be retrieved by this function. If NAME is unknown the function returns NULL. For boolean flags an empty string is returned for False and the string "1" is returned for True; either atoi(3) or a test for an empty string can be used to get the boolean value.
7.4.14 Locale
-------------

A locale setting can be associated with a context. This locale is passed to the crypto engine, and used for applications like the PIN entry, which is displayed to the user when entering a passphrase is required.

The default locale is used to initialize the locale setting of all contexts created afterwards.

-- Function: gpgme_error_t gpgme_set_locale (gpgme_ctx_t CTX,
   int CATEGORY, const char *VALUE)
SINCE: 0.4.3

The function gpgme_set_locale sets the locale of the context CTX, or the default locale if CTX is a null pointer.

The locale settings that should be changed are specified by CATEGORY. Supported categories are LC_CTYPE, LC_MESSAGES, and LC_ALL, which is a wildcard you can use if you want to change all the categories at once.

The value to be used for the locale setting is VALUE, which will be copied to GPGMEs internal data structures. VALUE can be a null pointer, which disables setting the locale, and will make PIN entry and other applications use their default setting, which is usually not what you want.

Note that the settings are only used if the application runs on a text terminal, and that the settings should fit the configuration of the output terminal. Normally, it is sufficient to initialize the default value at startup.

The function returns an error if not enough memory is available.

7.4.15 Additional Logs
----------------------

Additional logs can be associated with a context. These logs are engine specific and can be obtained with gpgme_op_getauditlog.

-- Function: gpgme_error_t gpgme_op_getauditlog (gpgme_ctx_t CTX,
The function `gpgme_op_getauditlog` is used to obtain additional logs as specified by `FLAGS` into the `OUTPUT` data. If

The function returns the error code `GPG_ERR_NO_ERROR` if a log could be queried from the engine, and `GPG_ERR_NOT_IMPLEMENTED` if the log specified in `FLAGS` is not available for this engine. If no log is available `GPG_ERR_NO_DATA` is returned.

The value in `FLAGS` is a bitwise-or combination of one or multiple of the following bit values:

**GPGME_AUDITLOG_DIAG**  
**SINCE:** 1.11.2

Obtain diagnostic output which would be written to stderr in interactive use of the engine. This can be used to provide additional diagnostic information in case of errors in other operations.

Note: If log-file has been set in the configuration the log will be empty and `GPG_ERR_NO_DATA` will be returned.

Implemented for: `GPGME_PROTOCOL_OpenPGP`

**GPGME_AUDITLOG_DEFAULT**  
**SINCE:** 1.11.2

This flag has the value 0 for compatibility reasons. Obtains additional information from the engine by issuing the GETAUDITLOG command. For `GPGME_PROTOCOL_CMS` this provides additional information about the X509 certificate chain.

Implemented for: `GPGME_PROTOCOL_CMS`

**GPGME_AUDITLOG_HTML**  
**SINCE:** 1.1.1

Same as `GPGME_AUDITLOG_DEFAULT` but in HTML.

Implemented for: `GPGME_PROTOCOL_CMS`

-- Function: `gpgme_error_t gpgme_op_getauditlog_start (gpgme_ctx_t CTX, gpgme_data_t OUTPUT, unsigned int FLAGS)`  
**SINCE:** 1.1.1
This is the asynchronous variant of gpgme_op_getauditlog.

File: gpgme.info, Node: Key Management, Next: Trust Item Management, Prev: Context Attributes, Up: Contexts

7.5 Key Management
===================

Some of the cryptographic operations require that recipients or signers are specified. This is always done by specifying the respective keys that should be used for the operation. The following section describes how such keys can be selected and manipulated.

* Menu:

  * Key objects:: Description of the key structures.
  * Listing Keys:: Browsing the list of available keys.
  * Information About Keys:: Requesting detailed information about keys.
  * Manipulating Keys:: Operations on keys.
  * Generating Keys:: Creating new key pairs.
  * Signing Keys:: Adding key signatures to public keys.
  * Exporting Keys:: Retrieving key data from the key ring.
  * Importing Keys:: Adding keys to the key ring.
  * Deleting Keys:: Removing keys from the key ring.
  * Changing Passphrases:: Change the passphrase of a key.
  * Changing TOFU Data:: Changing data pertaining to TOFU.
  * Advanced Key Editing:: Advanced key edit operation.

File: gpgme.info, Node: Key objects, Next: Listing Keys, Up: Key Management

7.5.1 Key objects
-----------------

The keys are represented in GPGME by structures which may only be read by the application but never be allocated or changed. They are valid as long as the key object itself is valid.

-- Data type: gpgme_key_t

The gpgme_key_t type is a pointer to a key object. It has the following members:

  gpgme_keylist_mode_t keylist_mode
  SINCE: 0.9.0

  The keylist mode that was active when the key was retrieved.
unsigned int revoked : 1
    This is true if the key is revoked.

unsigned int expired : 1
    This is true if the key is expired.

unsigned int disabled : 1
    This is true if the key is disabled.

unsigned int invalid : 1
    This is true if the key is invalid. This might have several reasons, for example for the S/MIME backend, it will be set during key listings if the key could not be validated due to missing certificates or unmatched policies.

unsigned int can_encrypt : 1
    This is true if the key (i.e. one of its subkeys) can be used for encryption.

unsigned int can_sign : 1
    This is true if the key (i.e. one of its subkeys) can be used to create data signatures.

unsigned int can_certify : 1
    This is true if the key (i.e. one of its subkeys) can be used to create key certificates.

unsigned int can_authenticate : 1
    SINCE: 0.4.5
    This is true if the key (i.e. one of its subkeys) can be used for authentication.

unsigned int is_qualified : 1
    SINCE: 1.1.0
    This is true if the key can be used for qualified signatures according to local government regulations.

unsigned int secret : 1
    This is true if the key is a secret key. Note, that this will always be true even if the corresponding subkey flag may be false (offline/stub keys). This is only set if a listing of secret keys has been requested or if GPGME_KEYLIST_MODE_WITH_SECRET is active.

unsigned int origin : 5
    SINCE: 1.8.0
Reserved for the origin of this key.

gpgme_protocol_t protocol
   This is the protocol supported by this key.

char *issuer_serial
   If protocol is GPGME_PROTOCOL_CMS, then this is the issuer serial.

char *issuer_name
   If protocol is GPGME_PROTOCOL_CMS, then this is the issuer name.

char *chain_id
   If protocol is GPGME_PROTOCOL_CMS, then this is the chain ID, which can be used to build the certificate chain.

gpgme_validity_t owner_trust
   If protocol is GPGME_PROTOCOL_OpenPGP, then this is the owner trust.

gpgme_subkey_t subkeys
   This is a linked list with the subkeys of the key. The first subkey in the list is the primary key and usually available.

gpgme_user_id_t uids
   This is a linked list with the user IDs of the key. The first user ID in the list is the main (or primary) user ID.

char *fpr
   SINCE: 1.7.0

   This field gives the fingerprint of the primary key. Note that this is a copy of the fingerprint of the first subkey. For an incomplete key (for example from a verification result) a subkey may be missing but this field may be set nevertheless.

unsigned long last_update
   SINCE: 1.8.0

   Reserved for the time of the last update of this key.

-- Data type: gpgme_subkey_t
   SINCE: 1.5.0

   The gpgme_subkey_t type is a pointer to a subkey structure.
Subkeys are one component of a gpgme_key_t object. In fact, subkeys are those parts that contain the real information about the individual cryptographic keys that belong to the same key object. One gpgme_key_t can contain several subkeys. The first subkey in the linked list is also called the primary key.

The subkey structure has the following members:

gpgme_subkey_t next
   This is a pointer to the next subkey structure in the linked list, or NULL if this is the last element.

unsigned int revoked : 1
   This is true if the subkey is revoked.

unsigned int expired : 1
   This is true if the subkey is expired.

unsigned int disabled : 1
   This is true if the subkey is disabled.

unsigned int invalid : 1
   This is true if the subkey is invalid.

unsigned int can_encrypt : 1
   This is true if the subkey can be used for encryption.

unsigned int can_sign : 1
   This is true if the subkey can be used to create data signatures.

unsigned int can_certify : 1
   This is true if the subkey can be used to create key certificates.

unsigned int canAuthenticate : 1
   SINCE: 0.4.5

   This is true if the subkey can be used for authentication.

unsigned int is_qualified : 1
   SINCE: 1.1.0

   This is true if the subkey can be used for qualified signatures according to local government regulations.

unsigned int is_de_vs : 1
   SINCE: 1.8.0
This is true if the subkey complies with the rules for classified information in Germany at the restricted level (VS-NfD). This are currently RSA keys of at least 2048 bits or ECDH/ECDSA keys using a Brainpool curve.

unsigned int secret : 1
This is true if the subkey is a secret key. Note that it will be false if the key is actually a stub key; i.e. a secret key operation is currently not possible (offline-key). This is only set if a listing of secret keys has been requested or if GPGME_KEYLIST_MODE_WITH_SECRET is active.

gpgme_pubkey_algo_t pubkey_algo
This is the public key algorithm supported by this subkey.

unsigned int length
This is the length of the subkey (in bits).

char *keyid
This is the key ID of the subkey in hexadecimal digits.

char *fpr
This is the fingerprint of the subkey in hexadecimal digits, if available.

char *keygrip
SINCE: 1.7.0
The keygrip of the subkey in hex digit form or NULL if not available.

long int timestamp
This is the creation timestamp of the subkey. This is -1 if the timestamp is invalid, and 0 if it is not available.

long int expires
This is the expiration timestamp of the subkey, or 0 if the subkey does not expire.

unsigned int is_cardkey : 1
SINCE: 1.2.0
True if the secret key is stored on a smart card.

char *card_number
SINCE: 1.2.0
The serial number of a smart card holding this key or NULL.

char *curve
For ECC algorithms the name of the curve.

Data type: gpgme_user_id_t

A user ID is a component of a gpgme_key_t object. One key can have many user IDs. The first one in the list is the main (or primary) user ID.

The user ID structure has the following members.

gpgme_user_id_t next
This is a pointer to the next user ID structure in the linked list, or NULL if this is the last element.

unsigned int revoked : 1
This is true if the user ID is revoked.

unsigned int invalid : 1
This is true if the user ID is invalid.

gpgme_validity_t validity
This specifies the validity of the user ID.

char *uid
This is the user ID string.

char *name
This is the name component of uid, if available.

char *comment
This is the comment component of uid, if available.

char *email
This is the email component of uid, if available.

char *address;
The mail address (addr-spec from RFC-5322) of the user ID string. This is general the same as the email part of this structure but might be slightly different. If no mail address is available NULL is stored.

gpgme_tofu_info_t tofu
SINCE: 1.7.0

If not NULL information from the TOFU database pertaining to
this user id.

gpgme_key_sig_t signatures
   This is a linked list with the signatures on this user ID.

unsigned int origin : 5
   SINCE: 1.8.0

   Reserved for the origin of this user ID.

unsigned long last_update
   SINCE: 1.8.0

   Reserved for the time of the last update of this user ID.

-- Data type: gpgme_tofu_info_t

   SINCE: 1.7.0

   The gpgme_tofu_info_t type is a pointer to a tofu info structure.
   Tofu info structures are one component of a gpgme_user_id_t
   object, and provide information from the TOFU database pertaining
   to the user ID.

   The tofu info structure has the following members:

   gpgme_key_sig_t next
      This is a pointer to the next tofu info structure in the
      linked list, or NULL if this is the last element.

   unsigned int validity : 3
      This is the TOFU validity. It can have the following values:

      0
         The value 0 indicates a conflict.

      1
         The value 1 indicates a key without history.

      2
         The value 2 indicates a key with too little history.

      3
         The value 3 indicates a key with enough history for
         basic trust.

      4
         The value 4 indicates a key with a lot of history.
unsigned int policy : 4
   This is the TOFU policy, see gpgme_tofu_policy_t.

unsigned short signcount
   This is the number of signatures seen for this binding (or
   USHRT_MAX if there are more than that).

unsigned short encrcount
   This is the number of encryptions done with this binding (or
   USHRT_MAX if there are more than that).

unsigned long signfirst
   Number of seconds since Epoch when the first signature was
   seen with this binding.

unsigned long signlast
   Number of seconds since Epoch when the last signature was seen
   with this binding.

unsigned long encrfirst
   Number of seconds since Epoch when the first encryption was
   done with this binding.

unsigned long encrlast
   Number of seconds since Epoch when the last encryption was
   done with this binding.

char *description
   A human-readable string summarizing the TOFU data (or NULL).

-- Data type: gpgme_key_sig_t

The gpgme_key_sig_t type is a pointer to a key signature
structure. Key signatures are one component of a gpgme_key_t
object, and validate user IDs on the key in the OpenPGP protocol.

The signatures on a key are only available if the key was retrieved
via a listing operation with the GPGME_KEYLIST_MODE_SIGS mode
enabled, because it can be expensive to retrieve all signatures of
a key.

The signature notations on a key signature are only available if
the key was retrieved via a listing operation with the
GPGME_KEYLIST_MODE_SIG_NOTATIONS mode enabled, because it can be
expensive to retrieve all signature notations.

The key signature structure has the following members:
gpgme_key_sig_t next
    This is a pointer to the next key signature structure in the
    linked list, or NULL if this is the last element.

unsigned int revoked : 1
    This is true if the key signature is a revocation signature.

unsigned int expired : 1
    This is true if the key signature is expired.

unsigned int invalid : 1
    This is true if the key signature is invalid.

unsigned int exportable : 1
    This is true if the key signature is exportable.

gpgme_pubkey_algo_t pubkey_algo
    This is the public key algorithm used to create the signature.

char *keyid
    This is the key ID of the key (in hexadecimal digits) used to
    create the signature.

long int timestamp
    This is the creation timestamp of the key signature. This is
    -1 if the timestamp is invalid, and 0 if it is not available.

long int expires
    This is the expiration timestamp of the key signature, or 0 if
    the key signature does not expire.

gpgme_error_t status
    This is the status of the signature and has the same meaning
    as the member of the same name in a gpgme_signature_t
    object.

unsigned int sig_class
    This specifies the signature class of the key signature. The
    meaning is specific to the crypto engine.

char *uid
    This is the main user ID of the key used to create the
    signature.

char *name
    This is the name component of uid, if available.
char *comment
This is the comment component of uid, if available.

char *email
This is the email component of uid, if available.

gpgme_sig_notation_t notations
This is a linked list with the notation data and policy URLs.

File: gpgme.info, Node: Listing Keys, Next: Information About Keys, Prev: Key objects, Up: Key Management

7.5.2 Listing Keys
------------------

-- Function: gpgme_error_t gpgme_op_keylist_start (gpgme_ctx_t CTX,
const char *PATTERN, int SECRET_ONLY)

The function gpgme_op_keylist_start initiates a key listing operation inside the context CTX. It sets everything up so that subsequent invocations of gpgme_op_keylist_next return the keys in the list.

If PATTERN is NULL, all available keys are returned. Otherwise, PATTERN contains an engine specific expression that is used to limit the list to all keys matching the pattern. Note that the total length of the pattern is restricted to an engine-specific maximum (a couple of hundred characters are usually accepted). The pattern should be used to restrict the search to a certain common name or user, not to list many specific keys at once by listing their fingerprints or key IDs.

If SECRET_ONLY is not 0, the list is restricted to secret keys only.

The context will be busy until either all keys are received (and gpgme_op_keylist_next returns GPG_ERR_EOF), or gpgme_op_keylist_end is called to finish the operation.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_keylist_ext_start (gpgme_ctx_t CTX,
const char *PATTERN[], int SECRET_ONLY, int RESERVED)

The function gpgme_op_keylist_ext_start initiates an extended key listing operation inside the context CTX. It sets everything up so
that subsequent invocations of gpgme_op_keylist_next return the keys in the list.

If PATTERN or *PATTERN is NULL, all available keys are returned. Otherwise, PATTERN is a NULL terminated array of strings that are used to limit the list to all keys matching at least one of the patterns verbatim. Note that the total length of all patterns is restricted to an engine-specific maximum (the exact limit also depends on the number of patterns and amount of quoting required, but a couple of hundred characters are usually accepted). Patterns should be used to restrict the search to a certain common name or user, not to list many specific keys at once by listing their fingerprints or key IDs.

If SECRET_ONLY is not 0, the list is restricted to secret keys only.

The value of RESERVED must be 0.

The context will be busy until either all keys are received (and gpgme_op_keylist_next returns GPG_ERR_EOF), or gpgme_op_keylist_end is called to finish the operation.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_keylist_from_data_start
   (gpgme_ctx_t CTX, gpgme_data_t DATA, int RESERVED)

SINCE: 1.8.0

The function gpgme_op_keylist_from_data_start initiates a key listing operation inside the context CTX. In contrast to the other key listing operation the keys are read from the supplied DATA and not from the local key database. The keys are also not imported into the local key database. The function sets everything up so that subsequent invocations of gpgme_op_keylist_next return the keys from DATA.

The value of RESERVED must be 0.

This function requires at least GnuPG version 2.1.14 and currently works only with OpenPGP keys.

The context will be busy until either all keys are received (and gpgme_op_keylist_next returns GPG_ERR_EOF), or gpgme_op_keylist_end is called to finish the operation. While
the context is busy DATA may not be released.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_keylist_next (gpgme_ctx_t CTX, gpgme_key_t *R_KEY)

The function gpgme_op_keylist_next returns the next key in the list created by a previous gpgme_op_keylist_start operation in the context CTX. The key will have one reference for the user.

*Note Manipulating Keys:::

This is the only way to get at gpgme_key_t objects in GPGME.

If the last key in the list has already been returned, gpgme_op_keylist_next returns GPG_ERR_EOF.

The function returns the error code GPG_ERR_INV_VALUE if CTX or R_KEY is not a valid pointer, and GPG_ERR_ENOMEM if there is not enough memory for the operation.

-- Function: gpgme_error_t gpgme_op_keylist_end (gpgme_ctx_t CTX)

The function gpgme_op_keylist_end ends a pending key list operation in the context CTX.

After the operation completed successfully, the result of the key listing operation can be retrieved with gpgme_op_keylist_result.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and GPG_ERR_ENOMEM if at some time during the operation there was not enough memory available.

The following example illustrates how all keys containing a certain string (g10code) can be listed with their key ID and the name and email address of the main user ID:

gpgme_ctx_t ctx;
gpgme_key_t key;
gpgme_error_t err = gpgme_new (&ctx);

if (!err)
{
    err = gpgme_op_keylist_start (ctx, "g10code", 0);
    while (!err)
    {
        /* More code here */
    }
    gpgme_op_keylist_end (ctx);
}
err = gpgme_op_keylist_next (ctx, &key);
if (err)
    break;
printf ("%s:", key->subkeys->keyid);
if (key->uids && key->uids->name)
    printf (" %s", key->uids->name);
if (key->uids && key->uids->email)
    printf (" <%s>", key->uids->email);
putchar (\n);
gpgme_key_release (key);
}
gpgme_release (ctx);
}
if (gpg_err_code (err) != GPG_ERR_EOF)
{
    fprintf (stderr, "can not list keys: %s\n", gpgme_strerror (err));
    exit (1);
}

-- Data type: gpgme_keylist_result_t
This is a pointer to a structure used to store the result of a
gpgme_op_keylist_* operation. After successfully ending a key
listing operation, you can retrieve the pointer to the result with
gpgme_op_keylist_result. The structure contains the following
member:

        unsigned int truncated : 1
This is true if the crypto backend had to truncate the result,
and less than the desired keys could be listed.

-- Function: gpgme_keylist_result_t gpgme_op_keylist_result
    (gpgme_ctx_t CTX)
The function gpgme_op_keylist_result returns a
gpgme_keylist_result_t pointer to a structure holding the result
of a gpgme_op_keylist_* operation. The pointer is only valid if
the last operation on the context was a key listing operation, and
if this operation finished successfully. The returned pointer is
only valid until the next operation is started on the context.

In a simple program, for which a blocking operation is acceptable,
the following function can be used to retrieve a single key.

-- Function: gpgme_error_t gpgme_get_key (gpgme_ctx_t CTX,
    const char *FPR, gpgme_key_t *R_KEY, int SECRET)
The function gpgme_get_key gets the key with the fingerprint (or
key ID) FPR from the crypto backend and return it in R_KEY. If
SECRET is true, get the secret key. The currently active keylist
mode is used to retrieve the key. The key will have one reference
for the user.

If the key is not found in the keyring, gpgme_get_key returns the error code GPG_ERR_EOF and *R_KEY will be set to NULL.

The function returns the error code GPG_ERR_INV_VALUE if CTX or R_KEY is not a valid pointer or FPR is not a fingerprint or key ID, GPG_ERR_AMBIGUOUS_NAME if the key ID was not a unique specifier for a key, and GPG_ERR_ENOMEM if at some time during the operation there was not enough memory available.


7.5.3 Information About Keys

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Please see the beginning of this section for more information about gpgme_key_t objects.

-- Data type: gpgme_validity_t
The gpgme_validity_t type is used to specify the validity of a user ID in a key. The following validities are defined:

GPGME_VALIDITY_UNKNOWN
The user ID is of unknown validity. The string representation of this validity is ?.

GPGME_VALIDITY_UNDEFINED
The validity of the user ID is undefined. The string representation of this validity is q.

GPGME_VALIDITY_NEVER
The user ID is never valid. The string representation of this validity is n.

GPGME_VALIDITY_MARGINAL
The user ID is marginally valid. The string representation of this validity is m.

GPGME_VALIDITY_FULL
The user ID is fully valid. The string representation of this validity is f.

GPGME_VALIDITY_ULTIMATE
The user ID is ultimately valid. The string representation of this validity is u.
7.5.4 Manipulating Keys

-- Function: void gpgme_key_ref (gpgme_key_t KEY)

The function gpgme_key_ref acquires an additional reference for the key KEY.

-- Function: void gpgme_key_unref (gpgme_key_t KEY)

The function gpgme_key_unref releases a reference for the key KEY. If this was the last reference, the key will be destroyed and all resources associated to it will be released.

7.5.5 Generating Keys

GPGME provides a set of functions to create public key pairs. Most of these functions require the use of GnuPG 2.1 and later; for older GnuPG versions the gpgme_op_genkey function can be used. Existing code which wants to update to the new functions or new code which shall supports older GnuPG versions may try the new functions first and provide a fallback to the old function if the error code GPG_ERR_NOT_SUPPORTED is received.

-- Function: gpgme_error_t gpgme_op_createkey (gpgme_ctx_t CTX, const char *USERID, const char *ALGO, unsigned long RESERVED, unsigned long EXPIRES, gpgme_key_t EXTRAKEY, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_createkey generates a new key for the protocol active in the context CTX. As of now this function does only work for OpenPGP and requires at least version 2.1.13 of GnuPG.

USERID is commonly the mail address associated with the key. GPGME does not require a specific syntax but if more than a mail address is given, RFC-822 style format is suggested. The value is expected to be in UTF-8 encoding (i.e. no IDN encoding for mail addresses). This is a required parameter.
ALGO specifies the algorithm for the new key (actually a keypair of public and private key). For a list of supported algorithms, see the GnuPG manual. If ALGO is NULL or the string "default", the key is generated using the default algorithm of the engine. If the string "future-default" is used the engine may use an algorithm which is planned to be the default in a future release of the engine; however existing implementation of the protocol may not be able to already handle such future algorithms. For the OpenPGP protocol, the specification of a default algorithm, without requesting a non-default usage via FLAGS, triggers the creation of a primary key plus a secondary key (subkey).

RESERVED must be set to zero.

EXPIRES specifies the expiration time in seconds. If you supply 0, a reasonable expiration time is chosen. Use the flag GPGME_CREATE_NOEXPIRE to create keys that do not expire. Note that this parameter takes an unsigned long value and not a time_t to avoid problems on systems which use a signed 32 bit time_t. Note further that the OpenPGP protocol uses 32 bit values for timestamps and thus can only encode dates up to the year 2106.

EXTRAKEY is currently not used and must be set to NULL. A future version of GPGME may use this parameter to create X.509 keys.

FLAGS can be set to the bit-wise OR of the following flags:

- GPGME_CREATE_SIGN
- GPGME_CREATE_ENCR
- GPGME_CREATE_CERT
- GPGME_CREATE_AUTH

SINCE: 1.7.0

Do not create the key with the default capabilities (key usage) of the requested algorithm but use those explicitly given by these flags: signing, encryption, certification, or authentication. The allowed combinations depend on the algorithm.

If any of these flags are set and a default algorithm has been selected only one key is created in the case of the OpenPGP protocol.

GPGME_CREATE_NOPASSWD

SINCE: 1.7.0

Request generation of the key without password protection.
GPGME_CREATE_SELFsigned
SINCE: 1.7.0

For an X.509 key do not create a CSR but a self-signed certificate. This has not yet been implemented.

GPGME_CREATE_NOSTORE
SINCE: 1.7.0

Do not store the created key in the local key database. This has not yet been implemented.

GPGME_CREATE_WANTPUB
GPGME_CREATE_WANTSEC
SINCE: 1.7.0

Return the public or secret key as part of the result structure. This has not yet been implemented.

GPGME_CREATE_FORCE
SINCE: 1.7.0

The engine does not allow the creation of a key with a user ID already existing in the local key database. This flag can be used to override this check.

GPGME_CREATE_NOEXPIRE
SINCE: 1.8.0

Request generation of keys that do not expire.

After the operation completed successfully, information about the created key can be retrieved with gpgme_op_genkey_result.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_createkey_start (gpgme_ctx_t CTX,
const char *USERID, const char *ALGO, unsigned long RESERVED,
unsigned long EXPIRES, gpgme_key_t EXTRAKEY,
unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_createkey_start initiates a gpgme_op_createkey operation; see there for details. It must be
completed by calling gpgme_wait on the context. *Note Waiting
For Completion::

-- Function: gpgme_error_t gpgme_op_createsubkey (gpgme_ctx_t CTX,
gpgme_key_t KEY, const char *ALGO, unsigned long RESERVED,
unsigned long EXPIRES, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_createsubkey creates and adds a new subkey
to the primary OpenPGP key given by KEY. The only allowed protocol
in CTX is GPGME_PROTOCOL_OPENPGP. Subkeys (aka secondary keys)
are a concept in the OpenPGP protocol to bind several keys to a
primary key. As of now this function requires at least version
2.1.13 of GnuPG.

KEY specifies the key to operate on.

ALGO specifies the algorithm for the new subkey. For a list of
supported algorithms, see the GnuPG manual. If ALGO is NULL or
the string "default", the subkey is generated using the default
algorithm for an encryption subkey of the engine. If the string
"future-default" is used the engine may use an encryption algorithm
which is planned to be the default in a future release of the
engine; however existing implementation of the protocol may not be
able to already handle such future algorithms.

RESERVED must be set to zero.

EXPIRES specifies the expiration time in seconds. If you supply 0,
a reasonable expiration time is chosen. Use the flag
GPGME_CREATE_NOEXPIRE to create keys that do not expire. Note
that this parameter takes an unsigned long value and not a time_t
to avoid problems on systems which use a signed 32 bit time_t.
Note further that the OpenPGP protocol uses 32 bit values for
timestamps and thus can only encode dates up to the year 2106.

FLAGS takes the same values as described above for
gpgme_op_createkey.

After the operation completed successfully, information about the
created key can be retrieved with gpgme_op_genkey_result.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if
the engine does not support the command, or a bunch of other error
codes.

-- Function: gpgme_error_t gpgme_op_createsubkey_start
(gpgme_ctx_t CTX, gpgme_key_t KEY, const char *ALGO,
unsigned long RESERVED, unsigned long EXPIRES,
unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_createsubkey_start initiates a
gpgme_op_createsubkey operation; see there for details. It must
be completed by calling gpgme_wait on the context. *Note Waiting
For Completion::.

-- Function: gpgme_error_t gpgme_op_adduid (gpgme_ctx_t CTX,
gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_adduid adds a new user ID to the OpenPGP
key given by KEY. Adding additional user IDs after key creation is
a feature of the OpenPGP protocol and thus the protocol for the
context CTX must be set to OpenPGP. As of now this function
requires at least version 2.1.13 of GnuPG.

KEY specifies the key to operate on.

USERID is the user ID to add to the key. A user ID is commonly the
mail address to be associated with the key. GPGME does not require
a specific syntax but if more than a mail address is given, RFC-822
style format is suggested. The value is expected to be in UTF-8
encoding (i.e. no IDN encoding for mail addresses). This is a
required parameter.

FLAGS are currently not used and must be set to zero.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if
the engine does not support the command, or a bunch of other error
codes.

-- Function: gpgme_error_t gpgme_op_adduid_start (gpgme_ctx_t CTX,
gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_adduid_start initiates a gpgme_op_adduid
operation; see there for details. It must be completed by calling
gpgme_wait on the context. *Note Waiting For Completion::.

-- Function: gpgme_error_t gpgme_op_revuid (gpgme_ctx_t CTX,
gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);
The function `gpgme_op_revuid` revokes a user ID from the OpenPGP key given by `KEY`. Revoking user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context `CTX` must be set to OpenPGP. As of now this function requires at least version 2.1.13 of GnuPG.

`KEY` specifies the key to operate on.

`USERID` is the user ID to be revoked from the key. The user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the uid field from the user ID object (`gpgme_user_id_t`) is to be used. This is a required parameter.

`FLAGS` are currently not used and must be set to zero.

Note that the engine won't allow to revoke the last valid user ID. To change a user ID is better to first add the new user ID, then revoke the old one, and finally publish the key.

The function returns zero on success, `GPG_ERR_NOT_SUPPORTED` if the engine does not support the command, or a bunch of other error codes.

```c
-- Function: gpgme_error_t gpgme_op_revuid_start (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);
```

The function `gpgme_op_revuid_start` initiates a `gpgme_op_revuid` operation; see there for details. It must be completed by calling `gpgme_wait` on the context. *Note Waiting For Completion;*

```c
-- Function: gpgme_error_t gpgme_op_set_ui_flag (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *USERID, const char * NAME, const char * VALUE);
```

The function `gpgme_op_set_ui_flag` is used to set flags on a user ID from the OpenPGP key given by `KEY`. Setting flags on user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context `CTX` must be set to OpenPGP.

`KEY` specifies the key to operate on. This parameter is required.
USERID is the user ID of the key to be manipulated. This user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the uid field from the user ID object (gpgme_user_id_t) is to be used. This is a required parameter.

NAME names the flag which is to be changed. The only currently supported flag is:

primary

This sets the primary key flag on the given user ID. All other primary key flag on other user IDs are removed. VALUE must be given as NULL. For technical reasons this function bumps the creation timestamp of all affected self-signatures up by one second. At least GnuPG version 2.1.20 is required.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_set_uid_flag_start
    (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *USERID,
     const char * NAME, cons char * VALUE);

SINCE: 1.8.0

The function gpgme_op_set_uid_flag_start initiates a gpgme_op_set_uid_flag operation; see there for details. It must be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*

-- Function: gpgme_error_t gpgme_op_genkey (gpgme_ctx_t CTX,
     const char *PARMS, gpgme_data_t PUBLIC, gpgme_data_t SECRET)

The function gpgme_op_genkey generates a new key pair in the context CTX. The meaning of PUBLIC and SECRET depends on the crypto backend.

GPG does not support PUBLIC and SECRET, they should be NULL. GnuPG will generate a key pair and add it to the standard key ring. The fingerprint of the generated key is available with gpgme_op_genkey_result.

GpgSM requires PUBLIC to be a writable data object. GpgSM will generate a secret key (which will be stored by gpg-agent, and return a certificate request in PUBLIC, which then needs to be signed by the certification authority and imported before it can be used. GpgSM does not make the fingerprint available.
The argument PARMS specifies parameters for the key in an string that looks something like XML. The details about the format of PARMS are specific to the crypto engine used by CTX. The first line of the parameters must be `<GnupgKeyParams format="internal">` and the last line must be `</GnupgKeyParams>`. Every line in between the first and last lines is treated as a Header: Value pair. In particular, no XML escaping is necessary if you need to include the characters <, >, or &.

Here is an example for GnuPG as the crypto engine (all parameters of OpenPGP key generation are documented in the GPG manual):

```
<GnupgKeyParms format="internal">
  Key-Type: default
  Subkey-Type: default
  Name-Real: Joe Tester
  Name-Comment: with stupid passphrase
  Name-Email: joe@foo.bar
  Expire-Date: 0
  Passphrase: abc
</GnupgKeyParms>
```

Here is an example for GpgSM as the crypto engine (all parameters of OpenPGP key generation are documented in the GPGSM manual):

```
<GnupgKeyParms format="internal">
  Key-Type: RSA
  Key-Length: 1024
  Name-DN: C=de,O=g10 code,OU=Testlab,CN=Joe 2 Tester
  Name-Email: joe@foo.bar
</GnupgKeyParms>
```

Strings should be given in UTF-8 encoding. The only format supported for now is internal. The content of the GnupgKeyParms container is passed verbatim to the crypto backend. Control statements are not allowed.

After the operation completed successfully, the result can be retrieved with `gpgme_op_genkey_result`.

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, GPG_ERR_INV_VALUE if PARMS is not a well-formed string (e.g. does not have the expected tag-like headers and footers), GPG_ERR_NOT_SUPPORTED if PUBLIC or SECRET is not valid, and GPG_ERR_GENERAL if no key was created by the backend.

-- Function: gpgme_error_t gpgme_op_genkey_start (gpgme_ctx_t CTX,
const char *PARMS, gpgme_data_t PUBLIC, gpgme_data_t SECRET)

The function gpgme_op_genkey_start initiates a gpgme_op_genkey operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, GPG_ERR_INV_VALUE if PARMS is not a valid XML string, and GPG_ERR_NOT_SUPPORTED if PUBLIC or SECRET is not NULL.

-- Data type: gpgme_genkey_result_t

This is a pointer to a structure used to store the result of a gpgme_op_genkey operation. After successfully generating a key, you can retrieve the pointer to the result with gpgme_op_genkey_result. The structure contains the following members:

unsigned int primary : 1
  This flag is set to 1 if a primary key was created and to 0 if not.

unsigned int sub : 1
  This flag is set to 1 if a subkey was created and to 0 if not.

unsigned int uid : 1
  This flag is set to 1 if a user ID was created and to 0 if not.

cchar *fpr
  This is the fingerprint of the key that was created. If both a primary and a subkey were generated, the fingerprint of the primary key will be returned. If the crypto engine does not provide the fingerprint, fpr will be a null pointer.

gpgme_data_t pubkey
  SINCE: 1.7.0

  This will eventually be used to return the public key. It is currently not used.

gpgme_data_t seckey
  SINCE: 1.7.0

  This will eventually be used to return the secret key. It is currently not used.
The function gpgme_op_genkey_result returns a gpgme_genkey_result_t pointer to a structure holding the result of a gpgme_op_genkey operation. The pointer is only valid if the last operation on the context was a gpgme_op_genkey or gpgme_op_genkey_start operation, and if this operation finished successfully. The returned pointer is only valid until the next operation is started on the context.


7.5.6 Signing Keys

Key signatures are a unique concept of the OpenPGP protocol. They can be used to certify the validity of a key and are used to create the Web-of-Trust (WoT). Instead of using the gpgme_op_interact function along with a finite state machine, GPGME provides a convenient function to create key signatures when using modern GnuPG versions.

SINCE: 1.7.0

The function gpgme_op_keysign adds a new key signature to the public key KEY. This function requires at least version 2.1.12 of GnuPG.

CTX is the usual context which describes the protocol to use (which must be OpenPGP) and has also the list of signer keys to be used for the signature. The common case is to use the default key for signing other keys. If another key or more than one key shall be used for a key signature, gpgme_signers_add can be used. *Note Selecting Signers::.

KEY specifies the key to operate on.

USERID selects the user ID or user IDs to be signed. If USERID is set to NULL all valid user IDs are signed. The user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the uid field from the user ID object (gpgme_user_id_t) is to be used. To select more than one user ID put them all into one string separated by linefeeds characters.
and set the flag GPGME KEYSIGN_LFSEP.

EXPIRES specifies the expiration time of the new signature in seconds. The common case is to use 0 to not set an expiration date. However, if the configuration of the engine defines a default expiration for key signatures, that is still used unless the flag GPGME KEYSIGN_NOEXPIRE is used. Note that this parameter takes an unsigned long value and not a time_t to avoid problems on systems which use a signed 32 bit time_t. Note further that the OpenPGP protocol uses 32 bit values for timestamps and thus can only encode dates up to the year 2106.

FLAGS can be set to the bit-wise OR of the following flags:

GPGME KEYSIGN_LOCAL
SINCE: 1.7.0

Instead of creating an exportable key signature, create a key signature which is marked as non-exportable.

GPGME KEYSIGN_LFSEP
SINCE: 1.7.0

Although linefeeds are uncommon in user IDs this flag is required to explicitly declare that USERID may contain several linefeed separated user IDs.

GPGME KEYSIGN_NOEXPIRE

Force the creation of a key signature without an expiration date. This overrides EXPIRE and any local configuration of the engine.

The function returns zero on success, GPG_ERR NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_keysign_start (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *USERID, unsigned long EXPIRES, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_keysign_start initiates a gpgme_op_keysign operation; see there for details. It must be completed by calling gpgme_wait on the context. *Note Waiting For Completion:::
7.5.7 Exporting Keys
------------------------

Exporting keys means the same as running gpg with the command
--export. However, a mode flag can be used to change the way the
export works. The available mode flags are described below, they may be
or-ed together.

GPGME_EXPORT_MODE_EXTERN
    If this bit is set, the output is send directly to the default
    keyservcer. This is currently only allowed for OpenPGP keys. It is
    good practice to not send more than a few dozens key to a keyservcer
    at one time. Using this flag requires that the KEYDATA argument of
    the export function is set to NULL.

GPGME_EXPORT_MODE_MINIMAL
    SINCE: 1.3.1
    If this bit is set, the smallest possible key is exported. For
    OpenPGP keys it removes all signatures except for the latest
    self-signatures. For X.509 keys it has no effect.

GPGME_EXPORT_MODE_SECRET
    SINCE: 1.6.0
    Instead of exporting the public key, the secret key is exported.
    This may not be combined with GPGME_EXPORT_MODE_EXTERN. For
    X.509 the export format is PKCS#8.

GPGME_EXPORT_MODE_RAW
    SINCE: 1.6.0
    If this flag is used with GPGME_EXPORT_MODE_SECRET for an X.509
    key the export format will be changed to PKCS#1. This flag may not
    be used with OpenPGP.

GPGME_EXPORT_MODE_PKCS12
    SINCE: 1.6.0
    If this flag is used with GPGME_EXPORT_MODE_SECRET for an X.509
    key the export format will be changed to PKCS#12 which also
    includes the certificate. This flag may not be used with OpenPGP.

GPGME_EXPORT_MODE_NOUID
    SINCE: 1.12.0 - experimental Do not export user ids. Works only
    with certain gpg version.
The function `gpgme_op_export` extracts public keys and returns them in the data buffer `KEYDATA`. The output format of the key data returned is determined by the ASCII armor attribute set for the context `CTX`, or, if that is not set, by the encoding specified for `KEYDATA`.

If `PATTERN` is NULL, all available keys are returned. Otherwise, `PATTERN` contains an engine specific expression that is used to limit the list to all keys matching the pattern.

`MODE` is usually 0; other values are described above.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation completed successfully, `GPG_ERR_INV_VALUE` if `KEYDATA` is not a valid empty data buffer, and passes through any errors that are reported by the crypto engine support routines.

The function `gpgme_op_export_start` initiates a `gpgme_op_export` operation. It can be completed by calling `gpgme_wait` on the context. *Note Waiting For Completion:*

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, and `GPG_ERR_INV_VALUE` if `KEYDATA` is not a valid empty data buffer.

The function `gpgme_op_export` extracts public keys and returns them in the data buffer `KEYDATA`. The output format of the key data returned is determined by the ASCII armor attribute set for the context `CTX`, or, if that is not set, by the encoding specified for `KEYDATA`.

If `PATTERN` or `*PATTERN` is NULL, all available keys are returned. Otherwise, `PATTERN` is a NULL terminated array of strings that are used to limit the list to all keys matching at least one of the patterns verbatim.

`MODE` is usually 0; other values are described above.
The function returns the error code GPG_ERR_NO_ERROR if the operation completed successfully, GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_export_ext_start (gpgme_ctx_t CTX, const char *PATTERN[], gpgme_export_mode_t MODE, gpgme_data_t KEYDATA)
The function gpgme_op_export_ext_start initiates a gpgme_op_export_ext operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer.

-- Function: gpgme_error_t gpgme_op_export_keys (gpgme_ctx_t CTX, gpgme_key_t KEYS[], gpgme_export_mode_t MODE, gpgme_data_t KEYDATA)
SINCE: 1.2.0

The function gpgme_op_export_keys extracts public keys and returns them in the data buffer KEYDATA. The output format of the key data returned is determined by the ASCII armor attribute set for the context CTX, or, if that is not set, by the encoding specified for KEYDATA.

The keys to export are taken form the NULL terminated array KEYS. Only keys of the currently selected protocol of CTX which do have a fingerprint set are considered for export. Other keys specified by the KEYS are ignored. In particular OpenPGP keys retrieved via an external key listing are not included.

MODE is usually 0; other values are described above.

The function returns the error code GPG_ERR_NO_ERROR if the operation completed successfully, GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer, GPG_ERR_NO_DATA if no useful keys are in KEYS and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_export_keys_start (gpgme_ctx_t CTX, gpgme_key_t KEYS[], gpgme_export_mode_t MODE, gpgme_data_t KEYDATA)
SINCE: 1.2.0

The function gpgme_op_export_keys_start initiates a gpgme_op_export_ext operation. It can be completed by calling
The function returns the error code GPG_ERR_NO_ERROR if the import could be started successfully, GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer, GPG_ERR_NO_DATA if no useful keys are in KEYS and passes through any errors that are reported by the crypto engine support routines.

NULL terminated array KEYS to the key ring of the crypto engine used by CTX. It is used to actually import and make keys permanent which have been retrieved from an external source (i.e. using GPGME_KEYLIST_MODE_EXTERN) earlier. The external keylisting must have been made with the same context configuration (in particular the same home directory). (1) Note that for OpenPGP this may require another access to the keyserver over the network.

Only keys of the currently selected protocol of CTX are considered for import. Other keys specified by the KEYS are ignored. As of now all considered keys must have been retrieved using the same method, i.e. the used key listing mode must be identical.

After the operation completed successfully, the result can be retrieved with gpgme_op_import_result.

To move keys from one home directory to another, export and import the keydata using gpgme_op_export and gpgme_op_import.

The function returns the error code GPG_ERR_NO_ERROR if the import was completed successfully, GPG_ERR_INV_VALUE if CTX is not a valid pointer, GPG_ERR_CONFLICT if the key listing mode does not match, and GPG_ERR_NO_DATA if no keys are considered for export.

-- Function: gpgme_error_t gpgme_op_import_keys_start (gpgme_ctx_t CTX, gpgme_key_t *KEYS)
SINCE: 1.2.0

The function gpgme_op_import_keys_start initiates a gpgme_op_import_keys operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the import was completed successfully, GPG_ERR_INV_VALUE if KEYDATA if CTX or KEYDATA is not a valid pointer, GPG_ERR_CONFLICT if the key listing mode does not match, and GPG_ERR_NO_DATA if no keys are considered for export.

-- Data type: gpgme_import_status_t

This is a pointer to a structure used to store a part of the result of a gpgme_op_import operation. For each considered key one status is added that contains information about the result of the import. The structure contains the following members:

gpgme_import_status_t next
This is a pointer to the next status structure in the linked list, or NULL if this is the last element.
char *fpr
    This is the fingerprint of the key that was considered.

gpgme_error_t result
    If the import was not successful, this is the error value that caused the import to fail. Otherwise the error code is GPG_ERR_NO_ERROR.

unsigned int status
    This is a bit-wise OR of the following flags that give more information about what part of the key was imported. If the key was already known, this might be 0.

    GPGME_IMPORT_NEW
        The key was new.

    GPGME_IMPORT_UID
        The key contained new user IDs.

    GPGME_IMPORT_SIG
        The key contained new signatures.

    GPGME_IMPORT_SUBKEY
        The key contained new sub keys.

    GPGME_IMPORT_SECRET
        The key contained a secret key.

-- Data type: gpgme_import_result_t
    This is a pointer to a structure used to store the result of a gpgme_op_import operation. After a successful import operation, you can retrieve the pointer to the result with gpgme_op_import_result. The structure contains the following members:

    int considered
        The total number of considered keys.

    int no_user_id
        The number of keys without user ID.

    int imported
        The total number of imported keys.

    int imported_rsa
        The number of imported RSA keys.
int unchanged
    The number of unchanged keys.

int new_user_ids
    The number of new user IDs.

int new_sub_keys
    The number of new sub keys.

int new_signatures
    The number of new signatures.

int new_revocations
    The number of new revocations.

int secret_read
    The total number of secret keys read.

int secret_imported
    The number of imported secret keys.

int secret_unchanged
    The number of unchanged secret keys.

int not_imported
    The number of keys not imported.

gpgme_import_status_t imports
    A list of gpgme_import_status_t objects which contain more
    information about the keys for which an import was attempted.

int skipped_v3_keys
    For security reasons modern versions of GnuPG do not anymore
    support v3 keys (created with PGP 2.x) and ignores them on
    import. This counter provides the number of such skipped v3
    keys.

-- Function: gpgme_import_result_t gpgme_op_import_result
    (gpgme_ctx_t CTX)
    The function gpgme_op_import_result returns a
    gpgme_import_result_t pointer to a structure holding the result
    of a gpgme_op_import operation. The pointer is only valid if the
    last operation on the context was a gpgme_op_import or
    gpgme_op_import_start operation, and if this operation finished
    successfully. The returned pointer is only valid until the next
    operation is started on the context.

--------- Footnotes ---------
(1) Thus it is a replacement for the usual workaround of exporting and then importing a key to make an X.509 key permanent.


7.5.9 Deleting Keys

-------------------

-- Function: gpgme_error_t gpgme_op_delete_ext (gpgme_ctx_t CTX, const gpgme_key_t KEY, unsigned int FLAGS)
SINCE: 1.9.1

The function gpgme_op_delete_ext deletes the key KEY from the key ring of the crypto engine used by CTX.

FLAGS can be set to the bit-wise OR of the following flags:

GPGME_DELETE_ALLOW_SECRET
SINCE: 1.9.1

If not set, only public keys are deleted. If set, secret keys are deleted as well, if that is supported.

GPGME_DELETE_FORCE
SINCE: 1.9.1

If set, the user is not asked to confirm the deletion.

The function returns the error code GPG_ERR_NO_ERROR if the key was deleted successfully, GPG_ERR_INV_VALUE if CTX or KEY is not a valid pointer, GPG_ERR_NO_PUBKEY if KEY could not be found in the keyring, GPG_ERR_AMBIGUOUS_NAME if the key was not specified unambiguously, and GPG_ERR_CONFLICT if the secret key for KEY is available, but ALLOW_SECRET is zero.

-- Function: gpgme_error_t gpgme_op_delete_ext_start (gpgme_ctx_t CTX, const gpgme_key_t KEY, unsigned int FLAGS)
SINCE: 1.9.1

The function gpgme_op_delete_ext_start initiates a gpgme_op_delete operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*.

The function returns the error code GPG_ERR_NO_ERROR if the operation was started successfully, and GPG_ERR_INV_VALUE if CTX
or KEY is not a valid pointer.

The following functions allow only to use one particular flag.

-- Function: gpgme_error_t gpgme_op_delete (gpgme_ctx_t CTX,  
    const gpgme_key_t KEY, int ALLOW_SECRET)  
  Similar to gpgme_op_delete_ext, but only the flag  
  GPGME_DELETE_ALLOW_SECRET can be provided.

-- Function: gpgme_error_t gpgme_op_delete_start (gpgme_ctx_t CTX,  
    const gpgme_key_t KEY, int ALLOW_SECRET)  
  Similar to gpgme_op_delete_ext_start, but only the flag  
  GPGME_DELETE_ALLOW_SECRET can be provided.


7.5.10 Changing Passphrases
-----------------------------------

-- Function: gpgme_error_t gpgme_op_passwd (gpgme_ctx_t CTX,  
    const gpgme_key_t KEY, unsigned int FLAGS)

SINCE: 1.3.0

The function gpgme_op_passwd changes the passphrase of the  
private key associated with KEY. The only allowed value for FLAGS  
is 0. The backend engine will usually popup a window to ask for  
the old and the new passphrase. Thus this function is not useful  
in a server application (where passphrases are not required  
anyway).

Note that old gpg engines (before version 2.0.15) do not support  
this command and will silently ignore it.

-- Function: gpgme_error_t gpgme_op_passwd_start (gpgme_ctx_t CTX,  
    const gpgme_key_t KEY, unsigned int FLAGS)

SINCE: 1.3.0

The function gpgme_op_passwd_start initiates a gpgme_op_passwd  
operation. It can be completed by calling gpgme_wait on the  
context. *Note Waiting For Completion::.

The function returns 0 if the operation was started successfully,  
and an error code if one of the arguments is not valid or the  
operation could not be started.
7.5.11 Changing TOFU Data

The OpenPGP engine features a Trust-On-First-Use (TOFU) key validation model. For resolving conflicts it is necessary to declare the policy for a key. See the GnuPG manual for details on the TOFU implementation.

-- Data type: enum gpgme_tofu_policy_t
   SINCE: 1.7.0

The gpgme_tofu_policy_t type specifies the set of possible policy values that are supported by GPGME:

- GPGME_TOFU_POLICY_AUTO
  Set the policy to auto.
- GPGME_TOFU_POLICY_GOOD
  Set the policy to good.
- GPGME_TOFU_POLICY_BAD
  Set the policy to bad.
- GPGME_TOFU_POLICY_ASK
  Set the policy to ask.
- GPGME_TOFU_POLICY_UNKNOWN
  Set the policy to unknown.

To change the policy for a key the following functions can be used:

-- Function: gpgme_error_t gpgme_op_tofu_policy (gpgme_ctx_t CTX,
   const gpgme_key_t KEY, gpgme_tofu_policy_t POLICY)
   SINCE: 1.7.0

The function gpgme_op_tofu_policy changes the TOFU policy of KEY. The valid values for POLICY are listed above. As of now this function does only work for OpenPGP and requires at least version 2.1.10 of GnuPG.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_tofu_policy_start (gpgme_ctx_t CTX,
   const gpgme_key_t KEY, gpgme_tofu_policy_t POLICY)
The function gpgme_op_tofu_policy_start initiates a gpgme_op_tofu_policy operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::.

The function returns 0 if the operation was started successfully, and an error code if one of the arguments is not valid or the operation could not be started.


7.5.12 Advanced Key Editing
--------------------------------

-- Data type: gpgme_error_t (*gpgme_interact_cb_t) (void *HANDLE, const char *STATUS, const char *ARGS, int FD)

SINCE: 1.7.0

The gpgme_interact_cb_t type is the type of functions which GPGME calls if a key interact operation is on-going. The status keyword STATUS and the argument line ARGS are passed through by GPGME from the crypto engine. An empty string represents EOF. The file descriptor FD is -1 for normal status messages. If STATUS indicates a command rather than a status message, the response to the command should be written to FD. The HANDLE is provided by the user at start of operation.

The function should return GPG_ERR_FALSE if it did not handle the status code, 0 for success, or any other error value.

-- Function: gpgme_error_t gpgme_op_interact (gpgme_ctx_t CTX, gpgme_key_t KEY, unsigned int FLAGS, gpgme_interact_cb_t FNC, void *HANDLE, gpgme_data_t OUT)

SINCE: 1.7.0

The function gpgme_op_interact processes the key KEY interactively, using the interact callback function FNC with the handle HANDLE. The callback is invoked for every status and command request from the crypto engine. The output of the crypto engine is written to the data object OUT.

Note that the protocol between the callback function and the crypto engine is specific to the crypto engine and no further support in implementing this protocol correctly is provided by GPGME.
FLAGS modifies the behaviour of the function; the only defined bit value is:

**GPGME_INTERACT_CARD**

*SINCE: 1.7.0*

This is used for smartcard based keys and uses gpgs --card-edit command.

The function returns 0 if the edit operation completes successfully, GPG_ERR_INV_VALUE if CTX or KEY is not a valid pointer, and any error returned by the crypto engine or the edit callback handler.

---

Function: `gpgme_error_t gpgme_op_interact_start (gpgme_ctx_t CTX, gpgme_key_t KEY, unsigned int FLAGS, gpgme_interact_cb_t FNC, void *HANDLE, gpgme_data_t OUT)`

*SINCE: 1.7.0*

The function `gpgme_op_interact_start` initiates a `gpgme_op_interact` operation. It can be completed by calling `gpgme_wait` on the context. *Note Waiting For Completion.*

The function returns 0 if the operation was started successfully, and GPG_ERR_INV_VALUE if CTX or KEY is not a valid pointer.

---


**7.6 Trust Item Management**

*Caution:* The trust items interface is experimental.

---

Data type: `gpgme_trust_item_t`

The `gpgme_trust_item_t` type is a pointer to a trust item object.

It has the following members:

- `char *keyid`
  This is a string describing the key to which this trust items belongs.

- `int type`
  This is the type of the trust item. A value of 1 refers to a key, a value of 2 refers to a user ID.
int level
   This is the trust level.

char *owner_trust
   The owner trust if type is 1.

char *validity
   The calculated validity.

char *name
   The user name if type is 2.

* Menu:

* Listing Trust Items::       Browsing the list of available trust items.
* Manipulating Trust Items::  Operations on trust items.

File: gpgme.info, Node: Listing Trust Items, Next: Manipulating Trust Items, Up: Trust Item Management

7.6.1 Listing Trust Items
-------------------------

-- Function: gpgme_error_t gpgme_op_trustlist_start (gpgme_ctx_t CTX,
   const char *PATTERN, int MAX_LEVEL)
   The function gpgme_op_trustlist_start initiates a trust item
   listing operation inside the context CTX. It sets everything up so
   that subsequent invocations of gpgme_op_trustlist_next return the
   trust items in the list.

   The string PATTERN contains an engine specific expression that is
   used to limit the list to all trust items matching the pattern. It
   can not be the empty string.

   The argument MAX_LEVEL is currently ignored.

   The context will be busy until either all trust items are received
   (and gpgme_op_trustlist_next returns GPG_ERR_EOF), or
   gpgme_op_trustlist_end is called to finish the operation.

   The function returns the error code GPG_ERR_INV_VALUE if CTX is
   not a valid pointer, and passes through any errors that are
   reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_trustlist_next (gpgme_ctx_t CTX,
   gpgme_trust_item_t *R_ITEM)
   The function gpgme_op_trustlist_next returns the next trust item
   in the list created by a previous gpgme_op_trustlist_start
operation in the context CTX. The trust item can be destroyed with gpgme_trust_item_release. *Note Manipulating Trust Items:::.

This is the only way to get at gpgme_trust_item_t objects in GPGME.

If the last trust item in the list has already been returned, gpgme_op_trustlist_next returns GPG_ERR.EOF.

The function returns the error code GPG_ERR_INV_VALUE if CTX or R_ITEM is not a valid pointer, and GPG_ERR_ENOMEM if there is not enough memory for the operation.

-- Function: gpgme_error_t gpgme_op_trustlist_end (gpgme_ctx_t CTX)
The function gpgme_op_trustlist_end ends a pending trust list operation in the context CTX.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and GPG_ERR_ENOMEM if at some time during the operation there was not enough memory available.


7.6.2 Manipulating Trust Items
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-- Function: void gpgme_trust_item_ref (gpgme_trust_item_t ITEM)
The function gpgme_trust_item_ref acquires an additional reference for the trust item ITEM.

-- Function: void gpgme_trust_item_unref (gpgme_trust_item_t ITEM)
The function gpgme_trust_item_unref releases a reference for the trust item ITEM. If this was the last reference, the trust item will be destroyed and all resources associated to it will be released.


7.7 Crypto Operations
========================

Sometimes, the result of a crypto operation returns a list of invalid keys encountered in processing the request. The following structure is used to hold information about such a key.

-- Data type: gpgme_invalid_key_t
This is a pointer to a structure used to store a part of the result of a crypto operation which takes user IDs as one input parameter. The structure contains the following members:

gpgme_invalid_key_t next
This is a pointer to the next invalid key structure in the linked list, or NULL if this is the last element.

char *fpr
The fingerprint or key ID of the invalid key encountered.

gpgme_error_t reason
An error code describing the reason why the key was found invalid.

* Menu:

* Decrypt:: Decrypting a ciphertext.
* Verify:: Verifying a signature.
* Decrypt and Verify:: Decrypting a signed ciphertext.
* Sign:: Creating a signature.
* Encrypt:: Encrypting a plaintext.

File: gpgme.info, Node: Decrypt, Next: Verify, Up: Crypto Operations

7.7.1 Decrypt
-------------

-- Function: gpgme_error_t gpgme_op_decrypt (gpgme_ctx_t CTX,
gpgme_data_t CIPHER, gpgme_data_t PLAIN)
The function gpgme_op_decrypt decrypts the ciphertext in the data object CIPHER and stores it into the data object PLAIN.

The function returns the error code GPG_ERR_NO_ERROR if the ciphertext could be decrypted successfully, GPG_ERR_INV_VALUE if CTX, CIPHER or PLAIN is not a valid pointer, GPG_ERR_NO_DATA if CIPHER does not contain any data to decrypt, GPG_ERR_DECRYPT_FAILED if CIPHER is not a valid ciphertext, GPG_ERR_BAD_PASSPHRASE if the passphrase for the secret key could not be retrieved, and passes through some errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_decrypt_start (gpgme_ctx_t CTX,
gpgme_data_t CIPHER, gpgme_data_t PLAIN)
The function gpgme_op_decrypt_start initiates a gpgme_op_decrypt operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::
The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if CIPHER or PLAIN is not a valid pointer.

-- Function: gpgme_error_t gpgme_op_decrypt_ext (gpgme_ctx_t CTX, gpgme_decrypt_flags_t FLAGS, gpgme_data_t CIPHER, gpgme_data_t PLAIN)

SINCE: 1.8.0

The function gpgme_op_decrypt_ext is the same as gpgme_op_decrypt but has an additional argument FLAGS. If FLAGS is 0 both function behave identically.

The value in FLAGS is a bitwise-or combination of one or multiple of the following bit values:

GPGME_DECRYPT_VERIFY
SINCE: 1.8.0

The GPGME_DECRYPT_VERIFY symbol specifies that this function shall exactly act as gpgme_op_decrypt_verify.

GPGME_DECRYPT_UNWRAP
SINCE: 1.8.0

The GPGME_DECRYPT_UNWRAP symbol specifies that the output shall be an OpenPGP message with only the encryption layer removed. This requires GnuPG 2.1.12 and works only for OpenPGP. This is the counterpart to GPGME_ENCRYPT_WRAP.

The function returns the error codes as described for gpgme_op_decrypt respective gpgme_op_encrypt.

-- Function: gpgme_error_t gpgme_op_decrypt_ext_start (gpgme_ctx_t CTX, gpgme_decrypt_flags_t FLAGS, gpgme_data_t CIPHER, gpgme_data_t PLAIN)

SINCE: 1.8.0

The function gpgme_op_decrypt_ext_start initiates a gpgme_op_decrypt_ext operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:::

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if CIPHER or PLAIN is not a valid pointer.
-- Data type: gpgme_recipient_t

SINCE: 1.1.0

This is a pointer to a structure used to store information about
the recipient of an encrypted text which is decrypted in a
gpgme_op_decrypt operation. This information (except for the
status field) is even available before the operation finished
successfully, for example in a passphrase callback. The structure
contains the following members:

  gpgme_recipient_t next

  This is a pointer to the next recipient structure in the
  linked list, or NULL if this is the last element.

  gpgme_pubkey_algo_t

  The public key algorithm used in the encryption.

  char *keyid

  This is the key ID of the key (in hexadecimal digits) used as
  recipient.

  gpgme_error_t status

  This is an error number with the error code GPG_ERR_NO_SECKEY
  if the secret key for this recipient is not available, and 0
  otherwise.

-- Data type: gpgme_decrypt_result_t

This is a pointer to a structure used to store the result of a
gpgme_op_decrypt operation. After successfully decrypting data,
you can retrieve the pointer to the result with
gpgme_op_decrypt_result. As with all result structures, it this
structure shall be considered read-only and an application must not
allocate such a structure on its own. The structure contains the
following members:

  char *unsupported_algorithm

  If an unsupported algorithm was encountered, this string
describes the algorithm that is not supported.

  unsigned int wrong_key_usage : 1

  SINCE: 0.9.0 This is true if the key was not used according to
  its policy.

  unsigned int legacy_cipher_nomdc : 1

  SINCE: 1.11.2 The message was made by a legacy algorithm
  without any integrity protection. This might be an old but
  legitimate message.
unsigned int is_mime : 1;
   SINCE: 1.11.0 The message claims that the content is a MIME object.

unsigned int is_de_vs : 1;
   SINCE: 1.10.0 The message was encrypted in a VS-NfD compliant way. This is a specification in Germany for a restricted communication level.

gpgme_recipient_t recipients
   SINCE: 1.1.0

   This is a linked list of recipients to which this message was encrypted.

char *file_name
   This is the filename of the original plaintext message file if it is known, otherwise this is a null pointer.

char *session_key
   SINCE: 1.8.0

   A textual representation (nul-terminated string) of the session key used in symmetric encryption of the message, if the context has been set to export session keys (see gpgme_set_ctx_flag, "export-session-key"), and a session key was available for the most recent decryption operation. Otherwise, this is a null pointer.

   You must not try to access this member of the struct unless gpgme_set_ctx_flag (ctx, "export-session-key") returns success or gpgme_get_ctx_flag (ctx, "export-session-key") returns true (non-empty string).

char *symkey_algo
   SINCE: 1.11.0

   A string with the symmetric encryption algorithm and mode using the format "<algo>.<mode>". Note that the deprecated non-MDC encryption mode of OpenPGP is given as "PGPCFB".

-- Function: gpgme_decrypt_result_t gpgme_op_decrypt_result (gpgme_ctx_t CTX)
   The function gpgme_op_decrypt_result returns a gpgme_decrypt_result_t pointer to a structure holding the result of a gpgme_op_decrypt operation. The pointer is only valid if the last operation on the context was a gpgme_op_decrypt or
gpgme_op_decrypt_start operation. If the operation failed this
might be a NULL pointer. The returned pointer is only valid
until the next operation is started on the context.


7.7.2 Verify
----------

-- Function: gpgme_error_t gpgme_op_verify (gpgme_ctx_t CTX,
gpgme_data_t SIG, gpgme_data_t SIGNED_TEXT,
gpgme_data_t PLAIN)
The function gpgme_op_verify verifies that the signature in the
data object SIG is a valid signature. If SIG is a detached
signature, then the signed text should be provided in SIGNED_TEXT
and PLAIN should be a null pointer. Otherwise, if SIG is a normal
(or cleartext) signature, SIGNED_TEXT should be a null pointer and
PLAIN should be a writable data object that will contain the
plaintext after successful verification.

The results of the individual signature verifications can be
retrieved with gpgme_op_verify_result.

The function returns the error code GPG_ERR_NO_ERROR if the
operation could be completed successfully, GPG_ERR_INV_VALUE if
CTX, SIG or PLAIN is not a valid pointer, GPG_ERR_NO_DATA if SIG
does not contain any data to verify, and passes through any errors
that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_verify_start (gpgme_ctx_t CTX,
gpgme_data_t SIG, gpgme_data_t SIGNED_TEXT,
gpgme_data_t PLAIN)
The function gpgme_op_verify_start initiates a gpgme_op_verify
operation. It can be completed by calling gpgme_wait on the
context. *Note Waiting For Completion:::

The function returns the error code GPG_ERR_NO_ERROR if the
operation could be started successfully, GPG_ERR_INV_VALUE if
CTX, SIG or PLAIN is not a valid pointer, and GPG_ERR_NO_DATA if SIG
or PLAIN does not contain any data to verify.

-- Data type: gpgme_sig_notation_t
This is a pointer to a structure used to store a part of the result
of a gpgme_op_verify operation. The structure contains the
following members:

gpgme_sig_notation_t next
This is a pointer to the next new signature notation structure
in the linked list, or NULL if this is the last element.

char *name
The name of the notation field. If this is NULL, then the
member value will contain a policy URL.

int name_len
The length of the name field. For strings the length is
counted without the trailing binary zero.

char *value
The value of the notation field. If name is NULL, then
this is a policy URL.

int value_len
The length of the value field. For strings the length is
counted without the trailing binary zero.

gpgme_sig_notation_flags_t flags
The accumulated flags field. This field contains the flags
associated with the notation data in an accumulated form which
can be used as an argument to the function
gpgme_sig_notation_add. The value flags is a bitwise-or
combination of one or multiple of the following bit values:

GPGME_SIG NOTATION HUMAN READABLE
SINCE: 1.1.0

The GPGME_SIG NOTATION HUMAN READABLE symbol specifies
that the notation data is in human readable form

GPGME_SIG NOTATION CRITICAL
SINCE: 1.1.0

The GPGME_SIG NOTATION CRITICAL symbol specifies that
the notation data is critical.

unsigned int human_readable : 1
This is true if the GPGME_SIG NOTATION HUMAN READABLE flag
is set and false otherwise. This flag is only valid for
notation data, not for policy URLs.

unsigned int critical : 1
This is true if the GPGME_SIG NOTATION CRITICAL flag is set
and false otherwise. This flag is valid for notation data and
policy URLs.
-- Data type: gpgme_signature_t
This is a pointer to a structure used to store a part of the result of a gpgme_op_verify operation. The structure contains the following members:

  gpgme_signature_t next
  This is a pointer to the next new signature structure in the linked list, or NULL if this is the last element.

  gpgme_sigsum_t summary
  This is a bit vector giving a summary of the signature status. It provides an easy interface to a defined semantic of the signature status. Checking just one bit is sufficient to see whether a signature is valid without any restrictions. This means that you can check for GPGME_SIGSUM_VALID like this:

  if ((sig.summary & GPGME_SIGSUM_VALID))
  {
    ..do stuff if valid..
  }
  else
  {
    ..do stuff if not fully valid..
  }

  The defined bits are:
  GPGME_SIGSUM_VALID
    The signature is fully valid.
  GPGME_SIGSUM_GREEN
    The signature is good but one might want to display some extra information. Check the other bits.
  GPGME_SIGSUM_RED
    The signature is bad. It might be useful to check other bits and display more information, i.e. a revoked certificate might not render a signature invalid when the message was received prior to the cause for the revocation.
  GPGME_SIGSUM_KEY_REVOKED
    The key or at least one certificate has been revoked.
  GPGME_SIGSUM_KEY_EXPIRED
    The key or one of the certificates has expired. It is probably a good idea to display the date of the expiration.
GPGME_SIGSUM_SIG_EXPIRED
   The signature has expired.

GPGME_SIGSUM_KEY_MISSING
   Cant verify due to a missing key or certificate.

GPGME_SIGSUM_CRL_MISSING
   The CRL (or an equivalent mechanism) is not available.

GPGME_SIGSUM_CRL_TOO_OLD
   Available CRL is too old.

GPGME_SIGSUM_BAD_POLICY
   A policy requirement was not met.

GPGME_SIGSUM_SYS_ERROR
   A system error occurred.

GPGME_SIGSUM_TOFU_CONFLICT
   A TOFU conflict was detected.

char *fpr
   This is the fingerprint or key ID of the signature.

gpgme_error_t status
   This is the status of the signature. In particular, the
   following status codes are of interest:

GPG_ERR_NO_ERROR
   This status indicates that the signature is valid. For
   the combined result this status means that all signatures
   are valid.

GPG_ERR_SIG_EXPIRED
   This status indicates that the signature is valid but expired. For the combined result this status means that all signatures are valid and expired.

GPG_ERR_KEY_EXPIRED
   This status indicates that the signature is valid but the key used to verify the signature has expired. For the combined result this status means that all signatures are valid and all keys are expired.

GPG_ERR_CERT_REVOKED
   This status indicates that the signature is valid but the key used to verify the signature has been revoked. For the combined result this status means that all signatures
are valid and all keys are revoked.

**GPG_ERR_BAD_SIGNATURE**
This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.

**GPG_ERR_NO_PUBKEY**
This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.

**GPG_ERR_GENERAL**
This status indicates that there was some other error which prevented the signature verification.

gpgme_sig_notation_t notations
This is a linked list with the notation data and policy URLs.

unsigned long timestamp
The creation timestamp of this signature.

unsigned long exp_timestamp
The expiration timestamp of this signature, or 0 if the signature does not expire.

unsigned int wrong_key_usage : 1
This is true if the key was not used according to its policy.

unsigned int pka_trust : 2
This is set to the trust information gained by means of the PKA system. Values are:
0
No PKA information available or verification not possible.
1
PKA verification failed.
2
PKA verification succeeded.
3
Reserved for future use.
Depending on the configuration of the engine, this metric may also be reflected by the validity of the signature.

unsigned int chain_model : 1
SINCE: 1.1.6
This is true if the validity of the signature has been checked using the chain model. In the chain model the time the signature has been created must be within the validity period of the certificate and the time the certificate itself has been created must be within the validity period of the issuing certificate. In contrast the default validation model checks the validity of signature as well at the entire certificate chain at the current time.

gpgme_validity_t validity
   The validity of the signature.

gpgme_error_t validity_reason
   If a signature is not valid, this provides a reason why.

gpgme_pubkey_algo_t
   The public key algorithm used to create this signature.

gpgme_hash_algo_t
   The hash algorithm used to create this signature.

cchar *pka_address
   The mailbox from the PKA information or NULL.

gpgme_key_t key
   SINCE: 1.7.0

   An object describing the key used to create the signature.
   This key object may be incomplete in that it only conveys information available directly with a signature. It may also be NULL if such information is not readily available.

-- Data type: gpgme_verify_result_t
   This is a pointer to a structure used to store the result of a gpgme_op_verify operation. After verifying a signature, you can retrieve the pointer to the result with gpgme_op_verify_result. If the operation failed this might be a NULL pointer. The structure contains the following member:

   gpgme_signature_t signatures
      A linked list with information about all signatures for which a verification was attempted.

cchar *file_name
   This is the filename of the original plaintext message file if it is known, otherwise this is a null pointer. Warning: The filename is not covered by the signature.
signed int is_mime = 1;

SINCE: 1.11.0

The message claims that the content is a MIME object.
Warning: This flag is not covered by the signature.

-- Function: gpgme_verify_result_t gpgme_op_verify_result
   (gpgme_ctx_t CTX)
The function gpgme_op_verify_result returns a
   gpgme_verify_result_t pointer to a structure holding the result
   of a gpgme_op_verify operation. The pointer is only valid if the
   last operation on the context was a gpgme_op_verify,
   gpgme_op_verify_start, gpgme_op_decrypt_verify or
   gpgme_op_decrypt_verify_start operation, and if this operation
   finished successfully (for gpgme_op_decrypt_verify and
   gpgme_op_decrypt_verify_start, the error code GPG_ERR_NO_DATA
   counts as successful in this context). The returned pointer is
   only valid until the next operation is started on the context.


7.7.3 Decrypt and Verify
------------------------

-- Function: gpgme_error_t gpgme_op_decrypt_verify (gpgme_ctx_t CTX,
   gpgme_data_t CIPHER, gpgme_data_t PLAIN)
The function gpgme_op_decrypt_verify decrypts the ciphertext in
   the data object CIPHER and stores it into the data object PLAIN.
   If CIPHER contains signatures, they will be verified.

After the operation completed, gpgme_op_decrypt_result and
   gpgme_op_verify_result can be used to retrieve more information
   about the signatures.

   If the error code GPG_ERR_NO_DATA is returned, CIPHER does not
   contain any data to decrypt. However, it might still be signed.
   The information about detected signatures is available with
   gpgme_op_verify_result in this case.

   The function returns the error code GPG_ERR_NO_ERROR if the
   ciphertext could be decrypted successfully, GPG_ERR_INV_VALUE if
   CTX, CIPHER or PLAIN is not a valid pointer, GPG_ERR_NO_DATA if
   CIPHER does not contain any data to decrypt,
   GPG_ERR_DECRYPT_FAILED if CIPHER is not a valid cipher text,
   GPG_ERR_BAD_PASSPHRASE if the passphrase for the secret key could
   not be retrieved, and passes through any errors that are reported
   by the crypto engine support routines.
-- Function: gpgme_error_t gpgme_op_decrypt_verify_start
(gpgme_ctx_t CTX, gpgme_data_t CIPHER, gpgme_data_t PLAIN)
The function gpgme_op_decrypt_verify_start initiates a
  gpgme_op_decrypt_verify operation. It can be completed by
calling gpgme_wait on the context. *Note Waiting For
Completion:::

The function returns the error code GPG_ERR_NO_ERROR if the
operation could be started successfully, GPG_ERR_INV_VALUE if
CTX, CIPHER, PLAIN or R_STAT is not a valid pointer, and
GPG_ERR_NO_DATA if CIPHER does not contain any data to decrypt.

When processing mails it is sometimes useful to extract the actual
mail address (the addr-spec) from a string. GPGME provides this
helper function which uses the same semantics as the internal functions
in GPGME and GnuPG:

-- Function: char * gpgme_addrspec_from_uid (const char *UID)

SINCE: 1.7.1

Return the mail address (called addr-spec in RFC-5322) from the
string UID which is assumed to be a user id (called address in
RFC-5322). All plain ASCII characters (i.e. those with bit 7
cleared) in the result are converted to lowercase. Caller must
free the result using gpgme_free. Returns NULL if no valid
address was found (in which case ERRNO is set to EINVAL) or for
other errors.


7.7.4 Sign
-------

A signature can contain signatures by one or more keys. The set of keys
used to create a signatures is contained in a context, and is applied to
all following signing operations in this context (until the set is
changed).

* Menu:

* Selecting Signers:: How to choose the keys to sign with.
* Creating a Signature:: How to create a signature.
* Signature Notation Data:: How to add notation data to a signature.
7.7.4.1 Selecting Signers

The key or the keys used to create a signature are stored in the context. The following functions can be used to manipulate this list. If no signer has been set into the context a default key is used for signing.

-- Function: void gpgme_signers_clear (gpgme_ctx_t CTX)
The function gpgme_signers_clear releases a reference for each key on the signers list and removes the list of signers from the context CTX.

Every context starts with an empty list.

-- Function: gpgme_error_t gpgme_signers_add (gpgme_ctx_t CTX, const gpgme_key_t KEY)
The function gpgme_signers_add adds the key KEY to the list of signers in the context CTX. Calling this function acquires an additional reference for the key.

-- Function: unsigned int gpgme_signers_count (const gpgme_ctx_t CTX)
SINCE: 1.4.3
The function gpgme_signers_count returns the number of signer keys in the context CTX.

-- Function: gpgme_key_t gpgme_signers_enum (const gpgme_ctx_t CTX, int SEQ)
The function gpgme_signers_enum returns the SEQth key in the list of signers in the context CTX. An additional reference is acquired for the user.

If SEQ is out of range, NULL is returned.

7.7.4.2 Creating a Signature

-- Data type: enum gpgme_sig_mode_t
The gpgme_sig_mode_t type is used to specify the desired type of a signature. The following modes are available:
GPGME_SIG_MODE_NORMAL
A normal signature is made, the output includes the plaintext and the signature.

GPGME_SIG_MODE_DETACH
A detached signature is made.

GPGME_SIG_MODE_CLEAR
A clear text signature is made. The ASCII armor and text mode settings of the context are ignored.

-- Function: gpgme_error_t gpgme_op_sign (gpgme_ctx_t CTX, gpgme_data_t PLAIN, gpgme_data_t SIG, gpgme_sig_mode_t MODE)
The function gpgme_op_sign creates a signature for the text in the data object PLAIN and returns it in the data object SIG. The type of the signature created is determined by the ASCII armor (or, if that is not set, by the encoding specified for SIG), the text mode attributes set for the context CTX and the requested signature mode MODE.

After the operation completed successfully, the result can be retrieved with gpgme_op_sign_result.

If an S/MIME signed message is created using the CMS crypto engine, the number of certificates to include in the message can be specified with gpgme_set_include_certs. *Note Included Certificates::.

The function returns the error code GPG_ERR_NO_ERROR if the signature could be created successfully, GPG_ERR_INV_VALUE if CTX, PLAIN or SIG is not a valid pointer, GPG_ERR_NO_DATA if the signature could not be created, GPG_ERR_BAD_PASSPHRASE if the passphrase for the secret key could not be retrieved, GPG_ERR_UNUSABLE_SECKEY if there are invalid signers, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_sign_start (gpgme_ctx_t CTX, gpgme_data_t PLAIN, gpgme_data_t SIG, gpgme_sig_mode_t MODE)
The function gpgme_op_sign_start initiates a gpgme_op_sign operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if CTX, PLAIN or SIG is not a valid pointer.

-- Data type: gpgme_new_signature_t
This is a pointer to a structure used to store a part of the result of a gpgme_op_sign operation. The structure contains the following members:

**gpgme_new_signature_t**

- **next**: This is a pointer to the next new signature structure in the linked list, or NULL if this is the last element.

**gpgme_sig_mode_t**

- **type**: The type of this signature.

**gpgme_pubkey_algo_t**

- **pubkey_algo**: The public key algorithm used to create this signature.

**gpgme_hash_algo_t**

- **hash_algo**: The hash algorithm used to create this signature.

**unsigned int**

- **sig_class**: The signature class of this signature.

**long int**

- **timestamp**: The creation timestamp of this signature.

**char *fpr**

- The fingerprint of the key which was used to create this signature.

--- Data type: gpgme_sign_result_t

This is a pointer to a structure used to store the result of a gpgme_op_sign operation. After successfully generating a signature, you can retrieve the pointer to the result with gpgme_op_sign_result. The structure contains the following members:

**gpgme_invalid_key_t**

- **invalid_signers**: A linked list with information about all invalid keys for which a signature could not be created.

**gpgme_new_signature_t**

- **signatures**: A linked list with information about all signatures created.

--- Function: gpgme_sign_result_t gpgme_op_sign_result (gpgme_ctx_t CTX)

The function gpgme_op_sign_result returns a gpgme_sign_result_t pointer to a structure holding the result of a gpgme_op_sign operation. The pointer is only valid if the last operation on the context was a gpgme_op_sign, gpgme_op_sign_start, gpgme_op_encrypt_sign or gpgme_op_encrypt_sign_start operation. If that operation failed, the function might return a NULL.
pointer. The returned pointer is only valid until the next operation is started on the context.

File: gpgme.info, Node: Signature Notation Data, Prev: Creating a Signature, Up: Sign

7.7.4.3 Signature Notation Data

Using the following functions, you can attach arbitrary notation data to a signature. This information is then available to the user when the signature is verified.

-- Function: void gpgme_sig_notation_clear (gpgme_ctx_t CTX)
   SINCE: 1.1.0

   The function gpgme_sig_notation_clear removes the notation data from the context CTX. Subsequent signing operations from this context will not include any notation data.

   Every context starts with an empty notation data list.

-- Function: gpgme_error_t gpgme_sig_notation_add (gpgme_ctx_t CTX,
   const char *NAME, const char *VALUE,
   gpgme_sig_notation_flags_t FLAGS)
   SINCE: 1.1.0

   The function gpgme_sig_notation_add adds the notation data with the name NAME and the value VALUE to the context CTX. Subsequent signing operations will include this notation data, as well as any other notation data that was added since the creation of the context or the last gpgme_sig_notation_clear operation.

   The arguments NAME and VALUE must be NUL-terminated strings in human-readable form. The flag GPGME_SIG_NOTATION_HUMAN_READABLE is implied (non-human-readable notation data is currently not supported). The strings must be in UTF-8 encoding.

   If NAME is NULL, then VALUE should be a policy URL.

   The function gpgme_sig_notation_add returns the error code GPG_ERR_NO_ERROR if the notation data could be added successfully, GPG_ERR_INV_VALUE if CTX is not a valid pointer, or if NAME, VALUE and FLAGS are an invalid combination. The function also passes through any errors that are reported by the crypto engine support routines.
The function gpgme_sig_notation_get returns the linked list of notation data structures that are contained in the context CTX.

If CTX is not a valid pointer, or there is no notation data added for this context, NULL is returned.

One plaintext can be encrypted for several recipients at the same time. The list of recipients is created independently of any context, and then passed to the encryption operation.

* Encrypting a Plaintext:

The function gpgme_op_encrypt encrypts the plaintext in the data object PLAIN for the recipients RECP and stores the ciphertext in the data object CIPHER. The type of the ciphertext created is determined by the ASCII armor (or, if that is not set, by the encoding specified for CIPHER) and the text mode attributes set for the context CTX.

RECP must be a NULL-terminated array of keys. The user must keep references for all keys during the whole duration of the call (but see gpgme_op_encrypt_start for the requirements with the asynchronous variant).

The value in FLAGS is a bitwise-or combination of one or multiple of the following bit values:
GPGME_ENCRYPT_ALWAYS_TRUST
The GPGME_ENCRYPT_ALWAYS_TRUST symbol specifies that all the recipients in RECP should be trusted, even if the keys do not have a high enough validity in the keyring. This flag should be used with care; in general it is not a good idea to use any untrusted keys.

GPGME_ENCRYPT_NO_ENCRYPT_TO
SINCE: 1.2.0

The GPGME_ENCRYPT_NO_ENCRYPT_TO symbol specifies that no default or hidden default recipients as configured in the crypto backend should be included. This can be useful for managing different user profiles.

GPGME_ENCRYPT_NO_COMPRESS
SINCE: 1.5.0

The GPGME_ENCRYPT_NO_COMPRESS symbol specifies that the plaintext shall not be compressed before it is encrypted. This is in some cases useful if the length of the encrypted message may reveal information about the plaintext.

GPGME_ENCRYPT_PREPARE
GPGME_ENCRYPT_EXPECT_SIGN
The GPGME_ENCRYPT_PREPARE symbol is used with the UI Server protocol to prepare an encryption (i.e. sending the PREP_ENCRYPT command). With the GPGME_ENCRYPT.Expect_SIGN symbol the UI Server is advised to also expect a sign command.

GPGME_ENCRYPT_SYMMETRIC
SINCE: 1.7.0

The GPGME_ENCRYPT_SYMMETRIC symbol specifies that the output should be additionally encrypted symmetrically even if recipients are provided. This feature is only supported for the OpenPGP crypto engine.

GPGME_ENCRYPT_THROW_KEYIDS
SINCE: 1.8.0

The GPGME_ENCRYPT_THROW_KEYIDS symbols requests that the identifiers for the decryption keys are not included in the ciphertext. On the receiving side, the use of this flag may slow down the decryption process because all available secret keys must be tried. This flag is only honored for OpenPGP encryption.
The GPGME_ENCRYPT_WRAP symbol specifies that the input is an OpenPGP message and not a plain data. This is the counterpart to GPGME_DECRYPT_UNWRAP.

The GPGME_ENCRYPT_WANT_ADDRESS symbol requests that all supplied keys or key specifications include a syntactically valid mail address. If this is not the case the operation is not even tried and the error code GPG_ERR_INV_USER_ID is returned. Only the address part of the key specification is conveyed to the backend. As of now the key must be specified using the RECPSTRING argument of the extended encrypt functions. This feature is currently only supported for the OpenPGP crypto engine.

If GPG_ERR_UNUSABLE_PUBKEY is returned, some recipients in RECP are invalid, but not all. In this case the plaintext might be encrypted for all valid recipients and returned in CIPHER (if this happens depends on the crypto engine). More information about the invalid recipients is available with gpgme_op_encrypt_result.

If RECP is NULL, symmetric rather than public key encryption is performed. Symmetrically encrypted cipher text can be deciphered with gpgme_op_decrypt. Note that in this case the crypto backend needs to retrieve a passphrase from the user. Symmetric encryption is currently only supported for the OpenPGP crypto backend.

The function returns the error code GPG_ERR_NO_ERROR if the ciphertext could be created successfully, GPG_ERR_INV_VALUE if CTX, RECP, PLAIN or CIPHER is not a valid pointer, GPG_ERR_UNUSABLE_PUBKEY if RECP contains some invalid recipients, GPG_ERR_BAD_PASSPHRASE if the passphrase for the symmetric key could not be retrieved, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_encrypt_start (gpgme_ctx_t CTX, gpgme_key_t RECP[], gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN, gpgme_data_t CIPHER)

The function gpgme_op_encrypt_start initiates a gpgme_op_encrypt operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:.*

References to the keys only need to be held for the duration of
this call. The user can release its references to the keys after
this function returns, even if the operation is not yet finished.

The function returns the error code GPG_ERR_NO_ERROR if the
operation could be started successfully, GPG_ERR_INV_VALUE if
CTX, RSET, PLAIN or CIPHER is not a valid pointer, and
GPG_ERR_UNUSABLE_PUBKEY if RSET does not contain any valid
recipients.

-- Function: gpgme_error_t gpgme_op_encrypt_ext (gpgme_ctx_t CTX,
gpgme_key_t RECP[], const char *RECPSTRING,
gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN,
gpgme_data_t CIPHER)

SINCE: 1.11.0

This is an extended version of gpgme_op_encrypt with RECPSTRING
as additional parameter. If RECP is NULL and RECPSTRING is not
NULL, the latter is expected to be a linefeed delimited string with
the set of key specifications. In contrast to RECP the keys are
given directly as strings and there is no need to first create key
objects. Leading and trailing white space is remove from each line
in RECPSTRING. The keys are then passed verbatim to the backend
engine.

For the OpenPGP backend several special keywords are supported to
modify the operation. These keywords are given instead of a key
specification. The currently supported keywords are:

--hidden
--no-hidden
These keywords toggle between normal and hidden recipients for
all following key specifications. When a hidden recipient is
requested the gpg option -R (or -F in file mode) is used
instead of -r (-f in file mode).

--file
--no-file
These keywords toggle between regular and file mode for all
following key specification. In file mode the option -f or
-F is passed to gpg. At least GnuPG version 2.1.14 is
required to handle these options. The
GPGME_ENCRYPT_WANT_ADDRESS flag is ignored in file mode.

--
This keyword disables all keyword detection up to the end of
the string. All keywords are treated as verbatim arguments.
To create a RECPSTRING it is often useful to employ a `strconcat` style function. For example this function creates a string to encrypt to two keys:

```c
char *
xbuild_recpstring (const char *key1, const char *key2)
{
    char *result = gpgrt_strconcat ("--\n", key1, "\n", key2, NULL);
    if (!result)
        { perror ("strconcat failed"); exit (2); }
    return result;
}
```

Note the use of the double dash here; unless you want to specify a keyword, it is a good idea to avoid any possible trouble with key specifications starting with a double dash. The used `strconcat` function is available in Libgpg-error 1.28 and later; Libgpg-error (aka Gpgrt) is a dependency of GPGME. The number of arguments to `gpgrt_strconcat` is limited to 47 but that should always be sufficient. In case a larger and non-fixed number of keys are to be supplied the following code can be used:

```c
char *
xbuild_long_recpstring (void)
{
    gpgrt_stream_t memfp;
    const char *s;
    void *result;

    memfp = gpgrt_fopenmem (0, "w+b");
    if (!memfp)
        { perror ("fopenmem failed"); exit (2); }
    gpgrt_fputs ("--", memfp);
    while ((s = get_next_keyspec ()))
        {
            gpgrt_fputc (\n', memfp);
            gpgrt_fputs (s, memfp);
        }
    gpgrt_fputc (0, memfp);
    if (gpgrt_ferror (memfp))
        { perror ("writing to memstream failed"); exit (2); }
    if (gpgrt_fclose_snatch (memfp, &result, NULL))
        { perror ("fclose_snatch failed"); exit (2); }
    return result;
}
```

In this example `get_next_keyspec` is expected to return the next key to be added to the string. Please take care: Encrypting to a
large number of recipients is often questionable due to security
reasons and also for the technicality that all keys are currently
passed on the command line to gpg which has as a platform
specific length limitation.

-- Function: gpgme_error_t gpgme_op_encrypt_ext_start (gpgme_ctx_t CTX,
gpgme_key_t RECP[], const char *RECPSTRING,
gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN,
gpgme_data_t CIPHER)

SINCE: 1.11.0

This is an extended version of gpgme_op_encrypt_start with
RECPSTRING as additional parameter. If RECP is NULL and RECPSTRING
is not NULL, the latter is expected to be a linefeed delimited
string with the set of key specifications. In contrast to RECP the
keys are given directly as strings and there is no need to first
create key objects. The keys are passed verbatim to the backend
engine.

-- Data type: gpgme_encrypt_result_t
This is a pointer to a structure used to store the result of a
gpgme_op_encrypt operation. After successfully encrypting data,
you can retrieve the pointer to the result with
gpgme_op_encrypt_result. The structure contains the following
members:

  gpgme_invalid_key_t invalid_recipients
  A linked list with information about all invalid keys for
  which the data could not be encrypted.

-- Function: gpgme_encrypt_result_t gpgme_op_encrypt_result
  (gpgme_ctx_t CTX)
The function gpgme_op_encrypt_result returns a
gpgme_encrypt_result_t pointer to a structure holding the result
of a gpgme_op_encrypt operation. The pointer is only valid if
the last operation on the context was a gpgme_op_encrypt,
gpgme_op_encrypt_start, gpgme_op_sign or gpgme_op_sign_start
operation. If this operation failed, this might be a NULL
pointer. The returned pointer is only valid until the next
operation is started on the context.

-- Function: gpgme_error_t gpgme_op_encrypt_sign (gpgme_ctx_t CTX,
gpgme_key_t RECP[], gpgme_encrypt_flags_t FLAGS,
gpgme_data_t PLAIN, gpgme_data_t CIPHER)
The function gpgme_op_encrypt_sign does a combined encrypt and
sign operation. It is used like gpgme_op_encrypt, but the
ciphertext also contains signatures for the signers listed in CTX.
The combined encrypt and sign operation is currently only available for the OpenPGP crypto engine.

-- Function: gpgme_error_t gpgme_op_encrypt_sign_start
    (gpgme_ctx_t CTX, gpgme_key_t RECP[],
     gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN,
     gpgme_data_t CIPHER)

The function gpgme_op_encrypt_sign_start initiates a gpgme_op_encrypt_sign operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if CTX, RSET, PLAIN or CIPHER is not a valid pointer.

-- Function: gpgme_error_t gpgme_op_encrypt_sign_ext (gpgme_ctx_t CTX,
    gpgme_key_t RECP[], const char *RECPSTRING,
    gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN,
    gpgme_data_t CIPHER)

SINCE: 1.11.0

This is an extended version of gpgme_op_encrypt_sign with RECPSTRING as additional parameter. If RECP is NULL and RECPSTRING is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to RECP the keys are given directly as strings and there is no need to first create the key objects. The keys are passed verbatim to the backend engine.

-- Function: gpgme_error_t gpgme_op_encrypt_sign_ext_start
    (gpgme_ctx_t CTX, gpgme_key_t RECP[], const char *RECPSTRING,
     gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN,
     gpgme_data_t CIPHER)

SINCE: 1.11.0

This is an extended version of gpgme_op_encrypt_sign_start with RECPSTRING as additional parameter. If RECP is NULL and RECPSTRING is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to RECP the keys are given directly as strings and there is no need to first create the key objects. The keys are passed verbatim to the backend engine.
7.8 Miscellaneous operations
============================

Here are some support functions which are sometimes useful.

* Menu:

  * Running other Programs::     Running other Programs
  * Using the Assuan protocol::  Using the Assuan protocol
  * Checking for updates::       How to check for software updates

File: gpgme.info, Node: Running other Programs, Next: Using the Assuan protocol, Up: Miscellaneous

7.8.1 Running other Programs
-----------------------------

GPGME features an internal subsystem to run the actual backend engines. Along with data abstraction object this subsystem can be used to run arbitrary simple programs which even need not be related to cryptographic features. It may for example be used to run tools which are part of the GnuPG system but are not directly accessible with the GPGME API.

-- Function: gpgme_error_t gpgme_op_spawn (gpgme_ctx_t CTX, const char *FILE, const char *ARGV[], gpgme_data_t DATAIN, gpgme_data_t DATAOUT, gpgme_data_t DATAERR, unsigned int FLAGS)

SINCE: 1.5.0

The function gpgme_op_spawn runs the program FILE with the arguments taken from the NULL terminated array ARGV. If no arguments are required ARGV may be given as NULL. In the latter case or if argv[0] is the empty string, GPGME uses the basename of FILE for argv[0]. The file descriptors stdin, stdout, and stderr are connected to the data objects DATAIN, DATAOUT, and DATAERR. If NULL is passed for one of these data objects the corresponding file descriptor is connected to /dev/null.

The value in FLAGS is a bitwise-or combination of one or multiple of the following bit values:

GPGME_SPAWN_DETACHED
SINCE: 1.5.0

Under Windows this flag inhibits the allocation of a new
console for the program. This is useful for a GUI application which needs to call a command line helper tool.

GPGME_SPAWN_ALLOW_SET_FG

SINCE: 1.5.0

Under Windows this flag allows the called program to put itself into the foreground.

-- Function: gpgme_error_t gpgme_op_spawn_start (gpgme_ctx_t CTX, const char *FILE, const char *ARGV[], gpgme_data_t DATAIN, gpgme_data_t DATAOUT, gpgme_data_t DATAERR, unsigned int FLAGS)

SINCE: 1.5.0

This is the asynchronous variant of gpgme_op_spawn.

File: gpgme.info, Node: Using the Assuan protocol, Next: Checking for updates, Prev: Running other Programs, Up: Miscellaneous

7.8.2 Using the Assuan protocol
-----------------------------

The Assuan protocol can be used to talk to arbitrary Assuan servers. By default it is connected to the GnuPG agent, but it may be connected to arbitrary servers by using gpgme_ctx_set_engine_info, passing the location of the servers socket as FILE_NAME argument, and an empty string as HOME_DIR argument.

The Assuan protocol functions use three kinds of callbacks to transfer data:

-- Data type: gpgme_error_t (*gpgme_assuan_data_cb_t) (void *OPAQUE, const void *DATA, size_t DATALEN)

SINCE: 1.2.0

This callback receives any data sent by the server. OPAQUE is the pointer passed to gpgme_op_assuan_transact_start, DATA of length DATALEN refers to the data sent.

-- Data type: gpgme_error_t (*gpgme_assuan_inquire_cb_t) (void *OPAQUE, const char *NAME, const char *ARGS, gpgme_data_t *R_DATA)

SINCE: 1.2.0
This callback is used to provide additional data to the Assuan server. OPAQUE is the pointer passed to gpgme_op_assuan_transact_start, NAME and ARGS specify what kind of data the server requested, and R_DATA is used to return the actual data.

Note: Returning data is currently not implemented in GPGME.

-- Data type: gpgme_error_t (*gpgme_assuan_status_cb_t) (void *OPAQUE, const char *STATUS, const char *ARGS)

SINCE: 1.2.0

This callback receives any status lines sent by the server. OPAQUE is the pointer passed to gpgme_op_assuan_transact_start, STATUS and ARGS denote the status update sent.

-- Function: gpgme_error_t gpgme_op_assuan_transact_start
(gpgme_ctx_t CTX, const char *COMMAND, gpgme_assuan_data_cb_t DATA_CB, void * DATA_CB_VALUE, gpgme_assuan_inquire_cb_t INQUIRE_CB, void * INQUIRE_CB_VALUE, gpgme_assuan_status_cb_t STATUS_CB, void * STATUS_CB_VALUE)

SINCE: 1.2.0

Send the Assuan COMMAND and return results via the callbacks. Any callback may be NULL. The result of the operation may be retrieved using gpgme_wait_ext.

Asynchronous variant.

-- Function: gpgme_error_t gpgme_op_assuan_transact_ext
(gpgme_ctx_t CTX, const char *COMMAND, gpgme_assuan_data_cb_t DATA_CB, void * DATA_CB_VALUE, gpgme_assuan_inquire_cb_t INQUIRE_CB, void * INQUIRE_CB_VALUE, gpgme_assuan_status_cb_t STATUS_CB, void * STATUS_CB_VALUE, gpgme_error_t *OP_ERR)

Send the Assuan COMMAND and return results via the callbacks. The result of the operation is returned in OP_ERR.

Synchronous variant.

File: gpgme.info, Node: Checking for updates, Prev: Using the Assuan protocol, Up: Miscellaneous

7.8.3 How to check for software updates

---------------------------------------
The GnuPG Project operates a server to query the current versions of software packages related to GnuPG. GPGME can be used to access this online database and check whether a new version of a software package is available.

-- Data type: gpgme_query_swdb_result_t
   SINCE: 1.8.0

This is a pointer to a structure used to store the result of a gpgme_op_query_swdb operation. After successful call to that function, you can retrieve the pointer to the result with gpgme_op_query_swdb_result. The structure contains the following member:

name
   This is the name of the package.

iversion
   The currently installed version or an empty string. This value is either a copy of the argument given to gpgme_op_query_swdb or the version of the installed software as figured out by GPGME or GnuPG.

created
   This gives the date the file with the list of version numbers has originally been created by the GnuPG project.

retrieved
   This gives the date the file was downloaded.

warning
   If this flag is set either an error has occurred or some of the information in this structure are not properly set. For example if the version number of the installed software could not be figured out, the update flag may not reflect a required update status.

update
   If this flag is set an update of the software is available.

urgent
   If this flag is set an available update is important.

noinfo
   If this flag is set, no valid information could be retrieved.

unknown
If this flag is set the given name is not known.

tool

If this flag is set the available information is not fresh enough.

error

If this flag is set some other error has occurred.

version

The version string of the latest released version.

reldate

The release date of the latest released version.

-- Function: gpgme_error_t gpgme_op_query_swdb (gpgme_ctx_t CTX, const char *NAME, const char *IVERSION, gpgme_data_t RESERVED)

SINCE: 1.8.0

Query the software version database for software package NAME and check against the installed version given by IVERSION. If IVERSION is given as NULL a check is only done if GPGME can figure out the version by itself (for example when using "gpgme" or "gnupg"). If NULL is used for NAME the current gpgme version is checked. RESERVED must be set to 0.

-- Function: gpgme_query_swdb_result_t gpgme_op_query_swdb_result (gpgme_ctx_t CTX)

SINCE: 1.8.0

The function gpgme_op_query_swdb_result returns a gpgme_query_swdb_result_t pointer to a structure holding the result of a gpgme_op_query_swdb operation. The pointer is only valid if the last operation on the context was a successful call to gpgme_op_query_swdb. If that call failed, the result might be a NULL pointer. The returned pointer is only valid until the next operation is started on the context CTX.

Here is an example on how to check whether GnuPG is current:

#include <gpgme.h>

int main (void)
{
  gpg_error_t err;
7.9 Run Control

GPGME supports running operations synchronously and asynchronously. You can use asynchronous operation to set up a context up to initiating the desired operation, but delay performing it to a later point.

Furthermore, you can use an external event loop to control exactly when GPGME runs. This ensures that GPGME only runs when necessary and also prevents it from blocking for a long time.

* Menu:
* Waiting For Completion::   Waiting until an operation is completed.
* Using External Event Loops:: Advanced control over what happens when.
* Cancellation:: How to end pending operations prematurely.

File: gpgme.info, Node: Waiting For Completion, Next: Using External Event Loops, Up: Run Control

7.9.1 Waiting For Completion

------------------------

-- Function: gpgme_ctx_t gpgme_wait (gpgme_ctx_t CTX,
   gpgme_error_t *STATUS, int HANG)
The function gpgme_wait continues the pending operation within
the context CTX. In particular, it ensures the data exchange
between GPGME and the crypto backend and watches over the run time
status of the backend process.

If HANG is true, the function does not return until the operation
is completed or cancelled. Otherwise the function will not block
for a long time.

The error status of the finished operation is returned in STATUS if
gpgme_wait does not return NULL.

The CTX argument can be NULL. In that case, gpgme_wait waits
for any context to complete its operation.

gpgme_wait can be used only in conjunction with any context that
has a pending operation initiated with one of the
gpgme_op_*_start functions except gpgme_op_keylist_start and
gpgme_op_trustlist_start (for which you should use the
 corresponding gpgme_op_*_next functions). If CTX is NULL, all
of such contexts are waited upon and possibly returned.
Synchronous operations running in parallel, as well as key and
trust item list operations, do not affect gpgme_wait.

In a multi-threaded environment, only one thread should ever call
gpgme_wait at any time, regardless of whether CTX is specified or
not. This means that all calls to this function should be fully
synchronized by locking primitives. It is safe to start
asynchronous operations while a thread is running in gpgme_wait.

The function returns the CTX of the context which has finished the
operation. If HANG is false, and the timeout expires, NULL is
returned and *status will be set to 0. If an error occurs,
NULL is returned and the error is returned in *status.
GPGME hides the complexity of the communication between the library and the crypto engine. The price of this convenience is that the calling thread can block arbitrary long waiting for the data returned by the crypto engine. In single-threaded programs, in particular if they are interactive, this is an unwanted side-effect. OTOH, if gpgme_wait is used without the HANG option being enabled, it might be called unnecessarily often, wasting CPU time that could be used otherwise.

The I/O callback interface described in this section lets the user take control over what happens when. GPGME will provide the user with the file descriptors that should be monitored, and the callback functions that should be invoked when a file descriptor is ready for reading or writing. It is then the users responsibility to decide when to check the file descriptors and when to invoke the callback functions. Usually this is done in an event loop, that also checks for events in other parts of the program. If the callback functions are only called when the file descriptors are ready, GPGME will never block. This gives the user more control over the program flow, and allows to perform other tasks when GPGME would block otherwise.

By using this advanced mechanism, GPGME can be integrated smoothly into GUI toolkits like GTK+ even for single-threaded programs.
gpgme_register_io_cb_t functions provided by the user.

DATA and FD are provided by GPGME when the I/O callback handler is registered, and should be passed through to the handler when it is invoked by the user because it noticed activity on the file descriptor FD.

The callback handler always returns 0, but you should consider the return value to be reserved for later use.

-- Data type: gpgme_error_t (*gpgme_register_io_cb_t) (void *DATA, int FD, int DIR, gpgme_io_cb_t FNC, void *FNC_DATA, void **TAG)

The gpgme_register_io_cb_t type is the type of functions which can be called by GPGME to register an I/O callback function FNC for the file descriptor FD with the user. FNC_DATA should be passed as the first argument to FNC when the handler is invoked (the second argument should be FD). If DIR is 0, FNC should be called by the user when FD is ready for writing. If DIR is 1, FNC should be called when FD is ready for reading.

DATA was provided by the user when registering the gpgme_register_io_cb_t function with GPGME and will always be passed as the first argument when registering a callback function. For example, the user can use this to determine the event loop to which the file descriptor should be added.

GPGME will call this function when a crypto operation is initiated in a context for which the user has registered I/O callback handler functions with gpgme_set_io_cbs. It can also call this function when it is in an I/O callback handler for a file descriptor associated to this context.

The user should return a unique handle in TAG identifying this I/O callback registration, which will be passed to the gpgme_register_io_cb_t function without interpretation when the file descriptor should not be monitored anymore.

-- Data type: void (*gpgme_remove_io_cb_t) (void *TAG)

The gpgme_remove_io_cb_t type is the type of functions which can be called by GPGME to remove an I/O callback handler that was registered before. TAG is the handle that was returned by the gpgme_register_io_cb_t for this I/O callback.

GPGME can call this function when a crypto operation is in an I/O callback. It will also call this function when the context is destroyed while an operation is pending.
-- Data type: enum gpgme_event_io_t
The gpgme_event_io_t type specifies the type of an event that is reported to the user by GPGME as a consequence of an I/O operation. The following events are defined:

GPGME_EVENT_START
The operation is fully initialized now, and you can start to run the registered I/O callback handlers now. Note that registered I/O callback handlers must not be run before this event is signalled. TYPE_DATA is NULL and reserved for later use.

GPGME_EVENT_DONE
The operation is finished, the last I/O callback for this operation was removed. The accompanying TYPE_DATA points to a struct gpgme_io_event_done_data variable that contains the status of the operation that finished. This event is signalled after the last I/O callback has been removed.

GPGME_EVENT_NEXT_KEY
In a gpgme_op_keylist_start operation, the next key was received from the crypto engine. The accompanying TYPE_DATA is a gpgme_key_t variable that contains the key with one reference for the user.

GPGME_EVENT_NEXT_TRUSTITEM
In a gpgme_op_trustlist_start operation, the next trust item was received from the crypto engine. The accompanying TYPE_DATA is a gpgme_trust_item_t variable that contains the trust item with one reference for the user.

-- Data type: void (*gpgme_event_io_cb_t) (void *DATA, gpgme_event_io_t TYPE, void *TYPE_DATA)
The gpgme_event_io_cb_t type is the type of functions which can be called by GPGME to signal an event for an operation running in a context which has I/O callback functions registered by the user.

DATA was provided by the user when registering the gpgme_event_io_cb_t function with GPGME and will always be passed as the first argument when registering a callback function. For example, the user can use this to determine the context in which this event has occurred.

TYPE will specify the type of event that has occurred. TYPE_DATA specifies the event further, as described in the above list of possible gpgme_event_io_t types.

GPGME can call this function in an I/O callback handler.
7.9.2.2 Registering I/O Callbacks

-------- Data type: struct gpgme_io_cbs
This structure is used to store the I/O callback interface functions described in the previous section. It has the following members:

gpgme_register_io_cb_t add
This is the function called by GPGME to register an I/O callback handler. It must be specified.

void *add_priv
This is passed as the first argument to the add function when it is called by GPGME. For example, it can be used to determine the event loop to which the file descriptor should be added.

gpgme_remove_io_cb_t remove
This is the function called by GPGME to remove an I/O callback handler. It must be specified.

gpgme_event_io_cb_t event
This is the function called by GPGME to signal an event for an operation. It must be specified, because at least the start event must be processed.

void *event_priv
This is passed as the first argument to the event function when it is called by GPGME. For example, it can be used to determine the context in which the event has occurred.

-- Function: void gpgme_set_io_cbs (gpgme_ctx_t CTX,
   struct gpgme_io_cbs *IO_CBS)
The function gpgme_set_io_cbs enables the I/O callback interface for the context CTX. The I/O callback functions are specified by IO_CBS.

If IO_CBS->add is NULL, the I/O callback interface is disabled for the context, and normal operation is restored.

-- Function: void gpgme_get_io_cbs (gpgme_ctx_t CTX,
   struct gpgme_io_cbs *IO_CBS)
The function gpgme_get_io_cbs returns the I/O callback functions set with gpgme_set_io_cbs in IO_CBS.

To actually use an external event loop, you have to implement the I/O callback functions that are used by GPGME to register and unregister file descriptors. Furthermore, you have to actually monitor these file descriptors for activity and call the appropriate I/O callbacks.

The following example illustrates how to do that. The example uses locking to show in which way the callbacks and the event loop can run concurrently. For the event loop, we use a fixed array. For a real-world implementation, you should use a dynamically sized structure because the number of file descriptors needed for a crypto operation in GPGME is not predictable.

```c
#include <assert.h>
#include <errno.h>
#include <stdlib.h>
#include <pthread.h>
#include <sys/types.h>
#include <gpgme.h>

/* The following structure holds the result of a crypto operation. */
struct op_result
{
    int done;
    gpgme_error_t err;
};

/* The following structure holds the data associated with one I/O callback. */
struct one_fd
{
    int fd;
    int dir;
    gpgme_io_cb_t fnc;
    void *fnc_data;
    void *loop;
};

struct event_loop
```
{  
  pthread_mutex_t lock;
#define MAX_FDS 32
  /* Unused slots are marked with FD being -1. */
  struct one_fd fds[MAX_FDS];
};

The following functions implement the I/O callback interface.

gpgme_error_t
add_io_cb (void *data, int fd, int dir, gpgme_io_cb_t fnc, void *fnc_data,
        void **r_tag)
{
  struct event_loop *loop = data;
  struct one_fd *fds = loop->fds;
  int i;

  pthread_mutex_lock (&loop->lock);
  for (i = 0; i < MAX_FDS; i++)
    if (fds[i].fd == -1)
      {  
      fds[i].fd = fd;
      fds[i].dir = dir;
      fds[i].fnc = fnc;
      fds[i].fnc_data = fnc_data;
      fds[i].loop = loop;
      break;
      }
  pthread_mutex_unlock (&loop->lock);
  if (i == MAX_FDS)
    return gpg_error (GPG_ERR_GENERAL);
  *r_tag = &fds[i];
  return 0;
}

void
remove_io_cb (void *tag)
{
  struct one_fd *fd = tag;
  struct event_loop *loop = fd->loop;

  pthread_mutex_lock (&loop->lock);
  fd->fd = -1;
  pthread_mutex_unlock (&loop->lock);  
}
void
event_io_cb (void *data, gpgme_event_io_t type, void *type_data)
{
    struct op_result *result = data;

    /* We don't support list operations here. */
    if (type == GPGME_EVENT_DONE)
    {
        result->done = 1;
        result->err = *type_data;
    }
}

The final missing piece is the event loop, which will be presented next. We only support waiting for the success of a single operation.

int
do_select (struct event_loop *loop)
{
    fd_set rfds;
    fd_set wfds;
    int i, n;
    int any = 0;
    struct timeval tv;
    struct one_fd *fdlist = loop->fds;

    pthread_mutex_lock (&loop->lock);
    FD_ZERO (&rfds);
    FD_ZERO (&wfds);
    for (i = 0; i < MAX_FDS; i++)
        if (fdlist[i].fd != -1)
            FD_SET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds);
    pthread_mutex_unlock (&loop->lock);

    tv.tv_sec = 0;
    tv.tv_usec = 1000;

    do
    {
        n = select (FD_SETSIZE, &rfds, &wfds, NULL, &tv);
    }
    while (n < 0 && errno == EINTR);

    if (n < 0)
        return n; /* Error or timeout. */

    pthread_mutex_lock (&loop->lock);
    for (i = 0; i < MAX_FDS && n; i++)
if (fdlist[i].fd != -1)
{
    if (FD_ISSET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds))
    {
        assert (n);
        n--;
        any = 1;
        /* The I/O callback handler can register/remove callbacks,
         * so we have to unlock the file descriptor list. */
        pthread_mutex_unlock (&loop->lock);
        (*fdlist[i].fnc) (fdlist[i].fnc_data, fdlist[i].fd);
        pthread_mutex_lock (&loop->lock);
    }
}
}
pthread_mutex_unlock (&loop->lock);
return any;

void
wait_for_op (struct event_loop *loop, struct op_result *result)
{
    int ret;

    do
    {
        ret = do_select (loop);
    }
    while (ret >= 0 && !result->done);
}

The main function shows how to put it all together.

int
main (int argc, char *argv[])
{
    struct event_loop loop;
    struct op_result result;
    gpgme_ctx_t ctx;
    gpgme_error_t err;
    gpgme_data_t sig, text;
    int i;
    pthread_mutexattr_t attr;
    struct gpgme_io_cbs io_cbs =
    {
        add_io_cb,
        &loop,
remove_io_cb,
event_io_cb,
&result

init_gpgme();

/* Initialize the loop structure. */

/* The mutex must be recursive, since remove_io_cb (which acquires a
 lock) can be called while holding a lock acquired in do_select. */

pthread_mutexattr_init (&attr);
pthread_mutexattr_settype (&attr, PTHREAD_MUTEX_RECURSIVE);
pthread_mutex_init (&loop.lock, &attr);
pthread_mutexattr_destroy (&attr);

for (i = 0; i < MAX_FDS; i++)
  loop.fds[i].fd = -1;

/* Initialize the result structure. */

result.done = 0;

err = gpgme_data_new_from_file (&sig, "signature", 1);
if (!err)
  err = gpgme_data_new_from_file (&text, "text", 1);
if (!err)
  err = gpgme_new (&ctx);
if (!err)
{
  gpgme_set_io_cbs (ctx, &io_cbs);
  err = gpgme_op_verify_start (ctx, sig, text, NULL);
}
if (err)
{
  fprintf (stderr, "gpgme error: %s: %s
",
            gpgme_strsource (err), gpgme_strerror (err));
  exit (1);
}

wait_for_op (&loop, &result);
if (!result.done)
{
  fprintf (stderr, "select error
");
  exit (1);
}
if (!result.err)
{
  fprintf (stderr, "verification failed: %s: %s
",}
gpgme_strsource (result.err), gpgme_strerror (result.err));
exit (1);
}
/* Evaluate verify result. */
...
return 0;
}


7.9.2.4 I/O Callback Example GTK+
..................................

The I/O callback interface can be used to integrate GPGME with the GTK+ event loop. The following code snippets shows how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any GTK+ specific setup.

#include <gtk/gtk.h>

struct my_gpgme_io_cb
{
    gpgme_io_cb_t fnc;
    void *fnc_data;
    guint input_handler_id
};

void
my_gpgme_io_cb (gpointer data, gint source, GdkInputCondition condition)
{
    struct my_gpgme_io_cb *iocb = data;
    (*iocb->fnc) (iocb->data, source);
}

void
my_gpgme_remove_io_cb (void *data)
{
    struct my_gpgme_io_cb *iocb = data;
    gtk_input_remove (data->input_handler_id);
}

void
my_gpgme_register_io_callback (void *data, int fd, int dir, gpgme_io_cb_t fnc,
    void *fnc_data, void **tag)
The I/O callback interface can also be used to integrate GPGME with the GDK event loop. The following code snippets shows how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any GDK specific setup.

It is very similar to the GTK+ example in the previous section.

```c
#include <gdk/gdk.h>

struct my_gpgme_io_cb
{
    gpgme_io_cb_t fnc;
    void *fnc_data;
    gint tag;
};

void
my_gpgme_io_cb (gpointer data, gint source, GdkInputCondition condition)
{
    struct my_gpgme_io_cb *iocb = g_malloc (sizeof (struct my_gpgme_io_cb));
    iocb->fnc = fnc;
    iocb->data = fnc_data;
    iocb->input_handler_id = gtk_input_add_full (fd, dir
        ? GDK_INPUT_READ
        : GDK_INPUT_WRITE,
        my_gpgme_io_callback,
        0, iocb, NULL);

    *tag = iocb;
    return 0;
}

void
my_gpgme_remove_io_cb (void *data)
{
```

```
struct my_gpgme_io_cb *iocb = data;
gdk_input_remove (data->tag);
}

void
my_gpgme_register_io_callback (void *data, int fd, int dir, gpgme_io_cb_t fnc,
void *fnc_data, void **tag)
{
    struct my_gpgme_io_cb *iocb = g_malloc (sizeof (struct my_gpgme_io_cb));
    iocb->fnc = fnc;
    iocb->data = fnc_data;
    iocb->tag = gtk_input_add_full (fd, dir ? GDK_INPUT_READ : GDK_INPUT_WRITE,
        my_gpgme_io_callback, iocb, NULL);
    *tag = iocb;
    return 0;
}


7.9.2.6 I/O Callback Example Qt

.............................

The I/O callback interface can also be used to integrate GPGME with the Qt event loop. The following code snippets show how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any Qt specific setup.

#include <qsocketnotifier.h>
#include <qapplication.h>

struct IOCB {
    IOCB( GpgmeIOCb f, void * d, QSocketNotifier * n ) :
        func( f ), data( d ), notifier( n ) {}
    GpgmeIOCb func;
    void * data;
    QSocketNotifier * notifier;
}

class MyApp : public QApplication {

    // ...

    static void registerGpgmeIOCallback( void * data, int fd, int dir,
        GpgmeIOCb func, void * func_data,
Sometimes you do not want to wait for an operation to finish. GPGME provides two different functions to achieve that. The function `gpgme_cancel` takes effect immediately. When it returns, the operation is effectively canceled. However, it has some limitations and cannot be used with synchronous operations. In contrast, the function...
gpgme_cancel_async can be used with any context and from any thread, but it is not guaranteed to take effect immediately. Instead, cancellation occurs at the next possible time (typically the next time I/O occurs in the target context).

-- Function: gpgme_ctx_t gpgme_cancel (gpgme_ctx_t CTX)
   SINCE: 0.4.5

   The function gpgme_cancel attempts to cancel a pending operation in the context CTX. This only works if you use the global event loop or your own event loop.

   If you use the global event loop, you must not call gpgme_wait during cancellation. After successful cancellation, you can call gpgme_wait (optionally waiting on CTX), and the context CTX will appear as if it had finished with the error code GPG_ERR_CANCEL.

   If you use an external event loop, you must ensure that no I/O callbacks are invoked for this context (for example by halting the event loop). On successful cancellation, all registered I/O callbacks for this context will be unregistered, and a GPGME_EVENT_DONE event with the error code GPG_ERR_CANCEL will be signalled.

   The function returns an error code if the cancellation failed (in this case the state of CTX is not modified).

-- Function: gpgme_ctx_t gpgme_cancel_async (gpgme_ctx_t CTX)
   SINCE: 1.1.7

   The function gpgme_cancel_async attempts to cancel a pending operation in the context CTX. This can be called by any thread at any time after starting an operation on the context, but will not take effect immediately. The actual cancellation happens at the next time GPGME processes I/O in that context.

   The function returns an error code if the cancellation failed (in this case the state of CTX is not modified).


Appendix A The GnuPG UI Server Protocol
********************************************************************

This section specifies the protocol used between clients and a User Interface Server (UI server). This protocol helps to build a system where all cryptographic operations are done by a server and the server
is responsible for all dialogs. Although GPGME has no direct support
for this protocol it is believed that servers will utilize the GPGME
library; thus having the specification included in this manual is an
appropriate choice. This protocol should be referenced as The GnuPG UI
Server Protocol.

A server needs to implement these commands:(1)

* Menu:

* UI Server Encrypt:: Encrypt a message.
* UI Server Sign:: Sign a message.
* UI Server Decrypt:: Decrypt a message.
* UI Server Verify:: Verify a message.
* UI Server Set Input Files:: Specifying the input files to operate on.
* UI Server Sign/Encrypt Files:: Encrypting and signing files.
* UI Server Verify/Decrypt Files:: Decrypting and verifying files.
* UI Server Import/Export Keys:: Managing certificates.
* UI Server Checksum Files:: Create and verify checksums for files.
* Miscellaneous UI Server Commands:: Commands not related to a specific operation.

---------- Footnotes ----------

(1) In all examples we assume that the connection has already been
established; see the Assuan manual for details.


A.1 UI Server: Encrypt a Message

================================

Before encryption can be done the recipients must be set using the
command:

-- Command: RECIPIENT STRING

Set the recipient for the encryption. STRING is an RFC-2822
recipient name ("mailbox" as per section 3.4). This command may or
may not check the recipient for validity right away; if it does not
all recipients are expected to be checked at the time of the
ENCRYPT command. All RECIPIENT commands are cumulative until a
successful ENCRYPT command or until a RESET command. Linefeeds
are obviously not allowed in STRING and should be folded into
spaces (which are equivalent).

To tell the server the source and destination of the data, the next two
commands are to be used:
-- Command: INPUT FD=N
Set the file descriptor for the message to be encrypted to N. The message send to the server is binary encoded.

GpgOL is a Windows only program, thus N is not a libc file descriptor but a regular system handle. Given that the Assuan connection works over a socket, it is not possible to use regular inheritance to make the file descriptor available to the server. Thus DuplicateHandle needs to be used to duplicate a handle to the server process. This is the reason that the server needs to implement the GETINFO pid command. Sending this command a second time replaces the file descriptor set by the last one.

-- Command: OUTPUT FD=N [--binary]
Set the file descriptor to be used for the output (i.e. the encrypted message) to N. If the option --binary is given the output shall be in binary format; if not given, the output for OpenPGP needs to be ASCII armored and for CMS Base-64 encoded. For details on the file descriptor, see the INPUT command.

The setting of the recipients, the data source and destination may happen in any order, even intermixed. If this has been done the actual encryption operation is called using:

-- Command: ENCRYPT --protocol=NAME

This command reads the plaintext from the file descriptor set by the INPUT command, encrypts it and writes the ciphertext to the file descriptor set by the OUTPUT command. The server may (and should) overlap reading and writing. The recipients used for the encryption are all the recipients set so far. If any recipient is not usable the server should take appropriate measures to notify the user about the problem and may cancel the operation by returning an error code. The used file descriptors are void after this command; the recipient list is only cleared if the server returns success.

Because GpgOL uses a streaming mode of operation the server is not allowed to auto select the protocol and must obey to the mandatory PROTOCOL parameter:

OpenPGP
Use the OpenPGP protocol (RFC-2440).
CMS
Use the CMS (PKCS#7) protocol (RFC-3852).

To support automagically selection of the protocol depending on the
selected keys, the server MAY implement the command:

-- Command: PREP_ENCRYPT [--protocol=NAME] [--expect-sign]

This commands considers all recipients set so far and decides whether it is able to take input and start the actual encryption. This is kind of a dry-run ENCRYPT without requiring or using the input and output file descriptors. The server shall cache the result of any user selection to avoid asking this again when the actual ENCRYPT command is send. The --protocol option is optional; if it is not given, the server should allow the user to select the protocol to be used based on the recipients given or by any other means.

If --expect-sign is given the server should expect that the message will also be signed and use this hint to present a unified recipient and signer selection dialog if possible and desired. A selected signer should then be cached for the expected SIGN command (which is expected in the same session but possible on another connection).

If this command is given again before a successful ENCRYPT command, the second one takes effect.

Before sending the OK response the server shall tell the client the protocol to be used (either the one given by the argument or the one selected by the user) by means of a status line:

-- Status line: PROTOCOL NAME
Advise the client to use the protocol NAME for the ENCRYPT command. The valid protocol names are listed under the description of the ENCRYPT command. The server shall emit exactly one PROTOCOL status line.

Here is an example of a complete encryption sequence; client lines are indicated by a C:, server responses by C::

C: RESET
S: OK
C: RECIPIENT foo@example.net
S: OK
C: RECIPIENT bar@example.com
S: OK
C: PREP_ENCRYPT
S: S PROTOCOL OpenPGP
S: OK
C: INPUT FD=17
S: OK
A.2 UI Server: Sign a Message

The server needs to implement opaque signing as well as detached signing. Due to the nature of OpenPGP messages it is always required to send the entire message to the server; sending just the hash is not possible. The following two commands are required to set the input and output file descriptors:

-- Command: INPUT FD=N
Set the file descriptor for the message to be signed to N. The message send to the server is binary encoded. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

-- Command: OUTPUT FD=N [--binary]
Set the file descriptor to be used for the output. The output is either the complete signed message or in case of a detached signature just that detached signature. If the option --binary is given the output shall be in binary format; if not given, the output for OpenPGP needs to be ASCII armored and for CMS Base-64 encoded. For details on the file descriptor, see the INPUT command.

To allow the server the selection of a non-default signing key the client may optionally use the SENDER command, see *note command SENDER::*:

The signing operation is then initiated by:

-- Command: SIGN --protocol=NAME [--detached]
Sign the data set with the INPUT command and write it to the sink set by OUTPUT. NAME is the signing protocol used for the message. For a description of the allowed protocols see the ENCRYPT command. With option --detached given, a detached signature is created; this is actually the usual way the command is used.

The client expects the server to send at least this status information before the final OK response:
-- Status line: MICALG STRING
The STRING represents the hash algorithm used to create the signature. It is used with RFC-1847 style signature messages and defined by PGP/MIME (RFC-3156) and S/MIME (RFC-3851). The GPGME library has a supporting function gpgme_hash_algo_name to return the algorithm name as a string. This string needs to be lowercased and for OpenPGP prefixed with "pgp-".


A.3 UI Server: Decrypt a Message
================================

Decryption may include the verification of OpenPGP messages. This is due to the often used combined signing/encryption modus of OpenPGP. The client may pass an option to the server to inhibit the signature verification. The following two commands are required to set the input and output file descriptors:

-- Command: INPUT FD=N
Set the file descriptor for the message to be decrypted to N. The message send to the server is either binary encoded or in the case of OpenPGP ASCII armored. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

-- Command: OUTPUT FD=N
Set the file descriptor to be used for the output. The output is binary encoded. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

The decryption is started with the command:

-- Command: DECRYPT --protocol=NAME [--no-verify] [--export-session-key]
NAME is the encryption protocol used for the message. For a description of the allowed protocols see the ENCRYPT command. This argument is mandatory. If the option --no-verify is given, the server should not try to verify a signature, in case the input data is an OpenPGP combined message. If the option --export-session-key is given and the underlying engine knows how to export the session key, it will appear on a status line

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For files:
- cJSON.c, cJSON.h

#+begin_quote
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#+end_quote

Just GNU it!
2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-10-25 Marcus Brinkmann <marcus@g10code.com>

* m4/pth.m4: Removed.
* configure.ac: Remove check for pth and automake conditional HAVE_PTH.
2011-06-16 Marcus Brinkmann <marcus@g10code.com>

Release 1.3.1

* configure.ac: Set LT version to C19/A8/R0.

2011-05-06 Marcus Brinkmann <marcus@g10code.com>

* Makefile.am (SUBDIRS): Remove complus.

* configure.ac (AC_CONFIG_FILES): Remove complus/Makefile.
  (BUILD_COMPLUS): Remove AM_CONDITIONAL.
* complus/: Remove very old and stale component.

* acinclude.m4 (GNUPG_FIX_HDR_VERSION): Remove.

2011-04-14 Werner Koch <wk@g10code.com>

* configure.ac: Require automake 1.11.

2011-04-06 Werner Koch <wk@g10code.com>

* autogen.sh (--build-w32): Support option --build-w64.
* configure.ac (HAVE_W64_SYSTEM): Define.
  (INSERT__TYPEDEFS_FOR_GPGME_H): New.
  (GPGME_CONFIG_HOST): New.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

* configure.ac (NEED_LIBASSUAN_VERSION): Bump to 2.0.2 for system hooks.

2010-12-30 Werner Koch <wk@g10code.com>

* configure.ac: Support a git revision.

2010-11-03 Werner Koch <wk@g10code.com>

* configure.ac (AC_CHECK_HEADERS): Check for sys/types.h and
  sys.stat.h.

2010-11-02 Werner Koch <wk@g10code.com>

* configure.ac (AC_CHECK_HEADERS): Check for sys.time.h.

2010-08-19 Werner Koch <wk@g10code.com>

* configure.ac (AH_BOTTOM): Define GPG_ERR_ENABLE_ERRNO_MACROS.
2010-05-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for setlocale.

2010-05-07 Werner Koch <wk@g10code.com>

* configure.ac: Change checks to always require libassuan.

2010-05-07 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh: Update the thing.

* configure.ac: Check for locale.h.

2010-05-06 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Detect Windows CE.
  (HAVE_W32CE_SYSTEM): New symbol and automake conditional.
* ltmain.sh, m4/libtool.m4: Patch so that it works for Windows CE.

* configure.ac: Require libgpg-error 1.8.

2010-03-15 Werner Koch <wk@g10code.com>

* configure.ac (emacs_local_vars_begin)
  (emacs_local_vars_read_only, emacs_local_vars_end): New.

2010-01-22 Werner Koch <wk@g10code.com>

* autogen.sh (--build-w32): Add --with-libassuan-prefix.

2010-01-11 Marcus Brinkmann <marcus@g10code.de>

Release 1.3.0.

2009-12-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Do not use echo -n. Test for __thread.

2009-12-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Make largefile check more robust.

2009-12-10 Werner Koch <wk@g10code.com>

* configure.ac: Check for getgid and getegid.

2009-12-08 Marcus Brinkmann <marcus@g10code.de>
Update to libtool 2.2.6a.
* configure.ac: Invoke AC_CONFIG_MACRO_DIR.
(AC_LIBTOOL_WIN32_DLL, AC_LIBTOOL_RC): Replace by ...
(LT_PREREQ, LT_INIT, LT_LANG): ... these.
* config.guess, config.sub, install-sh, ltmain.sh, m4/libtool.m4: Updated to libtool 2.2.6a.
* m4/ltoptions.m4, m4/ltsugar.m4, m4/ltversion.m4, m4/lt~obsolete.m4: New files from libtool 2.2.6a.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Activate UIServer if FD passing is enabled and Assuan is available.

2009-10-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for argp.h and error_t.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION_DEFAULT): Bump to 1.4.0 as 1.3.0 was development versions only.

2009-10-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add support for G13.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_CONFIG_FILES): Remove assuan/Makefile.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Replace internal libassuan by external libassuan.
* Makefile.am (assuan): Remove variable.
(SubDIRS): Remove $[assuan].
* assuan/: Removed.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add AC_TYPE_UINTPTR_T.

* assuan/assuan.h [_ASSUAN_IN_GPGME_BUILD_ASSUAN]: Declare _gpgme_io_connect.
Released GPGME 1.2.0.

* configure.ac (my_version): Set to 1.2.0.
(LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump.
(LIBGPGME_LT_REVISION): Reset.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add infrastructure for compile time check of _FILE_OFFSET_BITS.

2009-04-19 Moritz <moritz@gnu.org>


2009-03-06 Marcus Brinkmann <marcus@g10code.de>

* assuan/: Update to libassuan SVN 2009-03-06.

2009-01-26 Werner Koch <wk@g10code.com>

* configure.ac (AC_CONFIG_FILES): Add tests/opassuan/Makefile.

2008-12-08 Marcus Brinkmann <marcus@g10code.de>

Release GPGME 1.1.8.

* configure.ac: Bump API revision.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

* configure.ac: Replace gpgme paths with src.
* gpgme: Move to ...
* src: ... this new directory.

2008-10-20 Werner Koch <wk@g10code.com>

* configure.ac (AC_CONFIG_FILES): Add gpgme.h.
(GNUPG_FIX_HDR_VERSION): Remove.

2008-10-17 Marcus Brinkmann <marcus@g10code.com>

Release GPGME 1.1.7.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2008-09-19 Moritz <moritz@gnu.org>
* configure.ac: Remove bogus "esac".

2008-09-16 Marcus Brinkmann <marcus@g10code.com>

* configure.ac (_XOPEN_SOURCE) [apple-darwin]: Define it.

2008-07-04 Werner Koch <wk@g10code.com>

* config.guess, config.sub: Update to 2007-11-19. Also update
  missing et al scripts.

2008-04-01 Werner Koch <wk@g10code.com>

* configure.ac (AC_INIT): Fix quoting.

2008-01-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump required version of automake up to 1.10.
  * autogen.sh: Fix aclocal check.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

Release GPGME 1.1.6.

* configure.ac: Support gpgconf.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* assuan-pipe-connect.c (pipe_connect_gpgme): Do not close process
  handle here. Use this function also on Unix systems.

* assuan-pipe-connect.c (pipe_connect_gpgme): Fix last change.

* assuan-pipe-connect.c (pipe_connect_gpgme): New function, use it
  if _ASSUAN_IN_GPGME_BUILD_ASSUAN.

2007-09-17 Werner Koch <wk@g10code.com>

* configure.ac: Use the svn version magic.

2007-09-07 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for C++, Qt and support --enable-w32-qt.

2007-08-21 Marcus Brinkmann <marcus@g10code.de>
* configure.ac (--enable-w32-glib): Use --enableval, not --withval.

2007-07-16 Marcus Brinkmann <marcus@g10code.de>

* assuan/assuan-socket.c (_assuan_close): Always use close().
* assuan/assuan.h (_gpgme_io_close): New prototype.
  (close): New macro, define as _gpgme_io_close.

2007-07-13 Marcus Brinkmann <marcus@g10code.de>

* assuan/assuan-io.c (_assuan_simple_read, _assuan_simple_write):
  Always use read/write (which means _gpgme_io_read and
  _gpgme_io_write).

2007-07-09 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.5.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2007-07-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (PGPSPACE_DEFAULT) [*-mingw32*]: Initialize it.
  (HAVE_ASSUAN_H): Set to 1 if we have it.
  (funopen): Use AC_REPLACE_FUNCS.
  (USE_DESCRIPTOR_PASSING): Define to 1 if we have it. Do not
  define it at all if we don't.
  (NETLIBS) [have_w32_system]: Add -lws2_32.
  (DIRSEP_C, DIRSEP_S, EXPSEP_C, EXPSEP_S, PATHSEP_S)
  [HAVE_DOSISH_SYSTEM]: Remove definitions.

* assuan/assuan.h (_assuan_funopen): Define to _gpgme_funopen.
* assuan/funopen.c: Move to ../gpgme/funopen.c.
* assuan/Makefile.am (libassuan_la_SOURCES): Remove funopen.c.

2007-07-04 Marcus Brinkmann <marcus@g10code.de>

* assuan/Makefile.am (INCLUDES): Include $(top_srcdir)/gpgme.
* assuan/assuan.h: Include <ath.h> instead of trying to duplicate
  the definitions.

* assuan/: Update files to 2007-07-04 version of assuan.

* autogen.sh: Use = not == in test.

2007-03-05 Werner Koch <wk@g10code.com>
Released 1.1.4.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

* autogen.sh: New option --force.

2007-01-29 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.3.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2007-01-26 Werner Koch <wk@g10code.com>

* configure.ac: Changed gpg and gpgsm version checks to work with
arbitrary names of the gpg binary. New option --disable-gpg-test
and --disable-gpgsm-test.

2007-01-09 Werner Koch <wk@g10code.com>

* configure.ac (NEED_GPG_VERSION, NEED_GPGSM_VERSION): Must define
after it may have been changed by an option.

2007-01-08 Werner Koch <wk@g10code.com>

* configure.ac: Require gpg-error 1.4 due to the use of
gpg_error_from_syserror.
(HAVE_ASSUAN_H): New.

2007-01-05 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add options --with-gpg-version and
--with-gpgsm-version to allow overriding the minimum version
requirements.

2006-12-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Fix two typos in last change.

2006-12-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Use descriptor passing only if --enable-fd-passing
is provided.

* configure.ac: Add check for use of descriptor passing.

2006-11-29 Marcus Brinkmann <marcus@g10code.de>
* configure.ac (NEED_GPG_VERSION): Bump to 1.3.0.

2006-09-19 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Turn stpcpy into a replacement function. Check for unistd.h and add setenv as replacement function.

2006-07-29 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for network libraries and set NETLIBS.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

* lang, lang/cl: New subdirectories.
  * lang/Makefile.am, lang/README: New files.
  * configure.ac (AC_CONFIG_FILES): Add lang/Makefile, lang/cl/Makefile and lang/cl/gpgme.asd.
  * Makefile.am (SUBDIRS): Add lang.

2006-03-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.1.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump for release.
  (LIBGPGME_LT_REVISION): Reset to 0 for release.

2006-01-05 Werner Koch <wk@g10code.com>

* configure.ac: Test for inline feature.
  (AH_BOTTOM): New to define the pure attribute.

2006-01-03 Werner Koch <wk@g10code.com>

* configure.ac: Append SVN revision to the version.

2005-11-18 Werner Koch <wk@g10code.com>

* configure.ac (BUILD_REVISION): New.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add support for --enable-w32-glib (disabled by default). Invoke AM_PATH_GLIB_2_0.
2005-11-16 Werner Koch <wk@g10code.com>

* configure.ac (CFLAGS) [W32]: Make sure that -mms-bitfields are used.

2005-11-15 Werner Koch <wk@g10code.com>

* configure.ac: Create BUILD_FILEVERSION from SVN Revision.

* autogen.sh [W32]: Build shared and static versions of the library.

2005-10-20 Marcus Brinkmann <marcus@g10code.de>

* w32-dll/ChangeLog, w32-dll/build-dll, w32-dll/gpgme.def: Remove files.

* configure.ac: Instead checking for windres and dlltool, invoke
  AC_LIBTOOL_WIN32_DLL and AC_LIBTOOL_RC.
* src/Makefile.am [HAVE_W32.SYSTEM]: Use libtool, which simplifies the rules.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.0.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump for release.
  (LIBGPGME_LT_REVISION): Reset to 0 for release.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (HAVE_PTH): Don't add $PTH_CFLAGS to $CFLAGS here.

2005-08-26 Werner Koch <wk@g10code.com>

* configure.ac (SEPCONSTANTS): New to define DIRSEP_C et al.

2005-08-19 Werner Koch <wk@g10code.com>

* configure.ac [W32]: Create values for versioninfo.rc and list substuture versioninfo.rc.
* configure.ac: Define ENABLE_GPGSM.

2005-08-08 Werner Koch <wk@g10code.com>

* configure.ac (stpcpy): Changed from replace to test.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>
* configure.ac (AH_BOTTOM): Removed.

2005-03-09 Werner Koch <wk@g10code.com>

* acinclude.m4 (GNUPG_CHECK_VA_COPY): Assume no when cross-compiling.

* Makefile.am (EXTRA_DIST): Include autogen.sh

* autogen.sh: Added the usual code to build for W32 (--build-w32).

* configure.ac: Fixed the mingw32 host string, removed OS/2 stuff.
  (HAVE_DRIVE_LETTERS): Removed.
  (HAVE_W32_SYSTEM): Added.
  (AC_GNU_SOURCE): New to replace the identical AH_VERBATIM.
  (AH_BOTTOM): Added.

2004-12-28 Werner Koch <wk@g10code.com>

Released 1.0.2.

* Makefile.am (AUTOMAKE_OPTIONS): Build bzip 2 version.
  (ACLOCAL_AMFLAGS): Add -I m4.
* configure.ac: Require automake 1.9.3 and autoconf 2.59.
* acinclude.m4: Changed quoting for automake 1.9.
* README: Use SHA1 instead of MD5.

2004-12-11 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Replace ttyname_r if it doesn't exist (and warn in that case).

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* README: Refer to COPYING.LESSER and "each file" instead of COPYING.
* COPYING.LESSER: New file.
* gpgme.spec.in (%doc): Add COPYING.LESSER.
* acinclude.m4, configure.ac, Makefile.am: Change license to LGPL 2.1 or later.
* TODO: Add copyright notice.
* README.CVS: Likewise.

* configure.ac (GPGSM_VERSION): Fix filter to get it.

2004-10-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.1.
* configure.ac (LIBGPGME_LT_REVISION): Bump up to 2.
  (AC_INIT): Set version to 1.0.1.

* configure.ac: Set HAVE_GPGSM to true only if $GPGSM is not "no".

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.0.

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 1.
  (AC_INIT): Set version to 1.0.0.

* Makefile.am (EXTRA_DIST): Remove README-alpha.
* README-alpha: Remove file.

2004-09-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Disable AC_CONFIG_MACRO_DIR for now.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Improve diagnostics with version check.

* configure.ac: Print diagnostics about found thread libraries at
  the end. Check for the versions of GPG and GPGSM and print the
  found versions at the end.
  (HAVE_GPGSM): Do not require GPGSM to exist and be readable.
  (AC_CONFIG_MACRO_DIR): Invoke with argument m4.

* acinclude.m4: Add copyright notice.
  (jm_GLIBC21, AM_PATH_GPG_ERROR, _AC_PTH_ERROR, _AC_PTH_VERBOSE,
  AC_CHECK_PTH): Removed.

2004-06-23 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for <sys/uio.h>.

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

Released 0.9.0.

* configure.ac (AC_INIT): Set version number to 0.9.0.
  (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump up by one.
  (LIBGPGME_LT_REVISION): Reset to zero.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>
* configure.ac (GPGME_CONFIG_API_VERSION): New variable, substitute it.

2004-04-29 Marcus Brinkmann  <marcus@g10code.de>

Released 0.4.7.

* configure.ac (LIBGPGME_LT_REVISION): Bump it up.

2004-04-02 Thomas Schwinge  <schwinge@nic-nac-project.de>

* autogen.sh: Added ACLOCAL_FLAGS.

2004-04-06 Werner Koch  <wk@gnupg.org>

Released 0.4.6.

* config.guess, config.sub, ltmain.sh: Updated to those from libtools 1.5.4.

2004-03-07 Marcus Brinkmann  <marcus@g10code.de>

Released 0.4.5.

* configure.ac (NEED_GPGSM_VERSION): Bump up to 1.9.6.

* Makefile.am (EXTRA_DIST): Remove autogen.sh and README.CVS.

2004-02-18 Werner Koch  <wk@gnupg.org>

* configure.ac: Make the check for funopen fail with just a warning.

2004-02-11 Werner Koch  <wk@gnupg.org>

* autogen.sh (check_version): Removed bashism and simplified.

2004-02-10 Werner Koch  <wk@gnupg.org>

* configure.ac: Fixed funopen test change.

2004-02-06 Moritz Schulte  <mo@g10code.com>

* configure.ac: Fix funopen replacement mechanism.

2004-01-31 Marcus Brinkmann  <marcus@g10code.de>

* configure.ac: Add invocation of AC_SYS_LARGEFILE, AC_TYPE_OFF_T
and AC_FUNC_FSEEKO.

2004-01-12 Werner Koch <wk@gnupg.org>

Released 0.4.4.

* configure.ac: Bumped LT_Revision; now at C12/A1/R1.
(NEED_GPGSM_VERSION): Set to 1.9.3.
(min_automake_version): Added.
* README.CVS: New.
* Makefile.am (EXTRA_DIST): Added README.CVS.
* autogen.sh: Updated.

2003-11-19 Werner Koch <wk@gnupg.org>

* acinclude.m4: Add AM_PATH_GPG_ERROR.
* configure.ac: Check for timegm. Made warning messages more prominent.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.3.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump up by 1.
(LIBGPGME_LT_REVISION): Set to 0.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Require libgpg-error 0.5.

* acinclude.m4: Remove libtool cruft, add jm_GLIBC21.
* configure.ac: Add check for getenv_r, and call jm_GLIBC21.
Define HAVE_THREAD_SAFE_GETENV if appropriate.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Remove GPGME_CONFIG_LIBS and GPGME_CONFIG_CFLAGS.

2003-09-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Move invocation of AC_CANONICAL_HOST up to
suppress warning by autoconf.

2003-08-30 Robert Schiele <rschiele@uni-mannheim.de>

* gpgme.spec.in: %{_infodir}/dir is not packaged,
remove to prevent checking failure.
2003-08-18 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: If building Assuan, check for funopen and fopencookie, and make isascii, putc_unlocked and memrchr replacement functions.
(AM_PATH_GPG_ERROR): Require 0.3.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.4.3.

2003-07-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 1.

Released 0.4.2.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Complain if libgpg-error is not found.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.4.2.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_CURRENT): Bump up to 11.

* configure.ac: Use AM_PATH_GPG_ERROR.

* configure.ac: Check for libgpg-error. Define GPG_ERR_SOURCE_DEFAULT.

2003-05-26 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION): Bump up to 1.2.2.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

In all files, replace the Gpgme* type names with the new gpgme_* type names.

2003-02-01 Marcus Brinkmann <marcus@g10code.de>

* assuan/: Update files to 2002-11-10 version of assuan.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>
* bonobo/gpgme.c, bonobo/main.c, bonobo/main.h, bonobo/Makefile, bonobo/Makefile.am, bonobo/Makefile.in: Dead files removed.
* configure.ac: Remove automake conditional BUILD_BONOBO (AC_CONFIG_FILES): Remove bonobo/Makefile.
* Makefile.am (bonobo): Remove variable.
  (SUBDIRS): Remove $[bonobo].

* configure.ac: Remove all uses of GNUPG_CHECK_TYPEDEF, for byte, ushort, ulong, u16 and u32.
* acinclude.m4 (GNUPG_CHECK_TYPEDEF): Remove macro.

2002-12-24 Marcus Brinkmann  <marcus@g10code.de>

* configure.ac: New conditional HAVE_LD_VERSION_SCRIPT.
  Call AC_CANONICAL_HOST, use host instead target.

2002-12-23 Marcus Brinkmann  <marcus@g10code.de>

* configure.ac: Bump up to 0.4.1.

Released 0.4.0.

2002-12-23 Marcus Brinkmann  <marcus@g10code.de>

* autogen.sh (automake_vers): Require 1.7 (really 1.7.1) for the conditional source distribution bug fix.

2002-12-08 Marcus Brinkmann  <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_CURRENT): Increase by one.
  (LIBGPGME_LT_AGE, LIBGPGME_LT_REVISION): Set to 0.

2002-11-28 Marcus Brinkmann  <marcus@g10code.de>

* NEWS: Add note about moving "gpgmeplug" to the "cryptplug" package.
* README: Remove instructions related to "gpgmeplug".
* configure.ac: Remove enable option "gpgmeplug" and automake conditional BUILD_GPGMEPLUG, as well as the status info about it.
  (GPGMEPLUG): Remove variable.
* Makefile.am (gpgmeplug): Remove variable.
  (SUBDIRS): Remove $[gpgmeplug].
* cryptplug.h, gpgme-openpgp.c, gpgmeplug.doxx, gpgme-smime.c, Makefile.am, gpgmeplug.c, ChangeLog: Files removed.

2002-11-22 Marcus Brinkmann  <marcus@g10code.de>
* configure.ac: Disable GPGSM for all dosish systems.

2002-10-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add automake conditional HAVE_GPGSM.

2002-10-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version up to 0.4.0.
  (NEED_GPG_VERSION): Bump up to 1.2.0.
  (NEED_GPGSM_VERSION): Bump up to 0.9.0.
* README: Update version numbers.
* NEWS: Start entry for 0.4.0.

2002-09-20 Werner Koch <wk@gnupg.org>

Released 0.3.11.

* configure.ac: Bump up LIBGPGME_LT_REVISION.

* configure.ac (AC_CHECK_HEADERS): Check for sys/select.h.

2002-09-04 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh (autoconf_vers): Bump up to 2.53 to get the @&t@ quadrigraph. Always cutting the edge!

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Create and substitute LTLIBOBS.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.10.

* NEWS: Update for 0.3.9 release.
* configure.ac: Bump up LIBGPGME_LT_REVISION.

2002-08-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.spec.in: Changed user name in Wojciech Polak’s email address from ghostface to polak per request by himself.

2002-08-28 Werner Koch <wk@gnupg.org>

* acinclude.m4 (GNUPG_CHECK_VA_COPY): New.
* configure.ac: Use it.
2002-08-23 Werner Koch <wk@gnupg.org>

* configure.ac (GPGME_CONFIG_CFLAGS): Renamed from GPGME_CFLAGS and removed the libpath because it is set by the config script.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump version number to 0.3.10.

* NEWS: Add template for development version.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.9.

* NEWS: Update for 0.3.9 release.
* Makefile.am (EXTRA_DIST): Add gpgme.spec.in.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* jnlib/argparse.c, jnlib/argparse.h, jnlib/ChangeLog, jnlib/dotlock.c, jnlib/dotlock.h, jnlib/libjnlib-config.h, jnlib/logging.c, jnlib/logging.h,jnlib/Makefile.am, jnlib/mischelp.h, jnlib/README, jnlib/stringhelp.c, jnlib/stringhelp.h, jnlib/strlist.c, jnlib/strlist.h, jnlib/types.h, jnlib/xmalloc.c, jnlib/xmalloc.h: Remove files.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (SUBDIRS): Remove jnlib.
* configure.ac: Don't check for unsigned short or unsigned long. Don't check for memicmp, strlwr, strlwr, memmove, stricmp. Make stpcpy a replaced function. Don't define HAVE_JNLIB_LOGGING. Don't generate jnlib/Makefile.

2002-07-02 Werner Koch <wk@gnupg.org>

* configure.ac: Bumped version number to 0.3.9; add a comment on when to change it.

* Makefile.am (dist-hook): New.

* AUTHORS: Added Wojciech and bug reporting addresses.

2002-06-25 Werner Koch <wk@gnupg.org>
Released 0.3.8.

* configure.ac: Bumped LT version to 9/3/0.
(NEED_GPGSM_VERSION): Need 0.3.8 due to fixed export command.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.7.

* configure.ac (AC_INIT): Set version to 0.3.7.
(LIBGPGME_LT_REVISION): Add one.

* README: Document version requirement correctly.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* acinclude.m4: Fix Pth check so that it doesn't error out if pth is not found.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add checks for Pth and pthreads.
* acinclude.m4: Add slightly hacked check for pth (seems to be an autoconf version problem).

2002-05-21 Werner Koch <wk@gnupg.org>

* configure.ac (NEED_GPGSM_VERSION): We need gpgsm 0.3.7.

2002-05-03 Werner Koch <wk@gnupg.org>

Released 0.3.6.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

* acconfig.h: File removed.
* configure.ac (NEED_GPG_VERSION): Add description.
(NEED_GPGSM_VERSION): Likewise.
(HAVE_DOSISH_SYSTEM): Likewise.
(HAVE_DRIVE_LETTERS): Likewise.
(GPG_PATH): Likewise.
(GPGSM_PATH): Likewise.
* acinclude.m4 (GNUPG_CHECK_TYPEDEF): Likewise.

2002-04-01 Werner Koch <wk@gnupg.org>

Released 0.3.5.
2002-03-17  Marcus Brinkmann  <marcus@g10code.de>

* configure.ac: Add automake conditional HAVE_DOSISH_SYSTEM.

2002-03-04  Werner Koch  <wk@gnupg.org>

* configure.ac: Bumped version to 0.3.4-cvs to continue development.

Released 0.3.4.

* configure.ac: Bumped LT version numbers to (7,1,0), requires gpgsm 0.3.1.

2002-03-03  Marcus Brinkmann  <marcus@g10code.de>

* configure.ac (AC_INIT): Change version number to snapshot CVS version.

2002-02-13  Werner Koch  <wk@gnupg.org>

* configure.ac (vasprintf,fopencookie): Add checks.

2002-02-12  Marcus Brinkmann  <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.3.3.
* jnlib/Makefile.am: Revert to older version that includes xmalloc but not dotlock and some other files. Reported by Stphane Corthsy.

2002-02-10  Marcus Brinkmann  <marcus@g10code.de>

* Released 0.3.2.

* configure.ac (AC_INIT): Bump version to 0.3.2.
* jnlib/libjnlibconfig.h: Revert to older version that doesn't expect libgcrypt. Reported by Jose Carlos Garcia Sogo <jsogo@debian.org>.

2002-02-09  Marcus Brinkmann  <marcus@g10code.de>

* Released 0.3.1.

* configure.ac (LIBGPGME_LT_CURRENT): Bump it up to 6!
(NEED_GPGSM_VERSION): Bump it up to 0.3.0!
(AC_INIT): Bump version to 0.3.1

2002-01-22  Marcus Brinkmann  <marcus@g10code.de>
* configure.ac (HAVE_JNLIB_LOGGING): Define always for assuan.

2001-12-19  Werner Koch  <wk@gnupg.org>

* configure.ac (VERSION,PACKAGE): Defined and subst. Used for AM_INIT_AUTOMAKE and moved all version number more to the top.

2001-12-18  Marcus Brinkmann  <marcus@g10code.de>

* autogen.sh (libtool_vers): Bump to 1.4.

* configure.ac (LIBGPGME_LT_CURRENT): Increment.
  (LIBGPGME_LT_AGE): Reset.
  Improve comment.
  Fix wrong comment character.

2001-12-18  Werner Koch  <wk@gnupg.org>

* acinclude.m4 (GNUPG_FIX_HDR_VERSION): Fixed for new automake.

2001-12-14  Marcus Brinkmann  <marcus@g10code.de>

* configure.ac (GPG): Substitute this variable.
  (GPGSM): Likewise.

2001-11-22  Marcus Brinkmann  <marcus@g10code.de>

* configure.ac (AC_CONFIG_FILES): Add tests/gpg/Makefile and tests/gpgsm/Makefile.

2001-11-21  Marcus Brinkmann  <marcus@g10code.de>

* Makefile.am (gpgmeplug): New variable, set to gpgmeplug if [BUILD_GPGMEPLUG].
  * configure.ac (AC_CONFIG_FILES): Add gpgmeplug/Makefile.
  Support --enable-gpgmeplug.

2001-11-21  Marcus Brinkmann  <marcus@g10code.de>

* autogen.sh: Tighten version dependencies.

2001-11-20  Marcus Brinkmann  <marcus@g10code.de>

  * Makefile.am (SUBDIRS): Support building the assuan library (currently if GPGSM_PATH is set).
  * configure.ac: Support building the assuan library.
  * assuan: New directory, populated with the Assuan library (copied from the newpg repository).
2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPGSM_VERSION): New variable. Treat it similarly to NEED_GPG_VERSION.
* acconfig.h: Likewise.

2001-11-18 Marcus Brinkmann <marcus@g10code.de>

* configure.in: Renamed to ...
* configure.ac: ... this. Update to autoconf 2.52. Lots of small changes in the transition. Support --with-gpg=PATH and --with-gpgsm=PATH options. Check if test suites can be run.
* acconfig.h: Add GPGSM_PATH.
* Makefile.am: New variable `tests', set to `tests' if RUN_GPG_TESTS.
(SUBDIRS): Replace string `tests' with variable `tests'.
Released 0.2.0.

2001-01-18 Werner Koch <wk@gnupg.org>

* autogen.sh: Added option --build-w32.


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INFO-DIR-SECTION GNU Libraries
START-INFO-DIR-ENTRY
* GPGME: (gpgme). Adding support for cryptography to your program.
END-INFO-DIR-ENTRY

This file documents the GPGME library.


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Public License for more details.


A.4 UI Server: Verify a Message
=================================

The server needs to support the verification of opaque signatures as well as detached signatures. The kind of input sources controls what kind message is to be verified.

-- Command: MESSAGE FD=N
This command is used with detached signatures to set the file descriptor for the signed data to N. The data is binary encoded (used verbatim). For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

-- Command: INPUT FD=N
Set the file descriptor for the opaque message or the signature part of a detached signature to N. The message send to the server is either binary encoded or in the case of OpenPGP ASCII armored. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

-- Command: OUTPUT FD=N
Set the file descriptor to be used for the output. The output is binary encoded and only used for opaque signatures. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

The verification is then started using:

-- Command: VERIFY --protocol=NAME [--silent]
NAME is the signing protocol used for the message. For a description of the allowed protocols see the ENCRYPT command. This argument is mandatory. Depending on the combination of MESSAGE INPUT and OUTPUT commands, the server needs to select the appropriate verification mode:

MESSAGE and INPUT
This indicates a detached signature. Output data is not applicable.
INPUT
This indicates an opaque signature. As no output command has been given, the server is only required to check the signature.

INPUT and OUTPUT
This indicates an opaque signature. The server shall write the signed data to the file descriptor set by the output command. This data shall even be written if the signatures cant be verified.

With --silent the server shall not display any dialog; this is for example used by the client to get the content of opaque signed messages.
The client expects the server to send at least this status information before the final OK response:

-- Status line: SIGSTATUS FLAG DISPLAYSTRING
Returns the status for the signature and a short string explaining the status. Valid values for FLAG are:

none
The message has a signature but it could not not be verified due to a missing key.
green
The signature is fully valid.
yellow
The signature is valid but additional information was shown regarding the validity of the key.
red
The signature is not valid.

DISPLAYSTRING is a percent-and-plus-encoded string with a short human readable description of the status. For example

S SIGSTATUS green Good+signature+from+Keith+Moon+<keith@example.net>

Note that this string needs to fit into an Assuan line and should be short enough to be displayed as short one-liner on the clients window. As usual the encoding of this string is UTF-8 and it should be send in its translated form.

The server shall send one status line for every signature found on the message.
All file related UI server commands operate on a number of input files or directories, specified by one or more FILE commands:

-- Command: FILE [--clear] NAME
Add the file or directory NAME to the list of pathnames to be processed by the server. The parameter NAME must be an absolute path name (including the drive letter) and is percent espaced (in particular, the characters %, = and white space characters are always escaped). If the option --clear is given, the list of files is cleared before adding NAME.

Historical note: The original spec did not define --clear but the keyword --continued after the file name to indicate that more files are to be expected. However, this has never been used and thus removed from the specs.


A.6 UI Server: Encrypting and signing files.

First, the input files need to be specified by one or more FILE commands. Afterwards, the actual operation is requested:

-- Command: ENCRYPT_FILES --nohup
-- Command: SIGN_FILES --nohup
-- Command: ENCRYPT_SIGN_FILES --nohup
Request that the files specified by FILE are encrypted and/or signed. The command selects the default action. The UI server may allow the user to change this default afterwards interactively, and even abort the operation or complete it only on some of the selected files and directories.

What it means to encrypt or sign a file or directory is specific to the preferences of the user, the functionality the UI server provides, and the selected protocol. Typically, for each input file a new file is created under the original filename plus a protocol specific extension (like .gpg or .sig), which contain the encrypted/signed file or a detached signature. For directories, the server may offer multiple options to the user (for example ignore or process recursively).

The ENCRYPT_SIGN_FILES command requests a combined sign and encrypt operation. It may not be available for all protocols (for
example, it is available for OpenPGP but not for CMS).

The option --nohup is mandatory. It is currently unspecified what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes the operation asynchronously.


A.7 UI Server: Decrypting and verifying files.

First, the input files need to be specified by one or more FILE commands. Afterwards, the actual operation is requested:

```bash
-- Command: DECRYPT_FILES --nohup
-- Command: VERIFY_FILES --nohup
-- Command: DECRYPT_VERIFY_FILES --nohup
```

Request that the files specified by FILE are decrypted and/or verified. The command selects the default action. The UI server may allow the user to change this default afterwards interactively, and even abort the operation or complete it only on some of the selected files and directories.

What it means to decrypt or verify a file or directory is specific to the preferences of the user, the functionality the UI server provides, and the selected protocol. Typically, for decryption, a new file is created for each input file under the original filename minus a protocol specific extension (like .gpg) which contains the original plaintext. For verification a status is displayed for each signed input file, indicating if it is signed, and if yes, if the signature is valid. For files that are signed and encrypted, the VERIFY command transiently decrypts the file to verify the enclosed signature. For directories, the server may offer multiple options to the user (for example ignore or process recursively).

The option --nohup is mandatory. It is currently unspecified what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes the operation asynchronously.


A.8 UI Server: Managing certificates.
First, the input files need to be specified by one or more FILE commands. Afterwards, the actual operation is requested:

-- Command: IMPORT_FILES --nohup
Request that the certificates contained in the files specified by FILE are imported into the local certificate databases.

For directories, the server may offer multiple options to the user (for example ignore or process recursively).

The option --nohup is mandatory. It is currently unspecified what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes the operation asynchronously.

FIXME: It may be nice to support an EXPORT command as well, which is enabled by the context menu of the background of a directory.


A.9 UI Server: Create and verify checksums for files.

First, the input files need to be specified by one or more FILE commands. Afterwards, the actual operation is requested:

-- Command: CHECKSUM_CREATE_FILES --nohup
Request that checksums are created for the files specified by FILE. The choice of checksum algorithm and the destination storage and format for the created checksums depend on the preferences of the user and the functionality provided by the UI server. For directories, the server may offer multiple options to the user (for example ignore or process recursively).

The option --nohup is mandatory. It is currently unspecified what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes the operation asynchronously.

-- Command: CHECKSUM_VERIFY_FILES --nohup
Request that checksums are created for the files specified by FILE and verified against previously created and stored checksums. The choice of checksum algorithm and the source storage and format for previously created checksums depend on the
preferences of the user and the functionality provided by the UI server. For directories, the server may offer multiple options to the user (for example ignore or process recursively).

If the source storage of previously created checksums is available to the user through the Windows shell, this command may also accept such checksum files as FILE arguments. In this case, the UI server should instead verify the checksum of the referenced files as if they were given as INPUT files.

The option --nohup is mandatory. It is currently unspecified what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes the operation asynchronously.


A.10 Miscellaneous UI Server Commands
======================================

The server needs to implement the following commands which are not related to a specific command:

-- Command: GETINFO WHAT
This is a multi purpose command, commonly used to return a variety of information. The required subcommands as described by the WHAT parameter are:

    pid
    Return the process id of the server in decimal notation using an Assuan data line.

To allow the server to pop up the windows in the correct relation to the client, the client is advised to tell the server by sending the option:

-- Command option: window-id NUMBER
The NUMBER represents the native window ID of the clients current window. On Windows systems this is a windows handle (HWND) and on X11 systems it is the X Window ID. The number needs to be given as a hexadecimal value so that it is easier to convey pointer values (e.g. HWND).

A client may want to fire up the certificate manager of the server. To do this it uses the Assuan command:

-- Command: START_KEYMANAGER
The server shall pop up the main window of the key manager (aka certificate manager). The client expects that the key manager is brought into the foreground and that this command immediately returns (does not wait until the key manager has been fully brought up).

A client may want to fire up the configuration dialog of the server. To do this it uses the Assuan command:

-- Command: START_CONF DIALOG
The server shall pop up its configuration dialog. The client expects that this dialog is brought into the foreground and that this command immediately returns (i.e. it does not wait until the dialog has been fully brought up).

When doing an operation on a mail, it is useful to let the server know the address of the sender:

-- Command: SENDER [--info] [--protocol=NAME] EMAIL
EMAIL is the plain ASCII encoded address ("addr-spec" as per RFC-2822) enclosed in angle brackets. The address set with this command is valid until a successful completion of the operation or until a RESET command. A second command overrides the effect of the first one; if EMAIL is not given and --info is not used, the server shall use the default signing key.

If option --info is not given, the server shall also suggest a protocol to use for signing. The client may use this suggested protocol on its own discretion. The same status line as with PREP_ENCRYPT is used for this.

The option --protocol may be used to give the server a hint on which signing protocol should be preferred.

To allow the UI-server to visually identify a running operation or to associate operations the server MAY support the command:

-- Command: SESSION NUMBER [STRING]
The NUMBER is an arbitrary value, a server may use to associate simultaneous running sessions. It is a 32 bit unsigned integer with 0 as a special value indicating that no session association shall be done.

If STRING is given, the server may use this as the title of a window or, in the case of an email operation, to extract the senders address. The string may contain spaces; thus no plus-escaping is used.
This command may be used at any time and overrides the effect of the last command. A RESET undoes the effect of this command.

Appendix B How to solve problems

Everyone knows that software often does not do what it should do and thus there is a need to track down problems. This is in particular true for applications using a complex library like GPGME and of course also for the library itself. Here we give a few hints on how to solve such problems.

First of all you should make sure that the keys you want to use are installed in the GnuPG engine and are usable. Thus the first test is to run the desired operation using gpg or gpgsm on the command line. If you can't figure out why things don't work, you may use GPGME's built-in trace feature. This feature is either enabled using the environment variable GPGME_DEBUG or, if this is not possible, by calling the function gpgme_set_global_flag. The value is the trace level and an optional file name. If no file name is given the trace output is printed to stderr.

For example

GPGME_DEBUG=9:/home/user/mygpgme.log
(Note that under Windows you use a semicolon in place of the colon to separate the fields.)

A trace level of 9 is pretty verbose and thus you may want to start off with a lower level. The exact definition of the trace levels and the output format may change with any release; you need to check the source code for details. In any case the trace log should be helpful to understand what is going on. Warning: The trace log may reveal sensitive details like passphrases or other data you use in your application. If you are asked to send a log file, make sure that you run your tests only with play data.

Appendix C Deprecated Functions

For backward compatibility GPGME has a number of functions, data types and constants which are deprecated and should not be used anymore. We document here those which are really old to help understanding old code
and to allow migration to their modern counterparts.

*Warning:* These interfaces will be removed in a future version of GPGME.

-- Function: `void gpgme_key_release (gpgme_key_t KEY)`
  The function `gpgme_key_release` is equivalent to `gpgme_key_unref`.

-- Function: `void gpgme_trust_item_release (gpgme_trust_item_t ITEM)`
  The function `gpgme_trust_item_release` is an alias for `gpgme_trust_item_unref`.

-- Function: `gpgme_error_t gpgme_op_import_ext (gpgme_ctx_t CTX, gpgme_data_t KEYDATA, int *NR)`
  SINCE: 0.3.9
  The function `gpgme_op_import_ext` is equivalent to:

  ```c
  gpgme_error_t err = gpgme_op_import (ctx, keydata);
  if (!err)
  {
    gpgme_import_result_t result = gpgme_op_import_result (ctx);
    *nr = result->considered;
  }
  ```

-- Data type: `gpgme_error_t (*gpgme_edit_cb_t) (void *HANDLE, gpgme_status_code_t STATUS, const char *ARGS, int FD)`
  The `gpgme_edit_cb_t` type is the type of functions which GPGME calls if a key edit operation is on-going. The status code `STATUS` and the argument line `ARGS` are passed through by GPGME from the crypto engine. The file descriptor `FD` is -1 for normal status messages. If `STATUS` indicates a command rather than a status message, the response to the command should be written to `FD`. The `HANDLE` is provided by the user at start of operation.
  
  The function should return `GPG_ERR_FALSE` if it did not handle the status code, 0 for success, or any other error value.

-- Function: `gpgme_error_t gpgme_op_edit (gpgme_ctx_t CTX, gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE, gpgme_data_t OUT)`
  SINCE: 0.3.9
  Note: This function is deprecated, please use `gpgme_op_interact` instead.

  The function `gpgme_op_edit` processes the key `KEY` interactively,
using the edit callback function FNC with the handle HANDLE. The callback is invoked for every status and command request from the crypto engine. The output of the crypto engine is written to the data object OUT.

Note that the protocol between the callback function and the crypto engine is specific to the crypto engine and no further support in implementing this protocol correctly is provided by GPGME.

The function returns the error code GPG_ERR_NO_ERROR if the edit operation completes successfully, GPG_ERR_INV_VALUE if CTX or KEY is not a valid pointer, and any error returned by the crypto engine or the edit callback handler.

-- Function: gpgme_error_t gpgme_op_edit_start (gpgme_ctx_t CTX,  
gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE,  
gpgme_data_t OUT)

SINCE: 0.3.9

Note: This function is deprecated, please use gpgme_op_interact_start instead.

The function gpgme_op_edit_start initiates a gpgme_op_edit operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*

The function returns the error code GPG_ERR_NO_ERROR if the operation was started successfully, and GPG_ERR_INV_VALUE if CTX or KEY is not a valid pointer.

-- Function: gpgme_error_t gpgme_op_card_edit (gpgme_ctx_t CTX,  
gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE,  
gpgme_data_t OUT)

Note: This function is deprecated, please use gpgme_op_interact with the flag GPGME_INTERACT_CARD instead.

The function gpgme_op_card_edit is analogous to gpgme_op_edit, but should be used to process the smart card corresponding to the key KEY.

-- Function: gpgme_error_t gpgme_op_card_edit_start (gpgme_ctx_t CTX,  
gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE,  
gpgme_data_t OUT)

Note: This function is deprecated, please use gpgme_op_interact_start with the flag GPGME_INTERACT_CARD instead.
The function gpgme_op_card_edit_start initiates a
  gpgme_op_card_edit operation. It can be completed by calling
gpgme_wait on the context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the
operation was started successfully, and GPG_ERR_INV_VALUE if CTX
or KEY is not a valid pointer.

-- Function: gpgme_error_t gpgme_data_new_with_read_cb
  (gpgme_data_t *DH, int (*READFUNC) (void *HOOK, char *BUFFER,
    size_t COUNT, size_t *NREAD), void *HOOK_VALUE)
The function gpgme_data_new_with_read_cb creates a new
gpgme_data_t object and uses the callback function READFUNC to
retrieve the data on demand. As the callback function can supply
the data in any way it wants, this is the most flexible data type
GPGME provides. However, it can not be used to write data.

The callback function receives HOOK_VALUE as its first argument
whenever it is invoked. It should return up to COUNT bytes in
BUFFER, and return the number of bytes actually read in NREAD. It
may return 0 in NREAD if no data is currently available. To
indicate EOF the function should return with an error code of
-1 and set NREAD to 0. The callback function may support to
reset its internal read pointer if it is invoked with BUFFER and
NREAD being NULL and COUNT being 0.

The function returns the error code GPG_ERR_NO_ERROR if the data
object was successfully created, GPG_ERR_INV_VALUE if DH or
READFUNC is not a valid pointer, and GPG_ERR_ENOMEM if not enough
memory is available.

-- Function: gpgme_error_t gpgme_data_rewind (gpgme_data_t DH)
The function gpgme_data_rewind is equivalent to:

  return (gpgme_data_seek (dh, 0, SEEK_SET) == -1)
    ? gpgme_error_from_errno (errno) : 0;

-- Data type: gpgme_attr_t
The gpgme_attr_t type is used to specify a key or trust item
attribute. The following attributes are defined:

GPGME_ATTR_KEYID
  This is the key ID of a sub key. It is representable as a
  string.

  For trust items, the trust item refers to the key with this
  ID.
GPGME_ATTR_FPR
This is the fingerprint of a sub key. It is representable as a string.

GPGME_ATTR_ALGO
This is the crypto algorithm for which the sub key can be used. It is representable as a string and as a number. The numbers correspond to the enum gcry_pk_algos values in the gcrypt library.

GPGME_ATTR_LEN
This is the key length of a sub key. It is representable as a number.

GPGME_ATTR_CREATED
This is the timestamp at creation time of a sub key. It is representable as a number.

GPGME_ATTR_EXPIRE
This is the expiration time of a sub key. It is representable as a number.

GPGME_ATTR_OTRUST
XXX FIXME (also for trust items)

GPGME_ATTR_USERID
This is a user ID. There can be more than one user IDs in a GPGME_KEY_T object. The first one (with index 0) is the primary user ID. The user ID is representable as a number.

For trust items, this is the user ID associated with this trust item.

GPGME_ATTR_NAME
This is the name belonging to a user ID. It is representable as a string.

GPGME_ATTR_EMAIL
This is the email address belonging to a user ID. It is representable as a string.

GPGME_ATTR_COMMENT
This is the comment belonging to a user ID. It is representable as a string.

GPGME_ATTR_VALIDITY
This is the validity belonging to a user ID. It is representable as a string and as a number. See below for a
list of available validities.

For trust items, this is the validity that is associated with this trust item.

GPGME_ATTR_UID_REVOKED
This specifies if a user ID is revoked. It is representable as a number, and is 1 if the user ID is revoked, and 0 otherwise.

GPGME_ATTR_UID_INVALID
This specifies if a user ID is invalid. It is representable as a number, and is 1 if the user ID is invalid, and 0 otherwise.

GPGME_ATTR_LEVEL
This is the trust level of a trust item.

GPGME_ATTR_TYPE
This returns information about the type of key. For the string function this will either be "PGP" or "X.509". The integer function returns 0 for PGP and 1 for X.509. It is also used for the type of a trust item.

GPGME_ATTR_IS_SECRET
This specifies if the key is a secret key. It is representable as a number, and is 1 if the key is revoked, and 0 otherwise.

GPGME_ATTR_KEY_REVOKED
This specifies if a sub key is revoked. It is representable as a number, and is 1 if the key is revoked, and 0 otherwise.

GPGME_ATTR_KEY_INVALID
This specifies if a sub key is invalid. It is representable as a number, and is 1 if the key is invalid, and 0 otherwise.

GPGME_ATTR_KEY_EXPIRED
This specifies if a sub key is expired. It is representable as a number, and is 1 if the key is expired, and 0 otherwise.

GPGME_ATTR_KEY_DISABLED
This specifies if a sub key is disabled. It is representable as a number, and is 1 if the key is disabled, and 0 otherwise.
GPGME_ATTR_KEY_CAPS
This is a description of the capabilities of a sub key. It is representable as a string. The string contains the letter e if the key can be used for encryption, s if the key can be used for signatures, and c if the key can be used for certifications.

GPGME_ATTR_CAN_ENCRYPT
This specifies if a sub key can be used for encryption. It is representable as a number, and is 1 if the sub key can be used for encryption, and 0 otherwise.

GPGME_ATTR_CAN_SIGN
This specifies if a sub key can be used to create data signatures. It is representable as a number, and is 1 if the sub key can be used for signatures, and 0 otherwise.

GPGME_ATTR_CAN_CERTIFY
This specifies if a sub key can be used to create key certificates. It is representable as a number, and is 1 if the sub key can be used for certifications, and 0 otherwise.

GPGME_ATTR_SERIAL
The X.509 issuer serial attribute of the key. It is representable as a string.

GPGME_ATTR_ISSUE
The X.509 issuer name attribute of the key. It is representable as a string.

GPGME_ATTR_CHAINID
The X.509 chain ID can be used to build the certification chain. It is representable as a string.

-- Function: const char * gpgme_key_get_string_attr (gpgme_key_t KEY, gpgme_attr_t WHAT, const void *RESERVED, int IDX)
The function gpgme_key_get_string_attr returns the value of the string-representable attribute WHAT of key KEY. If the attribute is an attribute of a sub key or an user ID, IDX specifies the sub key or user ID of which the attribute value is returned. The argument RESERVED is reserved for later use and should be NULL.

The string returned is only valid as long as the key is valid.

The function returns 0 if an attribute cant be returned as a string, KEY is not a valid pointer, IDX out of range, or RESERVED not NULL.
The function `gpgme_key_get_ulong_attr` returns the value of the
number-representable attribute `WHAT` of key `KEY`. If the attribute
is an attribute of a sub key or an user ID, `IDX` specifies the sub
key or user ID of which the attribute value is returned. The
argument `RESERVED` is reserved for later use and should be `NULL`.

The function returns `0` if the attribute can't be returned as a
number, `KEY` is not a valid pointer, `IDX` out of range, or `RESERVED`
not `NULL`.

The signatures on a key are only available if the key was retrieved
via a listing operation with the `GPGME_KEYLIST_MODE_SIGS` mode enabled,
because it is expensive to retrieve all signatures of a key.

So, before using the below interfaces to retrieve the signatures on a
key, you have to make sure that the key was listed with signatures
enabled. One convenient, but blocking, way to do this is to use the
function `gpgme_get_key`.

-- Data type: gpgme_attr_t

The `gpgme_attr_t` type is used to specify a key signature
attribute. The following attributes are defined:

**GPGME_ATTR_KEYID**
This is the key ID of the key which was used for the
signature. It is representable as a string.

**GPGME_ATTR_ALGO**
This is the crypto algorithm used to create the signature. It
is representable as a string and as a number. The numbers
correspond to the enum `gcry_pk_algos` values in the `gcrypt`
library.

**GPGME_ATTR_CREATED**
This is the timestamp at creation time of the signature. It
is representable as a number.

**GPGME_ATTR_EXPIRE**
This is the expiration time of the signature. It is
representable as a number.

**GPGME_ATTR_USERID**
This is the user ID associated with the signing key. The user
ID is representable as a number.
GPGME_ATTR_NAME
This is the name belonging to a user ID. It is representable as a string.

GPGME_ATTR_EMAIL
This is the email address belonging to a user ID. It is representable as a string.

GPGME_ATTR_COMMENT
This is the comment belonging to a user ID. It is representable as a string.

GPGME_ATTR_KEY_REVOKED
This specifies if a key signature is a revocation signature. It is representable as a number, and is 1 if the key is revoked, and 0 otherwise.

GPGME_ATTR_SIG_CLASS
This specifies the signature class of a key signature. It is representable as a number. The meaning is specific to the crypto engine.

GPGME_ATTR_SIG_CLASS
This specifies the signature class of a key signature. It is representable as a number. The meaning is specific to the crypto engine.

GPGME_ATTR_SIG_STATUS
This is the same value as returned by gpgme_get_sig_status.

-- Function: const char * gpgme_key_sig_get_string_attr
    (gpgme_key_t KEY, int UID_IDX, gpgme_attr_t WHAT, const void *RESERVED, int IDX)
The function gpgme_key_sig_get_string_attr returns the value of the string-representable attribute WHAT of the signature IDX on the user ID UID_IDX in the key KEY. The argument RESERVED is reserved for later use and should be NULL.

    The string returned is only valid as long as the key is valid.

    The function returns 0 if an attribute can't be returned as a string, KEY is not a valid pointer, UID_IDX or IDX out of range, or RESERVED not NULL.

-- Function: unsigned long gpgme_key_sig_get_ulong_attr
    (gpgme_key_t KEY, int UID_IDX, gpgme_attr_t WHAT, const void *RESERVED, int IDX)
The function gpgme_key_sig_get_ulong_attr returns the value of
the number-representable attribute WHAT of the signature IDX on the user ID UID_IDX in the key KEY. The argument RESERVED is reserved for later use and should be NULL.

The function returns 0 if an attribute can't be returned as a string, KEY is not a valid pointer, UID_IDX or IDX out of range, or RESERVED not NULL.

Trust items have attributes which can be queried using the interfaces below. The attribute identifiers are shared with those for key attributes. *Note Information About Keys:::

-- Function: const char * gpgme_trust_item_get_string_attr
   (gpgme_trust_item_t ITEM, gpgme_attr_t WHAT, const void *RESERVED, int IDX)
   The function gpgme_trust_item_get_string_attr returns the value of the string-representable attribute WHAT of trust item ITEM. The arguments IDX and RESERVED are reserved for later use and should be 0 and NULL respectively.
   The string returned is only valid as long as the key is valid.
   The function returns 0 if an attribute can't be returned as a string, KEY is not a valid pointer, IDX out of range, or RESERVED not NULL.

-- Function: int gpgme_trust_item_get_int_attr
   (gpgme_trust_item_t ITEM, gpgme_attr_t WHAT, const void *RESERVED, int IDX)
   The function gpgme_trust_item_get_int_attr returns the value of the number-representable attribute WHAT of trust item ITEM. If the attribute occurs more than once in the trust item, the index is specified by IDX. However, currently no such attribute exists, so IDX should be 0. The argument RESERVED is reserved for later use and should be NULL.
   The function returns 0 if the attribute can't be returned as a number, KEY is not a valid pointer, IDX out of range, or RESERVED not NULL.

-- Data type: enum gpgme_sig_stat_t
   The gpgme_sig_stat_t type holds the result of a signature check, or the combined result of all signatures. The following results are possible:

   GPGME_SIG_STAT_NONE
   This status should not occur in normal operation.
GPGME_SIG_STAT_GOOD
This status indicates that the signature is valid. For the combined result this status means that all signatures are valid.

GPGME_SIG_STAT_GOOD_EXP
This status indicates that the signature is valid but expired. For the combined result this status means that all signatures are valid and expired.

GPGME_SIG_STAT_GOOD_EXPKEY
This status indicates that the signature is valid but the key used to verify the signature has expired. For the combined result this status means that all signatures are valid and all keys are expired.

GPGME_SIG_STAT_BAD
This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.

GPGME_SIG_STAT_NOKEY
This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.

GPGME_SIG_STAT_NOSIG
This status indicates that the signature data provided was not a real signature.

GPGME_SIG_STAT_ERROR
This status indicates that there was some other error which prevented the signature verification.

GPGME_SIG_STAT_DIFF
For the combined result this status means that at least two signatures have a different status. You can get each keys status with gpgme_get_sig_status.

-- Function: const char * gpgme_get_sig_status (gpgme_ctx_t CTX, int IDX, gpgme_sig_stat_t *R_STAT, time_t *R_CREATED)
The function gpgme_get_sig_status is equivalent to:

    gpgme_verify_result_t result;
    gpgme_signature_t sig;

    result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
{
    sig = sig->next;
    idx--;
}
if (!sig || idx)
    return NULL;

if (r_stat)
{
    switch (gpg_err_code (sig->status))
    {
        case GPG_ERR_NO_ERROR:
            *r_stat = GPGME_SIG_STAT_GOOD;
            break;

        case GPG_ERR_BAD_SIGNATURE:
            *r_stat = GPGME_SIG_STAT_BAD;
            break;

        case GPG_ERR_NO_PUBKEY:
            *r_stat = GPGME_SIG_STAT_NOKEY;
            break;

        case GPG_ERR_NO_DATA:
            *r_stat = GPGME_SIG_STAT_NOSIG;
            break;

        case GPG_ERR_SIG_EXPIRED:
            *r_stat = GPGME_SIG_STAT_GOOD_EXP;
            break;

        case GPG_ERR_KEY_EXPIRED:
            *r_stat = GPGME_SIG_STAT_GOOD_EXPKEY;
            break;

        default:
            *r_stat = GPGME_SIG_STAT_ERROR;
            break;
    }
}
if (r_created)
    *r_created = sig->timestamp;
return sig->fpr;

-- Function: const char * gpgme_get_sig_string_attr (gpgme_ctx_t CTX,
The function `gpgme_get_sig_string_attr` is equivalent to:

```c
int IDX, gpgme_attr_t WHAT, int WHATIDX)
```

```c
gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
    {  
sig = sig->next;
idx--;
    }
if (!sig || idx)
return NULL;

switch (what)
    {
    case GPGME_ATTR_FPR:
return sig->fpr;

    case GPGME_ATTR_ERRTOK:
        if (whatidx == 1)
            return sig->wrong_key_usage ? "Wrong_Key_Usage" : "";
        else
            return "";
        default:
break;
    }

return NULL;
```

The function `gpgme_get_sig_ulong_attr` is equivalent to:

```c
-- Function: const char * gpgme_get_sig_ulong_attr (gpgme_ctx_t CTX,
int IDX, gpgme_attr_t WHAT, int WHATIDX)
```

```c
gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
    {  
sig = sig->next;
idx--;
    }
```
if (!sig || idx)
    return 0;

switch (what)
{
    case GPGME_ATTR.Created:
        return sig->timestamp;
    case GPGME_ATTR.Expire:
        return sig->exp_timestamp;
    case GPGME_ATTR.Validity:
        return (unsigned long) sig->validity;
    case GPGME_ATTR.SIG_STATUS:
        switch (sig->status)
        {
            case GPG_ERR_NO_ERROR:
                return GPGME_SIG_STAT_GOOD;
            case GPG_ERR_BAD_SIGNATURE:
                return GPGME_SIG_STAT_BAD;
            case GPG_ERR_NO_PUBKEY:
                return GPGME_SIG_STAT_NOKEY;
            case GPG_ERR_NO_DATA:
                return GPGME_SIG_STAT_NOSIG;
            case GPG_ERR_SIG_EXPIRED:
                return GPGME_SIG_STAT_GOOD_EXP;
            case GPG_ERR_KEY_EXPIRED:
                return GPGME_SIG_STAT_GOOD_EXPKEY;
            default:
                return GPGME_SIG_STAT_ERROR;
        }
    case GPGME_ATTR.SIG_SUMMARY:
        return sig->summary;
    default:
        break;
}

-- Function: const char * gpgme_get_sig_key (gpgme_ctx_t CTX, int IDX,
The function gpgme_get_sig_key is equivalent to:

```c
int gpgme_get_sig_key (gpgme_context_t ctx, gpgme_key_t *r_key)
{
    gpgme_verify_result_t result;
    gpgme_signature_t sig;

    result = gpgme_op_verify_result (ctx);
    sig = result->signatures;

    while (sig && idx)
    {
        sig = sig->next;
        idx--;
    }

    if (!sig || idx)
        return gpg_error (GPG_ERR_EOF);

    return gpgme_get_key (ctx, sig->fpr, r_key, 0);
}
```

File: gpgme.info, Node: Library Copying, Next: Copying, Prev: Deprecated Functions, Up: Top

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*********************************
Version 2.1, February 1999

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========

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* gpgme_op_decrypt_verify: Decrypt and Verify. (line 6)
* gpgme_op_decrypt_verify_start: Decrypt and Verify. (line 30)
* gpgme_op_delete: Deleting Keys. (line 47)
* gpgme_op_delete_ext: Deleting Keys. (line 6)
* gpgme_op_delete_ext_start: Deleting Keys. (line 33)
* gpgme_op_delete_start: Deleting Keys. (line 52)
* gpgme_op_edit: Deprecated Functions. (line 48)
* gpgme_op_edit_start: Deprecated Functions. (line 72)
* gpgme_op_encrypt: Encrypting a Plaintext.
* gpgme_op_encrypt_ext: Encrypting a Plaintext.
  (line 131)
* gpgme_op_encrypt_start: Encrypting a Plaintext.
  (line 224)
* gpgme_op_encrypt_result: Encrypting a Plaintext.
  (line 252)
* gpgme_op_encrypt_sign: Encrypting a Plaintext.
  (line 263)
* gpgme_op_encrypt_sign_ext: Encrypting a Plaintext.
  (line 288)
* gpgme_op_encrypt_sign_start: Encrypting a Plaintext.
  (line 304)
* gpgme_op_encrypt_sign_start: Encrypting a Plaintext.
  (line 274)
* gpgme_op_encrypt_start: Encrypting a Plaintext.
  (line 113)
* gpgme_op_decrypt: Exporting Keys. (line 50)
* gpgme_op_decrypt_ext: Exporting Keys. (line 83)
* gpgme_op_decrypt_ext_start: Exporting Keys. (line 105)
* gpgme_op_decrypt_keys: Exporting Keys. (line 117)
* gpgme_op_decrypt_result: Exporting Keys. (line 144)
* gpgme_op_decrypt_start: Exporting Keys. (line 71)
* gpgme_op_genkey: Generating Keys. (line 304)
* gpgme_op_genkey_result: Generating Keys. (line 418)
* gpgme_op_genkey_start: Generating Keys. (line 369)
* gpgme_op_getauditlog: Additional Logs. (line 9)
* gpgme_op_getauditlog_start: Additional Logs. (line 54)
* gpgme_op_import: Importing Keys. (line 9)
* gpgme_op_import_ext: Deprecated Functions.
  (line 22)
* gpgme_op_import_keys: Importing Keys. (line 35)
* gpgme_op_import_keys_start: Importing Keys. (line 65)
* gpgme_op_import_result: Importing Keys. (line 174)
* gpgme_op_import_start: Importing Keys. (line 24)
* gpgme_op_interact: Advanced Key Editing.
  (line 23)
* gpgme_op_interact_start: Advanced Key Editing.
  (line 53)
* gpgme_op_keylist_end: Listing Keys. (line 111)
* gpgme_op_keylist_ext_start: Listing Keys. (line 34)
* gpgme_op_keylist_from_data_start: Listing Keys. (line 67)
* gpgme_op_keylist_next: Listing Keys. (line 94)
* gpgme_op_keylist_result: Listing Keys. (line 166)
* gpgme_op_keylist_start: Listing Keys. (line 6)
* gpgme_op_keysign: Signing Keys. (line 12)
* gpgme_op_keysign_start: Signing Keys. (line 73)
* gpgme_op_passwd: Changing Passphrases.
* gpgme_op_passwd_start: Changing Passphrases. (line 6)
* gpgme_op_query_swdb: Checking for updates. (line 21)
* gpgme_op_query_swdb_result: Checking for updates. (line 68)
* gpgme_op_revuid: Generating Keys. (line 224)
  * gpgme_op_revuid_start: Generating Keys. (line 252)
* gpgme_op_set_uid_flag_start: Generating Keys. (line 293)
* gpgme_op_set_ui_flag: Generating Keys. (line 261)
* gpgme_op_sign: Creating a Signature. (line 21)
  * gpgme_op_sign_result: Creating a Signature. (line 99)
* gpgme_op_sign_start: Creating a Signature. (line 47)
* gpgme_op_spawn: Running other Programs. (line 13)
  * gpgme_op_spawn_start: Running other Programs. (line 45)
* gpgme_op_tofu_policy: Changing TOFU Data. (line 29)
  * gpgme_op_tofu_policy_start: Changing TOFU Data. (line 43)
* gpgme_op_trustlist_end: Listing Trust Items. (line 44)
* gpgme_op_trustlist_next: Listing Trust Items. (line 27)
* gpgme_op_trustlist_start: Listing Trust Items. (line 6)
* gpgme_op_verify: Verify. (line 6)
  * gpgme_op_verify_result: Verify. (line 290)
* gpgme_op_verify_start: Verify. (line 26)
* gpgme_passphrase_cb_t: Passphrase Callback. (line 10)
* gpgme_pinentry_mode_t: Pinentry Mode. (line 26)
* gpgme_progress_cb_t: Progress Meter Callback. (line 8)
* gpgme_protocol_t: Protocols and Engines. (line 17)
* gpgme_protocol_t <1>: Engine Information. (line 7)
* gpgme_pubkey_algo_name: Public Key Algorithms. (line 58)
* gpgme_pubkey_algo_string: Public Key Algorithms. (line 68)
* gpgme_pubkey_algo_t: Public Key Algorithms. (line 10)
* gpgme_query_swdb_result_t: Checking for updates. (line 11)
* gpgme_recipient_t: Decrypt. (line 75)
* gpgme_register_io_cb_t: I/O Callback Interface. (line 23)
* gpgme_release: Destroying Contexts. (line 6)
* gpgme_result_ref:  
  Result Management.  (line 15)
* gpgme_result_unref:  
  Result Management.  (line 23)
* gpgme_set_armor:  
  ASCII Armor.  (line 6)
* gpgme_set_ctx_flag:  
  Context Flags.  (line 6)
* gpgme_set_engine_info:  
  Engine Configuration.  
  (line 11)
* gpgme_set_global_flag:  
  Library Version Check.  
  (line 44)
* gpgme_set_include_certs:  
  Included Certificates.  
  (line 6)
* gpgme_set_io_cbs:  
  Registering I/O Callbacks.  
  (line 35)
* gpgme_set_keylist_mode:  
  Key Listing Mode.  (line 6)
* gpgme_set.locale:  
  Locale.  (line 14)
* gpgme_set_offline:  
  Offline Mode.  (line 6)
* gpgme_set_passphrase_cb:  
  Passphrase Callback.  (line 40)
* gpgme_set_pinentry_mode:  
  Pinentry Mode.  (line 6)
* gpgme_set_progress_cb:  
  Progress Meter Callback.  
  (line 16)
* gpgme_set_protocol:  
  Protocol Selection.  (line 6)
* gpgme_set_sender:  
  Setting the Sender.  (line 13)
* gpgme_set_status_cb:  
  Status Message Callback.  
  (line 17)
* gpgme_set_textmode:  
  Text Mode.  (line 6)
* gpgme_signature_t:  
  Verify.  (line 92)
* gpgme_signers_add:  
  Selecting Signers.  (line 18)
* gpgme_signers_clear:  
  Selecting Signers.  (line 11)
* gpgme_signers_count:  
  Selecting Signers.  (line 25)
* gpgme_signers_enum:  
  Selecting Signers.  (line 31)
* gpgme_sign_result_t:  
  Creating a Signature.  
  (line 85)
* gpgme_sig_mode_t:  
  Creating a Signature.  
  (line 7)
* gpgme_sig_notation_add:  
  Signature Notation Data.  
  (line 19)
* gpgme_sig_notation_clear:  
  Signature Notation Data.  
  (line 10)
* gpgme_sig_notation_get:  
  Signature Notation Data.  
  (line 45)
* gpgme_sig_notation_t:  
  Verify.  (line 38)
* gpgme_sig_stat_t:  
  Deprecated Functions.  
  (line 442)
* gpgme_ssize_t:  
  Exchanging Data.  (line 32)
* gpgme_status_cb_t:  
  Status Message Callback.  
  (line 8)
* gpgme_strerror:  
  Error Strings.  (line 6)
* gpgme_strerror_r:  
  Error Strings.  (line 15)
* gpgme_strsource:  
  Error Strings.  (line 26)
* `gpgme_subkey_t`: Key objects. (line 112)
* `gpgme_tofu_info_t`: Key objects. (line 275)
* `gpgme_tofu_policy_t`: Changing TOFU Data. (line 13)
* `gpgme_trust_item_get_int_attr`: Deprecated Functions. (line 426)
* `gpgme_trust_item_get_string_attr`: Deprecated Functions. (line 411)
* `gpgme_trust_item_ref`: Manipulating Trust Items. (line 6)
* `gpgme_trust_item_release`: Deprecated Functions. (line 18)
* `gpgme_trust_item_t`: Trust Item Management. (line 8)
* `gpgme_trust_item_unref`: Manipulating Trust Items. (line 10)
* `gpgme_user_id_t`: Key objects. (line 217)
* `gpgme_validity_t`: Information About Keys. (line 9)
* `gpgme_verify_result_t`: Verify. (line 268)
* `gpgme_wait`: Waiting For Completion. (line 6)
* `IMPORT_FILES`: UI Server Import/Export Keys. (line 9)
* `INPUT`: UI Server Encrypt. (line 23)
  * `INPUT <1>`: UI Server Sign. (line 12)
  * `INPUT <2>`: UI Server Decrypt. (line 12)
  * `INPUT <3>`: UI Server Verify. (line 16)
* `MESSAGE`: UI Server Verify. (line 10)
* `MICALG`: UI Server Sign. (line 43)
* `off_t (*gpgme_data_seek_cb_t) (void *HANDLE, off_t OFFSET, int WHENCE)`: Callback Based Data Buffers. (line 43)
* `OUTPUT`: UI Server Encrypt. (line 36)
  * `OUTPUT <1>`: UI Server Sign. (line 18)
  * `OUTPUT <2>`: UI Server Decrypt. (line 19)
  * `OUTPUT <3>`: UI Server Verify. (line 23)
* `PREP_ENCRYPT`: UI Server Encrypt. (line 72)
* `PROTOCOL`: UI Server Encrypt. (line 98)
* `RECIPIENT`: UI Server Encrypt. (line 9)
* `SENDER`: Miscellaneous UI Server Commands. (line 50)
* `SESSION`: Miscellaneous UI Server Commands. (line 69)
* `SIGN`: UI Server Sign. (line 33)
* `SIGN_FILES`: UI Server Sign/Encrypt Files. (line 10)
* `SIGSTATUS`: UI Server Verify. (line 56)
* `ssize_t (*gpgme_data_read_cb_t) (void *HANDLE, void *BUFFER, size_t SIZE)`: Callback Based Data Buffers. (line 10)
* ssize_t (*gpgme_data_write_cb_t) (void *HANDLE, const void *BUFFER, size_t SIZE): Callback Based Data Buffers.
  (line 27)
* START_CONFIDIALOG: Miscellaneous UI Server Commands.
  (line 41)
* START_KEYMANAGER: Miscellaneous UI Server Commands.
  (line 31)
* struct gpgme_data_cbs: Callback Based Data Buffers.
  (line 59)
* struct gpgme_io_cbs: Registering I/O Callbacks.
  (line 6)
* VERIFY: UI Server Verify. (line 31)
* VERIFY_FILES: UI Server Verify/Decrypt Files.
  (line 10)
* void (*gpgme_data_release_cb_t) (void *HANDLE): Callback Based Data Buffers.
  (line 54)
* void (*gpgme_event_io_cb_t) (void *DATA, gpgme_event_io_t TYPE, void *TYPE_DATA): I/O Callback Interface.
  (line 89)
* void (*gpgme_progress_cb_t)(void *HOOK, const char *WHAT, int TYPE, int CURRENT, int TOTAL): Progress Meter Callback.
  (line 6)
* void (*gpgme_remove_io_cb_t) (void *TAG): I/O Callback Interface.
  (line 48)
* window-id: Miscellaneous UI Server Commands.
  (line 21)

# -*- mode: org -*-
#+TITLE: Maintenance Mode
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}][Times New Roman]
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* Maintenance Mode from 2019
:PROPERTIES:
:CUSTOM_ID: maintenance-mode
:END:

| Version: | 0.0.1 |
| GPGME Version: | 1.13.0 |
| Author: | Ben McGinnes <ben@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language: | Australian English, British English |
From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made. This also means that documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.

** Maintainer from 2019 onward

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding for that position, the amount of time I will be able to dedicate solely to this task will be limited and reduced to volunteered time. As with all volunteered time and effort in free software projects, this will be subject to numerous external imperatives.

** Using the Python Bindings from 2019 and beyond

For most, if not all, Python developers using these bindings; they will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source. In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the
lower level, dynamically generated methods which match the GPGME C
documentation. While the more intuitively Pythonic higher level layer
already covers the vast majority of functionality people require with
key generation, signatures, certifications (key signing), encryption,
decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking
because they are missing from GPGME itself (e.g. revoking keys via the
API) and in such cases they are usually deliberately excluded. More
discussion of these issues can be found in the archives of the
[[https://lists.gnupg.org/mailman/listinfo/gnupg-devel][gnupg-devel mailing list]].

Any features existing in the dynamically generated layer for which
people want a specific, higher level function included to make it more
Pythonic (e.g. to avoid needing to learn or memorise cryptographic
mode values or GnuPG status code numbers), would be a feature request
and /not/ a bug.

It is still worthwhile requesting it, but the addition of such a
feature would not be guaranteed and provided on a purely volunteer
basis. Expediting such a request would require funding that request.

Those with a commercial interest in expediting such a feature request
already know how to [[https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset][expedite it]] (use the message field to
state what
feature is being requested).

** Documentation formats

The documentation has been written in Org mode for GNU Emacs, with
both Texinfo and reStructuredText formats generated from that. The
Texinfo files are intended for use with the rest of the GnuPG
documentation; while the reStructuredText files are intended for use
with Docutils and Sphinx, as with other Python projects.

*** Cautionary Notes regarding Sphinx and EPUB

Though Python's Docutils in conjunction with Sphinx is capable of
generating some very useful HTML sites, as proven by [[https://readthedocs.org/][Read the Docs]] and
the [[https://docs.python.org/][Python documentation]], there are a number of output formats it does
not handle well. At the top of the list of things it manages to break
so atrociously as to be embarassing is the [[http://idpf.org/epub][EPUB 3]] format.

The automatically generated EPUB of the CPython documentation always
contains hundreds of validation errors and even the modest amount of
documentation here [[https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-python/rst/epub/GPGMEPythonBindings.epub][produced a file]] with approximately thirty
validation errors. As the volume of documentation content increases,
so does the induced errors. Whereas Texinfo doesn't produce EPUB
output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a
[[https://dev.gnupg.org/maniphest/task/edit/form/4/][feature
request]] case marked for [[https://dev.gnupg.org/p/BenM/][my]] attention. The means of generating such
files flawlessly is already available, but is not yet part of the
GnuPG build system. Nor is it integrated with a means of converting
Org mode input files to the relevant base format automatically, as can
already be done when converting Org to reStructuredText or Org to
Texinfo. As a certain amount of work would be required to get it
done, there would need to be clear demand for that work to be done.
2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2011-05-11 Marcus Brinkmann <marcus@g10code.com>

* gpgsm/Makefile.am (DISTCLEANFILES): Move to ...
(CLEANFILES): ... here.
(clean-local): New rule.
* gpg/Makefile.am (DISTCLEANFILES): Move to ...
(CLEANFILES): ... here.

2011-05-05 Marcus Brinkmann <marcus@g10code.com>

* gpg/Makefile.am: Unset GPG_AGENT_INFO when setting up local
configuration.
(clean-local): Shut down local gpg-agent.

2011-05-04 Marcus Brinkmann <marcus@g10code.com>

* gpg/t-import.c (check_result): Complete secret key pair counting
and disable status check, as GPG 2.1 currently emits two IMPORT_OK
lines and we only look at the first.

2011-04-27 Marcus Brinkmann <marcus@g10code.com>
* gpg/Makefile.am (DISTCLEANFILES): Add S.gpg-agent.
(mkdemodirs, ./Alpha/Secret.gpg): Remove targets.
(GNUPGHOME): Export as absolute build directory (for gpg-agent).
(.pubring.gpg): Remove --homedir option, import secdemo.asc.
(clean-local): Rewrite.
* gpg/pubkey-1.asc, gpg/seekey-1.asc: Change passphrase to "abc" (now needed as GnuPG 2.1 asks for secret key passphrase on import).
* gpg/t-keylist.c (keys): Update key info for Joe Random Hacker.
(main): Disable check for can_encrypt, as this is now in a different subkey.
* gpg/t-encrypt-sign.c (check_result): Allow RMD160 hash algorithm.
* gpg/t-import.c (check_result): One secret key pair now counts as two secret keys, allow that.

2009-11-03 Werner Koch <wk@g10code.com>

* run-support.h (fail_if_err): Include program name.

* run-sign.c (main): Add option --uiserver.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* opassuan/t-command.c: Update to new interface.

2009-10-15 Werner Koch <wk@g10code.com>

* run-verify.c: New.

2009-08-06 Werner Koch <wk@g10code.com>

* run-sign.c: New.

2009-07-07 Werner Koch <wk@g10code.com>

* run-keylist.c (main): Add options --cms and --openpgp.

* gpg/pgp-keylist.c: Rename to ...
* run-keylist.c: ... this.
* gpg/pgp-import.c: Rename to ...
* run-import.c: ... this.
* gpg/pgp-export.c: Rename to ...
* run-export.c: ... this.
* run-support.h: New. Copied from gpg/t-support.h.
* gpg/Makefile.am (noinst_PROGRAMS): Remove them.
* Makefile.am (noinst_PROGRAMS): Add them.
(noinst_HEADERS): New.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-support.h (passphrase_cb): Implement write() according to
the book to silence compiler warning.
* gpgsm/t-support.h (passphrase_cb): Likewise.

2009-06-16 Werner Koch <wk@g10code.com>

* gpg/pgp-import.c: New.
* gpg/t-support.h (print_import_result, nonnull): Factored out
from other tools.

* gpg/pgp-export.c, gpg/pgp-keylist.c: New.

2009-06-09 Werner Koch <wk@g10code.com>

* gpg/Makefile.am (/pubring.gpg): Ignore errors in case of
already imported keys. Add --no-permission-warning and remove
obsolete --allow-secret-key-import.
* gpg/mkdemodirs.in (GPG): Add --no-permission-warning.

* gpg/t-edit.c (edit_fnc): Use gpgme_io_write.

2009-04-19 Moritz <moritz@gnu.org>

* gpg/Makefile.am (EXTRA_DIST): Replaced mkdemodirs with mkdemodirs.in.
(mkdemodirs): New target.
(clean-local): Added command for removing mkdemodirs script.
(./Alpha/Secret.gpg): Added dependency on mkdemodirs.

* gpg/mkdemodirs: Renamed to ...
* gpg/mkdemodirs.in: ... here.
* gpg/mkdemodirs.in (GPG): Derive value from @GPG@ instead of
hard-coding "gpg".

2009-02-24 Werner Koch <wk@g10code.com>

* opassuan/t-command.c: Adjust for changed new op_assuan interface.

2009-02-03 Werner Koch <wk@g10code.com>

* gpg/t-keylist.c (main): Check that new fields is_cardkey and
card_number are not set.

2009-01-26 Werner Koch <wk@g10code.com>
* opassuan/: New.
* opassuan/Makefile.am: New.
* opassuan/t-command.c: New.

2008-12-03 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (INCLUDES): Fix path to include file.
* gpg/Makefile.am (INCLUDES), gpgsm/Makefile.am (INCLUDES): Likewise.

2008-11-18 Werner Koch <wk@g10code.com>

* gpgsm/cms-decrypt.c: New.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

* gpgsm/Makefile.am (INCLUDES, LDADD): Replace gpgme path with src.
* gpg/Makefile.am (INCLUDES, LDADD, t_thread1_LDADD): Likewise.
* Makefile.am (LDADD): Likewise.

2008-10-30 Werner Koch <wk@g10code.com>

* gpgsm/cms-keylist.c: New.

2008-06-19 Werner Koch <wk@g10code.com>

* gpg/t-gpgconf.c (dump_arg): Add new types. Print strings in quotes.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (DISTCLEANFILES): Add pubring.kbx~.

2008-01-10 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-gpgconf.c (main): Allow for dirmngr not to be available.

* gpg/Makefile.am (/gpg-agent.conf): Correct pinentry path.

( EXTRA_DIST): Add pinentry.

* gpg/t-gpgconf.c (main): Exit early if compiled without gpgconf.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>
* gpg/Makefile.am (CLEANFILES): Add pubring.kbx and dirmngr.conf.

* Makefile.am (TESTS_ENVIRONMENT): Use absolute path for GNUPGHOME.
* gpg/Makefile.am (TESTS_ENVIRONMENT): Use absolute path for GNUPGHOME.
* gpgsm/Makefile.am (TESTS_ENVIRONMENT): Use absolute path for GNUPGHOME.
* gpg/Makefile.am (TESTS): Add t-gpgconf.
t-gpgconf.c: New file.

2007-11-23 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (show_auditlog): Check for GPG_ERR_ASS_UNKNOWN_CMD.

2007-11-23 Werner Koch <wk@g10code.com>

* gpgsm/t-verify.c (check_result): Don't exit on error but set a flag.
  (main): Consult flag for return value.
  (show_auditlog): New.
  (main): Use it.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* t-engine-info.c (check_engine_info): Fix debug output.
* gpg/Makefile.am (tests_unix): New variable.
  (TESTS): Use it.
* gpg/t-support.h (passphrase_cb) [HAVE_W32_SYSTEM]: Use WriteFile instead of write.
* gpg/t-wait.c [HAVE_W32_SYSTEM]: Define sleep as _sleep.

2007-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (main): Release TEXT and SIG.

2007-07-12 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (key_id): Change := into =.

2007-07-12 Werner Koch <wk@g10code.com>

* gpgsm/t-support.h (init_gpgme) [W32]: Do not init the locales as the constants are not available.

2007-02-26 Werner Koch <wk@g10code.com>

* gpg/t-verify.c (double_plaintext_sig): New.
  (main): Check it.
2006-12-02 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Skip unknown keys. Newer versions of GPGSM import more keys than older ones.

2005-12-06 Werner Koch <wk@g10code.com>

* gpg/t-keylist.c (main): Changed for that secondary keys now have a fingerprint.
* gpg/t-keylist-sig.c (main): Ditto.
* gpgsm/t-keylist.c (main): Ditto. The test used to be wrong.

2005-10-18 Werner Koch <wk@g10code.com>

* gpg/pubdemo.asc, gpg/secdemo.asc: Add 2 expired subkeys to Whisky.
* gpg/t-keylist.c: Reordered list to match new demo keyring. Add arg for number of subkeys and for extra checking function.
* gpgsm/t-keylist.c (main): Enhanced a few error outputs. Changed subkey counting. Call extra checking function.
* (check_whisky): New.

2005-10-07 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Allow for an email address as a second uid.

* gpg/t-sig-notation.c: Change critical notation to something GnuPG understands.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (EXTRA_DIST): Remove gpg.conf.
* (DISTCLEANFILES): Add gpg.conf.
* (all-local): Add gpg.conf.
* (/./gpg.conf): New target.
* gpg/gpg.conf: Remove file.

* gpg/Makefile.am (EXTRA_DIST): Add gpg.conf.

* gpg/Makefile.am (TESTS): Add t-sig-notation.
* gpg/t-sig-notation.c (check_result): New file.
* gpg/t-verify.c (check_result): Also check the length of the notation data.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>
* gpg/Makefile.am (TESTS): Add t-filename.

2005-09-23 Werner Koch  <wk@g10code.com>

* gpg/t-support.h (init_gpgme) [W32]: Don't use LC_MESSAGES.

* gpg/t-encrypt-large.c: New test.
* gpg/Makefile.am (TESTS): Add t-encrypt-large.

2005-06-03 Marcus Brinkmann  <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-wait.
* gpg/t-wait.c (main): New test.

2004-12-07 Marcus Brinkmann  <marcus@g10code.de>

* gpg/mkdemodirs: Add copyright notice.

* gpgsm/Makefile.am, gpgsm/t-support.h, gpgsm/t-decrypt.c,
gpgsm/t-encrypt.c, gpgsm/t-export.c, gpgsm/t-genkey.c,
gpgsm/t-import.c, gpgsm/t-keylist.c, gpgsm/t-sign.c,
gpgsm/t-verify.c, gpg/Makefile.am, gpg/t-decrypt.c,
gpg/t-decrypt-verify.c, gpg/t-edit.c, gpg/t-encrypt.c,
gpg/t-encrypt-sign.c, gpg/t-encrypt-sym.c, gpg/t-eventloop.c,
gpg/t-export.c, gpg/t-genkey.c, gpg/t-import.c, gpg/t-keylist.c,
gpg/t-keylist-sig.c, gpg/t-sign.c, gpg/t-signers.c,
gpg/t-support.h, gpg/t-thread1.c, gpg/t-trustlist.c,
gpg/t-verify.c, Makefile.am, t-data.c, t-engine-info.c,
t-version.c: Change license to LGPL.

2004-08-17 Marcus Brinkmann  <marcus@g10code.de>

* gpgsm/t-keylist.c (struct): Add new fields VALIDITY and
  KEY_LENGTH.
  (main): Use them.
* gpgsm/t-import.c (check_result): New argument total_stat.
  (main): Pass this argument. Reduce number of total considered
  keys to 1 for the second test.

2004-04-05 Werner Koch  <wk@gnupg.org>

* gpgsm/Makefile.am: Changed the faked system time to 20011213T12000.

2004-03-07 Marcus Brinkmann  <marcus@g10code.de>

* gpgsm/t-keylist.c: Add chain IDs.
2004-03-03  Werner Koch  <wk@gnupg.org>

* gpgsm/t-export.c (main): Also check exporting 2 certificates.

2004-02-17  Werner Koch  <wk@gnupg.org>

* gpgsm/t-import.c (check_result): gpgsm does now return info in the result->imports; adjust for that.

* gpgsm/Makefile.am (TESTS_ENVIRONMENT): Reset the GPG_AGENT_INFO.

   Include config.h at the top of each C source. This is required due to LFS support.

* gpg/t-keylist-sig.c (main): s/class/sig_class/.
* gpg/t-signers.c (check_result): Ditto.
* gpg/t-sign.c (check_result): Ditto.
* gpg/t-encrypt-sign.c (check_result): Ditto.
* gpgsm/t-sign.c (check_result): Ditto.

2004-01-12  Werner Koch  <wk@gnupg.org>

* gpg/t-keylist-sig.c (main): Temporary disabled one test due to gpg 1.3.4 problems.
* gpg/t-import.c (check_result): Likewise.

2003-11-19  Werner Koch  <wk@gnupg.org>

* gpg/t-support.h (DIM): Added.

* gpg/t-verify.c (check_result): Rewrote test for notations because the order of notations is not guaranteed.

* gpgsm/t-support.h (fail_if_err): Also print the numeric values.

2003-10-06  Marcus Brinkmann  <marcus@g10code.de>

* gpg/t-eventloop.c: Include <sys/types.h> for old systems.

* gpgsm/Makefile.am (DISTCLEANFILES): Add random_seed.

* gpg/t-thread1.c (thread_one): Do not call initialize_gpgme. Likewise.

2003-09-14  Marcus Brinkmann  <marcus@g10code.de>

* gpg/t-thread1.c (main): Call init_gpgme here.
   (initialize_gpgme): Function removed.
* gpg/t-thread1.c: New file.
* gpg/Makefile.am (TESTS): Add t-thread1.c.
(t_thread1_LDADD): New variable.
(LDADD): Remove GPG Error lib.
* gpgsm/Makefile.am (LDADD): Likewise.

* gpg/t-import.c (main): Likewise.
* gpg/t-keylist-sig.c (main): Likewise.
* gpg/t-keylist.c (main): Likewise.
* gpg/t-sign.c (main): Likewise.
* gpg/t-signers.c (main): Likewise.
* gpg/t-trustlist.c (main): Likewise.
* gpgsm/t-support.h: Include <stdlib.h> and <locale.h>.
(init_gpgme): New function.
* gpg/t-support.h: Likewise.
* gpgsm/t-verify.c (main): Call init_gpgme.
* gpgsm/t-decrypt.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.
* gpgsm/t-genkey.c (main): Likewise.
* gpgsm/t-import.c (main): Likewise.
* gpgsm/t-keylist.c (main): Likewise.
* gpgsm/t-keylist-sig.c (main): Likewise.
* gpgsm/t-sign.c (main): Likewise.
* gpgsm/t-signers.c (main): Likewise.
* gpgsm/t-trustlist.c (main): Likewise.
* gpgsm/t-verify.c (check_result): Change output format for signature class to unsigned int.
* gpg/t-sign.c (check_result): Likewise.
* gpg/t-signers.c (check_result): Likewise.
* gpgsm/t-sign.c (check_result): Likewise.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-sign.c (check_result): Change type of SUMMARY to unsigned int.
* gpg/t-decrypt-verify.c (check_verify_result): Likewise.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-verify.c (check_result): Change type of SUMMARY to unsigned int.
* gpg/t-decrypt-verify.c (check_verify_result): Likewise.
* gpg/t-keylist-sig.c (keys): Change type of member CLASS to unsigned int.
* t-data.c (read_cb): Change type of AMOUNT to unsigned int.
* t-version.c (version): Remove unused variable.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (AM_CPPFLAGS): New variable.
  (LDADD): Add @GPG_ERROR_LIBS@.
* gpg/Makefile.am (AM_CPPFLAGS): New variable.
  (LDADD): Add @GPG_ERROR_LIBS@.
* gpgsm/Makefile.am (AM_CPPFLAGS): New variable.
  (LDADD): Add @GPG_ERROR_LIBS@.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

Everywhere: Use libgpg-error error codes.

* gpg/Makefile.am (noinst_HEADERS): New variable.
* gpg/t-support.h: New file.
* gpgsm/Makefile.am (noinst_HEADERS): New variable.
* gpgsm/t-support.h: New file.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sym.c (main): Adapt to new syntax.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-eventloop.c (main): Likewise.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c (main): Rewrite recipient management.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-export.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Order t-keylist and t-keylist-sig after t-import.
* gpg/t-edit.c (edit_fnc): Fix primary UID for keylisting tests.
* gpg/t-keylist.c: Change order of user IDs.
* gpg/t-keylist-sig.c: Likewise.
* gpg/t-import.c: Add support for gpg in CVS.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* t-data.c: Remove TEST_OUT_CB.
  (main): Likewise.
* gpg/t-trustlist.c (main): Access ITEM directly.

* (t-decrypt-verify.c, t-decrypt.c, t-edit.c, t-encrypt-sign.c, t-encrypt-sym.c, t-sign.c, t-signers.c): Include <unistd.h>.
  (passphrase_cb): Rewritten.
* t-edit.c (edit_fnc): Rewritten.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-keylist-sig.c (main): Remove timestamp check.

* gpgsm/t-keylist.c: Add check for timestamp.

* gpg/Makefile.am (TESTS): Add t-keylist-sig.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c (main): Do not call print_op_info.
  (print_op_info): Function removed.

* gpg/t-keylist.c: Rewritten.
  * gpgsm/t-keylist.c (main): Rewritten.
* gpg/t-edit.c (main): Do not use gpgme_key_get_as_xml. Use
gpgme_key_unref instead gpgme_key_release.
* gpg/t-signers.c (main): Use gpgme_key_unref instead
gpgme_key_release.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-trustlist.c: Rewritten.

* gpg/t-verify.c (main): Rewritten.
* gpg/t-decrypt-verify.c: Rewritten.
* gpgsm/t-verify.c (main): Rewritten.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-decrypt.c (main): Rewritten.

* gpg/t-decrypt.c: Rewritten.
* gpg/t-sign.c: Rewritten.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sign.c (check_result): Rewritten.

* gpg/t-sign.c: Rewritten.
* gpgsm/t-sign.c: Rewritten.
* gpg/t-encrypt.c: Check for invalid recipients.
* gpgsm/t-encrypt.c: Likewise.

* gpg/t-import.c (check_result): Really use FPR.
* gpgsm/t-import.c (check_result): Rewritten.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-import.c: Rewritten.

* gpgsm/t-genkey.c: Rewritten.
* gpgsm/Makefile.am (noinst_PROGRAMS): Add t-genkey.
* gpg/t-genkey.c: Include <stdlib.h>.
(main): Check result->fpr before checking its length.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-genkey.c: Rewritten to match new semantics.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-decrypt.c (passphrase_cb): Fix to new prototype.
* gpg/t-decrypt-verify.c (passphrase_cb): Likewise.
* gpg/t-edit.c (passphrase_cb): Likewise.
* gpg/t-encrypt-sign.c (passphrase_cb): Likewise.
* gpg/t-encrypt-sym.c (passphrase_cb): Likewise.
* gpg/t-sign.c (passphrase_cb): Likewise.
* gpg/t-signers.c (passphrase_cb): Likewise.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* t-engine-info.c: Use file_name instead path throughout.

* Makefile.am (TESTS): Add t-engine-info.
* t-engine-info.c: New file.
* gpg/t-encrypt.c (main): Don't print engine info.
* gpg/t-eventloop.c (main): Likewise.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.
2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (main): Adjust caller of gpgme_op_verify.
* gpg/t-verify.c (main): Likewise.
* gpg/t-decrypt-verify.c (main): Likewise for gpgme_op_decrypt_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (/gpgsm.conf): Add a faked system time to avoid certification's expiry.
* gpgsm/t-encrypt.c (main): Use the short certification name.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-genkey.c (main): Add missing argument to gpgme_op_genkey invocation.

2002-10-09 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-decrypt.c (print_data): Update to new gpgme_data_read interface, and use gpgme_engine_check_version instead gpgme_check_version.
* gpg/t-decrypt-verify.c (print_data): Likewise.
* gpg/t-edit.c (main): Likewise.
* gpg/t-encrypt.c (print_data): Likewise.
* gpg/t-encrypt-sign.c (print_data): Likewise.
* gpg/t-encrypt-sym.c (print_data): Likewise.
* gpg/t-eventloop.c (print_data): Likewise.
* gpg/t-export.c (print_data): Likewise.
* gpg/t-sign.c (print_data): Likewise.
* gpg/t-signers.c (print_data): Likewise.
* gpgsm/t-decrypt.c (print_data): Likewise.
* gpgsm/t-encrypt.c (print_data): Likewise.
* gpgsm/t-export.c (print_data): Likewise.
* gpgsm/t-sign.c (print_data): Likewise.
* gpg/t-verify.c (main): Likewise for gpgme_op_verify.
* gpgsm/t-verify.c (main): Likewise for gpgme_op_verify.
* t-data.c (read_once_test): Likewise.
* (write_test): Update for new behaviour of data objects.
* (main): Remove type test.

2002-09-30 Werner Koch <wk@gnupg.org>

* gpgsm/t-keylist.c (doit): Add arg SECRET.
* (main): Add option --secret.

2002-09-28 Marcus Brinkmann <marcus@g10code.de>
* t-version.c: Include <string.h>. Reported by Stphane Corthsy.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-keylist.c (main): Test PATTERN for NULL before printing. Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-08-01 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-edit.c: Also add a test for the expire command (testing the passphrase callback).

2002-07-28 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile (TESTS): Add t-edit.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sym.c (main): Change type of I to size_t and rename to LEN.
* gpg/t-verify.c (main): Likewise. Submitted by Stphane Corthsy.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile (TESTS): Add t-eventloop.

2002-06-26 Werner Koch <wk@gnupg.org>

* gpgsm/t-import.c (print_op_info): New.
  (main): Print operation info.

2002-06-25 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am (DISTCLEANFILES): new.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (TESTS): Add t-export.

2002-06-20 Werner Koch <wk@gnupg.org>

* gpgsm/t-sign.c (main): Also test a normal signature.
* gpg/Makefile (TESTS_ENVIRONMENT): Set GPG_AGENT_INFO empty.
* gpg/t-signers.c, gpg/t-sign.c, gpg/t-encrypt-sym.c
* gpg/t-encrypt-sign.c, gpg/t-decrypt.c
* gpg/t-decrypt-verify.c (main): Changed the GPG_AGENT_INFO check to match the one in ../../gpgme/runpg.c.

2002-06-12 Werner Koch <wk@gnupg.org>

* gpgsm/t-keylist.c (doit): Print operation info if available.

2002-06-10 Werner Koch <wk@gnupg.org>

* gpgsm/t-verify.c (print_sig_stat): Print the error token.

2002-06-04 Werner Koch <wk@gnupg.org>

* gpgsm/t-encrypt.c (main): Add a simple option parser and allow to specify an encryption key.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (all-local): Remove dependency on ./secring.gpg.
  (/./secring.gpg): Remove target, and move all rules for this target to ...
  (/./pubring.gpg): ... here. This was necessary because GnuPG 1.0.7 does create an empty secring.gpg file when importing public keys.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (validity_string): New.
  (print_sig_stat): Print expire time and validity.
  (status_string): Add new exipred stati.

2002-05-03 Werner Koch <wk@gnupg.org>

* gpg/t-verify.c (validity_string): New.
  (print_sig_stat): Print expire time and validity.
  (status_string): Add new exipred stati.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (/./trustlist.txt): Put more into this file to prevent use of gpg-agent.
  (/./gpg-agent.conf): Remove target.
  (all-local): Remove /./gpg-agent.conf.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>
* gpgsm/t-keylist.c (main): Use gpgme_engine_check_version instead gpgme_check_engine.
* gpgsm/t-encrypt.c (main): Likewise.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-encrypt-sym.

2002-03-05 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): Remove random_seed, which is now in DISTCLEANFILES.

2002-03-04 Werner Koch <wk@gnupg.org>

* gpg/Makefile.am (DISTCLEANFILES): Added.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-verify.c (main): Add a few more sanity checks, and a check for normal signatures.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-encrypt-sign.

2002-02-13 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am (private-keys-v1.d): Don't fail when the directory already exists.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): New target.
   (distclean-local): Rename to ...
   (clean-local): ... this.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (/private-keys-v1.d/${key_id}.key): Fix rule.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-genkey.c: New file (not added to Makefile.am because of gpg-agent bug).
2002-02-08 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (key_id): Update value.
  (all-local): Add .key to keyid filename.
  (/private-keys-v1.d/$key_id): Renamed to ...
  (/private-keys-v1.d/$key_id.key): ... this.
  (all-local): Add ./gpgsm.conf, ./trustlist.txt.
  (/gpgsm.conf, ./trustlist.txt): New target.
* gpgsm/567064FE6D14A17B2D811ABB407728BC558AA455: Renamed to ...
* gpgsm/32100C27173EF6E9C4E9A25D3D69F86D37A4F939: ... this.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-import.c (print_op_info): New function.
  (main): Use it.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-signers.c (passphrase_cb): Change type of r_hd to void**.
* gpg/t-sign.c (passphrase_cb): Likewise.
* gpg/t-decrypt-verify.c (passphrase_cb): Likewise.
* gpg/t-decrypt.c (passphrase_cb): Likewise.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-decrypt-verify.c: Don't include `mcheck.h'. Reported by Stphane Corthsy.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (EXTRA_DIST): Add missing line continuation.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (EXTRA_DIST): Add $($key_id).

2001-12-16 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile: Rename `pubcerts.kbx' to `pubring.kbx'.

2001-12-15 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (check_two_contexts): Set protocols.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (TESTS): Add t-sign.
2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-decrypt.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-decrypt.
  (key_id): New variable.
  (all-local): New target ./private-keys-v1.d/${key_id} added.
  (.private-keys-v1.d/${key_id}): New target.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-verify.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (GPG): Set to $GPG_PATH@.
  (.pubring.gpg): Use $GPG instead gpg.
  (.secring.gpg): Likewise.
* gpgsm/t-import.c (main): Remove third test case.
* gpgsm/Makefile.am (GPGSM): Set to $GPGSM@.
  (all-local): New target.
  (.pubcerts.kbx): Likewise.
* gpgsm/t-encrypt.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-encrypt.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-keylist.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/cert_dfn_pca01.der: New file.
* gpgsm/cert_dfn_pca15.der: Likewise.
* gpgsm/cert_g10code_test1.der: Likewise.
* gpgsm/t-import.c: Likewise.
* gpgsm/Makefile.am (EXTRADIST): Add new files.
  (TESTS): Add t-import.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/: New directory.
  * Makefile.am, t-verify.c, t-encrypt.c, t-signers.c, t-trustlist.c,
  t-sign.c, t-keylist.c, t-import.c, t-genkey.c, t-export.c,
  t-decrypt-verify.c, t-decrypt.c, t-version.c, t-data.c, mkdemodirs.

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cipher-1.asc, cipher-2.asc, geheim.txt, pubdemo.asc, pubkey-1.asc, secdemo.asc, seckey-1.asc): Move to sub directory gpg/.

* gpg/Makefile.am (INCLUDES): Include gpgme/, not include/ and intl/.
(LDD): Correct relative path to gpgme library.
(TESTS): Remove t-version and t-data.
* gpg/t-verify.c, gpg/t-encrypt.c, gpg/t-signers.c, gpg/t-trustlist.c, gpg/t-sign.c, gpg/t-keylist.c, gpg/t-import.c, gpg/t-genkey.c, gpg/t-export.c, gpg/t-decrypt-verify.c, gpg/t-decrypt.c, t-version.c, t-data.c): Include gpgme.h, not "./gpgme/gpgme.h".

* gpgsm/: New directory.
* gpgsm/Makefile.am: New file.

2001-11-16 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (TESTS): Add t-decrypt-verify.
* t-decrypt-verify.c: New file.
* cipher-2.asc: Likewise.

2001-11-02 Marcus Brinkmann <marcus@g10code.de>

* t-data.c: Include stddef.h.
(read_once_test): Change type of READ to size_t.
(read_test): Likewise.
(write_test): Likewise.

2001-10-29 Marcus Brinkmann <marcus@g10code.de>

* t-signers.c: New file.
* Makefile.am (TESTS): Add t-signers.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (TEST_ENVIRONMENT): Revert last change.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (TEST_ENVIRONMENT): Set environment to $(srcdir), not current directory.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* t-data.c (write_test): New function.
(main): Invoke write_test for all rounds except TEST_OUT_CB.
2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (INCLUDES): Remove spurious duplicate to silence automake.

2001-10-16 Marcus Brinkmann <marcus@g10code.de>

* t-version.c: New file.
* t-data.c: Likewise.
* t-data-1.txt: Likewise.
* t-data-2.txt: Likewise.
* Makefile.am (TESTS): Add t-version, t-data.

2001-09-17 Werner Koch <wk@gnupg.org>

* t-keylist.c (check_two_contexts): New.

2001-09-03 Werner Koch <wk@gnupg.org>

* t-encrypt.c (print_op_info): New and use it after each operation.

2001-08-28 Werner Koch <wk@gnupg.org>

* t-sign.c (print_op_info): New and use it after each operation.

2001-03-15 Werner Koch <wk@gnupg.org>

* t-keylist.c (doit): List subkeys too, show caps.

2001-02-13 Werner Koch <wk@gnupg.org>

* t-verify.c (print_sig_stat): Repaled ulong by unsigned long because we don't use the config stuff here.

2001-02-12 Werner Koch <wk@gnupg.org>

* tests/t-verify.c (print_sig_stat): Print info about the keys.


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Version 2.1, February 1999

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**What's New**

| Version: | 0.0.1 |
| GPME Version: | 1.13.0 |
| Author: | Ben McGinnes <ben@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language: | Australian English, British English |
| xml:lang: | en-AU, en-GB, en |

Last time the most obviously new thing was adding the /What's New/ section to the HOWTO. Now it's moving it out of the HOWTO.

**New in GPGME 1130**

Additions since GPGME 1.12.0 include:

- Moving the /What's New/ section out of the basic [[file:gpgme-python-howto.org][HOWTO]] document and into its own file so as to more readily include other documents beyond that HOWTO.
- Moving the preceding, archival, segments into [[file:what-was-new.org][another file]].
- Added =gpg.version.versionintlist= to make it easier for Python
developers to check for a specific version number, even with beta
versions (it will drop the "-betaN" part).
- Added expanded detail on issues pertaining to installing for Windows
users.
- Added documentation on maintenance mode and what changes can be made
to the code when in that status. Essentially that boils down to bug
fixes only and no feature requests.
- The import-keys-hkp.py example script, which uses the =hkp4py=
module to search the SKS servers for a key, has been tightened up
to search for both hexadecimal key IDs and user ID strings with reduced
chance of unnecessary repetition. There may still be some
repetition if a key includes a user ID matching the hexadecimal
value of a key ID.

1543830060
##Sketch 1
2
document()
layout('A4',1)
fp((0,0,0))
ft(1)
Fn('Helvetica-Bold')
Fs(18)
dstyle('Text')
fp((0,1,0.498))
ft(1)
lp((0,0,0))
lw(0.283465)
lc(1)
lj(0)
ld()()
la1()
la2()
dstyle('Application Box')
layer('Layer 1',1,1,0,0,(0,0,0))
lw(1)
r(0,0,0,688.145,44.1554)
lw(1)
r(0,0,0,682.363,85.0359)
lp((0.392,0.584,0.929))
lw(4.25197)
b()
bs(605.383,329.758,0)
bs(605.383,230.546,0)
lw(1)
r(0,0,0,807.414,53.6148)
lp((0.392,0.584,0.929))
lw(4.25)
b()
ld((1, 1))
la2((([-4.0, 3.0], (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0]), 1))
b()
bs(333.071, 432.284, 0)
bs(333.07, 425.196, 0)
bs(333.07, 382.677, 0)
bs(240.945, 382.677, 0)
bs(240.945, 361.417, 0)
G()
fp((0.999, 1.0, 0.4))
lw(0.283465)
r(70.5589, 0.0, -28.347, 318.897, 354.331, 0.0670228, 0.151107)
fp((0.0, 0.0))
le()
lw(1)
Fn('Helvetica-Bold')
Fs(10)
txt('GPG', (1.0, 0.0, 0.905764, 344.004, 335.686))
G_()
G()
fp((0.999, 1.0, 0.4))
lw(0.283465)
r(70.5589, 0.0, -28.3464, 446.763, 354.333, 0.0670228, 0.151107)
fp((0.0, 0.0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('GpgConf', (0.552654, 0.0, 0.500564, 481.802, 340.185), 1, 1)
G_()
G()
fp((0.999, 1.0, 0.4))
lw(0.283465)
r(70.5589, 0.0, -28.347, 191.338, 354.331, 0.0670228, 0.151107)
fp((0.0, 0.0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('GpgSM', (0.552654, 0.0, 0.500574, 226.376, 340.185), 1, 1)
G_()
lp((0.392, 0.584, 0.926))
lw(4.25)
b()
bs(347.244, 325.984, 0)
bs(347.244, 325.984, 0)
HTTP Server

(CRLs)

DirMngr
fp((0,0,0))
le()
lw(1)
Fn(\textit{Helvetica})
Fs(14)
style(\textit{Text})
txt('WatchGnuPG',(0.552654,0,0,0.552654,98.8185,338.713),1,1)
G()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(70.5589,0,0,-28.1194,63.7795,240.718,0.0670228,0.168178)
fp((0,0,0))
le()
lw(1)
Fn(\textit{Helvetica})
Fs(14)
style(\textit{Text})
txt('Log Socket',(0.552654,0,0,0.552654,98.8175,225.1),1,1)
G()
G()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(85.0392,0,0,-28.3464,446.457,240.945,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn(\textit{Helvetica})
Fs(14)
style(\textit{Text})
Fn(\textit{Helvetica-Bold})
Fs(18)
txt('Config Files',(0.552654,0,0,0.552654,485.621,226.772),1,1)
G()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(85.0392,0,0,-28.3464,545.669,85.0394,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn(\textit{Helvetica})
Fs(14)
style(\textit{Text})
Fn(\textit{Helvetica-Bold})
Fs(18)
txt('Config Files',(0.552654,0,0,0.552654,584.834,70.8662),1,1)
Private Keys

Scute

(pkcs#11)

GPGME Library
NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-10-25 Marcus Brinkmann <marcus@g10code.com>

* Makefile.am: Remove build rules for libgpgme-pth.
* gpgme.m4: Remove support for libgpgme-pth.

2011-05-26 Marcus Brinkmann <marcus@g10code.com>

* decrypt.c (gpgme_op_decrypt_start, gpgme_op_decrypt): Check CTX.
* decrypt-verify.c (gpgme_op_decrypt_verify_start)
  (gpgme_op_decrypt_verify): Likewise.
* delete.c (gpgme_op_delete_start, gpgme_op_delete): Likewise.
  * edit.c (gpgme_op_edit_start, gpgme_op_edit)
    (gpgme_op_card_edit_start, gpgme_op_card_edit): Likewise.
  * encrypt.c (gpgme_op_encrypt_start, gpgme_op_encrypt): Likewise.
  * encrypt-sign.c (gpgme_op_encrypt_sign_start)
    (gpgme_op_encrypt_sign): Likewise.
  * export.c (gpgme_op_export_start, gpgme_op_export)
    (gpgme_op_export_ext_start, gpgme_op_export_ext)
    (gpgme_op_export_keys_start, gpgme_op_export_keys): Likewise.
  * genkey.c (gpgme_op_genkey_start, gpgme_op_genkey): Likewise.
  * getauditlog.c (gpgme_op_getauditlog_start)
    (gpgme_op_getauditlog): Likewise.
  * gpgconf.c (gpgme_op_conf_load, gpgme_op_conf_save): Likewise.
  * import.c (gpgme_op_import_start, gpgme_op_import_keys_start)
    (gpgme_op_import_keys, gpgme_op_import): Likewise.
  * keylist.c (gpgme_op_keylist_start, gpgme_op_keylist_ext_start):
    (gpgme_op_keylist): Likewise.
  * opassuan.c (gpgme_op_assuan_transact_start)
    (gpgme_op_assuan_transact_ext): Likewise.
  * passwd.c (gpgme_op_passwd_start, gpgme_op_passwd): Likewise.
  * sign.c (gpgme_op_sign_start, gpgme_op_sign): Likewise.
  * trustlist.c (gpgme_op_trustlist_start)
    (gpgme_op_trustlist_next): Likewise.
  * verify.c (gpgme_op_verify_start, gpgme_get_sig_key): Likewise.
  * op-support.c (_gpgme_op_data_lookup): Likewise.
  * vfs-create.c (gpgme_op_vfs_transact, gpgme_op_vfs_create): Likewise.
  * vfs-mount.c (gpgme_op_vfs_mount, gpgme_op_vfs_transact): Likewise.
  * gpgme.c (gpgme_set_protocol)
    (gpgme_set_sub_protocol)
    (gpgme_set_armor, gpgme_set_include_certs)
    (gpgme_set_keylist_mode, gpgme_set_passphrase_cb)
    (gpgme_set_progress_cb, gpgme_set_io_cbs, gpgme_set_locale)
    (gpgme_ctx_set_engine_info, gpgme_sig_notation_clear): Likewise.
  * gpgme.c (gpgme_new): Check for valid R_CTX.
  (gpgme_cancel, gpgme_cancel_async, gpgme_release): Likewise.

2011-04-06 Werner Koch <wk@g10code.com>

* gpgme-config.in: Add option --host. Change options --cflags and
  --libs to collapse duplicate include and lib dirs. Try to put
  extra libs at the end.

* gpgme.h.in: Use INSERT__TYPEDEFS_FOR_GPGME_H to include platform
  specific typedefs.

2011-02-03 Werner Koch <wk@g10code.com>

* extra-stati.h: New.
* mkstatus: Extend to also process extra-stati.h
* Makefile.am (main_sources): Add extra-stati.h
  (status-table.h): Depend on extra-stati.h and adjust rule.

2011-02-03 Marcus Brinkmann <marcus@g10code.com>

* w32-io.c (_gpgme_io_socket): Return fd, not res.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

* assuan-support.c (my_socket, my_connect): New functions.
  (_gpgme_assuan_system_hooks): Add my_Socket, my_connect.
* w32-io.c (pid_to_handle, handle_to_oid, fd_to_handle): Remove macros.
  (is_socket): Remove function.
  (_gpgme_io_spawn) [HAVE_W32CE_SYSTEM]: Remove some dead code.
  (_gpgme_io_spawn): Translate handles before DuplicateHandle them.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

* w32-util.c (mkstemp): Don't use CreateFile instead of open (the
  function is not used on Windows CE, and the callers were not
  adjusted).

2011-01-21 Marcus Brinkmann <mb@g10code.com>

* engine-gpgconf.c (_gpgme_conf_opt_change): Fix the case that is
  not self-assignment.

2010-12-08 Werner Koch <wk@g10code.com>

* gpgme-tool.c (strcpy_escaped_plus): New.
  (DIM, xtoi_1, xtoi_2): New.
  (cmd_keylist): Allow for multiple patterns.

2010-11-23 Marcus Brinkmann <mb@g10code.com>

* w32-io.c (create_reader, create_writer): Use small stack size on
  Windows CE.

2010-11-23 Marcus Brinkmann <mb@g10code.com>

* gpgme.h.in (gpgme_conf_arg_new): Make VALUE arg const void *.
* gpgconf.c (_gpgme_conf_arg_new): Likewise.
  (gpgme_conf_arg_new): Likewise.
* engine-gpgconf.c (_gpgme_conf_arg_new): Likewise.
  (gpgconf_write): Remove debug hack.
2010-11-19 Marcus Brinkmann <mb@g10code.com>


2010-11-17 Marcus Brinkmann <mb@g10code.com>

* vasprintf.c (int_vasprintf) [HAVE_W32CE_SYSTEM]: Just use a fixed size buffer, as va_copy is not easy to fake.

2010-11-15 Marcus Brinkmann <mb@g10code.com>

* w32-ce.h (strcasemp, strdup) [_MSC_VER]: Define.
* genkey.c, passphrase.c: Include util.h.

* w32-util.c (_gpgme_w32ce_get_debug_envvar): Fix return value.

2010-11-15 Werner Koch <wk@g10code.com>

* data-compat.c (gpgme_data_new_from_filepart) (gpgme_data_new_from_file) [W32CE && _MSC_VER]: Return not GPG_ERR_NOT_IMPLEMENTED.

* w32-ce.h (HKEY_PERFORMANCE_DATA, HKEY_CURRENT_CONFIG, _IOLBF) (abort) [_MSC_VER]: Provide these macros.

* ath.h [W32CE && _MSC_VER]: Include winsock2.h.

* ath.c (ath_read, ath_write) [W32CE && _MSC_VER]: Do not call non-available functions.

2010-11-04 Werner Koch <wk@g10code.com>

* w32-ce.h [_MSC_VER && W32CE]: Undef leave.
* export.c: Include util.h so that we get the above undef.

* memrchr.c: Remove. Used to be a replacement function required by the formerly included assuan code.

2010-11-03 Werner Koch <wk@g10code.com>

* debug.c (_gpgme_debug) [W32CE]: Replace locatime by GetLocalTime.

* signers.c (gpgme_signers_clear): Remove useless return. Reported by Patrick Spendrin.

* w32-util.c: s/__inline__/GPG_ERR_INLINE/
* setenv.c: Include string.h due to our strerror replacement.

* w32-ce.h (access, bsearch): New macros.
* w32-ce.c (_gpgme_wince_access): New.
  (RegQueryValueExA): Change DATA to a void*.
  (_gpgme_wince_bsearch): New. Taken from glibc 2.6.

Guard include of sys/stat.h and sys/types.h.

2010-11-02 Werner Koch <wk@g10code.com>

* data-fd.c (read, write, lseek) [W32CE && ! __MINGW32CE__]: New.
  Taken from Pedro Alves Public Domain code.

* w32-ce.h (SHGetSpecialFolderPath): Remove our defines and prototypes. We use the system provided prototypes now.
* w32-ce.c: Include shlobj.h
  (_WIN32_IE): Define to 0x0400
  (CreateFileA): New.
* w32-util.c: Explicitly include windows headers before util.h.
  (_gpgme_w32ce_get_debug_envvar): Do not use wchar_t strings for read_w32_registry_string.
  (mkstemp): Use CreateFile instead of open.

* w32-io.c (handle_to_fd, fd_tohandle): Add. We need them for W32.
* w32-util.c (_WIN32_IE): Define to 0x0400.

* util.h [W32]: Include windows.h.
* w32-sema.c: Do not include windows.h directly.
* ath.c (ssize_t, pid_t) [MSC_VER]: Add new types.
* gpgme.c (gpgme_result_ref, gpgme_result_unref): Do not use a void pointer in pointer arithmetic.
* w32-util.c: Include util.h prior to ath.h. Don't include windows.h directly.
  (F_OK): Define if not defined.
* w32-ce.c: Include string.h.
  (RegQueryValueExA): Use WINAPI modifier to match the declaration.
* vfs-create.c: Include string.h because under W32CE with MSC we get a warning related to our strerror replacement.
* encrypt-sign.c: Include stlib.h, string.h and errno.h.
* priv-io.h [W32CE]: Include w32-ce.h
* w32-ce.h: Include winsock2.h and ws2tcpip.h.
  (_MSV_VER): Remove useless macro.
  (pid_t): Add typedef.

Guard all includes of unistd.h and sys/time.h.

2010-10-28 Marcus Brinkmann <marcus@g10code.com>
* opassuan.c (gpgme_op_assuan_transact_ext): Fix uninitialized value use. Reported by Marc Mutz.

2010-10-07 Werner Koch  <wk@g10code.com>

* gpgme-tool.c (ARGP_ERR_UNKNOWN): Use EDEADLK if available.

* w32-util.c (_gpgme_w32ce_get_debug_envvar) [W32CE]: New.
* debug.c (debug_init) [W32CE]: Use new function.

2010-09-16 Werner Koch  <wk@g10code.com>

* import.c: Include "util.h".
  (parse_import): Return GPG_ERR_MISSING_ISSUER_CERT.

* util.h: Add fallback define for GPG_ERR_MISSING_ISSUER_CERT.
* op-support.c: Include "util.h".
  (_gpgme_parse_inv_recip): Handle new code 12.

2010-09-02 Marcus Brinkmann  <marcus@g10code.de>

* error.c (gpgme_err_code_to_errno): Fix cut and paste bug (thanks to Marc Mutz).

2010-09-01 Marcus Brinkmann  <marcus@g10code.de>

* w32-io.c: Revert change from 2009-06-18, as it created a race condition.

2010-08-18 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.def: Add gpgme_err_code_from_syserror and gpgme_err_set_errno.
* libgpgme.vers: Likewise.
* gpgme.h.in (gpgme_error_from_errno): Fix return type to gpgme_error_t.
  (gpgme_err_code_from_syserror, gpgme_err_set_errno): New prototype.
  (gpgme_error_from_errno): New inline function (why are gpgme_err_make_from_errno and gpgme_error_from_errno not inline functions?).
* error.c (gpgme_error_from_errno): Fix return type to gpgme_error_t.
  (gpgme_err_set_errno, gpgme_err_code_from_syserror): New functions.

2010-08-03 Marcus Brinkmann  <marcus@g10code.de>

* gpgme-tool.c (result_encrypt_to_xml, result_sign_to_xml)
  (result_verify_to_xml, result_import_to_xml)
  (result_genkey_to_xml): Check vigorously for null pointers.
* w32-io.c (GPGCEDEV_IOCTL_ASSIGN_RVID): New macro. (_gpgme_io_spawn): Use ASSIGN_RVID.

2010-06-11 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_spawn): Remove debug printf.

2010-06-10 Marcus Brinkmann <marcus@g10code.de>

* gpgme-tool.c (gpgme_server): Use special hack for Windows CE to get at stdin and stdout.

* engine-gpgsm.c (gpgsm_new): Translate returned achild_fds back to child_fds.

* debug.h (TRACE_SUC6): New macro.
* w32-io.c (MAX_SLAFD): New macro.
(fd_table): New static variable.
(new_fd, release_fd): New functions.
(fd_to_handle, handle_to_fd, handle_to_socket): Remove macros.
(MAX_READERS, MAX_WRITERS): Increase to 64.
(notify_table): Increase to MAX_SLAFD.
(struct reader_context_s, struct writer_context_s): Add member file_sock.
(reader, writer): Use file_hd vs file_sock to decide if socket operations to use. Remove auto-detect mode.
(create_reader, create_writer): Set file_sock. Unblock pending thread only if this is a pipe fd.
(_gpgme_io_pipe): Allocate fds from table and return slot indices instead of windows handles. This allows to properly handle RVIDs.
(_gpgme_io_close): Handle dup'ed file descriptors.
(build_commandline) [HAVE_W32_SYSTEM]: Use RVID from fd table now.
(_gpgme_io_spawn): Use fd table now.
(_gpgme_io_fd2str): Use RVID from fd table now.
(_gpgme_io_dup): Implement using fd table.
(_gpgme_io_socket): Allocate fds from table.
(_gpgme_io_connect): Use fd from table.

* w32-glib-io.c (find_channel): Check that the slot is used.

2010-06-09 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c [HAVE_W32CE_SYSTEM]: Include assuan.h and winioctl.h.
(GPGCEDEV_IOCTL_UNBLOCK) [HAVE_W32CE_SYSTEM]: Define.
(set_synchronize) [HAVE_W32CE_SYSTEM]: Stub it out.
(is_socket): Allow to return -1 for auto-detect (old behaviour).
(is_socket) [HAVE_W32CE_SYSTEM]: Return -1.
(reader): Handle auto-detect case. Handle ctx->stop_me before checking for EOF.
(destroy_reader) [HAVE_W32CE_SYSTEM]: Unblock a pending reader.
(writer): Handle auto-detect case. Handle ctx->stop_me with ERROR_BUSY.
(destroy_writer) [HAVE_W32CE_SYSTEM]: Unblock a pending writer.
(_gpgme_io_pipe) [HAVE_W32CE_SYSTEM]: Implement in terms of a half-pipe.
(build_commandline) [HAVE_W32CE_SYSTEM]: New function.
(_gpgme_io_spawn) [HAVE_W32CE_SYSTEM]: Implement it differently for this platform.
(_gpgme_io_fd2str) [HAVE_W32CE_SYSTEM]: Implement it for RVIDs.
(_gpgme_io_dup) [HAVE_W32CE_SYSTEM]: Stub it out.

* gpgme-tool.c (result_add_timestamp): Add missing NULL argument.
(result_sign_to_xml): Protect against NULL fingerprint.
(struct server): New members input_fd, input_filename, input_stream output_fd, output_filename, output_stream, message_filename, message_stream.
(server_reset_fds): Deallocate those.
(server_parse_fd): New function.
(server_data_obj): Take optional filename argument and direction argument. Also take new argument to return a filestream that needs to be closed after destroying the data object. Change all callers, too.
(input_notify, output_notify): Removed.
(cmd_input, cmd_output): New functions.
(gpgme_server): Do not register input and output notifier.
(register_commands): Use cmd_input and cmd_output.
(cmd_message): Rewritten to use server_parse_fd.
(cmd_delete, cmd_keylist): Fix inverted option check.
(main) [HAVE_W32CE_SYSTEM]: Sleep a bit to work around bug in ssh.

* genkey.c (gpgme_op_genkey): Return err with TRACE_ERR.

2010-05-12 Marcus Brinkmann <marcus@g10code.de>

* conversion.c (_gpgme_timegm) [HAVE_W32_SYSTEM]: New static function.
(_gpgme_parse_timestamp) [HAVE_W32_SYSTEM]: Use it.

* gpgme-tool.c (main): Protect call to setlocale with HAVE_SETLOCALE.

* Makefile.am (system_components): Remove custom cppflags from RCCOMPILE (because gpg-error adds -idirafter that makes RC bail.
[HAVE_W32CE_SYSTEM]: Add w32-ce.h and w32-ce.c, clear libexec_PROGRAMS.
* w32-ce.h, w32-ce.c: New files.

* priv-io.h: Include <sys/types.h>
* util.h: Likewise.

2010-05-11 Marcus Brinkmann <marcus@g10code.de>

* w32-util.c: Include ath.h
  (HAVE_ALLOW_SET_FOREGROUND_WINDOW) ![HAVE_W32CE_SYSTEM]: Define it.
  (RTLD_LAZY, dlopen, dlSYM, dlclose) ![HAVE_ALLOW_SET_FOREGROUND_WINDOW]: Don't define anymore.
  (_gpgme_allow_set_foreground_window) ![HAVE_ALLOW_SET_FOREGROUND_WINDOW]: Make it a stub.
  (read_w32_registry_string): Use FooA variants of Windows functions instead of Foo (which dispatches depending on UNICODE).
  ![HAVE_W32CE_SYSTEM]: Don't check environment.
  (w32_shgetfolderpath): Remove.
  (find_program_at_standard_place): Call SHGetSpecialFolderPath (which is available on all Windows systems and also Windows CE).
  (mkstemp): Use ath_self instead of getpid.
  (_gpgme_mkstemp): Use GetTempPathA instead of GetTempPath.

* gpgme.h.in: Use _WIN32 instead of _MSC_VER. Include time.h for time_t.

2010-05-07 Marcus Brinkmann <marcus@g10code.de>

* engine-g13.c, gpgme.c, engine-gpgsm.c, engine-gpg.c, op-support.c, engine-assuan.c, gpgme-tool.c: Include <locale.h> only if available with HAVE_LOCALE_H and conditionalize use of LC_CTYPE on its definition.
* engine-gpgconf.c: Do not include <locale.h>.

* engine-gpgsm.c (gpgsm_new, start): Cast between int and assuan_fd_t.
* assuan-support.c (my_pipe, my_close, my_read, my_write): Likewise.
* gpgme-tool.c (server_data_obj, server_reset_fds, gpgme_server), (my_recvmsg, my_sendmsg, my_spawn): Likewise.
* engine-assuan.c (start): Likewise.
* engine-g13.c (start): Likewise.

2010-05-06 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c, w32-io.c, w32-qt-io.cpp, w32-sema.c, w32-util.c: Do not include <signal.h>.
* sign.c, data-user.c, conversion.c, debug.c, verify.c, data.c, decrypt.c, delete.c, assuan-support.c, import.c, engine-gpgsm.c, data-mem.c, op-support.c, w32-io.c, w32-util.c, data-compat.c: Use gpg_error_from_syserror instead gpg_error_from_errno, and use gpg_err_set_errno to set error number.
* setenv.c: Include <gpg-error.h> and define __set_errno to use gpg_err_set_errno.
* gpgme-tool.c (ARGP_ERR_UNKNOWN): Define to EDEADLOCK (which is mapped in Windows CE) instead of E2BIG (which is not).
(gt_import_keys): Initialize err.

2010-04-19 Marcus Brinkmann <marcus@g10code.de>

* assuan-support.c (my_spawn): Cast to avoid warning.
* engine-g13.c (g13_new): Make ARGV array of pointer to const char.
(g13_assuan_simple_command)={!USE_DESCRIPTOR_FUNCTION}: Don’t define.
* ops.h (_gpgme_key_append_name): Same in prototype.
* key.c (_gpgme_key_append_name): Make SRC argument pointer to const char.
* posix-util.c (_gpgme_get_uiserver_socket_path): Make HOMEDIR const.
* vfs-mount.c (gpgme_op_vfs_transact_start): Never define this potentially useful but currently unused function.
* vfs-create.c (gpgme_op_vfs_transact_start): Likewise.

2010-04-16 Werner Koch <wk@g10code.com>

* w32-io.c (is_socket): New.
(reader, writer): Use it to figure out the API to use.

2010-03-15 Werner Koch <wk@g10code.com>

* gpgme.h.in: Add autoconf template to set generated file to read-only in an emacs buffer.

2010-03-12 Werner Koch <wk@g10code.com>

* gpgme.h.in (GPGME_STATUS_SUCCESS): Use the right file for the change; see below.

* passwd.c (op_data_t): New.
(passwd_start): Setup OPD.
(passwd_status_handler): Return GPG_ERR_NOT_SUPPORTED if needed.
* context.h (OPDATA_PASSWD): New.
* gpgme.h (GPGME_STATUS_SUCCESS): New.

2010-03-09 Werner Koch <wk@g10code.com>
* engine-gpgsm.c (gpgsm_keylist): Try to start the agent.

2010-02-17 Werner Koch  <wk@g10code.com>

* posix-io.c (notify_table): Change implementation.
  (notify_table_item_t, notify_table_size, notify_table_lock): New.
  (_gpgme_io_close, _gpgme_io_set_close_notify): Adjust for new
  implementation.

2010-02-16 Werner Koch  <wk@g10code.com>

* gpgme-tool.c (spacep, has_option, skip_options): New.
  (cmd_export): Implement option --minimal.

* gpgme.h.in (GPGME_EXPORT_MODE_MINIMAL): New.
* export.c (export_start, export_ext_start): Implement it.
* engine-gpg.c (export_common): Ditto.

2010-01-25 Werner Koch  <wk@g10code.com>

* w32-io.c (_gpgme_io_connect): Fix return code check to make it work.

* version.c (do_subsystem_inits): Remove superfluous second
  WSAStartup.

2010-01-22 Werner Koch  <wk@g10code.com>

* w32-io.c (writer): Try to use send first.
  (reader): Try to use recv first.

2010-01-08 Werner Koch  <wk@g10code.com>

* engine-gpg.c (gpg_passwd): New.
  (_gpgme_engine_ops_gpg): Register.
* passwd.c (parse_error): New.
  (passwd_status_handler): Use it.

2010-01-07 Marcus Brinkmann  <marcus@g10code.de>

* gpgme-tool.c (result_xml_write_cb_t, struct result_xml_state): New types.
  (MAX_TAGS): New macro.
  (result_init, result_xml_indent, result_xml_tag_start)
  (result_xml_tag_data, result_xml_tag_end, result_add_error)
  (result_add_pubkey_algo, result_add_hash_algo, result_add_keyid)
  (result_add_fpr, result_add_timestamp, result_addSig_mode)
  (result_add_value, result_add_string, result_encrypt_to_xml)
(result_decrypt_to_xml, result_sign_to_xml)
(result_verify_to_xml, result_import_to_xml)
(result_genkey_to_xml, result_keylist_to_xml)
(result_vfs_mount_to_xml): New functions.
(gt_result): Rewritten.

2010-01-05 Werner Koch <wk@g10code.com>

* gpgme-tool.c (gt_passwd, cmd_passwd): New.
  (register_commands): Register.

* gpgme.h.in (gpgme_op_passwd_start, gpgme_op_passwd): New.
  * libgpgme.vers, gpgme.def: Add new functions.
  * passwd.c: New.
  * Makefile.am (main_sources): Add passwd.c
* engine.c, engine.h (_gpgme_engine_op_passwd): New.
* engine-backend.h (struct engine_ops): Add PASSWD.
* engine-gpgsm.c (gpgsm_passwd): New.
  (_gpgme_engine_ops_gpgsm): Register.
  (gpgsm_reset): Reset only if we have a connection.

* gpgme.h.in (GPGME_PK_ECDSA, GPGME_PK_ECDH): New.
* gpgme.c (gpgme_pubkey_algo_name): Add them.

2009-12-22 Marcus Brinkmann <marcus@g10code.de>

* debug.c: Test for TLS, not __GNUC__

2009-12-15 Marcus Brinkmann <marcus@g10code.de>

* assuan-support.c (my.spawn): Calloc, not malloc, the fd_items.

2009-12-10 Werner Koch <wk@g10code.com>

* debug.c (debug_init): Test on sgid process.

2009-12-08 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (LTRCCOMPILE): Refactor with ...
  (RCCOMPILE): ... this new macro.
  (SUFFIXES): Add .lo.
  (gpgme_res_ldflag): Removed.
  (gpgme_res): Use libtool object file name here.
  (libgpgme_la_LDFLAGS): Remove gpgme_res_ldflag usage.
  (libgpgme_la_LIBADD): Add gpgme_res.

* ath.c (ath_self) [HAVE_W32_SYSTEM]: Fix typo.
2009-12-02 Werner Koch <wk@g10code.com>

* gpgconf.c (gpgme_conf_arg_release): No return in a function returning void. Reported by Wyllys Ingersoll.

2009-12-01 Werner Koch <wk@g10code.com>

* gpgme-tool.c (cmd_getauditlog): Add flag --html.
  (hlp_getauditlog): New.

* gpgme-tool.c (GT_GCC_A_SENTINEL, GT_GCC_APRINTF): New.
  (gt_write_status): Use sentinel.
  (argp_error, log_error): Use printf attribute.
  (argp_parse): Remove extra argument to argp_error.
  (_gt_progress_cb, gt_get_engine_info, gt_get_keylist_mode)
  (gt_result): Add NULL arg.

2009-11-26 Marcus Brinkmann <marcus@g10code.de>

* opassuan.c (opassuan_start): Allocate result structure before beginning operation.

2009-11-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme-tool.c (gpgme_server): Use assuan_fd_t and assuan_fdopen on fds.

2009-11-13 <wk@g10code.com>

* sign.c (_gpgme_sign_status_handler): Handle SIG.CreatedSeen.
  * engine-uiserver.c (uiserver_sign): Make sending SENDER optional.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* op-support.c (_gpgme_op_reset): Instead of last change, only set sub protocol if it is not the default.

2009-11-10 Werner Koch <wk@g10code.com>

* op-support.c (_gpgme_op_reset): Ignore GPG_ERR.NOT_IMPLEMENTED while setting the sub protocol.

* engine-uiserver.c (uiserver_new): Pass fdpassing flag to assuan_socket_connect.
  (set_recipients): Replace fingerprint by user id.

* engine-gpgsm.c (set_recipients): Fix non-terminating loop in case of a missing key.
2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_new): Set default sub protocol.
* gpgme-tool.c: Implement get sub protocol.

* gpgme.h.in (gpgme_get_sub_protocol): Add prototype.
* gpgme.def, libgpgme.vers: Add gpgme_get_sub_protocol.
* context.h (struct gpgme_context): New member sub_protocol.
* gpgme.c (gpgme_set_sub_protocol): Set CTX->sub_protocol.
(gpgme_set_sub_protocol): New function.
* op-support.c (_gpgme_op_reset): Set sub protocol.

* Makefile.am (uiserver_components): New variable.
(main_sources): Add it.
* ops.h, key.c (_gpgme_key_append_name): Take CONVERT argument, implement it. Adjust callers.
(gpgme_key_from_uid): New function.
* gpgme.h.in (gpgme_protocol_t): Add GPGME_PROTOCOL_DEFAULT.
(gpgme_encrypt_flags_t): Add GPGME_ENCRYPT_PREPARE,
GPGME_ENCRYPT_EXPECT_SIGN.
(gpgme_set_sub_protocol, gpgme_key_from_uid): New functions.
* libgpgme.vers, gpgme.def: Add new functions.
* gpgme.c (gpgme_set_protocol): Add UIServer protocol.
(gpgme_set_sub_protocol): New function.
(gpgme_get_protocol_name): Add UIServer and default protocol.
* assuan-support.c: Return correct error values, implement socketpair for POSIX.
* priv-io.h, posix-io.c, w32-io.c, w32-glib-io.c,
w32-qt-io.cpp (_gpgme_io_spawn): Add ATFORK and ATFORKVALUE arguments. Implement it for POSIX. Adjust all callers.
* engine.h, engine-backend.h (_gpgme_engine_set_protocol)
* engine.c (engine_ops, gpgme_get_engine_info): Add UIServer engine.
(_gpgme_engine_set_protocol, _gpgme_engine_op_decrypt_verify): New function.
* decrypt-verify.c (decrypt_verify_start): Call
_gpgme_engine_op_decrypt_verify.
* util.h, posix-util.c,
w32-util.c (_gpgme_get_uiserver_socket_path): New function.
* engine-gpgsm.c (gpgsm_set_fd): Fix _gpgme_io_pipe invocation.
* gpgme-tool.c: Some support for UIServer protocol.

2009-11-09 Marcus Brinkmann <marcus@g10code.de>
2009-11-06 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Close server side FDs.

2009-11-05 Marcus Brinkmann <marcus@g10code.de>

* engine-g13.c (struct engine_g13): Remove members RESULT_CB and
  RESULT_CB_VALUE.
  (g13_assuan_simple_command, status_handler): Don't use those anymore.
  (g13_transact): Remove them from argument list, too.
* vfs-mount.c (_gpgme_vfs_mount_status_handler): New function.
  (_gpgme_op_vfs_mount): Pass it to transact.

* engine-assuan.c (llass_new): Update use of assuan_socket_connect.
* engine-gpgsm.c (gpgsm_new): Update use of assuan_pipe_connect.
* engine-g13.c (g13_new): Likewise.

* w32-io.c (_gpgme_io_spawn): Implement this flag.
* posix-io.c (_gpgme_io_spawn): Likewise.
* w32-glib-io.c (_gpgme_io_spawn): Likewise.
* assuan-support.c (my_spawn): Set this flag.

* decrypt.c (gpgme_op_decrypt_start): Fix use of debug macro.
* decrypt-verify.c (gpgme_op_decrypt_verify_start): Likewise.
* delete.c (gpgme_op_delete_start): Likewise.
* edit.c (gpgme_op_edit_start, gpgme_op_card_edit_start): Likewise.
* encrypt.c (gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (gpgme_op_encrypt_sign_start): Likewise.
* export.c (gpgme_op_export_start, gpgme_op_export_ext_start)
  (gpgme_op_export_keys_start, gpgme_op_export_keys): Likewise.
* genkey.c (gpgme_op_genkey_start): Likewise.
* getauditlog.c (gpgme_op_getauditlog_start): Likewise.
* import.c (gpgme_op_import_start, gpgme_op_import_keys_start): Likewise.
* opassuan.c (gpgme_op_assuan_transact_start): Likewise.
* sign.c (gpgme_op_sign_start): Likewise.
* verify.c (gpgme_op_verify_start): Likewise.
* vfs-create.c (gpgme_op_vfs_create): Likewise.
* vfs-mount.c (gpgme_op_vfs_mount): Likewise.
2009-11-04 Marcus Brinkmann <marcus@g10code.de>

* ath.h (ath_self): New prototype. Include <stdint.h>
* ath.c, ath-PTH.c, ath-thread.c (ath_self): New function.
* debug.h: Rewrite most macros to beautify debug output.
  (_gpgme_debug_buffer): Remove tagname and tag argument.
  (_gpgme_debug_frame_begin, _gpgme_debug_frame_end): New prototypes.
* debug.c: Include <time.h>. Don't include assuan.h.
  (frame_nr, FRAME_NR): New thread-specific variable and macro.
  (debug_init): Do not initialize assuan. Call _gpgme_debug after
  initialization instead using printf directly.
  (_gpgme_debug): Do not call debug_init (we now ensure proper
  initialization by user). Add timestamp and thread/process ID.
  (_gpgme_debug_buffer): Do not take tagname and tag argument.
  (_gpgme_debug_frame_begin, _gpgme_debug_frame_end): New functions.
* version.c (gpgme_check_version_internal, gpgme_check_version):
  Fix debug string. Do not initialize assuan.
* posix-io.c (get_max_fds): Use 0 not NULL (nicer debug output).

2009-11-04 Werner Koch <wk@g10code.com>

* gpgme-tool.c (register_commands): Add HELP feature.

2009-11-03 Werner Koch <wk@g10code.com>

* gpgme.h.in (GPGME_PROTOCOL_UISERVER): New.

2009-11-03 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (main_sources): Change g13.c to vfs-mount.c. Add
  vfs-create.c
* vfs-create.c: New file.
* g13.c: Renamed to ...
* vfs-mount.c: ... this new file.
* gpgme.h.in (gpgme_op vfs_create): New prototype.
* gpgme.def, libgpgme.vers: Add gpgme_op vfs_create.
* gpgme-tool.c (gt vfs_create, cmd vfs_create): New functions.
  (register_commands): Add VFS_CREATE and CREAT.

2009-11-02 Marcus Brinkmann <marcus@g10code.de>

* debug.h (_gpgme_debug_buffer): Make TAG argument const const.
* debug.c (_gpgme_debug_buffer): Likewise.
* gpgme-tool.c (input_notify, output_notify): Adjust type to new
  assuan interface.
* decrypt.c (gpgme_op_decrypt_result): Remove unused variable.
* opassuan.c (gpgme_op assuan_transact): Fix return value.
2009-10-30 Marcus Brinkmann <marcus@g10code.de>

  (gpgme_tool_LDADD): New variable.
* gpgme-tool.c: New file.
* ops.h (_gpgme_sig_notation_clearm _gpgme_signers_clear): New
  prototypes.
* gpgme.c (gpgme_set_protocol): Allow GPGME_PROTOCOL_GPGCONF (when
  had that gone missing?).
  (_gpgme_sig_notation_clear): New function without debug output.
  (gpgme_release): Call it and _gpgme_signers_clear.
* signers.c (_gpgme_signers_clear): New function without debug output.
* g13.c (gpgme_op_vfs_mount): Add debug output.
* assuan-support.c (my_spawn): Allow fd_child_list to be NULL.
* conversion.c (_gpgme_encode_percent_string): Fix infinite loop.
* debug.h: Put tag in front of debug lines, should make for nicer
  output.
* engine-assuan.c (Ilass_new): Use our new system hooks for libassuan.
* engine-g13.c (g13_new): Remove redundant assuan context allocation.
* version.c (gpgme_check_version_internal): Delay debug output
  until after gpgme_check_version was called.

2009-10-28 Marcus Brinkmann <marcus@g10code.de>

* signers.c, encrypt-sign.c, encrypt.c, delete.c, keylist.c,
  edit.c, import.c, export.c: Fix last change in debug output.

2009-10-27 Marcus Brinkmann <marcus@g10code.de>

* edit.c (gpgme_op_edit_start, gpgme_op_edit)
  (gpgme_op_card_edit_start, gpgme_op_card_edit): Add debug output.
* encrypt-sign.c (gpgme_op_encrypt_sign_start)
  (gpgme_op_encrypt_sign): Likewise.
* encrypt.c (gpgme_op_encrypt_start, gpgme_op_encrypt)
  (gpgme_op_encrypt_result): Likewise.
* export.c (gpgme_op_export_start, gpgme_op_export)
  (gpgme_op_export_ext_start, gpgme_op_export_ext)
  (gpgme_op_export_keys_start, gpgme_op_export_keys): Likewise.
* genkey.c (gpgme_op_genkey_start, gpgme_op_genkey)
  (gpgme_op_genkey_result): Likewise.
* getauditlog.c (gpgme_op_getauditlog_start)
  (gpgme_op_getauditlog): Likewise.
* import.c (gpgme_op_import_result, gpgme_op_import_start)
  (gpgme_op_import): Likewise.
* keylist.c (gpgme_op_keylist_result, keylist_colon_handler)
  (gpgme_op_keylist_start, gpgme_op_keylist_ext_start)
  (gpgme_op_keylist_next, gpgme_op_keylist_end, gpgme_get_key): Likewise.
* opassuan.c (gpgme_op_assuan_transact_start)
  (gpgme_op_assuan_transact_ext, gpgme_op_assuan_result)
  (gpgme_op_assuan_transact): Likewise.
* signers.c (gpgme_signers_add, gpgme_signers_clear): Likewise.
* trustlist.c (gpgme_op_trustlist_start)
  (gpgme_op_trustlist_next, gpgme_op_trustlist_end): Likewise.
* verify.c (gpgme_op_verify_start, gpgme_op_verify)
  (gpgme_op_verify_result): Likewise.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (struct gpgme_io_event_done_data)
  (gpgme_io_event_done_data_t): New types.
  (struct _gpgme_op_assuan_result): Deprecate the err member.
  (gpgme_op_assuan_result): Deprecate (for now).
  (gpgme_op_assuan_transact_ext): New prototype.
  (gpgme_op_assuan_transact): Deprecate.
  (struct _gpgme_op_g13_result): Replace with ...
  (gpgme_op_g13_mount_result): ... this.
  (gpgme_op_g13_mount): Remove.
* gpgme.def (gpgme_op_assuan_transact_ext, gpgme_wait_ext)
  (gpgme_op_vfs_mount_result, gpgme_op_vfs_mount): New.
  (gpgme_op_g13_mount): Remove.
* libgpgme.vers: Likewise.
* engine-backend.h (struct engine_ops): Remove RESULT_CB and
  RESULT_CB_VALUE args in opassuan_transact member. Add CANCEL_OP
  member.
* ops.h (_gpgme_cancel_with_err, _gpgme_wait_on_condition): Add
  OP_ERR argument.
  (_gpgme_wait_one_ext): New prototype.
* context.h (ctx_op_data_id_t): Add OPDATA_VFS_MOUNT.
* engine-g13.c (g13_cancel_op): New function.
  (parse_status): Remove declaration.
  (g13_assuan_simple_command): Do nothing with status lines for now.
  (status_handler): Update opaque value access.
  (_gpgme_engine_ops_g13): Add new cancel_op member.
* gpgme.c (_gpgme_cancel_with_err): Add new parameter OP_ERR.
  Handle operational errors.
  (gpgme_cancel, gpgme_io_read, gpgme_io_write): Add debug output.
* data.c (_gpgme_data_inbound_handler)
  (_gpgme_data_outbound_handler): Adjust opaque value access.
* engine-gpg.c (command_handler, status_handler)
  (colon_line_handler): Likewise.
* engine-gpgsm.c (status_handler): Likewise.
* engine-gpg.c (_gpgme_engine_ops_gpg): Add cancel_op member.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm): Likewise.
* g13.c: Rewritten (and will be rewritten again).
* engine.h (_gpgme_engine_op_assuan_transact): Remove result_cb and result_cb_value parameters from prototype.
(_gpgme_engine_cancel_op): New prototype.
* engine.c (engine_ops) ![ ENABLE_ASSUAN]: Add missing comma.
(_gpgme_engine_op_assuan_transact): Remove result_cb and result_cb_value parameter.
(_gpgme_engine_cancel_op): New function.
* wait.h (_gpgme_run_io_cb): Add new argument OP_ERR.
(struct io_cb_data): New struct to pass opaque data and get a op_err return value. Needed because we can't modify I/O callback handler signature because it is exposed to the user.
* wait.c (_gpgme_run_io_cb): Add OP_ERR parameter. Handle operational errors.
* wait-user.c (_gpgme_user_io_cb_handler): Handle operational errors.
* wait-private.c (_gpgme_wait_on_condition): New argument to retrieve the operational result. Handle operational errors in session based protocols.
(_gpgme_wait_one_ext): New function.
(_gpgme_wait_one): Pass argument in invocation of _gpgme_wait_on_condition.
* wait-global.c (struct ctx_list_item): Add member OP_ERR.
(ctx_done): New argument OP_ERR.
(ctx_wait): New argument OP_ERR.
(gpgme_wait_ext): New function based on gpgme_wait but handling operational errors.
(gpgme_wait): Implement in term of gpgme_wait_ext.
* keylist.c (gpgme_op_keylist_next): Pass argument in invocation of _gpgme_wait_on_condition.
* trustlist.c (gpgme_op_trustlist_next): Pass argument in invocation of _gpgme_wait_on_condition.
* engine-assuan.c (struct engine_llass): Replace members RESULT_CB and RESULT_CB_VALUE by LAST_OP_ERR.
(_gpgme_engine_assuan_last_op_err): Add this hack function.
(llass_cancel_op): New function.
(_gpgme_engine_llass_ops): Add cancel_op member.
(llass_status_handler): Update opaque value access.
(llass_transact): Remove RESULT_CB and RESULT_CB_VALUE arguments.
* opassuan.c: Move compat hacks to the end of file.
(opassuan_start): Do not set OPD->result.err.
Do not pass RESULT_Cb and CTX to _gpgme_engine_op_assuan_transact.
(gpgme_op_assuan_transact_ext): New function.

* debug.h (DEBUG_GLOBAL): New debug level.
* conversion.c (gnupg_errors, _gpgme_map_gnupg_error): Removed.
* data-user.c (gpgme_data_new_from_cbs): Add debug output.
* data-fd.c (gpgme_data_new_from_fd): Likewise.
* data-stream.c (gpgme_data_new_from_stream): Likewise.
* decrypt.c (gpgme_op_decrypt_result, gpgme_op_decrypt_start).
  (gpgme_op_decrypt): Likewise.
* delete.c (gpgme_op_delete_start, gpgme_op_delete): Likewise.
* decrypt-verify.c (gpgme_op_decrypt_verify_start).
  (gpgme_op_decrypt_verify): Likewise.
* sign.c (gpgme_op_sign_result): Fix debug message.
* data-mem.c (gpgme_data_new): Improve debug output.
* verify.c (parse_trust): Use atoi instead of
  _gpgme_map_gnupg_error.
* decrypt.c (_gpgme_decrypt_status_handler): Likewise.

2009-10-22 Marcus Brinkmann  <marcus@g10code.de>

* Makefile.am: Remove @NETLIBS@ from LIBADDs.
  (g13_components): New variable.
  (main_sources): Add $(g13_components).
* g13.c, engine-g13.c: New files.
* engine.c (engine_ops): Check for assuan for assuan engine, add
  g13 engine.
* util.h (_gpgme_get_g13_path, _gpgme_encode_percent_string): New
  prototypes.
* conversion.c (_gpgme_encode_percent_string): New function.
* gpgme.h.in (gpgme_protocol_t): Add GPGME_PROTOCOL_G13.
  (struct _gpgme_op_g13_result, gpgme_g13_result_t): New types.
  (gpgme_op_g13_mount): New function.
* gpgme.def, libgpgme.vers: Add gpgme_op_g13_mount.
* posix-util.c (_gpgme_get_g13_path): New function.
* w32-util.c (_gpgme_get_g13_path): New function.
* engine-backend.h (_gpgme_engine_ops_g13): New declaration.

2009-10-20 Marcus Brinkmann  <marcus@g10code.de>

* gpgme-config.in (netlibs): Remove.
  (assuan_cflags, assuan_libs): Add.

* Makefile.am (assuan_cppflags, assuan_libobjs): Removed.
  (gpgsm_components): Move engine-assuan.c to ...
  (assuan_components): ... this new variable.
  (main_sources): Add this new variable.
  (AM_CPPFLAGS): Remove $(assuan_cppflags).
  (AM_CFLAGS): Add @LIBASSUAN_CFLAGS@.
  (libgpgme_la_DEPENDENCIES, libgpgme_pth_la_DEPENDENCIES)
  (libgpgme_glib_la_DEPENDENCIES, libgpgme_qt_la_DEPENDENCIES)
  (libgpgme_pthread_la_DEPENDENCIES): Remove $(assuan_libobjs).
  (libgpgme_la_LIBADD, libgpgme_pth_la_LIBADD)
  (libgpgme_glib_la_LIBADD, libgpgme_qt_la_LIBADD)
* priv-io.h [[HAVE_W32_SYSTEM]: Declare _gpgme_io_recvmsg, _gpgme_io_sendmsg, _gpgme_io_waitpid.
* engine-backend.h: Define with [ENABLE_ASSUAN] instead of [ENABLE_GPGSM].
* util.h (ENABLE_ASSUAN): Declare _gpgme_assuan_system_hooks, _gpgme_assuan_malloc_hooks, _gpgme_assuan_log_cb.
* engine-gpgsm.c: Don't map assuan error codes. Use assuan_release instead of assuan_disconnect.
* engine-assuan.c: Use assuan_release instead of assuan_disconnect.

2009-10-07 <wk@g10code.com>

* priv-io.h [W32]: Include windows.h instead of sys/socket.h.

2009-08-06 Werner Koch <wk@g10code.com>

* op-support.c (_gpgme_parse_inv_recp): Allow for no fingerprint.

* engine-gpgsm.c (gpgsm_sign): Hook up the status func for the SIGNER command.
* gpgme.h.in (GPGME_STATUS_INV_SGNR, GPGME_STATUS_NO_SGNR): New.
* sign.c (op_data_t): Add fields IGNORE_INV_RECP and INV_SGNR_SEEN.
  (_gpgme_op_sign_init_result): Factor code out to ...
  (sign_init_result): .. new. Init new fields.
  (sign_start): Use sign_init_result.
  (_gpgme_sign_status_handler): Take care of the new INV_SGNR.
Return an error if no signature has been created.

2009-07-07 Werner Koch <wk@g10code.com>

* engine-gpgsm.c (struct engine_gpgsm): Add fields input_helper_data and input_helper_memory.
  (close_notify_handler): Release these new fields.
  (gpgsm_import): Implement the keyarray feature.

* engine-gpg.c (gpg_import): Actually return GPG_ERR_INV_VALUE.

* engine-gpgsm.c (gpgsm_import): Return an error for unknown data encodings.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>
* debug.h: Everywhere, use %p instead of 0x%x to print pointer.

[HAVE_STDINT_H]: Include <stdint.h>.

(_TRACE, TRACE, TRACE0, TRACE1, TRACE2, TRACE3, TRACE6): Cast tag
to (uintptr_t) before casting it to (void*) to silence GCC
warning.

* gpgme.h.in (_GPGME_DEPRECATED_OUTSIDE_GPGME): New macro.
* sign.c (_GPGME_IN_GPGME): Define it.
* keylist.c (_GPGME_IN_GPGME): Define it.

* debug.c (_gpgme_debug_begin, _gpgme_debug_add): Handle error in
vasprintf and asprintf.

* priv-io.h: Include <sys/socket.h>. Declare _gpgme_io_connect.

2009-06-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (GPGME_CONF_PATHNAME): Revert last change, it's
back! (GPA still uses it...).

* gpgme.def: Fix stupid typo.
* w32-io.c (_gpgme_io_pipe): Add missing declaration.

* gpgme.h.in (GPGME_CONF_PATHNAME): Remove obsolete macro.

* w32-io.c (_gpgme_io_pipe): Allocate reader/writer thread right
away.
(_gpgme_io_read, _gpgme_io_write, _gpgme_io_select)
(_gpgme_io_dup): Never allocate threads here.
(find_writer, find_reader): Check return value of thread creation
function.

* context.h (CTX_OP_DATA_MAGIC): New macro.
(struct ctx_op_data): New member MAGIC.
* op-support.c (_gpgme_op_data_lookup): Initialize magic.
* gpgme.c (gpgme_result_unref, gpgme_result_ref): Check magic.

2009-06-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_result_unref): Hot fix to release a lock.

* gpgme.c (result_ref_lock): New global variable.
(gpgme_result_ref, gpgme_result_unref): use it.

2009-06-16 Werner Koch <wk@g10code.com>

* version.c: Include stdlib.h.
* gpgme.h.in (gpgme_data_encoding_t): Add GPGME_DATA_ENCODING_URL, GPGME_DATA_ENCODING_URLESC, GPGME_DATA_ENCODING_URL0.
* data.c (gpgme_data_set_encoding): Adjust for new values.
* engine-gpg.c (string_from_data): New.
  (gpg_import): Implement --fetch-key feature.

* gpgme.h.in (gpgme_op_export_keys_start, gpgme_op_export_keys): New.
* gpgme.def, libgpgme.vers: Add them.
* export.c (gpgme_op_export_keys_start, gpgme_op_export_keys): New.
  (export_keys_start): New.

* gpgme.h.in (gpgme_export_mode_t, GPGME_EXPORT_MODE_EXTERN): New.
  (gpgme_op_export_start, gpgme_op_export, gpgme_op_export_ext_start)
  (gpgme_op_export_ext): Change arg RESERVED to MODE of new
  compatible type.
* export.c (gpgme_export_ext_start, gpgme_op_export)
  (gpgme_op_export_ext_start, gpgme_op_export_ext): Ditto.
  (export_start): Ditto.
* engine.c (_gpgme_engine_op_export): Ditto.
* engine-backend.h (struct engine_ops): Ditto.
* engine-gpgsm.c (gpgsm_export, gpgsm_export_ext): Ditto.
* engine-gpg.c (gpg_export, gpg_export_ext): Ditto. Implement
  mode EXTERN.
  (gpg_export, gpg_export_ext): Factor common code out to ..
  (export_common): .. this.

* gpgme.h.in (gpgme_op_import_keys_start, gpgme_op_import_keys): New.
* gpgme.def, libgpgme.vers: Add them.
* import.c (gpgme_op_import_keys_start, gpgme_op_import_keys): New.
  (_gpgme_op_import_keys_start): New.
* engine.c (_gpgme_engine_op_import): Add arg KEYARRAY.
* engine-backend.h (struct engine_ops): Ditto.
* engine-gpg.c (gpg_import): Ditto. Implement it.

2009-06-15 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (gpgme_result_ref, gpgme_result_unref): Add
  prototypes.
* gpgme.def, libgpgme.vers (gpgme_result_ref, gpgme_result_unref):
  Add these.
* context.h (struct ctx_op_data): Add member "references".
* gpgme.c (gpgme_result_ref, gpgme_result_unref): New functions.
  (_gpgme_release_result): Use gpgme_result_unref.
* op-support.c (_gpgme_op_data_lookup): Initialize references.

2009-06-12 Werner Koch <wk@g10code.com>
* gpgme-w32spawn.c (translate_get_from_file): Parse optional spawn flags. Add new arg R_FLAGS. Fix segv on file w/o LF.
(truncate_handles): Add new arg R_FLAGS. Avoid possible segv.
(main): Pass flags for my_spawn.
(my_spawn): Add arg FLAGS and implement AllowSetForegroundWindow.

* w32-io.c (_gpgme_io_spawn): Add arg FLAGS and implement it.
* w32-glib-io.c (_gpgme_io_spawn): Ditto.
* w32-qt-io.cpp (_gpgme_io_spawn): Ditto.
* posix-io.c (_gpgme_io_spawn): Add dummy arg FLAGS.
* engine-gpg.c (start): Call spawn with new flag.

* w32-util.c (_gpgme_allow_set_foreground_window): Rename to _gpgme_allow_set_foreground_window. Change all callers.
* posix-util.c (_gpgme_allow_set_foreground_window): Ditto.

2009-06-10 Werner Koch <wk@g10code.com>

* w32-util.c (_gpgme_allow_set_foreground_window): Add trace support.

2009-06-09 Werner Koch <wk@g10code.com>

* engine-gpg.c (gpg_io_event): Test for cmd.fd.

* version.c (gpgme_check_version_internal): Make result const.

* gpgme.c: Include priv-io.h.
* libgpgme.vers (GPGME_1.1): Add them.
* gpgme.def: Ditto.

* Makefile.am (main_sources): Remove gpgme.h.
  (include_HEADERS): Rename to nodist_include_HEADERS so that a
  VPATH build won't use the distributed one.

* util.h (GPG_ERR_NOT_OPERATIONAL): Define.

2009-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (gpgme_check_version_internal): New prototype.
  (gpgme_check_version): New macro, overriding function of the same
  name.
* libgpgme.vers, gpgme.def: Add gpgme_check_version_internal.o
* context.h (_gpgme_selftest): New variable declaration.
* version.c: Include "context.h".
  (gpgme_check_version): Set _gpgme_selftest on success.
(gpgme_check_version_internal): New function.
* gpgme.c (_gpgme_selftest): Define it.
(gpgme_new): Check the selftest result.

2009-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (gpgme_encrypt_flags_t): Add
  GPGME_ENCRYPT_NO_ENCRYPT_TO.
* engine-gpg.c (gpg_encrypt): Pass --no-encrypt-to to gpg if
  GPGME_ENCRYPT_NO_ENCRYPT_TO flag is set.

2009-05-14 Werner Koch <wk@g10code.com>

* gpgme.h.in (gpgme_status_code_t): Explicitly initialize for
  better maintainability and to help debugging.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in: Add compile time check for _FILE_OFFSET_BITS.

2009-04-15 Marcus Brinkmann <marcus@g10code.de>

  (find_channel): Drop CREATE argument.
  (new_dummy_channel_from_fd, new_channel_from_fd)
  (new_channel_from_socket): New functions.
  (_gpgm_io_fd2str): Implement for sockets.
  (_gpgme_io_write, _gpgme_io_read): Translate EAGAIN errors
    correctly.
  (_gpgme_io_pipe): Fix for new channel bookkeeping.
  (_gpgme_io_close, _gpgme_io_dup): Likewise.
* w32-io.c (MAX_READERS, MAX_WRITERS): Bump up to 40.
* version.c [HAVE_W32_SYSTEM]: Include "windows.h.
  (do_subsystem_inits) [HAVE_W32_SYSTEM]: Call WSAStartup.
* engine-assuan.c (llass_status_handler): Ignore EAGAIN errors.

2009-03-18 Werner Koch <wk@g10code.com>

* gpgme.h.in (GPGME_KEYLIST_MODE_EPHEMERAL): New.
* engine-gpgsm.c (gpgsm_keylist): Send new option.
2009-03-13 Werner Koch <wk@g10code.com>

* gpgme-config.in: Make sure locale is set to C.

2009-02-24 Werner Koch <wk@g10code.com>

* gpgme.h.in (struct _gpgme_op_assuan_result): New.
  (gpgme_assuan_result_t): New.
  (gpgme_op_assuan_result): Change return type.
  (struct _gpgme_assuan_sendfnc_ctx)
  (gpgme_assuan_sendfnc_ctx_t, gpgme_assuan_sendfnc_t): Remove.
  (gpgme_assuan_inquire_cb_t): Changed.
* opassuan.c (op_data_t): Make use of a result structure.
  (gpgme_op_assuan_result): Change return type.
  (opassuan_start): Use result structure.
  (result_cb): Ditto.
* engine-assuan.c (struct _gpgme_assuan_sendfnc_ctx): Remove.
  (inquire_cb_sendfnc): Remove.
  (lass_status_handler): Allow sending a CANCEL from the inquire CB.

2009-02-04 Werner Koch <wk@g10code.com>

* w32-glib-io.c (_gpgme_io_spawn): Make ARGV argument const to match prototype.
* w32-qt-io.cpp (_gpgme_io_spawn): Ditto.

2009-02-03 Werner Koch <wk@g10code.com>

* gpgme.h.in (struct _gpgme_subkey): Add fields IS_CARDKEY and CARD_NUMBER.
* key.c (gpgme_key_unref): Release field CARD_NUMBER.
* keylist.c (keylist_colon_handler): Factor common code out to ...
  (parse_sec_field15): New. Set card number.

2009-01-26 Werner Koch <wk@g10code.com>

* opassuan.c, dirinfo.c, engine-assuan.c: New.
  * Makefile.am: Add them.
  * engine-backend.h: Add _gpgme_engine_ops_assuan.
  (struct engine_ops): Add field OPASSUAN_TRANSACT. Update all engine initializers.
  * Makefile.am (gpgsm_components): Add engine-assuan.c.
  * gpgme.h.in (gpgme_protocol_t): Add GPGME_PROTOCOL_ASSUAN.
    (gpgme_assuan_data_cb_t, gpgme_assuan_sendfnc_ctx_t)
    (gpgme_assuan_inquire_cb_t, gpgme_assuan_status_cb_t): New.
    (gpgme_op_assuan_transact_start, gpgme_op_assuan_transact): New.
* gpgme.c (gpgme_get_protocol_name): Ditto.
  (gpgme_set_protocol): Support it.
* engine.c (gpgme_get_engine_info): Ditto.
  (engine_ops): Register it.
  (_gpgme_engine_op_assuan_transact): New.
* libgpgme.vers (gpgme_op_assuan_transact_start)
  (gpgme_op_assuan_transact): New.
* gpgme.def (gpgme_op_assuan_transact_start)
  (gpgme_op_assuan_transact): New.
* engine-backend.h (struct engine_ops): Add GET_HOME_DIR and initialize to NULL for all engines.
* engine.c (engine_get_home_dir): New.
  (gpgme_get_engine_info): Use it.
  (_gpgme_set_engine_info): Use it.
* engine.h (engine_assuan_result_cb_t): New.
* context.h (ctx_op_data_id_t): Add OPDATA_ASSUAN.

* util.h (GPG_ERR_UNFINISHED): Define if not yet defined.

* version.c (gpgme_check_version): Protect trace arg against NULL.

2009-01-19 Werner Koch <wk@g10code.com>

* rungpg.c: Rename to engine-gpg.c
* Makefile.am (main_sources): Ditto.

2008-12-03 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (status-table.h): Use $(builddir) to find gpgme.h.

2008-11-18 Werner Koch <wk@g10code.com>


* decrypt.c (_gpgme_decrypt_status_handler): Use _gpgme_map_gnupg_error to parse the error code for decrypt.algorithm.

2008-10-30 Marcus Brinkmann <marcus@g10code.de>

* wait-private.c (_gpgme_wait_on_condition): Remove unused variable IDX.
  * wait-global.c: Include ops.h to silence gcc warning.
  (_gpgme_wait_global_event_cb): Pass error value directly.
  * wait-user.c: Include ops.h to silence gcc warning.

* posix-io.c (_gpgme_io_spawn): Make ARGV argument const to silence gcc warning. Cast argument to execv to silence warning.
* w32-io.c (_gpgme_io_spawn): Likewise.
* priv-io.h (_gpgme_io_spawn): Likewise for prototype.

2008-10-24 Werner Koch <wk@g10code.com>

* rungpg.c (gpg_keylist_preprocess): Escape backslashes too.

2008-10-23 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_keylist_preprocess): Convert percent escaped string to C coded string.

2008-10-20 Werner Koch <wk@g10code.com>

* Makefile.am (EXTRA_DIST): Add gpgme.h.in.
* gpgme.h: Rename to gpgme.h.in.
* gpgme.h.in (GPGME_VERSION): Use autoconf substitution.

* posix-io.c: Include sys/uio.h. Fixes bug #818.

2008-10-18 Marcus Brinkmann <marcus@g10code.com>

* w32-util.c (find_program_in_registry): Don't define. (_gpgme_get_gpg_path, _gpgme_get_gpgsm_path) (_gpgme_get_gpgconf_path): Do not check for fooProgram in the registry anymore. It is now no longer possible to overwrite the default location in that way.

2008-10-17 Werner Koch <wk@g10code.com>

* w32-glib-io.c (_gpgme_io_fd2str): Use "%d" and not "%ld" to work around a bug in mingw32.

2008-09-23 Marcus Brinkmann <marcus@g10code.com>

* gpgme.c (gpgme_sig_notation_clear): Clear CTX->sig_notations. Submitted by "Daniel Mueller" <daniel@danm.de>

2008-09-16 Marcus Brinkmann <marcus@g10code.com>

* rungpg.c (gpg_new): Don't use errno with ttyname_r.

2008-08-11 Marcus Brinkmann <marcus@g10code.com>

* rungpg.c (gpg_cancel): Remove cmd fd before status fd.
* wait-private.c (_gpgme_wait_on_condition): Use _gpgme_cancel_with_err.
* wait-user.c (_gpgme_user_io_cb_handler): Likewise.
* wait-global.c (_gpgme_wait_global_event_cb, gpgme_wait): Likewise.

2008-08-08 Marcus Brinkmann <marcus@g10code.com>

* rungpg.c (command_handler): Remove I/O callback on error, too.

2008-06-29 Marcus Brinkmann <marcus@g10code.com>

* gpgme.c (gpgme_cancel_async): Remove unused variable.

2008-06-27 Marcus Brinkmann <marcus@g10code.de>

* libgpgme.vers: Add gpgme_cancel_async.
* gpgme.def: Likewise.

* context.h: Include "sema.h".
  (struct gpgme_context): New members lock and canceled.
* gpgme.c (gpgme_new): Initialize lock.
  (gpgme_release): Destroy lock.
* gpgme-cancel_async): New function.
* op-support.c (_gpgme_op_reset): Reset the canceled flag.
* wait-global.c (gpgme_wait): Check cancel flag before processing any I/O callbacks.
* wait-private.c (_gpgme_wait_on_condition): Likewise.
* wait-user.c (_gpgme_user_io_cb_handler): Likewise.

2008-06-26 Werner Koch <wk@g10code.com>

* w32-util.c (_gpgme_mkstemp): Replace sprint by stpcpy.
  (mkstemp): Need to use GetSystemTimeAsFileTime for better compatibility.

2008-06-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme-w32spawn.c: New file.
* Makefile.am (libexec_PROGRAMS) [HAVE_W32_SYSTEM]: New variable with gpgme-w32spawn.
* engine-gpgsm.c (gpgsm_new): Use server translated handles.
  (gpgsm_set_locale): Return early if locale value is NULL.
* util.h (_gpgme_mkstemp) (_gpgme_get_w32spawn_path) [HAVE_W32_SYSTEM]: New function prototypes.
* w32-util: Include <stdint.h>, <sys/stat.h> and <unistd.h>.
  (letters, mkstemp, _gpgme_mkstemp, _gpgme_get_w32spawn_path): New functions.
* rungpg.c (gpg_decrypt, gpg_encrypt, gpg_encrypt_sign)
  (gpg_genkey, gpg_import, gpg_verify, gpg_sign): Pass data over
  special filename FD rather than stdin.
(struct arg_and_data_s): Add member ARG_LOCP.
(struct fd_data_map_s): Add member ARG_LOC.
(struct engine_gpg): Add member ARG_LOC to status and colon.
(_add_arg, add_arg_with_locp): New function.
(add_arg_ext): Reimplement in terms of _add_arg.
(gpg_new): Remember argument location for status FD.
(build_argv): Set argument location if requested. Also set
  argument location of fd_data_map for data items.
(start): Adjust caller of _gpgme_io_spawn.
* priv-io.h (struct spawn_fd_item_s): Add members peer_name and
  arg_loc.
(_gpgme_io_spawn): Remove parent fd list argument.
* posix-io.c (get_max_fds): New function.
(_gpgme_io_dup): Add tracing.
(_gpgme_io_spawn): Remove parent fd list. Change meaning of child
  fd list to contain all child fds that should be inherited. Close
  all other file descriptors after fork.
* w32-io.c, w32-glib-io.c, w32-qt-io.c(_gpgme_io_spawn): Remove
  parent fd list. Change meaning of child fd list to contain all
  child fds that should be inherited. Do not inherit any file
  descriptors, but DuplicateHandle them. Spawn process through
  wrapper process. Provide wrapper process with a temporary file
  containing handle translation data. Return translated handle
  names.
* w32-io.c (reader): Add more tracing output.
(_gpgme_io_read): Likewise.
* engine-gpgconf.c (gpgconf_read): Adjust caller of
  _gpgme_io_spawn.
* version.c (_gpgme_get_program_version): Likewise.

2008-06-20 Werner Koch <wk@g10code.com>

* engine-gpgconf.c (gpgconf_read): Change ARGV initialization for
  compatibility with old compilers. Fix amount of memmove. Fix
  CR removal.

2008-06-19 Werner Koch <wk@g10code.com>

* gpgme.h (PGPME_CONF_PATHNAME): Replace by GPGME_CONF_FILENAME,
  change all callers and provide compatibility macro.
(gpgme_conf_type_t): Add complex types 34..37.
* engine-gpgconf.c (gpgconf_parse_option, arg_to_data)

2008-06-19 Marcus Brinkmann <marcus@g10code.de>
* engine-gpgconf.c (gpgconf_parse_option): Fix comma detection.

2008-05-09 Werner Koch <wk@g10code.com>

* engine-gpgconf.c (gpgconf_read): Do not pass empty lines to the callback.

2008-05-07 Werner Koch <wk@g10code.com>


* rungpg.c (gpg_keylist, gpg_keylist_ext): Factor common code out to..
  (gpg_build_keylist_options): .. new. Allow combination of extern and intern mode.
  (gpg_new): DFT_TTYNAME is an array, thus check the first character.

2008-05-06 Werner Koch <wk@g10code.com>

* version.c (extract_version_string): New.
  (_gpgme_get_program_version): Use it to allow for suffixes in the version line.

2008-04-28 Werner Koch <wk@g10code.com>

* engine-gpgconf.c (gpgconf_read): Fixed segv. Avoid memmove for each line.

2008-04-22 Marcus Brinkmann <marcus@g10code.de>

* w32-qt-io.cpp, kdpipeiodevice.cpp: New versions from Frank Osterfeld, implement blocking select.

2008-03-11 Marcus Brinkmann <marcus@g10code.de>

* data.c (gpgme_data_read, gpgme_data_write): Retry on EINTR.

2008-03-06 Marcus Brinkmann <marcus@g10code.de>

* key.c (_gpgme_key_add_sig): Terminate UID in case SRC is NULL. Reported by Marc Mutz.

2008-03-05 Marcus Brinkmann <marcus@g10code.de>

* decrypt.c (release_op_data): Release OPD->result.recipients.
* encrypt.c (release_op_data): Release invalid_recipient.
2008-02-15 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgconf.c (gpgconf_read): Fix end-of-line handline.

2008-02-14 Werner Koch <wk@g10code.com>

* w32-io.c (_gpgme_io_spawn): Add arg R_PID to return the pid.
* posix-io.c (_gpgme_io_spawn): Ditto.
* w32-glib-io.c (_gpgme_io_spawn): Ditto.
* w32-qt-io.cpp (_gpgme_io_spawn): Ditto.
* priv-io.h (_gpgme_io_spawn): Adjust prototyp and change all callers.
* rungpg.c (start): Call _gpgme_allow_set_foregound_window.

* w32-util.c (_gpgme_allow_set_foregound_window): New.
* engine-gpgsm.c (default_inq_cb): New.
(gpgsm_new) [W32]: Enable pinentry notifications.
(status_handler): Handle inquiries.

2008-01-30 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version by Frank Osterfeld, fixes race condition.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (map_input_enc): Rename to ...
(map_data_enc): ... this. Also change all callers.
(gpgsm_encrypt, gpgsm_export, gpgsm_export_ext, gpgsm_genkey)
(gpgsm_sign): Set encoding for output.

2008-01-28 Werner Koch <wk@g10code.com>

* keylist.c (gpgme_get_key): Skip duplicated keys. Fixes bug 876.

2008-01-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgconf.c (gpgconf_config_load_cb): Fix program_name field.

2008-01-10 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version from Frank Osterfeld.

* engine-gpgconf.c (gpgconf_config_load_cb2): Handle the flag NO_ARG_DESC.
2008-01-04 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgconf_components): New variable.
(main_sources): Add gpgconf.c.
* gpgme.h (gpgme_protocol_t): New protocol GPGME_PROTOCOL_GPGCONF.
(gpgme_conf_level_t, gpgme_conf_type_t, gpgme_conf_arg_t)
(gpgme_conf_opt_t, gpgme_conf_comp_t, gpgme_conf_arg_new)
(gpgme_conf_arg_release, gpgme_conf_opt_change)
(gpgme_conf_release, gpgme_op_conf_load, gpgme_op_conf_save): New
types.
* gpgconf.c, engine-gpgconf.c: New files.
* engine.h: (_gpgme_engine_op_conf_load,
* op-support.c (_gpgme_op_reset): Ignore not implemented locale
function.
* posix-util.c (_gpgme_get_gpgconf_path): New function.
* w32-util.c (_gpgme_get_gpgconf_path): New function.
* engine-gpgsm.c:
(_gpgme_engine_ops_gpgsm): Add stubs for conf_load and conf_save.
* rungpg.c:
(_gpgme_engine_ops_gpg): Add stubs for conf_load and conf_save.
* gpgme.def: Add new gpgconf related interfaces.
* libgpgme.vers: Likewise.
* util.h (_gpgme_get_gpgconf_path): New prototype.
* gpgme.h (gpgme_protocol_t): Add GPGME_PROTOCOL_GPGCONF.
* engine-backend.h (_gpgme_engine_ops_gpgconf): New prototype.
(struct engine_ops): Add members for conf_load and conf_save.
* engine.c (engine_ops): Add _gpgme_engine_ops_gpgconf.
(_gpgme_engine_op_conf_load,
(_gpgme_engine_op_conf_save): New functions.
(gpgme_get_engine_info): Allow protocol GPGME_PROTOCOL_GPGCONF.

2007-11-28 Marcus Brinkmann <marcus@g10code.de>

* w32-util.c (_gpgme_get_gpg_path, _gpgme_get_gpgsm_path): Search
for installation directory. Remove old fallback default.
(find_program_in_inst_dir): New function.

2007-11-26 Werner Koch <wk@g10code.com>

* engine-gpgsm.c (struct engine_gpgsm): Add field INLINE_DATA and
always reset it before calling start.
(gpgsm_new): Clear it.
(status_handler): Implement it.
(gpgsm_getauditlog) [USE_DESCRIPTOR_PASSING]: Use INLINE_DATA.

2007-11-23 Werner Koch <wk@g10code.com>
* op-support.c (_gpgme_op_reset): Implement a no-reset flag.
* getauditlog.c (getauditlog_start): Use that flag.

2007-11-20 Werner Koch <wk@g10code.com>

* op-support.c (_gpgme_parse_inv_recp): Add new reason code 11.

2007-11-22 Werner Koch <wk@g10code.com>

* gpgme.h (gpgme_op_getauditlog_start, gpgme_op_getauditlog): New.
* libgpgme.vers: Ditto.
* gpgme.def: Ditto.
* getauditlog.c: New.
* engine-backend.h (struct engine_ops): Add member GETAUDITLOG.
* engine-gpgsm.c (gpgsm_getauditlog): New.
(_gpgme_engine_ops_gpgsm): Insert new function.
(gpgsm_new): Try to enable audit log support.
* rungpg.c (_gpgme_engine_ops_gpg): Insert dummy entry.

2007-11-12 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version from Frank Osterfeld.

2007-10-11 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version from Frank Osterfeld.

2007-10-09 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version from Frank Osterfeld and Marc Mutz.

2007-10-05 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp, w32-qt-io.cpp: New versions from Frank Osterfeld.

2007-10-04 Marcus Brinkmann <marcus@g10code.de>


2007-10-02 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp, kdpipeiodevice.moc: New versions.
* w32-qt-io.cpp (_gpgme_io_fd2str): Print actual_fd if available.
(_gpgme_io_dup): Only acquire a reference, do not actually dup.
Submitted by Frank Osterfeld.
* priv-io.h, engine-gpgsm.c: Add comments.
* w32-qt-io.cpp (_gpgme_io_select): Remove code handling frozen FDs.
* w32-glib-io.c (_gpgme_io_close): Always dereference the channel, even if not primary.


2007-09-28 Werner Koch <wk@g10code.com>

* engine-gpgsm.c (iocb_data_t): Add SERVER_FD_STR.
  (gpgsm_new): Set it.
  (gpgsm_set_fd): Use it.

* w32-glib-io.c (find_channel): Add a new primary flag.
  (_gpgme_io_close): Close channel only if primary.
  (_gpgme_io_dup): Put newfd into the table as shallow copy.

* priv-io.h (struct io_select_fd_s): Remove member FROZEN.
* w32-io.c (_gpgme_io_select): Ditto.
* w32-glib-io.c (_gpgme_io_select): Ditto.

* posix-io.c (_gpgme_io_select): Ditto.
* rungpg.c (read_status): Ditto.
* wait.c (fd_table_put): Ditto.

* rungpg.c (gpg_io_event): Add tracing.
  (start): Use gpg_io_event for sending the start event.
* engine-gpgsm.c (gpgsm_io_event): Add tracing.
  (start): Use gpgsm_io_event for sending the start event.
* wait.c (_gpgme_add_io_cb, _gpgme_run_io_cb): Add tracing.

2007-09-28 Marcus Brinkmann <marcus@g10code.de>


2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (_gpgme_io_spawn).
  w32-qt-io.cpp (_gpgme_io_spawn), w32-io.c (_gpgme_io_spawn): Close the process handle, return 0.

* gpgme.h (gpgme_protocol_t): Add GPGME_PROTOCOL_UNKNOWN.
  * gpgme.c (gpgme_get_protocol_name): Implement support for GPGME_PROTOCOL_UNKNOWN.

* kdpipeiodevice.h: Fix last change.

2007-09-25 Marcus Brinkmann <marcus@g10code.de>

* conversion.c, keylist.c: Include <sys/types.h>.

* kdpipeiodevice.h: Use namespace _gpgme_
  * kdpipeiodevice.cpp: Use namespace _gpgme_
  [Q_OS_WIN32 && NOMINMAX]: Do not define NOMINMAX again.
  * w32-qt-io.cpp: Change namespace of KDPipeIODevice to _gpgme_::KDPipeIODevice.

2007-09-17 Werner Koch <wk@g10code.com>

* rungpg.c (gpg_new): Make robust against undefined ttyname or ttytype.

2007-09-14 Werner Koch <wk@g10code.com>

* data-mem.c (gpgme_data_release_and_get_mem): Fix tracing bug.

2007-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_release): Call gpgme_sig_notation_clear.

2007-09-13 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_new): Handle return value of _gpgme_getenv (fixes small memory leak).

2007-09-07 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_qt_la_SOURCES): Move moc_kdpipeiodevice.cpp to EXTRA_DIST, as this is only included by another file (it's more like a header file than a cpp file, but automake doesn't know that).

* w32-qt-io.cpp (_gpgme_io_spawn): Fix several cast errors and typos.
  * w32-io.c (_gpgme_io_write): Use TRACE_SYSRES instead of TRACE_SYS.
  (libgpgme_qt_la_LIBADD): Add QT4_CORE_LIBS, not QT4_CORE_LIB.

* kdpipeiodevice.h, kdpipeiodevice.cpp, moc_kdpipeiodevice.cpp, kdpipeiodevice moc, w32-qt-io.c: New files.
  * Makefile.am (ltlib_gpgme_extra): Rename to ltlib_gpgme_glib.
  (ltlib_gpgme_qt): New variable.
(lib_LTLIBRARIES): Add $(ltlib_gpgme_qt).
(libgpgme_qt_la_SOURCES): New variable.
(AM_CPPFLAGS): Add @QT4_CORE_INCLUDES@
(AM_CFLAGS): Add @QT4_CORE_CFLAGS@.
(libgpgme_qt_la_LDFLAGS, libgpgme_qt_la_DEPENDENCIES)
(libgpgme_qt_la_LIBADD): New variables.

* sema.h (struct critsect_s): Rename "private" to "priv" to make
  C++ users happy. Change users.
* posix-sema.c (_gpgme_sema_cs_enter, _gpgme_sema_cs_leave)
  (_gpgme_sema_cs_destroy): Likewise.
* w32-sema.c (critsect_init, _gpgme_sema_cs_enter)
* w32-glib-io.c (gpgme_get_giochannel): Change return type to
  void*.
(gpgme_get_fdptr): New function.
* w32-io.c (gpgme_get_fdptr): New function
  * gpgme.def: Add gpgme_get_fdptr.

2007-08-22 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_write): Return early if COUNT is zero.
  (writer): Remove superfluous check.

2007-08-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Move include of gpg-error.h out of extern "C".

2007-08-07 Werner Koch <wk@g10code.com>

* gpgme.h (struct _gpgme_signature): Add member CHAIN_MODEL.
  * verify.c (parse_trust): Set CHAIN_MODEL.

2007-08-02 Werner Koch <wk@g10code.com>

* w32-glib-io.c (_gpgme_io_spawn): Use DETACHED_PROCESS flag.
  * w32-io.c (_gpgme_io_spawn): Ditto.
  (_gpgme_io_write): Map ERROR_NO_DATA to EPIPE.
* debug.c (_gpgme_debug): Enable assuan logging.
  (_gpgme_debug_subsystem_init): New.
* version.c (do_subsystem_inits): Disable assuan logging and
  initialize the debug system.
  (gpgme_check_version): Do not trace before the subsystems are
  initialized.

2007-07-17 Marcus Brinkmann <marcus@g10code.de>

* debug.c: Include <errno.h> and "debug.h".
(_gpgme_debug): Save and restore ERRNO.
(TOHEX): New macro.
(_gpgme_debug_buffer): New function.
* conversion.c, data-compat.c, data-mem.c, data.c, engine-gpgsm.c,
gpgme.c, keylist.c, posix-io.c, rungpg.c, sign.c, version.c,
w32-io.c, wait.c: Replace DEBUG macros by TRACE_* variants. In
most of these files, add many more tracepoints.

2007-07-16 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (status_handler): Do not send BYE here.

* w32-io.c (struct reader_context_s, struct writer_context_s): New
members REFCOUNT.
(create_reader, create_writer): Initialize C->refcount to 1.
(destroy_reader, destroy_writer): Only destroy if C->refcount
drops to 0.
(find_reader, find_writer, kill_reader, kill_writer): Beautify.
* w32-io.c (_gpgme_io_dup): Likewise.
* w32-glib-io.c (_gpgme_io_dup): Likewise.

2007-07-13 Marcus Brinkmann <marcus@g10code.de>

* data-user.c (user_read, user_write, user_seek): Set errno and
return -1 instead returning the error code directly.
* data-compat.c (old_user_seek): Likewise.
* gpgme.c (gpgme_sig_notation_add): Return error properly.

* Revert the "close_notify_handler" returns int stuff. Always
close in the _gpgme_io_close implementations.
* engine-gpgsm.c (status_handler): Try to terminate the connection
in case of error.
* w32-io.c (_gpgme_io_read): Return C->error_code in ERRNO.
(_gpgme_io_write): Likewise.

* priv-io.h (_gpgme_io_set_close_notify): Change type of HANDLER
to _gpgme_close_notify_handler.
(_gpgme_close_notify_handler): New type.
(_gpgme_io_dup): Remove prototype.
* posix-io.c (notify_table, _gpgme_io_set_close_notify): Change
type of HANDLER to _gpgme_close_notify_handler_t.
(_gpgme_io_close): Do not close the FD if handler returns 0.
(_gpgme_io_dup): Remove function.
* w32-io.c (notify_table, _gpgme_io_set_close_notify,
_gpgme_io_close): Change type of HANDLER to
gpgme_close_notify_handler_t.
(gpgme_io_close): Do not close the FD if handler returns 0.
(gpgme_io_dup): Remove function.
* w32-glib-io.c (_gpgme_io_dup): Remove function.
(gpgme_io_set_close_notify, notify_table): Change type of HANDLER
to gpgme_close_notify_handler_t.
(gpgme_io_close): Do not close the FD if handler returns 0.
* rungpg.c (close_notify_handler): Change return type to int,
return 1.
* engine-gpgsm.c (close_notify_handler): Change return type to
int, return 0 for status FD and 1 for all other FDs.
(start): Do not duplicate the status FD.

2007-07-12 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am: Replace implicit rule by suffix rule. Add
SUFFIXES for that.

2007-07-12 Werner Koch <wk@g10code.com>

* version.c (doSubsystem_inits) [W32]: Make sure that the socket
system has been started.

2007-07-10 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_dup): Likewise.
* w32-glib-io.c (_gpgme_io_dup): Likewise.
* engine-gpgsm.c (start): Use gpgme_dup() instead of dup().

2007-07-08 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c [HAVE_W32_SYSTEM]: Enable the bunch of the file.
* funopen.c (funopen): Rename to gpgme_funopen.

2007-04-30 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Fix error handling for ttyname_r.
* rungpg.c (gpg_new): Likewise.
Submitted by Stephen Tether.

2007-02-26 Werner Koch <wk@g10code.com>

* verify.c (op_data_t): New element PLAINTEXT_SEEN.
(gpgme_verify_status_handler): Return an error if more than one
plaintext has been seen.
(parse_error): New arg SET_STATUS. Also detect it based on an
ERROR status (gpg > 1.4.6).

2007-01-26 Werner Koch  <wk@g10code.com>

* w32-io.c (build_commandline): Fixed stupid quoting bug.
  * w32-glib-io.c (build_commandline): Ditto.

* rungpg.c (gpg_set_locale): Avoid dangling pointer after free.

* gpgme-config.in: New options --get-gpg and --get-gpgsm.

2007-01-18 Marcus Brinkmann  <marcus@g10code.de>

* data.h (_gpgme_data_get_fd): Add prototype.
  (gpgme_data_get_fd_cb): New type.
  (struct _gpgme_data_cbs): New member get_fd.
  * data.c (_gpgme_data_get_fd): New function.
  * data-fd.c (fd_get_fd): New function.
  (fd_cbs): Add fd_get_fd.
  * data-stream.c (stream_get_fd): New function.
  (stream_cbs): Add stream_get_fd.
  * data-mem.c (mem_cbs): Add NULL for get_fd callback.
  * data-user.c (user_cbs): Likewise.
  * engine-gpgsm.c (gpgsm_set_fd) [USE_DESCRIPTOR_PASSING]: Try to
    short-cut by passing the data descriptor directly.

2007-01-17 Marcus Brinkmann  <marcus@g10code.de>

* w32-io.c (build_commandline): Quote all command line arguments.
  * w32-glib-io.c (build_commandline): Likewise.

2007-01-10 Werner Koch  <wk@g10code.com>

* ttyname_r.c (ttyname_r) [W32]: Return a dummy name.

2007-01-08 Werner Koch  <wk@g10code.com>

* version.c (do_subsystem_inits): Do assuan init only if building
  with Assuan.
  * setenv.c: Include assuan-def.h only if building with Assuan
    support.
  * op-support.c (_gpgme_op_reset): Set LC_MESSAGES only if
    if defined.
  * engine-gpgsm.c (gpgsm_set_locale): Ditto.
  * rungpg.c (gpg_set_locale): Ditto.

2006-12-17 Marcus Brinkmann  <marcus@g10code.de>
* gpgme.c (gpgme_set_protocol): Shut down the engine when switching protocols.
  (gpgme_ctx_set_engine_info): Likewise for engine info.
* engine.h (_gpgme_engine_reset): New function prototype.
* engine.c (_gpgme_engine_reset): New function.
* engine-backend.h (struct engine_ops): New member RESET.
* rungpg.c (_gpgme_engine_ops_gpg): Add NULL for reset function.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm)
  [USE_DESCRIPTOR_PASSING]: Add gpgsm_reset for reset.
  (_gpgme_engine_ops_gpgsm) [!USE_DESCRIPTOR_PASSING]: Add NULL for reset function.
(gpgsm_reset) [USE_DESCRIPTOR_PASSING]: New function.
* op-support.c (_gpgme_op_reset): Try to use the engine's reset function if available.
* engine-gpgsm.c (gpgsm_new): Move code to dup status_fd to ...
  (start): ... here.

* engine.h (_gpgme_engine_new): Remove arguments lc_c_type and lc_messages from prototype.
  (_gpgme_engine_set_locale): New prototype.
* engine.c (_gpgme_engine_set_locale): New function.
* op-support.c (_gpgme_op_reset): Call _gpgme_engine_set_locale.
* engine-backend.h (struct engine_ops): Add new member SET_LOCALE.
Remove arguments lc_messages and lc_c_type from member NEW.
* engine-gpgsm.c (struct engine_gpgsm): New members lc_c_type_set and lc_messages_set.
(gpgsm_new): Remove lc_messages and lc_c_type arguments.
(gpgsm_set_locale): New function.
  (_gpgme_engine_ops_gpgsm): Add gpgsm_set_locale.
* rungpg.c (struct engine_gpg): Add new members lc_messages and lc_c_type.
(gpg_release): Release lc_messages and lc_c_type if set.
(gpg_new): Remove lc_messages and lc_c_type arguments.
(gpg_set_locale): New function.
  (_gpgme_engine_ops_gpg): Add gpg_set_locale.
(add_arg): Implement in terms of:
  (add_arg_ext): New function.
  (start): Set lc-messages and lc-c-type arguments here.

2006-12-03 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (struct engine_gpgsm): Move members input_fd_server, output_fd_server, message_fd_server to ...
  (iocb_data): ... here (as server_fd).
  (close_notify_handler): Reset tags as well.
(gpgsm_new): Implement support for descriptor passing.
(fd_type_t): New type.
(gpgsm_clear_fd): New function. Use it instead of _gpgsm_io_close for unused communication channels.
(gpgsm_set_fd): Rewritten to support descriptor passing. All relevant callers adjusted as well (previously of _gpgme_io_close).

2006-12-02 Marcus Brinkmann <marcus@g10code.de>

* version.c: Include "assuan.h".
(do_subsystem_inits): Call assuan_set_assuan_err_source.

2006-12-01 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_real_la_SOURCES): Rename to main_sources.
(libgpgme_la_SOURCES, libgpgme_pthread_la_SOURCES, libgpgme_glib_la_SOURCES, libgpgme_pth_la_SOURCES): Add $(main_sources).
(libgpgme_la_DEPENDENCIES, libgpgme_la_LIBADD, libgpgme_pthread_la_DEPENDENCIES, libgpgme_pthread_la_LIBADD, libgpgme_pth_la_DEPENDENCIES, libgpgme_pth_la_LIBADD, libgpgme_glib_la_DEPENDENCIES, libgpgme_glib_la_LIBADD): Remove libgpgme-real.la.
(noinst_LTLIBRARIES): Removed.
(libgpgme_glib_la_CFLAGS, libgpgme_pth_la_CFLAGS): Removed.
(AM_CFLAGS): New variable.

2006-11-30 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Replace AssuanError with gpg_error_t and ASSUAN_CONTEXT with assuan_context_t.

2006-11-29 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Check return value of assuan_pipe_connect.

* rungpg.c: Include <unistd.h>.

2006-10-24 Marcus Brinkmann <marcus@g10code.de>

* trustlist.c (gpgme_op_trustlist_next): Return error if OPD is NULL.

2006-10-23 Marcus Brinkmann <marcus@g10code.de>
* wait-global.c (gpgme_wait): Unlock CTX_LIST_LOCK while calling _gpgme_engine_io_event().

* keylist.c (gpgme_op_keylist_next): Return error if OPD is NULL.

2006-09-25 Marcus Brinkmann <marcus@g10code.de>

* data-mem.c (gpgme_data_release_and_get_mem): Release the data object properly.

2006-09-22 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (keylist_colon_handler): Move debug output after initialising KEY.

2006-07-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (Options): Add NETLIBS.
  * Makefile.am (libgpgme_la_LIBADD, libgpgme_pthread_la_LIBADD, libgpgme_pth_la_LIBADD, libgpgme_glib_la_LIBADD): Add NETLIBS.

* rungpg.c (read_status): Fix comparison disguising as an assignment.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_locale): Remove conditional on HAVE_W32_SYSTEM, and just check for LC_MESSAGES.

2006-07-16 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (read_status): Strip potential carriage return.
  * genkey.c (get_key_parameter): Skip potential carriage return.
  * version.c (_gpgme_get_program_version): Strip potential carriage return.

* data.c (gpgme_data_set_file_name): Allow to clear the file name by passing NULL.

2006-06-22 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_get_key): Also clone the engine info.

2006-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (cflags_pth): Revert accidental removal of pthread support with last change.
2006-02-28 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (O_BINARY) [!O_BINARY]: New macro.
  (_gpgme_io_pipe): Open pipes in binary mode.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

* engine.c (gpgme_engine_check_version): Reimplemented to allow checking the version correctly even after changing the engine information. Bug reported by Stphane Corthesy.

* rungpg.c (read_colon_line): Invoke colon preprocess handler if it is set.
  (colon_preprocessor_t): New type.
  (struct engine_gpg): New member colon.preprocess_fnc.
  (gpg_keylist_preprocess): New function.
* keylist.c (keylist_colon_handler): Allow short key IDs.

2006-02-15 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (create_writer): Make C->have_data a manually reset event.
  (writer): Move code from end of if block to beginning, so it is also run the first time.
  (_gpgme_io_write): Move assert check after error check. Reset the is_empty event, and also do it eagerly.
  (_gpgme_io_select): Unconditionally wait for the is_empty event.

2006-01-26 Werner Koch <wk@g10code.com>

* w32-util.c (gpgme_get_conf_int): New.
* w32-io.c (get_desired_thread_priority): New.
  (create_reader, create_writer): Use it here.

2006-01-04 Werner Koch <wk@g10code.com>

* debug.h (gpgme_debug_srcname): New. Use it with the debug macros.


2006-01-03 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (gpgme_io_close): Only close fd if there is no channel for it.
2005-12-31 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (find_channel): Set channel to unbuffered.
  (_gpgme_io_select): Fix debug output.

2005-12-23 Werner Koch <wk@g10code.com>

* gpgme.h (struct _gpgme_signature): Append field PKA_ADDRESS.
* verify.c (release_op_data, _gpgme_verify_status_handler): Set
  this field.

2005-12-20 Werner Koch <wk@g10code.com>

* gpgme.h (gpgme_status_code_t): Added GPGME_STATUS_PKA_TRUST_BAD
  and GPGME_STATUS_PKA_TRUST_GOOD.
  (struct _gpgme_signature): New field pka_trust.
* verify.c (_gpgme_verify_status_handler): Set pka_trust.

2005-12-06 Werner Koch <wk@g10code.com>

* keylist.c (keylist_colon_handler): Store fingerprints of the
  subkeys. Reset the secret flag of subkeys for stub secret keys.
  (NR_FIELDS): Bumped up to 16

2005-11-27 Marcus Brinkmann <marcus@g10code.de>

* engine.c (_gpgme_set_engine_info): Use new_file_name in
  engine_get_version invocation. Reported by Stephane Corthsby.

2005-11-24 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (_gpgme_io_fd2str): Remove debug printf.

2005-11-18 Werner Koch <wk@g10code.com>

* w32-glib-io.c: Include glib.h before windows to avoid a symbol
  shadowing warning.
  (find_channel): Better use g_io_channel_win32_new_fd instead of
  the autodetection function g_io_channel_unix_new.
  (_gpgme_io_select): Rewritten. It is now a fully working select
  implementation.

2005-11-18 Marcus Brinkmann <marcus@g10code.de>

* priv-io.h (_gpgme_io_fd2str): New prototype.
* w32-io.c (_gpgme_io_fd2str): New function.
* rungpg.c: Use this new function.
* w32-glib-io.c (_gpgme_io_fd2str): Rewrote the file handle code again. Two's company, three's the musketeers.

* w32-glib-io.c: Rewrote the file handle code. We don't create system fds for every handle (doesn't work for inherited handles), but we create pseudo fds in a private namespace that designate a handle and potentially a giochannel.

2005-11-18 Werner Koch <wk@g10code.com>

* versioninfo.rc.in: Set file version to LT-version + Svn-revision.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.def (gpgme_get_giochannel): Add symbol.
* Makefile.am (system_components) [HAVE_DOSISH_SYSTEM]: Remove w32-io.c.
  (ltlib_gpgme_extra): New variable.
  (lib_LTLIBRARIES): Add $(ltlib_gpgme_extra).
  (system_components_not_extra): New variable.
  (libgpgme_la_SOURCES, libgpgme_pthread_la_SOURCES,
   (libgpgme_pth_la_SOURCES): Add $(system_components_not_extra).
   (libgpgme_glib_la_LDFLAGS, libgpgme_glib_la_DEPENDENCIES,
    (libgpgme_glib_la_LIBADD, libgpgme_glib_la_CFLAGS)
   [BUILD_W32_GLIB]: New variables.
  * gpgme-config.in (glib): New option.
  * gpgme.m4 (AM_PATH_GPGME_GLIB): New macro.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_waitpid, _gpgme_io_kill): Removed.
(_gpgme_io_waitpid): Declare static.

2005-10-24 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_spawn): Don't minimize window, hide it.

2005-10-21 Werner Koch <wk@g10code.com>

* Makefile.am: Fixed cut+paste problem

2005-10-20 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am: Build versioninfo.lo, not versioninfo.o. Also, fix the whole mess.
2005-10-16 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_edit): Don't add a key argument if in card edit mode.

2005-10-06 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgme.dll gpgme.dll.a): Use $(srcdir) for gpgme.def.

* gpgme.h (gpgme_free): New prototype.
* data-mem.c (gpgme_free): New function.
* libgpgme.vers (GPGME_1.1): Add gpgme_free.
* gpgme.def: Add gpgme_free.

2005-10-02 Marcus Brinkmann <marcus@g10code.de>

* util.h (_gpgme_decode_percent_string): Add new argument BINARY to prototype.
* verify.c (parse_notation): Likewise for invocation.
* conversion.c (_gpgme_decode_percent_string): Likewise to declaration. If set, do not replace '0' characters with a printable string.
* gpgme.h (struct _gpgme_key_sig): New field notations.
* ops.h (_gpgme_parse_notation): New prototype.
* sig-notation.c (_gpgme_parse_notation): New function.
* key.c (gpgme_key_unref): Free all signature notations.
* keylist.c (op_data_t): New member tmp_keysig.
  (finish_key): Clear OPD->tmp_keysig.
* gpgme.c (gpgme_set_keylist_mode): Remove check.
* rungpg.c (gpg_keylist): Support listing signature notations.
  (gpg_keylist_ext): Likewise.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* engine.h (_gpgme_set_engine_info): Add prototype.
* engine-backend.h (struct engine_ops): Change return type of get_file_name() to const char * to silence gcc warning.
* engine.c (engine_get_file_name): Change return type to const char * to silence gcc warning.
  (gpgme_get_engine_info): Use transitional variable to go from const char * to char * to silence gcc warning.
  (_gpgme_set_engine_info): Likewise.
* engine-gpgsm.c (struct engine_gpgsm): Change type of LINE to char * to silence gcc warning.
  (gpgsm_new): Make ARGV a pointer to const char.
  (status_handler): Change type of SRC, END, DST, ALINE and NEWLINE...
to char * to silence gcc warning.

* gpgme.def: Add gpgme_data_set_file_name,
gpgme_data_get_file_name, gpgme_sig_notation_clear,
gpgme_sig_notation_add and gpgme_sig_notation_get.
* libgpgme.vers: Add gpgme_sig_notation_clear,
gpgme_sig_notation_add and gpgme_sig_notation_get.
* Makefile.am (libgpgme_real_la_SOURCES): Add sig-notation.c.
* context.h (struct gpgme_context): New field sig_notations.
* gpgme.h (struct _gpgme_sig_notation): New member value_len and critical.
(GPGME_SIG_NOTATION_CRITICAL): New symbol.
(gpgme_sig_notation_flags_t): New type.
(gpgme_sig_notation_add, gpgme_sig_notation_clear,
* verify.c (parse_notation): Use support functions.
(release_op_data): Likewise.
* rungpg.c (append_args_from_sig_notations): New function.
(gpg_encrypt, gpg_sign): Call it.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* data.h (struct gpgme_data): New member file_name.
* data.c (gpgme_data_set_filename): New function.
(_gpgme_data_release): Free DH->filename if necessary.
(gpgme_data_get_filename): New function.
* rungpg.c (gpg_encrypt): Set filename option.
(gpg_encrypt, gpg_sign): Likewise.
* gpgme.h (struct _gpgme_key): Add field is_qualified.
(struct _gpgme_subkey): Likewise.
* keylist.c (set_subkey_capability, set_mainkey_capability): Set field is_qualified.

2005-09-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_data): New member file_name.
* decrypt.c, verify.c, gpgme.h: Replace plaintext_filename with file_name.

2005-09-23 Werner Koch <wk@g10code.com>

* w32-io.c (_gpgme_io_pipe): Removed use of environment variable
again.
(create_reader, create_writer): Set thread priority higher.

2005-09-19 Werner Koch <wk@g10code.com>

* w32-io.c (_gpgme_io_pipe): New environment variable to change
the size of the pipe buffer.

2005-09-13 Werner Koch <wk@g10code.com>

* ath.c: Changes to make it work under W32.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_SOURCES): Set to ath.h and ath.c.
(ath_pth_src, ath_pthread_src): Removed.
(w32_o_files): Replace ath-compat.o with ath.o.
(libgpgme_pth_la_CFLAGS): New variable.
* ath-compat.c, ath-pthread-compat.c, ath-pth-compat.c: Removed.
* ath.h (ath_pthread_available, ath_pth_available): Removed.
(ath_init) [!_ATH_EXT_SYM_PREFIX]: Do not define macro.
(struct ath_ops, ath_init) [_ATH_COMPAT]: Removed.
(_ATH_COMPAT): Macro removed.
* posix-sema.c (_gpgme_sema_subsystem_init): Do not call
_gpgme_ath_init.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (release_op_data): Do not free opd->tmp_uid.

2005-09-07 Werner Koch <wk@g10code.com>

* w32-io.c (build_commandline): Quote argv[0].

2005-08-26 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (command_handler): Use _gpgme_io_write instead of write.

* edit.c (command_handler): Do not depend on PROCESSED being
available.

* engine.h (engine_command_handler_t): Add new argument processed.
* ops.h (_gpgme_passphrase_command_handler_internal): Rename
prototype to ...
(_gpgme_passphrase_command_handler): ... this one.
* passphrase.c (_gpgme_passphrase_command_handler_internal):
Rename to ...
(_gpgme_passphrase_command_handler): ... this one.
* edit.c (command_handler): Add new argument processed. Remove local variable with the same name. Always return processed as true.
* rungpg.c (command_handler): Send a newline character if the handler did not.

2005-08-26 Werner Koch <wk@g10code.com>

* w32-util.c (read_w32_registry_string): Updated from code used by GnuPG. This allows for expanding strings and features the implicit fallback key.
(w32_shgetfolderpath, find_program_at_standard_place): New.
(_gpgme_get_gpg_path, _gpgme_get_gpgsm_path): With no registry entry, locate the programs at the standard place.
(dlopen, dlsym, dlclose): New, so that we can keep on using what we are accustomed to.

* debug.c (debug_init): Use PATHSEP_C so that under W32 a semicolon is used which allows us to create files with drive letters.

* w32-io.c (_gpgme_io_read, _gpgme_io_write): Print content in debug mode too.

2005-07-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_status_code_t): Add GPGME_STATUS_PLAINTEXT.
(struct _gpgme_op_decrypt_result): New member plaintext_filename.
(struct _gpgme_op_verify_result): Likewise.
* ops.h (_gpgme_parse_plaintext): Add prototype.
* op-support.c (_gpgme_parse_plaintext): New function.
* decrypt.c (release_op_data): Release OPD->result.plaintext_filename.
(_gpgme_decrypt_status_handler): Handle GPGME_STATUS_PLAINTEXT.
* verify.c (release_op_data): Release OPD->result.plaintext_filename.
(_gpgme_verify_status_handler): Handle GPGME_STATUS_PLAINTEXT.

2005-08-08 Werner Koch <wk@g10code.com>

* util.h (stpcpy): Renamed to ..
(_gpgme_stpcpy): .. this and made inline. This avoids duplicate definitions when linking statically.
* stpcpy.c: Removed.

2005-08-19 Werner Koch <wk@g10code.com>

* gpgme.def: New.
* versioninfo.rc.in: New.
* Makefile.am: Adds support for building a W32 DLL.

* ttyname_r.c (ttyname_r) [W32]: Return error.
* ath-compat.c [W32]: select and co are not yet supported; return error.
* data-stream.c (stream_seek): Use ftell if ftello is not available.

2005-07-26 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_get_key): Allow key IDs.

2005-06-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.m4: Only call GPGME_CONFIG if found.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_signature): New members pubkey_algo and hash_algo.
* verify.c (parse_valid_sig): Parse pubkey and hash algo numbers.
  (parse_new_sig): Parse pubkey, hash algo and timestamp for ERRSIG.
(_gpgme_decrypt_status_handler): Fix last change.

* gpgme.h (struct _gpgme_recipient): New structure.
  (gpgme_recipient_t): New type.
  (struct _gpgme_op_decrypt_result): Add member recipients.
* decrypt.c (op_data_t): New member last_recipient_p.
  (_gpgme_op_decrypt_init_result): Initialize last_recipient_p.
  (parse_enc_to): New function.
  (_gpgme_decrypt_status_handler): Handle status ENC_TO and NO_SECKEY.

* wait-global.c (gpgme_wait): Break out of the fd processing loop after an error.
Reported by Igor Belyi <gpgme@katehok.ac93.org>.

2005-06-02 Marcus Brinkmann <marcus@g10code.de>

* wait.h (_gpgme_run_io_cb): New prototype.
* wait.c (_gpgme_run_io_cb): New function.
* wait-global.c (gpgme_wait): Call it.
* wait-user.c (_gpgme_user_io_cb_handler): Likewise.
* wait-private.c (_gpgme_wait_on_condition): Likewise.

2005-06-02 Werner Koch <wk@g10code.com>
* passphrase.c (_gpgme_passphrase_status_handler): Take care of
  GPGME_STATUS_NEED_PASSPHRASE_PIN.
  (_gpgme_passphrase_command_handler_internal): Also act on the key
  "passphrase.pin.ask".

* gpgme.h: Added status codes GPGME_STATUS_SIG_SUBPACKET,
  GPGME_STATUS_NEED_PASSPHRASE_PIN, GPGME_STATUS_SC_OP_FAILURE,
  GPGME_STATUS_SC_OP_SUCCESS, GPGME_STATUS_CARDCTRL,
  GPGME_STATUS_BACKUP_KEY_CREATED.

2005-05-28 Marcus Brinkmann <marcus@g10code.de>

* data-user.c: Include <errno.h>.

2005-05-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_new): Set the CTX->include_certs default to the
  default.

2005-05-11 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io): Fix loop increment.

2005-05-05 Marcus Brinkmann <marcus@g10code.de>

* data-user.c (user_release): Only call user hook if provided.
  (user_seek): Return EBADF if no user hook is provided.
  (user_read): Likewise.
  (user_write): Likewise.

2005-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GPGME_INCLUDE_CERTS_DEFAULT): New macro.
  * engine-gpgsm.c (gpgsm_sign): Send the include-certs option after
    the reset, just for cleanliness, and do not sent it at all if the
    default is requested.
  * gpgme.c (gpgme_set_include_certs): Allow to use
    GPGME_INCLUDE_CERTS_DEFAULT.

2005-04-21 Werner Koch <wk@g10code.com>

* verify.c (calc_sig_summary): Set the key revoked bit.

2005-04-14 Marcus Brinkmann <marcus@g10code.de>

* wait-global.c (gpgme_wait): Use LI->ctx when checking a context
  in the list, not the user-provided CTX.
  Reported by Igor Belyi <gpgme@katehok.ac93.org>. 
* wait-global.c (gpgme_wait): If no context is found, and we should not hang, set *status to 0 and return NULL.
  Reported by Igor Belyi <gpgme@katehok.ac93.org>.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* data.h (EOPNOTSUPP) [_WIN32]: Remove definition.
* data.c (EOPNOTSUPP) [HAVE_W32_SYSTEM]: Remove definition.
  (gpgme_data_read, gpgme_data_write, gpgme_data_seek): Return ENOSYS instead EOPNOTSUPP.
* data-compat.c (EOPNOTSUPP) [HAVE_W32_SYSTEM]: Remove definition.
  (gpgme_error_to_errno): Map GPG_ERR_NOT_SUPPORTED to ENOSYS.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* io.h: Rename to ...
* priv-io.h: ... this.
* Makefile.am (libgpgme_real_la_SOURCES): Change io.h to priv-io.h.
* data.c, engine-gpgsm.c, posix-io.c, rungpg.c, version.c,
  w32-io.c, wait-private.c, wait-global.c, wait-user.c, wait.c:
  Change all includes of "io.h" to "priv-io.h"

2005-03-09 Werner Koch <wk@g10code.com>

* w32-util.c (_gpgme_get_gpg_path, _gpgme_get_gpgsm_path): Do not cast away type checks.

* io.h [W32]: Do not include stdio.h. If it is needed do it at the right place.

* data.h [W32]: Removed kludge for EOPNOTSUP.
* data.c, data-compat.c [W32]: Explicitly test for it here.

Replaced use of _WIN32 by HAVE_W32_SYSTEM except for public header files.

2005-03-07 Timo Schulz <twoaday@g10code.de>

* gpgme.h: [_WIN32] Removed ssize_t typedef.
* ath.h: [_WIN32] Added some (dummy) types.
* io.h: [_WIN32] include stdio.h.
* data.h: [_WIN32] Define EOPNOTSUPP.
* gpgme.c [_WIN32] (gpgme_set_locale): Disabled.

2004-12-12 Marcus Brinkmann <marcus@g10code.de>
* engine.c (_gpgme_set_engine_info): Fix assertion.

2004-12-11 Marcus Brinkmann <marcus@g10code.de>

* util.h [HAVE_CONFIG_H && HAVE_TTYNAME_R] (ttyname_r): Define prototype.
* ttyname_r.c: New file.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* putc_unlocked.c, funopen.c: I just claim copyright on these files and change their license to LGPL, because they are totally trivial wrapper functions.
* isascii.c: Change copyright notice to the one from ctype/ctype.h in the GNU C Library (CVS Head 2004-10-10), where isascii is defined as a macro doing exactly the same as the function in this file.
* memrchr.c: Update from the GNU C Library (CVS Head 2001-07-06).
* stpcpy.c: Update from the GNU C Library (CVS Head 2004-10-10).
* ath.c, ath-compat.c, ath.h, ath-phant.c, ath-phant-compat.c, ath-phant-thread.c, ath-phant-thread-compat.c, context.h, conversion.c, data.c, data-compat.c, data-fd.c, data.h, data-mem.c, data-stream.c, data-user.c, debug.c, debug.h, decrypt.c, decrypt-verify.c, delete.c, edit.c, encrypt.c, encrypt-sign.c, engine-backend.h, engine.c, engine-gpgsm.c, engine.h, error.c, export.c, genkey.c, get-env.c, gpgme.c, gpgme.h, import.c, io.h, key.c, keylist.c, mkstatus, Makefile.am, ops.h, op-support.c, passphrase.c, posix-io.c, posix-sema.c,posix-util.c, progress.c, runpgp.c, sema.h, sign.c, signers.c, trust-item.c, trustlist.c, util.h, verify.c, version.c, w32-io.c, w32-sema.c, w32-util.c, wait.c, wait-global.c, wait.h, wait-private.c, wait-user.c: Change license to LGPL.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* libgpgme.vers (GPGME_1.1): New version.
* engine-backend.h (struct engine_ops): Add argument FILE_NAME to member get_version(). Add arguments FILE_NAME and HOME_DIR to member new(). Change return type of get_file_name and get_version to char *.
* engine-gpgsm.c (gpgsm_get_version): Change return type to char pointer. Do not cache result.
(gpgsm_new): Add file_name and home_dir argument, and use them instead of the defaults, if set.
* runpgp.c (struct engine_gpg): New member file_name.
(gpg_get_version): Change return type to char pointer, and do not cache result.
(gpg_release): Free gpg->file_name.
(gpg_new): Take new arguments file_name and home_dir. Set the
--homedir argument if HOME_DIR is not NULL. Set gpg->file_name.
(start): Use gpg->file_name instead _gpgme_get_gpg_path, if set.
* engine.h (_gpgme_engine_info_copy, _gpgme_engine_info_release):
New prototypes.
(_gpgme_engine_new): Change first argument to gpgme_engine_info_t
info.
* engine.c: Include <assert.h>.
(gpgme_get_engine_info): Set *INFO within the lock. Move
ENGINE_INFO and ENGINE_INFO_LOCK to ....
(engine_info, engine_info_lock): ... here. New static variables.
(engine_get_version): Add file_name argument to
get_version invocation. Change return type to char pointer.
(gpgme_engine_check_version): Rewritten to free() the return value
of engine_get_version after using it.
(_gpgme_engine_info_release): New function.
(gpgme_get_engine_info): Rewritten.
(_gpgme_engine_info_copy): New function.
(gpgme_set_engine_info): New function.
(_gpgme_engine_new): Change first argument to gpgme_engine_info_t
info, and use that.
* gpgme.h (struct _gpgme_engine_info): Change type of file_name
and version to char * (remove the const). New member home_dir.
(gpgme_set_engine_info, gpgme_ctx_get_engine_info,
* context.h (struct gpgme_context): New member engine_info.
* gpgme.c (gpgme_new): Allocate CTX->engine_info.
(gpgme_release): Deallocate CTX->engine_info.
(gpgme_ctx_get_engine_info, gpgme_ctx_set_engine_info): New
functions.
* op-support.c (_gpgme_op_reset): Look for correct engine info and
pass it to _gpgme_engine_new.
* version.c (gpgme_check_version): Adjust to
_gpgme_compare_versions returning an int.
(_gpgme_compare_versions): Return an int value, not a const char
pointer.
* ops.h (_gpgme_compare_versions): Same for prototype.

2004-10-03 Marcus Brinkmann <marcus@g10code.de>

* verify.c (parse_trust): If no reason is provided, set
SIG->validity_reason to 0.
(calc_sig_summary): Set GPGME_SIGSUM_CRL_TOO_OLD if appropriate.

2004-10-22 Marcus Brinkmann <marcus@g10code.de>
* engine-gpgsm.c (map_assuan_error): Return 0 if ERR is 0.
  (start): Call map_assuan_error on return value of
  assuan_write_line.

2004-10-05 Marcus Brinkmann <marcus@g10code.de>

* op-support.c (_gpgme_op_data_lookup): Use char pointer for
  pointer arithmetic.

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.m4: Implement the --api-version check.

* rungpg.c (read_status): Move the polling of the output data pipe
to just before removing the command fd, from just before adding
  it. This avoids buffering problems.

* data.c (_gpgme_data_inbound_handler): Use _gpgme_io_read, not
  read, to improve debug output.

2004-09-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GPGME_IMPORT_NEW, GPGME_IMPORT_UID, GPGME_IMPORT_SIG,
  GPGME_IMPORT_SUBKEY, GPGME_IMPORT_SECRET,
  (GPGME_KEYLIST_MODE_LOCAL, GPGME_KEYLIST_MODERN_EXTERN,
   GPGME_KEYLIST_MODE_SIGS, GPGME_KEYLIST_MODE_VALIDATE): Change from
  enum to macros.
  (gpgme_keylist_mode_t): Define as unsigned int.
  (gpgme_key_t): Change type of keylist_mode to
  gpgme_keylist_mode_t.

2004-09-23 Marcus Brinkmann <marcus@g10code.de>

* data.c (_gpgme_data_outbound_handler): Close the file descriptor
  if we get an EPIPE.

* data-stream.c (stream_seek): Call ftello and return the current
  offset.

* data.h (struct gpgme_data): Change type of data.mem.offset to
  off_t.

* data.c (gpgme_data_seek): Check dh->cbs->seek callback, not read
  callback. If SEEK_CUR, adjust the offset by the pending buffer
  size. Clear pending buffer on success.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.m4: Add copyright notice.
2004-08-18 Marcus Brinkmann <marcus@g10code.de>

* passphrase.c (_gpgme_passphrase_status_handler): Always run the status handler.

2004-08-17 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (build_argv): Use --no-sk-comment, not --no-comment.

2004-06-23 Marcus Brinkmann <marcus@g10code.de>

* key.c (_gpgme_key_append_name): Make sure tail points to the byte following the uid.
  (_gpgme_key_add_sig): Likewise. Don't use calloc, but malloc and memset.

2004-06-02 Marcus Brinkmann <marcus@g10code.de>

* libgpgme.vers: Remove C-style comment, which is not supported by older binutils.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (Options): Support --api-version.
  * libgpgme.vers: List all gpgme symbols under version GPGME_1.0.
  * decrypt.c (_gpgme_decrypt_status_handler): Fix last change.
  * verify.c (parse_error): Likewise.
  * verify.c (parse_error): Do not skip location of where token.
  * gpgme.h (gpgme_status_code_t): Add GPGME_STATUS_REVKEYSIG.
  * verify.c (_gpgme_verify_status_handler): Add handling of GPGME_STATUS_REVKEYSIG.
    (parse_trust): Likewise.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_decrypt_result): New fields wrong_key_usage and _unused.
  * decrypt.c (_gpgme_decrypt_status_handler): Don't skip over character after a matched string, as in a protocol error this could skip over the trailing binary zero.
    Handle decrypt.keyusage error notifications.

* gpgme.h (struct _gpgme_key): New member keylist_mode.
* keylist.c (keylist_colon_handler): Set the keylist_mode of KEY.

2004-04-29 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.h (struct _gpgme_signature): Change member WRONG_KEY_USAGE to unsigned int. Same for member _unused.

* keylist.c (set_mainkey_trust_info): Rewritten.
  (set_subkey_capability): Handle 'd' (disabled).
  (set_mainkey_capability): Rewritten.

2004-04-22 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.m4: Quote first argument to AC_DEFUN.

2004-04-21 Werner Koch  <wk@gnupg.org>

* key.c (gpgme_key_unref): Allow passing NULL like free does.
The rule of least surprise.

2004-04-15 Werner Koch  <wk@gnupg.org>

* verify.c (prepare_new_sig, _gpgme_verify_status_handler): Remove unused result.signatures items.

* keylist.c (gpgme_get_key): Return an error if FPR is NULL.

2004-04-08 Werner Koch  <wk@gnupg.org>

* verify.c (_gpgme_verify_status_handler): Ignore the error status if we can't process it.
* decrypt-verify.c (decrypt_verify_status_handler): Backed out yesterday's hack. It is not any longer required.

2004-04-07 Werner Koch  <wk@gnupg.org>

* decrypt-verify.c (decrypt_verify_status_handler): Hack to cope with meaningless error codes from the verify status function.

2004-04-05 Werner Koch  <wk@gnupg.org>

* gpgme.h: Add GPGME_STATUS_NEWSIG.

* verify.c (parse_error): Compare only the last part of the where token.
  (prepare_new_sig): New.
  (parse_new_sig): Use prepare_new_sig when required.
  (_gpgme_verify_status_handler): Handle STATUS_NEWSIG.
  (status_handler): Add debugging output.

2004-03-23 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Protect _only_ tty related code with isatty(). Submitted by Bernhard Herzog.

2004-03-11 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Protect all tty related code with isatty().

* rungpg.c (gpg_cancel): Set GPG->fd_data_map to NULL after releasing it.
* engine-gpgsm.c (gpgsm_cancel): Only call assuan_disconnect if GPGSM->assuan_ctx is not NULL. Set it to NULL afterwards.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in: Do not emit include and lib directory for prefix "/usr" or "".

2004-03-03 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (gpgsm_export_ext): Properly insert a space between patterns.

2004-02-18 Werner Koch <wk@gnupg.org>

* gpgme-config.in: Ignore setting of --prefix.

2004-02-25 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_cancel): New function.
  (gpg_release): Call it here.
  (_gpgme_engine_ops_gpg): Add it here.
* engine-gpgsm.c (gpgsm_cancel): Fix last change.

2004-02-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_cancel): New function.
* engine-backend.h (struct engine_ops): New member cancel.
* engine.h (_gpgme_engine_cancel): New prototype.
* engine.c (_gpgme_engine_cancel): New function.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm): Add new member cancel.
(gpgsm_cancel): New function.
(gpgsm_release): Use it.
* rungpg.c (_gpgme_engine_ops_gpg): Add new member cancel.

2004-02-17 Werner Koch <wk@gnupg.org>

* gpgme.h: Add GPGME_KEYLIST_MODE_VALIDATE.
* engine-gpgsm.c (gpgsm_keylist): Send this to gpgsm.

2004-02-15 Werner Koch <wk@gnupg.org>

* memrchr.c (memrchr): Fixed implementation. Problem pointed out by Adriaan de Groot.

2004-02-01 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (build_argv): Use --no-comment, not --comment "".

* data-compat.c (gpgme_data_new_from_filepart): Call fseeko if available.
* data-stream.c (stream_seek): Likewise.

2004-01-16 Werner Koch <wk@gnupg.org>

* conversion.c (_gpgme_map_gnupg_error): Handle numerical codes as used by GnuPG 1.9.x

2004-01-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_key_sig): Fix comment on REVOKED.

2004-01-12 Werner Koch <wk@gnupg.org>

* sign.c: Include util.h for prototype of _gpgme_parse_timestamp.

2003-12-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (_GPGME_D_CLASS): Revert this change.
(struct _gpgme_key_sig): For C++ compilers, rename class member to _obsolete_class. Add new member sig_class.
(struct _gpgme_new_signature): Same here.
* key.c (gpgme_key_sig_get_ulong_attr): Use CERTSIG->sig_class, not CERTSIG->class.
* keylist.c (keylist_colon_handler): Likewise for KEYSIG, but keep setting KEYSIG->class, too. Rename variable CLASS to SIG_CLASS.
* sign.c (parse_sig_created): Set SIG->sig_class.

2003-12-22 Werner Koch <wk@gnupg.org>
* gpgme.h (_GPGME_D_CLASS): Kludge for C++ compatibility without changing the C API.

2003-11-19 Werner Koch <wk@gnupg.org>

* conversion.c (_gpgme_parse_timestamp): New.
(atoi_1, atoi_2, atoi_4): New.
* keylist.c (parse_timestamp): Removed. Changed all callers to use the new function.
* verify.c (parse_valid_sig): Ditto. Replaced the errno check.
* sign.c (parse_sig_created): Ditto.

2003-10-31 Werner Koch <wk@gnupg.org>

* keylist.c (parse_timestamp): Detect ISO 8601 timestamps and try to convert them.

2003-10-10 Marcus Brinkmann <marcus@g10code.de>

* genkey.c (get_key_parameter): Make a copy of the key parameters. Submitted by Miguel Coca <e970095@zipi.fi.upm.es>.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

* data-compat.c: Include <sys/time.h> before <sys/stat.h> for broken systems.

* engine-gpgsm.c (map_assuan_error): If ERR is -1, return sensible error.

* posix-io.c (_gpgme_io_subsystem_init): Add function.
(_gpgme_io_spawn): Do not fixup signal handler here.
* version.c (doSubsystem_inits): Call _gpgme_io_subsystem_init.

* debug.c (debug_init): Drop const qualifier from E.

* ath.h (struct ath_ops): Make ADDR argument of CONNECT prototype const.
(ath_connect): Make ADDR argument const.
* ath-pthread.c (ath_connect): Likewise.
* ath-pth.c (ath_connect): Likewise.
* ath-compat.c (ath_connect): Likewise.
* ath.c (ath_connect): Likewise.

* ath.h [HAVE_SYS_SELECT_H]: Include <sys/select.h> for fd_set.
[!HAVE_SYS_SELECT_H]: Include <sys/time.h>.
* conversion.c (_gpgme_hextobyte): Drop "unsigned" from type of SRC argument.
* util.h (_gpgme_hextobyte): Likewise for prototype.

* gpgme.h: Remove trailing comma in enum.

* rungpg.c: Do not include <time.h>, <sys/time.h>, <sys/types.h>, <signal.h>, <fcntl.h>, or "unistd.h".

2003-10-02 Marcus Brinkmann <marcus@g10code.de>

* engine-backend.h (struct engine_ops): Add argument TYPE.
* engine.c (_gpgme_engine_op_edit): Likewise.
* engine.h: Likewise.
* rungpg.c (gpg_edit): Likewise. Use it.
* edit.c (edit_start): Likewise. Pass it on.
  (gpgme_op_edit_start, gpgme_op_edit): Likewise.
  (gpgme_op_card_edit_start, gpgme_op_card_edit): New functions.

2003-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpg_strerror_r): Change prototype to match gpg_strerror_r change.
* error.c (gpg_strerror_r): Likewise, also update implementation.

* gpgme.c (gpgme_hash_algo_name): Change name of RMD160 to RIPEMD160, name of TIGER to TIGER192, name of CRC32-RFC1510 to CRC32RFC1510, and name of CRC24-RFC2440 to CRC24RFC2440.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add prototype for gpgme_set_locale.

* gpgme.h: Define macro _GPGME_INLINE depending on the compiler characteristics and use that instead __inline__.

* context.h (struct gpgme_context): New members lc_cstype and lc_messages.
  * gpgme.c: Include <locale.h>.
  (def_lc_lock, def_lc_cstype, def_lc_messages): New static variables.
  (gpgme_set_locale): New function.
* engine.c (_gpgme_engine_new): Add arguments lc_cstype and lc_messages.
* engine.h (_gpgme_engine_new): Likewise.
* engine-gpgsm.c (gpgsm_new): Likewise.
* rungpg.c (gpg_new): Likewise.
2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* engine-backend.h (struct engine_ops): Likewise to NEW.
* op-support.c (_gpgme_op_reset): Likewise to invocation of _gpgme_engine_new.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_strerror_r): New prototype.
* error.c (gpgme_strerror_r): New function.

* util.h (_gpgme_getenv): Add prototype.
* Makefile.am (libgpgme_real_la_SOURCES): Add get-env.c.
* rungpg.c (build_argv): Use _gpgme_getenv.
* debug.c (debug_init): Likewise.
* engine-gpgsm.c (gpgsm_new): Likewise.
  (gpgsm_new): Use ttyname_r.
* w32-io.c (_gpgme_io_spawn): Disable debugging for now.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in: Use $libdir, not @libdir@, for the echo command.

* gpgme-config.in: Rewritten.
* gpgme.m4: Rewritten.

2003-08-19 Marcus Brinkmann <marcus@g10code.de>

The ath files (ath.h, ath.c, ath-pth.c, ath-pthread.c, ath-compat.c, ath-pth-compat.c and ath-pthread-compat.c) have been updated to have better thread support, and the Makefile.am was changed to reflect that.

* util.h ![HAVE_FOPENCOOKIE]: Remove fopencookie declaration.
* engine-gpgsm.c (gpgsm_assuan_simple_command): Set ERR to return value of status_fnc.
* rungpg.c (start): Return SAVED_ERRNO, not errno.

2003-08-18 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (start): Use saved_errno instead errno.

2003-08-18 Marcus Brinkmann <marcus@g10code.de>

* funopen.c, putc_unlocked.c, isascii.c, memrchr.c: New files.
* fopencookie.c: File removed.

2003-08-15 Marcus Brinkmann <marcus@g10code.de>
* gpgme-config.in: Put gpg-error related flags after gpgme's.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_new_signature): Rename member CLASS to _OBSOLETE_CLASS, add member CLASS with type unsigned int.
* sign.c (parse_sig_created): Also set SIG->_unused_class for backward compatibility.

2003-08-04 Marcus Brinkmann <marcus@g10code.de>

* verify.c (parse_new_sig): Fix status parsing case.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_subkey): Add flag CAN_AUTHENTICATE. Lower UNUSED to 23 bits.
(struct _gpgme_key): Likewise.
* keylist.c (set_mainkey_capability): Support 'a' and 'A'.
(set_subkey_capability): Support 'a'.

* keylist.c (gpgme_get_key): Check if there is more than one key listed, and return GPG_ERR_AMBIGUOUS_NAME in that case.

* util.h (_gpgme_decode_c_string): Change type of LEN argument to size_t.
(_gpgme_decode_percent_string): Likewise.
* conversion.c (_gpgme_decode_c_string): Likewise.
(_gpgme_decode_percent_string): Likewise.
(_gpgme_map_gnupg_error): Change type of I to unsigned int.
* signers.c (gpgme_signers_clean): Likewise.
(gpgme_signers_enum): New unsigned variable SEQNO, set to SEQ. Use SEQNO instead SEQ.
* wait.c (fd_table_put): Change type of I and J to unsigned int.
* wait-global.c (_gpgme_wait_global_event_cb): Change type of IDX to unsigned int.
(gpgme_wait): Change type of I and IDX to unsigned int.
* wait-private.c (_gpgme_wait_on_condition): Change type of IDX and I to unsigned int.
* posix-io.c (_gpgme_io_close): Cast return value of macro DIM to int to suppress gcc warning.
(_gpgme_io_set_close_notify): Likewise.
(_gpgme_io_select): Change type of I to unsigned int.
* engine.c (gpgme_get_engine_info): Change type of PROTO to unsigned int.
* wait-user.c (_gpgme_user_io_cb_handler): Change type of IDX and I to unsigned int.
2003-07-29 Marcus Brinkmann <marcus@g10code.de>

* decrypt-verify.c (decrypt_verify_status_handler): Expand silly and wrong expression.
* encrypt-sign.c (encrypt_sign_status_handler): Likewise.
* encrypt.c (encrypt_sym_status_handler): Likewise.
* sign.c (sign_status_handler): Likewise.
* verify.c (verify_status_handler): Likewise.
* decrypt.c (decrypt_status_handler): Likewise.

* engine.c (gpgme_get_engine_info): Initialize NULL.

2003-07-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (gpg_error_libs): Quote GPG_ERROR_CFLAGS and GPG_ERROR_LIBS when setting the corresponding variables. Reported by Stphane Corthsy.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (set_recipients): Move declaration of NEWLEN to the beginning of the block.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* data-mem.c (mem_write): Copy original buffer content.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_user_ids_release, gpgme_user_ids_append): Remove prototypes.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (AM_CPPFLAGS): Add @GPG_ERROR_CFLAGS@.
* gpgme-config.in (gpg_error_libs, gpg_error_cflags): New variables. Print them.

* op-support.c (_gpgme_parse_inv_userid): Rename to _gpgme_parse_inv_recp and change to new datatype.
* ops.h (_gpgme_parse_inv_key): Fix prototype.
* gpgme.h (struct _gpgme_invalid_user_id): Rename to __gpgme_invalid_key. Rename field ID to KEY.
(gpgme_invalid_user_id_t): Rename to gpgme_invalid_key_t.
(struct _gpgme_op_encrypt_result): Here, too.
(struct _gpgme_op_sign_result): Likewise.
* encrypt.c (struct op_data): Likewise.
(release_op_data): Likewise.
* sign.c (struct op_data): Likewise.
(release_op_data): Likewise.

* posix-io.c (_gpgme_io_read): Save errno across debug calls.
(_gpgme_io_write): Likewise.
(_gpgme_io_pipe): Likewise.
(_gpgme_io_select): Likewise.

* runpg.c (struct engine_gpg): Remove arg_error.
(add_arg): Don't set arg_error.
(add_data): Likewise.
(start): Don't check arg_error.
(gpg_new): Check return value of add_arg.
* verify.c (parse_notation): Free allocated memory at error.

2003-06-05 Marcus Brinkmann <marcus@g10code.de>

Everywhere: Use libgpg-error error codes.

* Makefile.am (EXTRA_DIST): Remove mkerrors.
(BUILT_SOURCES): Remove errors.c.
(MOSTLYCLEANFILES): Likewise.
(libgpgme_la_SOURCES): Likewise. Add error.c.
(errors.c): Remove target.
* mkerrors: File removed.
* error.c: New file.

* gpgme.h (gpgme_error_t): Change to type gpg_error_t.
(gpgme_err_code_t, gpgme_err_source_t): New types.
(gpgme_err_code, gpgme_err_source, gpgme_error, gpgme_err_make):
New static inline functions.
(gpgme_strsource, gpgme_err_code_from_errno,
gpgme_err_code_to_errno, gpgme_err_make_from_errno,
gpgme_error_from_errno): New prototypes.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_op_export_start): Change second arg to const char *.
(gpgme_op_export): Likewise.
(gpgme_op_export_ext_start): New prototype.
(gpgme_op_export_ext): Likewise.
* engine.h: Likewise for _gpgme_engine_op_export and
_gpgme_engine_op_export_ext.
* engine-backend.h (struct engine_ops): Change second argument of
prototype of export to const char *, and add reserved int as
third argument. Add prototype for export_ext.
* engine.c (_gpgme_engine_op_export_ext): New function.
(_gpgme_engine_op_export): Change second argument of prototype of export to const char *, and add reserved int as third argument.
* rungpg.c (gpg_export): Change second argument of prototype of export to const char *, and add reserved int as third argument.
(gpg_export_ext): New function.
(gpg_keylist_ext): Break loop at error.
(_gpgme_engine_ops_gpg): Add gpg_export_ext.
* engine-gpgsm.c (gpgsm_export): Change second argument of prototype of export to const char *, and add reserved int as third argument.
(gpgsm_export_ext): New function.
(_gpgme_engine_ops_gpgsm): Add gpgsm_export_ext.
* export.c (export_start): Change second argument of prototype of export to const char *, and add reserved int as third argument.
(gpgme_op_export_start): Likewise.
(export_ext_start): New function.
(gpgme_op_export_ext_start): Likewise.
(gpgme_op_export_ext): Likewise.

* gpgme.h (gpgme_keylist_mode_t): New type for anonymous enum.
(gpgme_sigsum_t): New type for anonymous enum.

* encrypt-sign.c (encrypt_sign_start): Check for errors earlier, and return an error if RECP is not set.

* Makefile.am (libgpgme_la_SOURCES): Remove user-id.c.
* user-id.c: Remove file.
* ops.h: Remove prototype for _gpgme_user_ids_all_valid.
* gpgme.h (gpgme_encrypt_flags_t): New type.
(gpgme_op_encrypt_start): Change second parameter to type gpgme_key_t[], and add third parameter.
(gpgme_op_encrypt): Likewise.
(gpgme_op_encrypt_sign_start): Likewise.
(gpgme_op_encrypt_sign): Likewise.
* encrypt-c (encrypt_start): Likewise.
(gpgme_op_encrypt_start): Likewise.
(gpgme_op_encrypt): Likewise. Pass flags to engine.
* encrypt-sign.c (encrypt_sign_start): Likewise.
(gpgme_op_encrypt_sign_start): Likewise.
(gpgme_op_encrypt_sign): Likewise.
* engine-backend.h (struct engine_ops): Likewise for prototypes of encrypt and encrypt_sign.
* engine.h: Likewise for prototypes of _gpgme_engine_op_encrypt and _gpgme_engine_op_encrypt_sign.
* engine.c (_gpgme_engine_op_encrypt): Likewise.
(_gpgme_engine_op_encrypt_sign): Likewise.
* rungpg.c (gpg_encrypt): Likewise.
(gpg_encrypt_sign): Likewise.
* rungpg.c (gpg_encrypt): Check flags for always trust option.
* engine-gpgsm.c (gpgsm_encrypt): Likewise.
  (set_recipients): Rewritten to use keys instead user IDs.
* rungpg.c (append_args_from_recipients): Rewritten to use keys
  instead user IDs.
* encrypt.c (_gpgme_encrypt_status_handler): Change errors
  returned to GPGME_Invalid_Key and GPGME_General_Error.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Rename GpgsmObject to engine_gpgsm_t.
  (struct gpgsm_object_s): Rename to struct engine_gpgsm.
* rungpg.c: Rename GpgObject to engine_gpg_t.
  (struct gpg_object_s): Rename to struct engine_gpg.

* context.h (struct gpgme_context): Change EngineObject to
  engine_object_t.
  (enum ctx_op_data_type): Rename to ctx_op_data_id_t.
  (ctx_op_data_t): New type.
  (struct gpgme_context): Use it.
* ops.h (_gpgme_op_data_lookup): Use new type name.
* op-support.c (_gpgme_op_data_lookup): Likewise.
* engine.c: Rename EngineObject to engine_t in the file. Also
  EngineStatusHandler to engine_status_handler_t,
  EngineCommandHandler to engine_command_handler_t and
  EngineColonLineHandler to engine_colon_line_handler.
* rungpg.c (start): Likewise.
* engine-gpgsm.c: Likewise.
* engine-backend.h (struct engine_ops): Likewise
* engine.h (struct engine_object_s): Rename to struct engine.
  (EngineObject): Rename to engine_t. Also everywhere else in the
  file.
  (EngineStatusHandler): Rename to engine_status_handler_t.
  (EngineColonLineHandler): Rename to engine_colon_line_handler_t.
  (EngineCommandHandler): Rename to engine_command_handler_t.

* engine-gpgsm.c (gpgsm_export): Fix bug in last change.

* Makefile.am (libgpgme_la_SOURCES): Remove recipient.c, add
  user-id.c.
* gpgme.h (gpgme_recipients_t): Removed.
  (gpgme_recipients_new, gpgme_recipients_release,
   gpgme_recipients_add_name,
   gpgme_recipients_add_name_with_validity, gpgme_recipients_count,
   gpgme_recipients_enum_open, gpgme_recipients_enum_read,
   gpgme_recipients_enum_close): Removed.
  (gpgme_op_encrypt, gpgme_op_encrypt_start, gpgme_op_encrypt_sign,
   gpgme_op_encrypt_sign_start, gpgme_op_export_start,
gpgme_op_export): Change second argument to gpgme_user_id_t.
(gpgme_user_ids_release): New prototype.
(gpgme_user_ids_append): Likewise.
* ops.h (_gpgme_recipients_all_valid): Remove.
(_gpgme_user_ids_all_valid): Add.
* context.h (struct gpgme_recipients): Removed.
* user-id.c: New file.
* recipient.c: Removed file.
* rungpg.c (append_args_from_recipients): Change last arg to
gpgme_user_id_t. Reimplement.
(gpg_encrypt): Change second arg to gpgme_user_id_t.
(gpg_encrypt_sign): Likewise.
(gpg_export): Likewise. Rewrite user ID list code.
* engine.c (_gpgme_engine_op_encrypt): Change second arg to
gpgme_user_id_t.
(_gpgme_engine_op_encrypt_sign): Likewise.
(_gpgme_engine_op_export): Likewise.
* engine.h (_gpgme_engine_op_encrypt, _gpgme_engine_op_encrypt_sign,
_gpgme_engine_op_export): Likewise.
* engine-gpgsm.c (set_recipients): Likewise. Rewrite loop code.
(gpgsm_encrypt): Likewise.
(gpgsm_export): Likewise.
* engine-backend.h (struct engine_ops): Likewise for members
ENCRYPT, ENCRYPT_SIGN and EXPORT.
* export.c (export_start, gpgme_op_export_start, gpgme_op_export):
 Likewise.
* encrypt.c (encrypt_start): Likewise. Don't check for count of
recipients.
(gpgme_op_encrypt_start): Likewise.
(gpgme_op_encrypt): Likewise.
* encrypt-sign.c (encrypt_sign_start): Likewise.
(gpgme_op_encrypt_sign): Likewise.
(gpgme_op_encrypt_sign_start): Likewise.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_op_import_result): Add skipped_new_keys.
* import.c (parse_import_res): Add skipped_new_keys parser.

* op-support.c (_gpgme_parse_inv_userid): Add missing break
statements.
* encrypt.c (gpgme_op_encrypt): Use gpgme_error_t instead of int.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* encrypt.c (gpgme_op_encrypt_result): Use intermediate variable
HOOK to avoid compiler warning. Don't ask, you don't want to know.
(_gpgme_encrypt_status_handler): Likewise.
(_gpgme_op_encrypt_init_result) Likewise.
* decrypt.c (gpgme_op_decrypt_result) Likewise.
(_gpgme_decrypt_status_handler) Likewise.
(_gpgme_op_decrypt_init_result) Likewise.
* verify.c (gpgme_op_verify_result) Likewise.
(_gpgme_verify_status_handler) Likewise.
(_gpgme_op_verify_init_result) Likewise.
* edit.c (edit_status_handler) Likewise.
(command_handler) Likewise.
(edit_start) Likewise.
* genkey.c (gpgme_op_genkey_result) Likewise.
(genkey_status_handler) Likewise.
(genkey_start) Likewise.
* import.c (gpgme_op_import_result) Likewise.
(import_status_handler) Likewise.
(_gpgme_op_import_start) Likewise.
* trustlist.c (gpgme_op_trustlist_next) Likewise.
(_gpgme_op_trustlist_event_cb) Likewise.
(gpgme_op_trustlist_start) Likewise.
* keylist.c (gpgme_op_keylist_result) Likewise.
(keylist_colon_handler) Likewise.
(keylist_status_handler) Likewise.
(_gpgme_op_keylist_event_cb) Likewise.
(gpgme_op_keylist_start) Likewise.
(gpgme_op_keylist_ext_start) Likewise.
(gpgme_op_keylist_next) Likewise.
* passphrase.c (_gpgme_passphrase_status_handler) Likewise.
(_gpgme_passphrase_command_handler_internal) Likewise.
* sign.c (gpgme_op_sign_result) Likewise.
(_gpgme_sign_status_handler) Likewise.
(_gpgme_op_sign_init_result) Likewise.

* passphrase.c (_gpgme_passphrase_command_handler_internal) Fix
access to pointer type.

2003-05-26 Marcus Brinkmann <marcus@g10code.de>

* engine.h (EngineCommandHandler) Change last argument to int fd.
* gpgme.h (gpgme_passphrase_cb_t) Rewritten to take parts of the
description and fd.
(gpgme_edit_cb_t) Change last argument to int fd.
* ops.h (_gpgme_passphrase_command_handler_internal) New prototype.
* passphrase.c: Include <assert.h>.
(op_data_t) Rename userid_hint to uid_hint, remove last_pw_handle.
release_op_data) Check values before calling free.
(_gpgme_passphrase_status_handler) Likewise.
(_gpgme_passphrase_command_handler_internal) New function.
(_gpgme_passphrase_command_handler) Rewritten.
* edit.c (edit_status_handler): Pass -1 as fd argument.
(command_handler): Update prototype. New variable processed. Use it to store return value of
_gpgme_passphrase_command_handler_internal which is now used instead _gpgme_passphrase_command_handler. Use it also to check if we should call the user's edit function. Pass fd to user's edit function.

* rungpg.c (struct gpg_object_s): Change type of cmd.cb_data to void *.
(command_handler): Update prototype. New variable processed. Use it to store return value of
_gpgme_passphrase_command_handler_internal which is now used instead _gpgme_passphrase_command_handler. Use it also to check if we should call the user's edit function. Pass fd to user's edit function.

* rungpg.c (gpg_release): Check value before calling free. Do not release cmd.cb_data.
(command_cb): Function removed.
(command_handler): New function. Thus we don't use a data object for command handler stuff anymore, but handle it directly. This allows proper error reporting (cancel of passphrase requests, for example). Also all callbacks work via direct writes to the file descriptor (so that passphrases are not kept in insecure memory).

(gpg_set_command_handler): Rewritten to use even more ugly hacks.
(read_status): Check cmd.keyword before calling free. Install command_handler as the I/O callback handler with GPG as private data.

* rungpg.c (gpg_new): Add --enable-progress-filter to gpg invocation.
* decrypt-verify.c (_gpgme_op_decrypt_verify_start): Rename to decrypt_verify_start.
(gpgme_op_decrypt_verify_start): Call decrypt_verify_start.
(gpgme_op_decrypt_verify): Likewise.
* verify.c (verify_status_handler): New function that also calls progress status handler.
(_gpgme_op_verify_start): Set status handler to verify_status_handler. Rename to (verify_start).
(gpgme_op_verify_start): Call verify_start.
(gpgme_op_verify): Likewise.
* encrypt.c (encrypt_status_handler): New function.
(_gpgme_encrypt_sym_status_handler): Call progress status handler. Make static. Rename to encrypt_sym_status_handler.
(encrypt_start): Set status handler to encrypt_sym_status_handler or encrypt_status_handler.

* sign.c (sign_status_handler): New function.
(sign_start): Set status handler to sign_status_handler.
* decrypt.c (decrypt_status_handler): New function that also calls progress status handler.
(decrypt_start): Set status handler to decrypt_status_handler.
* encrypt-sign.c (encrypt_sign_status_handler): Likewise.
* decrypt-verify.c (decrypt_verify_status_handler): Call _gpgme_progress_status_handler.
* conversion.c (_gpgme_decode_c_string): Add missing break statement.

* recipient.c (gpgme_recipients_add_name_with_validity): Add one to buffer to allocate.

2003-05-19 Marcus Brinkmann <marcus@g10code.de>

* verify.c (parse_new_sig): Fix ERRSIG case.
Submitted by Benjamin Lee <benjaminlee@users.sf.net>.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: The following types are renamed. The old name is kept as a deprecated typedef.
  (GpgmeCtx): Rename to gpgme_ctx_t.
  (GpgmeData): Rename to gpgme_data_t.
  (GpgmeRecipients): Rename to gpgme_recipients_t.
  (GpgmeError): Rename to gpgme_error_t.
  (GpgmeDataEncoding): Rename to gpgme_data_encoding_t.
  (GpgmePubKeyAlgo): Rename to gpgme_pubkey_algo_t.
  (GpgmeHashAlgo): Rename to gpgme_hash_algo_t.
  (GpgmeSigStat): Rename to gpgme_sig_stat_t.
  (GpgmeSigMode): Rename to gpgme_sig_mode_t.
  (GpgmeAttr): Rename to gpgme_attr_t.
  (GpgmeValidity): Rename to gpgme_validity_t.
  (GpgmeProtocol): Rename to gpgme_protocol_t.
  (GpgmeStatusType): Rename to gpgme_status_code_t.
  (GpgmeEngineInfo): Rename to gpgme_engine_info_t.
  (GpgmeSubkey): Rename to gpgme_subkey_t.
  (GpgmeKeySig): Rename to gpgme_keysig_t.
  (GpgmeUserID): Rename to gpgme_user_id_t.
  (GpgmePassphraseCb): Rename to gpgme_passphrase_cb_t.
  (GpgmeProgressCb): Rename to gpgme_progress_cb_t.
  (GpgmeEditCb): Rename to gpgme_edit_cb_t.
  (GpgmeIOCb): Rename to gpgme_io_cb_t.
  (GpgmeRegisterIOCb): Rename to gpgme_register_io_cb_t.
  (GpgmeRemoveIOCb): Rename to gpgme_remove_io_cb_t.
  (GpgmeEventIO): Rename to gpgme_event_io_t.
  (GpgmeEventIOCb): Rename to gpgme_event_io_cb_t.
  (GpgmeIOCbs): Rename to gpgme_io_cbs.
  (gpgme_io_cbs_t): New type.
  (GpgmeDataReadCb): Rename to gpgme_data_read_cb_t.
  (GpgmeDataWriteCb): Rename to gpgme_data_write_cb_t.
  (GpgmeDataSeekCb): Rename to gpgme_data_seek_cb_t.
  (GpgmeDataReleaseCb): Rename to gpgme_data_release_cb_t.
  (GpgmeDataCbs): Rename to gpgme_data_cbs.
  (gpgme_data_cbs_t): New type.
(GpgmeInvalidUserID): Rename to gpgme_invalid_user_id_t.
(GpgmeEncryptResult): Rename to gpgme_encrypt_result_t.
(GpgmeDecryptResult): Rename to gpgme_decrypt_result_t.
(GpgmeNewSignature): Rename to gpgme_new_signature_t.
(GpgmeSignResult): Rename to gpgme_sign_result_t.
(GpgmeSigNotation): Rename to gpgme_sig_notation_t.
(GpgmeSignature): Rename to gpgme_signature_t.
(GpgmeVerifyResult): Rename to gpgme_verify_result_t.
(GpgmeImportStatus): Rename to gpgme_import_status_t.
(GpgmeImportResult): Rename to gpgme_import_result_t.
(GpgmeGenKeyResult): Rename to gpgme_genkey_result_t.
(GpgmeKeyListResult): Rename to gpgme_keylist_result_t.
(GpgmeTrustItem): Rename to gpgme_trust_item_t.
* gpgme.h (gpgme_deprecated_error_t): New type, swallowing macros
GPGME_No_Recipients, GPGME_Invalid_Recipient and
GPGME_No_Passphrase.
* data.h (struct gpgme_data_s): Rename to struct gpgme_data.
* context.h (struct gpgme_context_s): Rename to struct
gpgme_context.
(struct gpgme_recipients_s): Rename to gpgme_recipients.

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* keylist.c (finish_key): Clear OPD->tmp_uid.

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* verify.c (_gpgme_verify_status_handler): Return GPGME_No_Data
for NODATA status without signatures.

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* key.c (_gpgme_key_append_name): Use decoded string to parse user id.
(_gpgme_key_add_sig): Likewise.

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* context.h (struct gpgme_context_s): Remove member op_info.

* key.c (_gpgme_key_add_sig): Initialize SIG->uid.

* gpgme.h (GpgmeError): Add deprecated values for
GPGME_Internal_Type and GPGME_Internal_Mode.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_get_op_info): Remove prototype.
* ops.h (_gpgme_set_op_info,
_gpgme_data_release_and_return_string, _gpgme_data_get_as_string,
_gpgme_data_append, _gpgme_data_append_string,
_gpgme_data_append_string_for_xml, _gpgme_data_append_for_xml,
_gpgme_data_append_percentstring_for_xml): Likewise.
(_gpgme_progress_status_handler): Change first arg to void *.
* progress.c (_gpgme_progress_status_handler): Likewise.
* conversion.c: Do not include <string.h>, <errno.h>, <ctype.h>,
and <sys/types.h>, but <string.h>.
(_gpgme_data_append): Remove function.
(_gpgme_data_append_string): Likewise.
(_gpgme_data_append_for_xml): Likewise.
(_gpgme_data_append_string_for_xml): Likewise.
(_gpgme_data_append_percentstring_for_xml): Likewise.
* data-mem.c (_gpgme_data_get_as_string): Likewise.
(_gpgme_data_release_and_return_string): Likewise.
* gpgme.c (gpgme_get_op_info): Likewise.
(_gpgme_set_op_info): Likewise.

* gpgme.h (struct _gpgme_key): New structure.
(GpgmeKey): Define using _gpgme_key.
(struct _gpgme_subkey): New structure.
(GpgmeSubKey): New type.
(struct _gpgme_key_sig): New structure.
(GpgmeKeySig): New type.
(struct _gpgme_user_id): New structure.
(GpgmeUserID): New type.
(struct _gpgme_op_keylist_result): New structure.
(GpgmeKeyListResult): New type.
(gpgme_op_keylist_result): New function.
(_gpgme_key_get_as_xml): Remove prototype.
* context.h (struct gpgme_context_s): Remove members tmp_key,
tmp_uid, key_cond and key_queue.
(struct key_queue_item_s): Remove structure.
(struct user_id_s): Remove structure.
(struct gpgme_recipients_s): Replace with simple
GpgmeUserID list.
* gpgme.c (gpgme_release): Do not release CTX->tmp_key.
* ops.h (_gpgme_key_add_subkey, _gpgme_key_append_name,
_gpgme_key_add_sig, _gpgme_trust_item_new): New prototypes.
* rungpg.c (command_cb): Return GpgmeError instead int.
New variable ERR. Use it to hold return value of cmd handler.
(gpg_delete): Access fingerprint of key directly.
(append_args_from_signers): Likewise.
(gpg_edit): Likewise.
(append_args_from_recipients): Use GpgmeUserID for recipient list.
* engine-gpgsm.c: Do not include "key.h".
(gpgsm_delete): Access fingerprint of key directly.
(gpgsm_sign): Likewise.
(set_recipients): Use GpgmeUserID for recipients. Invert invalid user ID flag.
* key.h: File removed.
* key.c: Completely reworked to use exposed GpgmeKey data types.
* keylist.c: Likewise.
* recipient.c: Completely reworked to use GpgmeUserID.

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* gpgme.h (gpgme_get_key): Remove force_update argument.
* key-cache.c: File removed.
* Makefile.am (libgpgme_la_SOURCES): Remove key-cache.c.
* ops.h (_gpgme_key_cache_add, _gpgme_key_cache_get): Remove prototypes.
* keylist.c (_gpgme_op_keylist_event_cb): Don't call _gpgme_key_cache_add.
(gpgme_get_key): New function.
* verify.c (gpgme_get_sig_key): Remove last argument to gpgme_get_key invocation.

* gpgme.h (struct _gpgme_trust_item): New structure. (GpgmeTrustItem): New type.
(gpgme_trust_item_ref, gpgme_trust_item_unref): New prototypes.
* context.h (struct trust_queue_item_s): Remove structure.
(struct gpgme_context_s): Remove trust_queue member.
* Makefile.am (libgpgme_la_SOURCES): Add trust-item.c.
* trust-item.c: New file.
* trustlist.c: Do not include <stdio.h> or <time.h>, but "gpgme.h".
(struct trust_queue_item_s): Change to new type op_data_t.
(trust_status_handler): Change first argument to void *.
(trust_colon_handler): Likewise.
(_gpgme_op_trustlist_event_cb): Use op_data_t type.
(gpgme_op_trustlist_start): Use op_data_t and rework error handling.
(gpgme_op_trustlist_next): Use op_data_t.
(gpgme_trust_item_release): Remove function.
(gpgme_trust_item_get_string_attr): Likewise.
(gpgme_trust_item_get_int_attr): Likewise.

* verify.c (calc_sig_summary): Do not set GPGME_SIGSUM_SYS_ERROR for bad signatures.

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* context.h: Remove OPDATA_VERIFY_COLLECTING.
(struct gpgme_context_s): Remove member notation.
* gpgme.h: Make enum for GPGME_KEYLIST_MODE_* values.
* gpgme.h (struct _gpgme_sig_notation): New structure.
  (GpgmeSigNotation): New type.
  (struct _gpgme_signature): New structure.
  (GpgmeSignature): New type.
  (struct _gpgme_op_verify_result): New structure.
  (GpgmeVerifyResult): New type.
  (gpgme_op_verify_result): New prototype.
  (gpgme_get_notation): Remove prototype.
* ops.h (_gpgme_op_verify_init_result): New prototype.
  (_gpgme_verify_status_handler): Change first argument to void *.
* util.h (_gpgme_decode_percent_string, _gpgme_map_gnupg_error):
  New prototypes.
* conversion.c (_gpgme_decode_percent_string): New function.
  (gnupg_errors): New static global.
  (_gpgme_map_gnupg_error): New function.
* gpgme.c (gpgme_release): Don't release CTX->notation.
  (gpgme_get_notation): Remove function.
* decrypt-verify.c (_gpgme_op_decrypt_verify_start): Call
  _gpgme_op_verify_init_result.
* verify.c: Do not include <stdio.h>, <assert.h> and "key.h", but
do include "gpgme.h".
  (struct verify_result): Replace with ...
  (op_data_t): ... this type.
  (release_verify_result): Remove function.
  (release_op_data): New function.
  (is_token): Remove function.
  (skip_token): Remove function.
  (copy_token): Remove function.
  (gpgme_op_verify_result): New function.
  (calc_sig_summary): Rewritten.
  (finish_sig): Remove function.
  (parse_new_sig): New function.
  (parse_valid_sig): New function.
  (parse_notation): New function.
  (parse_trust): New function.
  (parse_error): New function.
  (_gpgme_verify_status_handler): Rewritten. Change first argument
to void *.
  (_gpgme_op_verify_start): Rework error handling. Call
  _gpgme_op_verify_init_result.
  (gpgme_op_verify): Do not release or clear CTX->notation.
  (gpgme_get_sig_status): Rewritten.
  (gpgme_get_sig_string_attr): Likewise.
  (gpgme_get_sig_ulong_attr): Likewise.
  (gpgme_get_sig_key): Likewise.
* gpgme.h (struct _gpgme_op_decrypt_result): New structure.
(GpgmeDecryptResult): New type.
(gpgme_op_decrypt_result): New prototype.

* ops.h (_gpgme_op_decrypt_init_result): New prototype.
(_gpgme_decrypt_status_handler): Fix prototype.
(_gpgme_decrypt_start): Remove prototype.

* decrypt-verify.c: Do not include <stdio.h>, <stdlib.h>,
<string.h> and <assert.h>, "util.h" and "context.h", but
"gpgme.h".
(decrypt_verify_status_handler): Change first argument to void *
and rework error handling.
(gpgme_op_decrypt_verify_start): New function.
(gpgme_op_decrypt_verify_status_handler): New prototype.

(decrypt_verify): Likewise.

* decrypt.c: Include <string.h>, "gpgme.h" and "util.h".
(struct decrypt_result): Change to typedef op_data_t, rewritten.
(is_token): Remove function.
(release_op_data): New function.
(skip_token): Remove function.
(gpgme_op_decrypt_result): New function.
(_gpgme_decrypt_status_handler): Change first argument to void *
Rework error handling.
(gpgme_op_decrypt_start): Rename to ...
(decrypt_start): ... this. Call _gpgme_op_decrypt_init_result.
(gpgme_op_decrypt_init_result): New function.
(gpgme_op_decrypt): Use decrypt_start.
(gpgme_op_decrypt): Likewise.

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* encrypt-sign.c: Do not include <stddef.h>, <stdio.h>,
<stdlib.h>, <string.h>, <assert.h> and "util.h", but "gpgme.h".
(_gpgme_op_encrypt_sign_start): Rename to ...
(encrypt_sign_start): ... this.
(gpgme_op_encrypt_sign_start): Use encrypt_sign_start, not
_gpgme_op_encrypt_sign_start.
(gpgme_op_encrypt_sign): Likewise.

* gpgme.h (GpgmeEncryptResult): New data type.
(gpgme_op_encrypt_result): New prototype.

* ops.h (_gpgme_op_encrypt_init_result): New prototype.
(_gpgme_encrypt_status_handler): Fix prototype.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Call
_gpgme_op_encrypt_init_result.
* encrypt.c: Do not include <stdio.h>, <assert.h>, "util.h" and
"wait.h". Include <errno.h> and "gpgme.h".
(SKIP_TOKEN_OR_RETURN): Remove macro.
(struct encrypt_result): Rename to ...

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(op_data_t): ... new data type. Rewrite for user result data.
(append_xml_encinfo): Remove function.
(release_op_data): New function.
(gpgme_op_encrypt_result): New function.
(_gpgme_op_encrypt_status_handler): Change first argument to void *.
Rewrite result parsing.
(_gpgme_op_encrypt_sym_status_handler): Change first argument to void *.
(_gpgme_op_encrypt_init_result): New function.
(_gpgme_op_encrypt_start): Rename to ...
(encrypt_start): ... this.
(gpgme_op_encrypt_start): Use encrypt_start, not gpgme_op_encrypt_start.
(gpgme_op_encrypt): Likewise.

* gpgme.h (GpgmePubKeyAlgo, GpgmeHashAlgo, GpgmeInvalidUserID,
GpgmeNewSignature, GpgmeSignResult): New data types.
(gpgme_op_sign_result, gpgme_pubkey_algo_name,
gpgme_hash_algo_name): New prototypes.
* gpgme.c (gpgme_pubkey_algo_name): New function.
(gpgme_hash_algo_name): Likewise.
* ops.h (_gpgme_parse_inv_userid, _gpgme_op_sign_init_result): New
prototype.
(_gpgme_op_sign_status_handler): Fix prototype.
* op-support.c: Include <errno.h> and <string.h>.
(_gpgme_parse_inv_userid): New function.
* sign.c: Include <errno.h> and "gpgme.h", but not <stdio.h>,
<assert.h> and "util.h".
(SKIP_TOKEN_OR_RETURN): Remove macro.
(struct sign_result): Change to op_data_t type and rework it.
(release_sign_result): Rename to ...
(release_op_data): ... this and rewrite it.
(append_xml_info): Remove function.
(gpgme_op_sign_result): New function.
(parse_sig_created): New function.
(_gpgme_sign_status_handler): Change first argument to void *.
Rewrite the function to use the new result structure and functions.
(_gpgme_op_sign_init_result): New function.
(_gpgme_op_sign_start): Rename to ...
(sign_start): ... this. Call _gpgme_op_sign_init_result.
(gpgme_op_sign_start): Use sign_start instead _gpgme_op_sign_start.
(gpgme_op_sign): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Call
_gpgme_op_encrypt_init_result.

* delete.c: Include <errno.h> and "gpgme.h", but not "util.h" or
"key.h".
(enum delete_problem): Move into function delete_status_handler.
(delete_status_handler): Change first argument to void *. Parse
delete problem with strtol instead atoi. Return better error
values.
(_gpgme_op_delete_start): Rename to ...
(delete_start): ... this. Rework error handling.
(gpgme_op_delete_start): Use delete_start instead
_gpgme_op_delete_start.
(gpgme_op_delete): Likewise.
* gpgme.h (GpgmeDataType): Removed.

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* gpgme.h: Change GPGME_IMPORT_PRIVATE to GPGME_IMPORT_SECRET.
* import.c (parse_import_res): Parse unchanged field.

* gpgme.h: New enum for GPGME_IMPORT_NEW, GPGME_IMPORT_UID,
GPGME_IMPORT_SIG, GPGME_IMPORT_SUBKEY, GPGME_IMPORT_PRIVATE.
(GpgmeError): GPGME_Unknown_Reason, GPGME_Not_Found,
GPGME_Ambiguous_Specification, GPGME_Wrong_Key_Usage,
GPGME_Key_Revoked, GPGME_Key_Expired, GPGME_No_CRL_Known,
GPGME_CRL_Too_Old, GPGME_Policy_Mismatch, GPGME_No_Secret_Key,
GPGME_Key_Not_Trusted, GPGME_Issuer_Missing, GPGME_Chain_Too_Long,
GPGME_Unsupported_Algorithm, GPGME_Sig_Expired,
GPGME_Bad_Signature, GPGME_No_Public_Key added as new error codes.
(struct _gpgme_import_status): New structure.
(GpgmeImportStatus): New type.
(struct _gpgme_op_import_result): New structure.
(GpgmeImportResult): New type.
(gpgme_op_import_result): New function.
* import.c: Include <errno.h> and "gpgme.h", but not "util.h".
(struct import_result): Change to type op_data_t.
(release_import_result): Rename to ...
(release_op_data): ... this.
(append_xml_impinfo): Function removed.
(gpgme_op_import_result): New function.
(parse_import): New function.
(parse_import_res): Likewise.
(import_status_handler): Change first argument to void *. Rewrite
to use new functions.
(_gpgme_op_import_start): Rework error handling.

* edit.c: Do not include <assert.h>, "util.h", but "gpgme.h".
(edit_result): Change to typedef for op_data_t.
(edit_status_handler): Change first argument to void *.
Rework error handling.
(command_handler): Rework error handling.
(_gpgme_op_edit_start): Rename to ...
(edit_start): ... this. Rework error handling.

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(gpgme_op_edit_start): Rewrite using edit_start.
(gpgme_op_edit): Likewise.

* ops.h (_gpgme_passphrase_start): Remove prototype.
* passphrase.c: Do not include <assert.h>, "util.h" or "debug.h", but "gpgme.h".
(struct passphrase_result): Change to typedef for op_data_t.
(release_passphrase_result): Rename to release_op_data.
(_gpgme_passphrase_status_handler): Change first argument to void *.
Use new op_data_t type.
(_gpgme_passphrase_command_handler): Use new op_data_t type.
(_gpgme_passphrase_start): Remove function.
* decrypt.c (_gpgme_decrypt_start): Rewrite error handling. Do not call _gpgme_passphrase_start, but install command handler.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.

* context.h (struct gpgme_context_s): Remove member initialized, use_cms and help_data_1. Add member protocol. Make use_armor and use_textmode bit flags. Make keylist_mode, include_certs, signers_len and signers_size unsigned.
* gpgme.c (gpgme_new): Initialize CTX->protocol.
(gpgme_set_protocol): Do not check CTX. Use CTX->protocol.
(gpgme_get_protocol): Likewise.
(gpgme_release): Do not release CTX->help_data_1.
* op-support.c (_gpgme_op_reset): Use CTX->protocol.

* wait-private.c (_gpgme_wait_private_event_cb): Remove variable CTX.

* data.c: Do not include <assert.h>, but "gpgme.h".
(_gpgme_data_inbound_handler): Expand _gpgme_data_append, because it will go. Do not assert DH.
(_gpgme_data_outbound_handler): Do not assert DH.

* export.c: Do not include <stdlib.h>, "debug.h" and "util.h", but "gpgme.h".
(export_status_handler): Change type of first argument to void *.
(_gpgme_op_export_start): Rename to ...
(export_start): ... this. Rework error handling.
(gpgme_op_export_start): Rewritten to use export_start instead
_gpgme_op_export_start.
(gpgme_op_export): Likewise.

* gpgme.h (GpgmeError): Add GPGME_Busy, GPGME_No_Request.
(GPGME_No_Recipients, GPGME_Invalid_Recipient,
GPGME_No_Passphrase): New macros.
* key.c (gpgme_key_get_string_attr): Fix validity attribute.

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* gpgme.h (struct _gpgme_op_genkey_result): New structure.
  (GpgmeGenKeyResult): New type.
  (gpgme_op_genkey): Drop last argument.
  (gpgme_op_genkey_result): New function.
* genkey.c: Do not include "util.h", but "gpgme.h".
  (struct genkey_result): Replace with ...
  (op_data_t): ... this new type.
  (release_genkey_result): Replace with ...
  (release_op_data): ... this new function.
  (gpgme_op_genkey_result): New function.
  (genkey_status_handler): Rewritten using new op_data_t type.
  (get_key_parameter): New function.
  (_gpgme_op_genkey_start): Renamed to
  (genkey_start): ... this and rewritten.
  (gpgme_op_genkey_start): Use genkey_start instead
    _gpgme_op_genkey_start.
  (gpgme_op_genkey): Rewritten. Remove FPR argument.

* context.h (struct gpgme_context_s): Remove member verbosity.
* gpgme.c (gpgme_new): Do not set member verbosity.
* engine.h (_gpgme_engine_set_verbosity): Remove prototype.
* engine.c (_gpgme_engine_set_verbosity): Remove function.
* engine-backend.h (struct engine_ops): Remove set_verbosity.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm): Remove set_verbosity member.
* runpg.c (_gpgme_engine_ops_gpg): Likewise.
  (gpg_set_verbosity): Remove function.
* decrypt.c (_gpgme_decrypt_start): Don't call
  _gpgme_engine_set_verbosity.
* delete.c (_gpgme_op_delete_start): Likewise.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* keylist.c (gpgme_op_keylist_start): Likewise.
  (gpgme_op_keylist_ext_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.

* Makefile.am (libgpgme_la_SOURCES): Add key-cache.c.
* key.c (key_cache_initialized, key_cache_size,
  key_cache_max_chain_length, ): Removed.
  (struct key_cache_item_s, key_cache_lock, key_cache,
key_cache_unused_items, hash_key, _gpgme_key_cache_add,
_gpgme_key_cache_get, gpgme_get_key): Moved to ...
* key-cache.c: ... here. New file.
* key.h (_gpgme_key_cache_init): Remove prototypes.
(_gpgme_key_cache_add, _gpgme_key_cache_get): Move to ...
* ops.h: ... here.
* version.c: Do not include "key.h".
(do_subsystem_inits): Do not call _gpgme_key_cache_init.

* mkstatus: Strip trailing comma.
* gpgme.h (GpmeStatus): Pretty print.

* gpgme.h (GpmeError): Rename GPGME_No_Passphrase to
GPGME_Bad_Passphrase.
* passphrase.c (_gpgme_passphrase_status_handler): Use
GPGME_Bad_Passphrase instead GPGME_No_Passphrase.

* gpgme.h (GpmeError): Rename GPGME_No_Recipients to
GPGME_No_UserId and GPGME_Invalid_Recipient to
GPGME_Invalid_UserId.
* encrypt.c (_gpgme_encrypt_status_handler): Use GPGME_No_UserId
instead GPGME_No_Recipients and GPGME_Invalid_UserId instead
GPGME_Invalid_UserId.
(_gpgme_op_encrypt_start): Likewise.

* gpgme.h (GpmeError): Remove GPGME_Busy and GPGME_No_Request.
* wait-user.c (_gpgme_wait_user_event_cb): Don't clear CTX->pending.
* wait-private.c (_gpgme_wait_private_event_cb): Likewise.
* wait-global.c (gpgme_wait): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.
(gpgme_get_sig_status): Don't check pending flag.
(gpgme_get_sig_string_attr): Likewise.
(gpgme_get_sig_ulong_attr): Likewise.
(gpgme_get_sig_key): Likewise.
* op-support.c (_gpgme_op_reset): Likewise.
* trustlist.c (gpgme_op_trustlist_start): Don't clear pending flag.
(gpgme_op_trustlist_next): Don't check or clear pending flag.
(gpgme_op_trustlist_end): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* context.h (struct gpgme_context_s): Remove member PENDING.
* decrypt.c (_gpgme_decrypt_start): Likewise.
* delete.c (_gpgme_op_delete_start): Likewise.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* key.c (gpgme_get_key): Likewise.
* keylist.c (gpgme_op_keylist_start): Likewise.
  (gpgme_op_keylist_ext_start): Likewise.
  (gpgme_op_keylist_next): Likewise.
  (gpgme_op_keylist_end): Likewise.
* data-compat.c (gpgme_error_to_errno): Don't convert EBUSY.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GpgmePassphraseCb): Change type to return GpgmeError,
  and add argument for returning the result string.
  (gpgme_cancel): Remove prototype.
* gpgme.c (gpgme_cancel): Remove function.
* context.h (struct gpgme_context_s): Remove member cancel.
* passphrase.c (_gpgme_passphrase_command_handler): Call the
  passphrase callback in the new way.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* edit.c (_gpgme_edit_status_handler): Call the progress status
  handler.

2003-02-05 Marcus Brinkmann <marcus@g10code.de>

* wait-user.c (_gpgme_wait_user_remove_io_cb): Move check for no
  I/O handlers left to ...
  (_gpgme_user_io_cb_handler): ... here.

2003-02-04 Marcus Brinkmann <marcus@g10code.de>

* trustlist.c (trustlist_colon_handler): Release ITEM if name
  could not be allocated.
  (gpgme_trust_item_release): Only release name if it is allocated.
  Reported by Marc Mutz <Marc.Mutz@uni-bielefeld.de>.

2003-02-04 Marcus Brinkmann <marcus@g10code.de>

* runpgp.c (read_status): If he status handler returns an error,
  return it.
  (status_handler): If read_status fails, just return the error.

2003-02-01 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (start): Handle all errors, not only most of
  them.
  (xtoi_1, xtoi_2): Remove macro.
  (status_handler): Replace use of xtoi_2 with _gpgme_hextobyte.
2003-02-01 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (map_assuan_error): Replace
  ASSUAN_Bad_Certificate_Path with ASSUAN_Bad_Certificate_Chain.
  (gpgsm_new): Use assuan_pipe_connect instead assuan_pipe_connect2.

* util.h (DIMof): Remove macro.

* ops.h (_gpgme_op_event_cb, _gpgme_op_event_cb_user,
  _gpgme_data_unread): Prototypes removed.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* types.h: File removed.
* Makefile.am (libgpgme_la_SOURCES): Remove types.h.
* io.h (struct spawn_fd_item_s): Do not include "types.h".
* key.h: Likewise.
* context.h: Likewise.
* eengine-gpgsm.h: Likewise.
* engine.h: Include "gpgme.h" instead "types.h". Add prototypes
  for EngineStatusHandler, EngineColonLineHandler and
  EngineCommandHandler.
  (_gpgme_engine_set_status_handler): Change parameter type from
  GpgmeStatusHandler to EngineStatusHandler.
  (_gpgme_engine_set_command_handler): Change parameter type from
  GpgmeCommandHandler to EngineCommandHandler.
  (_gpgme_engine_set_colon_line_handler): Change parameter type from
  GpgmeColonLineHandler to EngineColonLineHandler.
* engine-backend.h: Include "engine.h" instead "types.h".
  (struct engine_ops): Change Gpgme*Handler parameters in members
  set_command_handler, set_colon_line_handler and set_status_handler
  to Engine*Handler.
* engine.c ( _gpgme_engine_set_status_handler): Change parameter
  type from GpgmeStatusHandler to EngineStatusHandler.
  (_gpgme_engine_set_command_handler): Change parameter type from
  GpgmeCommandHandler to EngineCommandHandler.
  (_gpgme_engine_set_colon_line_handler): Change parameter type from
  GpgmeColonLineHandler to EngineColonLineHandler.
* rungpg.c (struct gpg_object_s): Change type of member status.fnc
  from GpgmeStatusHandler to EngineStatusHandler. Change type of
  member colon.fnc from GpgmeColonLineHandler to
  EngineColonLineHandler. Change type of member cmd.fnc from
  GpgmeCommandHandler to EngineCommandHandler.
* engine-gpgsm.c (struct gpgsm_object_s): Likewise.
* rungpg.c (gpg_set_status_handler): Change parameter type from
  GpgmeStatusHandler to EngineStatusHandler.
* engine-gpgsm.c (gpgsm_set_status_handler): Likewise.
  (assuan_simple_command): Likewise.
* rungpg.c (gpg_set_colon_line_handler): Change parameter type from GpgmeColonLineHandler to EngineColonLineHandler.
* engine-gpgsm.c (gpgsm_set_colon_line_handler): Likewise.
* rungpg.c (gpg_set_command_handler): Change parameter type from GpgmeCommandHandler to EngineCommandHandler.

* engine-gpgsm.c (status_handler): Do not close status fd at end of function.

* ops.h (_gpgme_op_data_lookup): Add prototype.
* op-support.c: Include <stdlib.h>.
(_gpgme_op_data_lookup): New function.
* decrypt.c (_gpgme_release_decrypt_result): Function removed.
(struct decrypt_result_s): Rename to ...
(struct decrypt_result): ... this.
(DecryptResult): New type.
(_gpgme_decrypt_status_handler): Don't use test_and_allocate_result, but use _gpgme_op_data_lookup to retrieve result data object.
* sign.c (_gpgme_release_sign_result): Function removed.
(release_sign_result): New function.
(struct sign_result_s): Rename to ...
(struct sign_result): ... this.
(SignResult): New type.
(_gpgme_sign_status_handler): Don't use test_and_allocate_result, but use _gpgme_op_data_lookup to retrieve result data object.
* encrypt.c (struct encrypt_result_s): Rename to ...
(struct encrypt_result): ... this.
(_gpgme_release_encrypt_result): Function removed.
(release_encrypt_result): New function.
(_gpgme_encrypt_status_handler): Don't use test_and_allocate_result, but use _gpgme_op_data_lookup to retrieve result data object.
* verify.c (struct verify_result_s): Rename to ...
(struct verify_result): ... this. Remove member next.
(VerifyResult): New type.
(_gpgme_release_verify_result): Function removed.
(release_verify_result): New function.
(finish_sig): Change first argument to type VerifyResult. Diddle the type of the op_data structure.
(add_notation): Change first argument to type VerifyResult.
(_gpgme_verify_status_handler): Don't use test_and_allocate_result, but use _gpgme_op_data_lookup to retrieve result data object.
* passphrase.c (struct passphrase_result_s): Rename to ...
(struct passphrase_result): ... this. Remove member next.
(PassphraseResult): New type.
(_gpgme_release_passphrase_result): Function removed.
(release_passphrase_result): New function.
(_gpgme_passphrase_status_handler): Don't use
test_and_allocate_result, but use _gpgme_op_data_lookup to
retrieve result data object.
(_gpgme_passphrase_command_handler): Likewise.
* keylist.c (struct keylist_result_s): Rename to ...
(struct keylist_result): ... this. Remove member next.
(KeylistResult): New type.
(_gpgme_release_keylist_result): Function removed.
(release_keylist_result): New function.
(keylist_status_handler): Don't use
test_and_allocate_result, but use _gpgme_op_data_lookup to
retrieve result data object.
* edit.c (struct edit_result_s): Rename to ...
(struct edit_result): ... this. Remove member next.
(EditResult): New type.
(_gpgme_release_edit_result): Function removed.
(release_edit_result): New function.
(edit_status_handler): Don't use
test_and_allocate_result, but use _gpgme_op_data_lookup to
retrieve result data object.
(command_handler): Likewise.
* types.h (DecryptResult, SignResult, EncryptResult,
PassphraseResult, ImportResult, DeleteResult, GenKeyResult,
KeylistResult, EditResult): Types removed.
* ops.h: Don't include "types.h", but "gpgme.h" and "context.h".
(test_and_allocate_result): Remove macro.
(_gpgme_release_decrypt_result): Remove prototype.
(_gpgme_decrypt_result): Remove prototype.
(_gpgme_release_sign_result): Remove prototype.
(_gpgme_release_encrypt_result): Remove prototype.
(_gpgme_release_passphrase_result): Remove prototype.
(_gpgme_release_import_result): Remove prototype.
(_gpgme_release_delete_result): Remove prototype.
(_gpgme_release_genkey_result): Remove prototype.
(_gpgme_release_keylist_result): Remove prototype.
(_gpgme_release_edit_result): Remove prototype.
(_gpgme_release_verify_result): Remove prototype.
* gpgme.c (_gpgme_release_result): Rewritten.
* context.h (enum ctx_op_data_type): New enum.
(struct ctx_op_data): New structure.
(struct gpgme_context_s): Replace the member result with a member
op_data.
(fail_on_pending_request): Remove macro.
* op-support.c (_gpgme_op_reset): Expand macro
fail_on_pending_request.
* util.h: Don't include "types.h" or "debug.h", but include "gpgme.h".
2003-01-19 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_engine_ops_gpg): Remove gpg_start.
  (gpg_start): Rename to ...
  (start): ... this function. Change arguments to GpgObject.
  (gpg_decrypt): Call start.
  (gpg_edit): Likewise.
  (gpg_encrypt): Likewise.
  (gpg_encrypt_sign): Likewise.
  (gpg_export): Likewise.
  (gpg_import): Likewise.
  (gpg_keylist): Likewise.
  (gpg_keylist_ext): Likewise.
  (gpg_trustlist): Likewise.
  (gpg_verify): Likewise.

* engine-gpgsm.c (_gpgme_engine_ops_encrypt): Remove gpgsm_start.
  (gpgsm_start): Rename to ...
  (struct gpgsm_object_s): Remove member command.
  (gpgsm_release): Don't free command.
  (start): ... this function. Change arguments to GpgsmObject and
  const char *.
  (gpgsm_decrypt): Call start.
  (gpgsm_delete): Likewise.
  (gpgsm_encrypt): Likewise.
  (gpgsm_export): Likewise.
  (gpgsm_genkey): Likewise.
  (gpgsm_import): Likewise.
  (gpgsm_keylist): Likewise.
  (gpgsm_keylist_ext): Likewise.
  (gpgsm_verify): Likewise.

* decrypt.c (_gpgme_decrypt_start): Don't call
  _gpgme_engine_start.
* delete.c (_gpgme_op_delete_start): Likewise.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start):
* encrypt-sign.c (_gpgme_op_encrypt_sign_start):
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* keylist.c (gpgme_op_keylist_ext_start): Likewise.
  (gpgme_op_keylist_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* trustlist.c (gpgme_op_trustlist_start): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.
* engine-backend.h (struct engine_ops): Remove member start.

* engine.h (_gpgme_engine_start): Remove prototype.
* engine.c (_gpgme_engine_start): Remove function.

2003-01-19  Miguel Coca  <mcoca@gnu.org>

* w32-io.c (_gpgme_io_select): Add missing argument in calls to DEBUG_BEGIN.
* w32-util.c: Include "sema.h".
  (find_program_in_registry): Change DEBUG1 to DEBUG2, fixes compilation error.

2003-01-29  Marcus Brinkmann  <marcus@g10code.de>

* types.h: Remove byte and ulong types.
* util.h (_gpgme_hextobyte): Change prototype to unsigned char instead byte.
* conversion.c (_gpgme_hextobyte): Change argument to unsigned char instead byte.
  (_gpgme_decode_c_string): Likewise, and beautify.  Also support a
  few more escaped characters. Be more strict about buffer size.
  (_gpgme_data_append_percentstring_for_xml): Change type of SRC,
  BUF and DST to unsigned char instead byte.
* progress.c (_gpgme_progress_status_handler): Use unsigned char instead byte.
* debug.c (trim_spaces): Likewise.

* util.h (mk_error): Remove macro.
* conversion.c, data.c, data-compat.c, decrypt.c, delete.c,
  edit.c, encrypt.c, encrypt-sign.c, engine.c, engine-gpgsm.c,
  export.c, genkey.c, gpgme.c, import.c, key.c, keylist.c,
  passphrase.c, progress.c, recipient.c, rungpg.c, sign.c,
  signers.c, trustlist.c, verify.c, wait.c, wait-global.c,
  wait-private (literally everywhere): Expand the mk_error macro.

* context.h (wait_on_request_or_fail): Remove macro.

* context.h (gpgme_context_s): Remove member ERROR.
* types.h (GpgmeStatusHandler): Change return type to GpgmeError.
  (GpgmeCommandHandler): Change return type to GpgmeError and add
  new argument RESULT.
* gpgme.h (GpgmeIOCb): Change return type to GpgmeError.
  (GpgmeEventIO): New event GPGME_EVENT_START.
  (GpgmeIdleFunc): Remove type.
  (gpgme_register_idle): Remove prototype.
* data.c: Include <assert.h>.
  (_gpgme_data_inbound_handler): Change return type to GpgmeError.
Return any error instead ignoring it, don't close file descriptor on error.

(_gpgme_data_outbound_handler): Likewise.

* decrypt.c: Do not include <stdio.h>, <string.h> and <assert.h>.

(gpgme_op_decrypt): Don't work around the old kludge anymore.

* decrypt-verify.c (decrypt_verify_status_handler): Change return type to GpgmeError. Return possible errors.

* delete.c: Do not include <stdio.h>, <string.h>, <time.h> and <assert.h>.

* edit.c: Do not include <stdio.h> and <string.h>.
(_gpgme_edit_status_handler): Change type to GpgmeError, make static and rename to ...

(edit_status_handler): ... this. Return error directly.

(command_handler): Change return type to GpgmeError, add result argument. Return error directly.

* encrypt.c (status_handler_finish): Remove function.
(_gpgme_encrypt_status_handler): Change return type to GpgmeError. Return error directly.
(_gpgme_encrypt_sym_status_handler): Likewise.

* encrypt-sign.c (encrypt_sign_status_handler): Likewise.

* engine-gpgsm.c (close_notify_handler): Do not signal done event anymore.

(status_handler): Change return type to GpgmeError. Diddle things around a bit to return errors directly.

(start): Send start event.

* export.c: Do not include <stdio.h>, <string.h> and <assert.h>.
(export_status_handler): Change return type to GpgmeError. Don't check ctx->error.

* genkey.c: Do not include <stdio.h> and <assert.h>.
(genkey_status_handler): Change return type to GpgmeError. Don't check ctx->error. Return errors directly.

* gpgme.c (_gpgme_release_result): Do not initialize ctx->error.
(_gpgme_op_event_cb): Function removed.
(_gpgme_op_event_cb_user): Likewise.

* import.c: Do not include <stdio.h>, <string.h> and <assert.h>.
(import_status_handler): Change return type to GpgmeError. Don't check ctx->error.

* keylist.c (keylist_colon_handler, keylist_status_handler, finish_key): Change return type to GpgmeError, return error directly.

* Makefile (libgpgme_la_SOURCES): Add wait-global.c, wait-private.c and wait-user.c

* ops.h (test_and_allocate_result): Return error instead setting
ctx->error.
(_gpgme_data_inbound_handler, _gpgme_data_outbound_handler,
_gpgme_verify_status_handler, _gpgme_decrypt_status_handler,
_gpgme_sign_status_handler, _gpgme_encrypt_status_handler,
_gpgme_passphrase_status_handler, _gpgme_progress_status_handler):
Change return type to GpgmeError.
(_gpgme_passphrase_command_handler): Change return type to
GpgmeError and add new argument RESULT.
* op-support.c: Use new callback functions, and change private
data to ctx everywhere.
* passphrase.c (_gpgme_passphrase_status_handler): Change return
type to GpgmeError, return error directly.
(_gpgme_passphrase_command_handler): Change return type to
GpgmeError, add result argument. Return results accordingly.
* progress.c (_gpgme_progress_status_handler): Change return type
to GpgmeError, return errors directly.
* rungpg.c (status_handler): Change return type to GpgmeError.
Return error directly.
(close_notify_handler): Don't send done event.
(colon_line_handler): Change return type to GpgmeError, return
errors directly.
* rungpg.c (start): Send start event.
* sign.c (_gpgme_sign_status_handler): Change return type to
GpgmeError, return errors directly.
* trustlist.c (trustlist_status_handler): Change return type to
GpgmeError. Return 0.
(trustlistColon_handler): Change return type GpgmeError. Return
errors directly.
* verify.c (add_notation): Change return type to GpgmeError,
return errors directly.
(_gpgme_verify_status_handler): Likewise.
* wait.h (struct fd_table): Remove lock member.
(struct wait_item_s): Moved here from wait.c.
(struct tag): New structure.
(_gpgme_wait_event_cb): Remove prototype.
(_gpgme_wait_private_event_cb, _gpgme_wait_global_event_cb,
_gpgme_wait_user_add_io_cb, _gpgme_wait_user_remove_io_cb,
_gpgme_wait_user_event_io_cb): New prototypes.
* wait.c: Don't include <stdio.h>.
(fld_global, ctx_done_list, ctx_done_list_size,
ctx_done_list_length, ctx_done_list_lock, idle_function): Remove
global variable.
(gpgme_register_idle, do_select, _gpgme_wait_event_cb): Remove
function.
(gpgme_wait): Move to file wait-global.c.
(_gpgme_add_io_cb): Take ctx as private argument, initialize ctx
member in wait item and tag.
(_gpgme_remove_io_cb): Take ctx from tag. Don't use FDT lock.
(gpgme_wait_one, gpgme_wait_on_condition): Move to wait-private.c.
(gpgme_fd_table_init): Don't initialize FDT->lock.
(gpgme_fd_table_deinit): Don't destroy FDT->lock.
(fd_table_put): ... this function. Don't use FDT->lock.
(struct wait_item_s): Move to wait.h.
* wait-global.c: New file.
* wait-private.c: New file.
* wait-user.c: New file.

* key.c (gpgme_key_sig_get_string_attr): Use validity_to_string instead of trust_to_string to calculate validity.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* types.h (EngineObject): Move typedef to ...
* engine.h: ... here.
* types.h (GpgObject): Move typedef to ...
* rungpg.c: ... here.
* types.h (GpgsmObject): Move typedef to ...
* engine-gpgsm.c: ... here.

* util.h (return_if_fail, return_null_if_fail, return_val_if_fail): Remove macro.
* gpgme.c (gpgme_cancel): Don't use return_if_fail.
* key.c (gpgme_key_ref): Likewise.
* signers.c (gpgme_signers_enum): Likewise.
(gpgme_signers_clear): Likewise.

* engine-backend.h (struct engine_ops): Rename get_path to get_file_name.
* gpgme.h (struct _gpgme_engine_info): Rename member path to file_name.
* version.c: Do not include <stdio.h>, <stdlib.h>, context.h and util.h. Other clean ups.
(parse_version_number): Protect more seriously against overflow.
(gpgme_get_engine_info): Move to ...
* engine.c (gpgme_get_engine_info): ... here.
(_gpgme_engine_get_info): Function removed.
(_gpgme_engine_get_path): Make static and rename to ...
(engine_get_file_name): ... this.
(_gpgme_engine_get_version): Make static and rename to ...
(engine_get_version): ... this.
(_gpgme_engine_get_req_version): Make static and rename to ...
(engine_get_req_version): ... this.
* engine.h (_gpgme_engine_get_path, _gpgme_engine_get_version,
_gpgme_engine_req_version, _gpgme_engine_get_info.): Remove prototypes.

* gpgme.h (enum GpgmeProtocol): Remove GPGME_PROTOCOL_AUTO.
* gpgme.c (gpgme_set_protocol): Don't handle GPGME_PROTOCOL_AUTO.
  (gpgme_get_protocol_name): New function.

* engine-backend.h (struct engine_ops): New member
  get_req_version, remove member check_version.
* engine.h (_gpgme_Engine_get_version): New prototype.
* rungpg.c (gpg_get_req_version): New function.
  (gpg_check_version): Function removed.
(_gpgme_engine_ops_gpg): Add gpg_get_req_version, remove
  gpg_check_version.
* engine-gpgsm.c (gpgsm_get_req_version): New function.
  (gpgsm_check_version): Function removed.
(_gpgme_engine_ops_gpgsm): Add gpgsm_get_req_version, remove
  gpgsm_check_version.
* engine.c: Include ops.h.
  (_gpgme_engine_get_req_version): New function.
  (gpgme_engine_check_version): Rewritten.
* version.c (gpgme_get_engine_info): Rewritten.
* gpgme.h (gpgme_engine_info): New structure.
  (GpgmeEngineInfo): New type.

2003-01-06 Werner Koch  <wk@gnupg.org>

* keylist.c (set_mainkey_capability): Handle 'd' and 'D' used
  since gpg 1.3 to denote disabled keys.

2003-01-06 Marcus Brinkmann  <marcus@g10code.de>

* data-mem.c: Include <string.h>.
* engine.c: Likewise.

2003-01-06 Marcus Brinkmann  <marcus@g10code.de>

* Makefile.am (libgpgme_la_DEPENDENCIES): Correct bug in last change.

2002-12-24 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.h (gpgme_op_verify, gpgme_op_decrypt_verify): Drop R_STAT
  argument.
* decrypt-verify.c (gpgme_op_decrypt_verify): Drop R_STAT
  argument.
* verify.c (gpgme_op_verify): Drop R_STAT argument.
(_gpgme_intersect_stati): Function removed.
* ops.h (_gpgme_intersect_stati): Remove prototype.
2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* libgpgme.vers: New file.
* Makefile.am (EXTRA_DIST): Add libgpgme.vers.
  (libgpgme_version_script_cmd): New variable.
  (libgpgme_la_LDFLAGS): Add libgpgme_version_script_cmd here.
  (libgpgme_la_DEPENDENCIES): New variable.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* key.c (gpgme_key_get_string_attr): Don't accept GPGME_ATTR_IS_SECRET.
  (otrust_to_string): New function.
  (gpgme_key_get_as_xml): Use it.
  (validity_to_string): New function.
  (gpgme_key_get_string_attr): Beautify using above functions.
  (gpgme_key_get_ulong_attr): Likewise.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* data-mem.c (mem_release): Fix gcc warning.
* data-user.c (user_release): Likewise.

2002-12-06 Marcus Brinkmann <marcus@g10code.de>

* data.h (gpgme_data_release_cb): Change return type to void.
  (gpgme_data_read_cb): Change return type to ssize_t.
* data.c (gpgme_data_read): Likewise.
* data-stream.c (stream_read): Likewise.
* data-fd.c (fd_read): Likewise.
* data-mem.c (mem_read): Likewise.
  (mem_release): Change return type to void.
* data-user.c (user_read): Change return type to ssize_t.
  (user_release): Change return type to void.
* data-compat.c (old_user_read): Change return type to ssize_t.
* gpgme.h (GpgmeDataReadCb): Likewise.
  (gpgme_data_read): Likewise.
  (GpgmeDataSeekCb): Change return type to off_t.

2002-12-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add prototype for gpgme_get_key.
* key.c (gpgme_get_key): New function.
* verify.c (gpgme_get_sig_key): Rewrite using gpgme_get_key.

* gpgme.h: Add prototypes for new interfaces
  gpgme_key_sig_get_string_attr and gpgme_key_get_ulong_attr.
  (enum GpgmeAttr): New attribute GPGME_ATTR_SIG_CLASS.
* gpgme.c (gpgme_set_keylist_mode): Allow GPGME_KEYLIST_MODE_SIGS.
* key.h (struct certsig_s): New members ALGO, NAME_PART,
EMAIL_PART, COMMENT_PART, NAME, SIG_STAT and SIG_CLASS.

* conversion.c (_gpgme_decode_c_string): Add new parameter LEN.
  Use that to determine if allocation is desired or not.
* util.h: Adjust prototype of _gpgme_decode_c_string.
* keylist.c (keylist_colon_handler): Adjust caller of
  _gpgme_decode_c_string.

* key.h (struct gpgme_key_s): New member last_uid.
* key.c (_gpgme_key_append_name): Rewritten using
  _gpgme_decode_c_string and the last_uid pointer.
  (my_isdigit): Macro removed.
  (ALLOC_CHUNK): Likewise.
* keylist.c (set_userid_flags): Use last_uid member of KEY.

* context.h (struct user_id_s): New member last_certsig.
* key.h: Add prototype for _gpgme_key_add_certsig.
* key.c (_gpgme_key_add_certsig): New function.
  (set_user_id_part): Move function before _gpgme_key_add_certsig.
  (parse_user_id): Change first argument to SRC, add new arguments
  NAME, EMAIL and COMMENT. Change code to use these arguments
  instead going through UID. Move function before
  _gpgme_add_certsig.
  (parse_x509_user_id): Likewise.
  (_gpgme_key_append_name): Adjust arguments to parse_x509_user_id
  and parse_user_id invocation.
  (one_certsig_as_xml): New function.
  (one_uid_as_xml): Print signatures.
* context.h (struct gpgme_context_s): New member TMP_UID.
* keylist.c (keylist_colon_handler): Rewritten, implement "sig"
  record entries.

* key.c (get_certsig): New function.
  (gpgme_key_sig_get_string_attr): Likewise.
  (gpgme_key_sig_get_ulong_attr): Likewise.

* keylist.c: Include <ctype.h>.
  (my_isdigit): Macro removed.
  (set_mainkey_trust_info): Use isdigit, not my_isdigit.
  (set_userid_flags): Likewise.
  (set_subkey_trust_info): Likewise.
  (set_ownertrust): Likewise.
  (finish_key): Move function up a bit and remove prototype.

* rungpg.c (gpg_keylist_ext): Correct precedence of signature
  listing mode.
* rungpg.c (_gpgme_gpg_spawn): Do not set parent fds to -1.
* posix-io.c (_gpgme_io_spawn): Call _gpgme_io_close instead of close for parent fds.
* w32-io.c (_gpgme_io_spawn): Call _gpgme_io_close instead of CloseHandle for parent fds.

2002-11-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h [_MSC_VER]: Define ssize_t as long.

2002-11-22 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_new): Save the result of a first setlocale before doing another setlocale.

2002-11-21 Marcus Brinkmann <marcus@g10code.de>

* decrypt.c: Some beautification.

* verify.c (_gpgme_verify_status_handler): Treat GPGME_STATUS_UNEXPECTED like GPGME_STATUS_NODATA. Reported by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* genkey.c: Only include <config.h> if [HAVE_CONFIG_H].
  (struct genkey_result_s): Add new member FPR.
  (_gpgme_release_genkey_result): Free RESULT->fpr if set.
  (genkey_status_handler): Extract the fingerprint from the status line.
  (gpgme_op_genkey): Add new argument FPR and return the fingerprint in it.
* gpgme.h: Adjust prototype of gpgme_op_genkey.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_keylist): Add --with-fingerprint to gpg invocation twice, to get fingerprints on subkeys. Suggested by Timo Schulz <twoaday@freakmail.de>.
  (gpg_keylist_ext): Likewise.

2002-11-05 Marcus Brinkmann <marcus@g10code.de>

* import.c (append_xml_impinfo): Use
_gpgme_data_append_string_for_xml rather than
_gpgme_data_append_string for the field content.
Submitted by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-10-10 Marcus Brinkmann <marcus@g10code.de>

* rungpg.h, engine-gpgsm.h: File removed.
* Makefile.am (gpgsm_components): New variable, set depending on
automake conditional HAVE_GPGSM.
(libgpgme_la_SOURCES): Add engine-backend.h, remove rungpg.h and
engine-gpgsm.h. Replace engine-gpgsm.c with ${gpgsm_components}.
(status-table.h): Depend on gpgme.h, not rungpg.h.
* conversion.c: Include <stdlib.h>.
* engine-gpgsm.c: Do not set ENABLE_GPGSM here. Include
"engine-backend.h" instead "engine-gpgsm.h". Reorder some
functions and remove all function prototypes.
(_gpgme_gpgsm_get_version): Make static and rename to ...
(gpgsm_get_version): ... this.
(_gpgme_gpgsm_check_version): Make static and rename to ...
(gpgsm_check_version): ... this.
(_gpgme_gpgsm_new): Make static. Change argument type from
GpgsmObject * to void **. Call gpgsm_release instead
_gpgme_gpgsm_release.
(_gpgme_gpgsm_op_decrypt): Make static and rename to ...
(gpgsm_check_decrypt): ... this.
(_gpgme_gpgsm_op_delete): Make static and rename to ...
(gpgsm_check_delete): ... this.
(_gpgme_gpgsm_set_recipients): Make static and rename to ...
(gpgsm_check_set_recipients): ... this.
(_gpgme_gpgsm_op_encrypt): Make static and rename to ...
(gpgsm_encrypt): ... this.
(_gpgme_gpgsm_op_export): Make static and rename to ...
(gpgsm_export): ... this.
(_gpgme_gpgsm_op_genkey): Make static and rename to ...
(gpgsm_genkey): ... this.
(_gpgme_gpgsm_op_import): Make static and rename to ...
(gpgsm_import): ... this.
(_gpgme_gpgsm_op_keylist): Make static and rename to ...
(gpgsm_keylist): ... this.
(_gpgme_gpgsm_op_keylist_ext): Make static and rename to ...
(gpgsm_keylist_ext): ... this.
(_gpgme_gpgsm_op_sign): Make static and rename to ...
(gpgsm_sign): ... this.
(_gpgme_gpgsm_op_trustlist): Make static and rename to ...
(gpgsm_trustlist): ... this.
(_gpgme_gpgsm_op_verify): Make static and rename to ...
(gpgsm_verify): ... this.
(gpgsm_status_handler): Rename to ...
(status_handler): ... this.
(_gpgme_gpgsm_set_status_handler): Make static and rename to ...
(gpgsm_set_status_handler): ... this.
(_gpgme_gpgsm_set_colon_line_handler): Make static and rename to ...
(gpgsm_set_colon_line_handler): ... this.
(_gpgme_gpgsm_add_io_cb): Rename to ...
(add_io_cb): ... this.
(_gpgme_gpgsm_start): Make static and rename to ...
(gpgsm_start): ... this.
(_gpgme_gpgsm_set_io_cb): Make static and rename to ...
(gpgsm_set_io_cb): ... this.
(_gpgme_gpgsm_io_event): Make static and rename to ...
(gpgsm_io_event): ... this.
(struct _gpgme_engine_ops_gpgsm): New variable.
![ENABLE_GPGSM]: Removed.
* engine.c: Do not include <time.h>, <sys/types.h>, <string.h>,
  <assert.h>, "io.h", "rungpg.h" and "engine-gpgsm.h". Include
  <stdlib.h> and "engine-backend.h".
(struct engine_object_s): Rewritten.
(engine_ops): New variable.
* engine.c (_gpgme_engine_get_path, _gpgme_engine_get_version,
  _gpgme_engine_check_version, _gpgme_engine_new,
  _gpgme_engine_release, _gpgme_engine_set_verbosity,
  _gpgme_engine_set_status_handler,
  _gpgme_engine_set_command_handler,
  _gpgme_engine_set_colon_line_handler, _gpgme_engine_op_decrypt,
  _gpgme_engine_op_delete, _gpgme_engine_op_edit,
  _gpgme_engine_op_encrypt, _gpgme_engine_op_encrypt_sign,
  _gpgme_engine_op_export, _gpgme_engine_op_genkey,
  _gpgme_engine_op_import, _gpgme_engine_op_keylist,
  _gpgme_engine_op_keylist_ext, _gpgme_engine_op_sign,
  _gpgme_engine_op_trustlist, _gpgme_engine_op_verify,
  _gpgme_engine_start, _gpgme_engine_set_io_cbs,
  _gpgme_engine_io_event): Reimplement.
* engine.h: Fix a few comments and a variable name in a prototype.
* ops.h: Do not include "rungpg.h".
* passphrase.c: Include config.h only if [HAVE_CONFIG_H]. Do not
  include "rungpg.h".
* recipient.c: Likewise.
* signers.c: Likewise.
* version.c: Likewise.
* rungpg.c: Likewise. Include "engine-backend.h". Reorder
  functions and remove prototypes.
(_gpgme_gpg_get_version): Make static and rename to ...
(gpg_get_version): ... this.
(_gpgme_gpg_check_version): Make static and rename to ...
(gpg_check_version): ... this.
(gpgme_gpg_new): Make static. Change argument type from
GpgObject * to void **. Call gpg_release instead
_gpgme_gpg_release.
(gpgme_gpg_op_decrypt): Make static and rename to ...
(gpg_check_decrypt): ... this.
(gpgme_gpg_op_delete): Make static and rename to ...
(gpg_check_delete): ... this.
(gpgme_gpg_set_recipients): Make static and rename to ...
(gpg_check_set_recipients): ... this.
(gpgme_gpg_op_encrypt): Make static and rename to ...
(gpg_encrypt): ... this.
(gpgme_gpg_op_export): Make static and rename to ...
(gpg_export): ... this.
(gpgme_gpg_op_genkey): Make static and rename to ...
(gpg_genkey): ... this.
(gpgme_gpg_op_import): Make static and rename to ...
(gpg_import): ... this.
(gpgme_gpg_op_keylist): Make static and rename to ...
(gpg_keylist): ... this.
(gpgme_gpg_op_keylist_ext): Make static and rename to ...
(gpg_keylist_ext): ... this.
(gpgme_gpg_op_sign): Make static and rename to ...
(gpg_sign): ... this.
(gpgme_gpg_op_trustlist): Make static and rename to ...
(gpg_trustlist): ... this.
(gpgme_gpg_op_verify): Make static and rename to ...
(gpg_verify): ... this.
(gpg_status_handler): Rename to ...
(status_handler): ... this.
(gpgme_gpg_set_status_handler): Make static and rename to ...
(gpg_set_status_handler): ... this.
(gpgme_gpg_set_colon_line_handler): Make static and rename to ...
(gpg_set_colon_line_handler): ... this.
(gpgme_gpg_add_io_cb): Rename to ...
(add_io_cb): ... this.
(gpgme_gpg_start): Make static and rename to ...
(gpg_start): ... this.
(gpgme_gpg_set_io_cb): Make static and rename to ...
(gpg_set_io_cb): ... this.
(gpgme_gpg_io_event): Make static and rename to ...
(gpg_io_event): ... this.
(struct _gpgme_engine_ops_gpg): New variable.

2002-10-10 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_verify) [!ENABLE_GPGSM]: Add
missing argument.
2002-10-09 Marcus Brinkmann <marcus@g10code.de>

* data.h, data-user.c, data-stream.c, data-mem.c, data-fd.c,
data-compat.c: New file. Really check them in this time, completes
2002-10-08 change.

* rungpg.h (GpgStatusHandler): Rename type to GpgmeStatusHandler
and move to ...
* types.h (GpgmeStatusHandler): ... here.
* rungpg.h (GpgColonLineHandler): Rename type to GpgmeColonLineHandler.
and move to ...
* types.h (GpgmeColonLineHandler): ... here.
* rungpg.h (GpgCommandHandler): Rename type to GpgmeCommandHandler.
and move to ...
* types.h (GpgmeCommandHandler): ... here.
* engine.h: Don't include "rungpg.h".
(_gpgme_engine_set_status_handler): Change type of
argument from GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_engine_set_colon_line_handler): Change type of
argument from GpgColonLineHandler to GpgmeColonLineHandler.
(_gpgme_engine_set_command_handler): Change type of
argument from GpgCommandHandler to GpgmeCommandHandler.
* engine-gpgsm.h: Don't include "rungpg.h".
(_gpgme_gpgsm_set_status_handler): Change type of
argument from GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_gpgsm_set_colon_line_handler): Change type of
argument from GpgColonLineHandler to GpgmeColonLineHandler.
(_gpgme_gpgsm_set_command_handler): Change type of
argument from GpgCommandHandler to GpgmeCommandHandler.
* engine-gpgsm.c: Do not include "rungpg.h".
(struct gpgsm_object_s): Change type of
status.fnc to GpgmeStatusHandler. Change type of colon.fnc to
GpgmeColonLineHandler.
(gpgsmassuan_simple_command): Change type of argument from
GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_gpgsm_set_status_handler): Likewise.
(_gpgme_gpgsm_set_colon_line_handler): Change type of argument from
GpgColonLineHandler to GpgmeColonLineHandler.
* rungpg.h (_gpgme_gpg_set_status_handler): Change type of
argument from GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_gpg_set_colon_line_handler): Change type of
argument from GpgColonLineHandler to GpgmeColonLineHandler.
(_gpgme_gpg_set_command_handler): Change type of
argument from GpgCommandHandler to GpgmeCommandHandler.
* rungpg.c (struct gpg_object_s): Change type of status.fnc to
GpgmeStatusHandler. Change type of colon.fnc to
GpgmeColonLineHandler. Change type of cmd.fnc to
GpgmeCommandLineHandler.
(_gpgme_gpg_set_status_handler): Change type of argument FNC to
GpgmeStatusHandler.
(_gpgme_gpg_set_colon_line_handler): Change type of argument FNC to GpgmeColonLineHandler.
(_gpgme_gpg_set_command_handler): Change type of argument FNC to GpgmeCommandHandler.
* engine.c (_gpgme_engine_set_status_handler): Change type of argument FNC to GpgmeStatusHandler.
(_gpgme_gpg_set_colon_line_handler): Change type of argument FNC to GpgmeColonLineHandler.
(_gpgme_engine_set_command_handler): Change type of argument FNC to GpgmeCommandHandler.

* rungpg.h (_gpgme_gpg_enable_pipemode): Remove prototype.
* rungpg.c (struct gpg_object_s): Remove PM.
  (pipemode_cb): Prototype removed.
  (add_pm_data): Function removed.
  (_gpgme_gpg_enable_pipemode): Likewise.
  (pipemode_copy): Likewise.
  (pipemode_cb): Likewise.
  (add_arg): Don't check for pipemode.
  (add_data): Likewise.
(_gpgme_gpg_set_status_handler): Likewise.
(_gpgme_gpg_set_colon_line_handler): Likewise.
(_gpgme_gpg_set_command_handler): Likewise.
(_gpgme_gpg_spawn): Likewise.
(_gpgme_gpg_spawn): Don't set PM.active.
(_gpgme_gpg_op_verify): Remove pipemode case.
* verify.c (_gpgme_op_verify_start): Remove pipemode case.

* rungpg.h (_gpgme_gpg_add_arg, _gpgme_gpg_add_data,
  _gpgme_gpg_add_pm_data, _gpgme_gpg_housecleaning,
  _gpgme_gpg_set_simple_line_handler): Prototype removed.
(_gpgme_gpg_set_verbosity): New prototype.
* rungpg.c (_gpgme_gpg_add_data): Make static and rename to ...
  (add_data): ... this.
(_gpgme_gpg_add_pm_data): Call add_data, not _gpgme_gpg_add_data.
(_gpgme_gpg_set_command_handler): Likewise.
(_gpgme_gpg_op_decrypt, _gpgme_gpg_op_edit, _gpgme_gpg_op_encrypt,
  _gpgme_gpg_op_encrypt_sign, _gpgme_gpg_op_export,
  _gpgme_gpg_op_genkey, _gpgme_gpg_op_import, _gpgme_gpg_op_sign,
  _gpgme_gpg_op_verify): Likewise.
(_gpgme_gpg_add_pm_data): Rename to ...
  (add_pm_data): ... this.
(_gpgme_gpg_op_verify): Call add_pm_data, not
  _gpgme_gpg_add_pm_data.
(_gpgme_gpg_add_arg): Make static and rename to ...
  (add_arg): ... this.
(_gpgme_gpg_set_command_handler, _gpgme_gpg_new,
  _gpgme_gpg_op_decrypt, _gpgme_gpg_op_delete,
_gpgme_append_gpg_args_from_signers, _gpgme_gpg_op_edit,
_gpgme_append_gpg_args_from_recipients, _gpgme_gpg_op_encrypt,
_gpgme_gpg_op_encrypt_sign, _gpgme_gpg_op_export,
_gpgme_gpg_op_genkey, _gpgme_gpg_op_import, _gpgme_gpg_op_keylist,
_gpgme_gpg_op_keylist_ext, _gpgme_gpg_op_trustlist,
_gpgme_gpg_op_sign, _gpgme_gpg_op_verify): Use add_arg, not
_gpgme_gpg_add_arg.

( _gpgme_gpg_set_verbosity): New function.
(struct gpg_object_s): Remove member simple from colon.
(_gpgme_gpg_set_colon_line_handler): Don't initialize simple.
(_gpgme_gpg_set_simple_line_handler): Removed function.
(read_colon_line): Don't check the GPG->colon.simple.
* engine.c ( _gpgme_engine_set_verbosity): Call
_gpgme_gpg_set_verbosity instead _gpgme_gpg_add_arg.

2002-10-08 Marcus Brinkmann <marcus@g10code.de>

* util.h ( _gpgme_malloc, _gpgme_realloc, _gpgme_calloc,
_gpgme_strdup, _gpgme_free): Remove prototypes.
(xtrymalloc, xtrycalloc, xtryrealloc, xtrystrdup, xfree): Remove
macros.
* util.c: File removed.
* Makefile.am (libgpgme_la_SOURCES): Remove util.h.
* conversion.c ( _gpgme_decode_c_string): Use malloc instead of
xtrymalloc, realloc instead of xtryrealloc, calloc instead of
xtrystrdup, free instead of xfree.
(_gpgme_data_append_percentstring_for_xml): Likewise.
* data.c ( _gpgme_data_new, _gpgme_data_release): Likewise.
* data-compat.c (gpgme_data_new_from_filepart): Likewise.
* data-mem.c (mem_write, mem_release, gpgme_data_new_from_mem,
_gpgme_data_get_as_string): Likewise.
* debug.c (debug_init): Likewise.
* decrypt.c ( _gpgme_release_decrypt_result): Likewise.
* delete.c ( _gpgme_release_delete_result): Likewise.
* edit.c ( _gpgme_release_edit_result, _gpgme_op_edit_start):
Likewise.
* encrypt.c ( _gpgme_release_encrypt_result): Likewise.
* engine.c ( _gpgme_engine_get_info, _gpgme_engine_new,
_gpgme_engine_release): Likewise.
* engine-gpgsm.c ( _gpgme_gpgsm_new, _gpgme_gpgsm_release,
_gpgme_gpgsm_op_decrypt, _gpgme_gpgsm_op_delete,
gpgsm_set_recipients, _gpgme_gpgsm_op_encrypt,
_gpgme_gpgsm_op_export, _gpgme_gpgsm_op_genkey,
_gpgme_gpgsm_op_import, _gpgme_gpgsm_op_keylist,
_gpgme_gpgsm_op_keylist_ext, _gpgme_gpgsm_op_sign,
_gpgme_gpgsm_op_verify, gpgsm_status_handler): Likewise.
* genkey.c ( _gpgme_release_genkey_result): Likewise.
* gpgme.c (gpgme_new, gpgme_release): Likewise.
* import.c (_gpgme_release_import_result): Likewise.
* key.c (_gpgme_key_cache_init, _gpgme_key_cache_add, key_new,
  add_subkey, gpgme_key_release, _gpgme_key_append_name): Likewise.
* keylist.c (_gpgme_release_keylist_result, keylist_colon_handler,
  _gpgme_op_keylist_event_cb, gpgme_op_keylist_next): Likewise.
* ops.h (test_and_allocate_result): Likewise.
* passphrase.c (_gpgme_release_passphrase_result,
  _gpgme_passphrase_status_handler,
  _gpgme_passphrase_command_handler): Likewise.
* progress.c (_gpgme_progress_status_handler): Likewise.
* recipient.c (gpgme_recipients_new, gpgme_recipients_release,
  gpgme_recipients_add_name_with_validity): Likewise.
* rungpg.c (_gpgme_gpg_new, _gpgme_gpg_release,
  _gpgme_gpg_add_arg, _gpgme_gpg_add_data,
  _gpgme_gpg_set_colon_line_handler, free_argv, free_fd_data_map,
  build_argv, _gpgme_gpg_spawn, read_status, read_colon_line): Likewise.
* sign.c (_gpgme_release_sign_result): Likewise.
* signers.c (_gpgme_signers_add): Likewise.
* trustlist.c (trust_item_new, trustlist_colon_handler,
  _gpgme_op_trustlist_event_cb, gpgme_op_trustlist_next,
  gpgme_trustitem_release): Likewise.
* verify.c (_gpgme_release_verify_result, finish_sig): Likewise.
* version.c (gpgme_get_engine_info, _gpgme_get_program_version): Likewise.
* w32-io.c (create_reader, create_writer, destroy_reader,
  destroy_writer, build_commandline, _gpgme_io_spawn): Likewise.
* w32-sema.c (critsect_init, _gpgme_sema_cs_destroy): Likewise.
* w32-util.c (read_w32_registry_string): Likewise.
* wait.c (_gpgme_fd_table_deinit, _gpgme_fd_table_put,
  _gpgme_wait_event_cb, _gpgme_add_io_cb, _gpgme_remove_io_cb)
* data-compat.c: Include <stdlib.h>.

2002-10-08 Marcus Brinkmann <marcus@g10code.de>

New data object component:

* gpgme.h (GpgmeDataReadCb, GpgmeDataWriteCb, GpgmeDataSeekCb,
  GpgmeDataReleaseCb): New types.
  (struct GpgmeDataCbs): New structure.
  (gpgme_data_read): Changed prototype to match that of read() closely.
  (gpgme_data_write): Similar for write().
  (gpgme_data_seek, gpgme_data_new_from_cbs, gpgme_data_new_from_fd,
  (gpgme_data_get_type, gpgme_check_engine): Prototype removed.

  * Makefile.am (libgpgme_la_SOURCES): Add data.h, data-fd.c,
    data-stream.c, data-mem.c, data-user.c and data-compat.c.
* data.c: Reimplemented from scratch.
* (data-compat.c, data-fd.c, data.h, data-mem.c, data-stream.c, data-user.c): New file.
* context.h (struct gpgme_data_s): Removed.
* conversion.c: Include <errno.h> and <sys/types.h>.
* data.c (_gpgme_data_append_string): Move to ...
* conversion.c (_gpgme_data_append_string): ... here.
* data.c (_gpgme_data_append_for_xml): Move to ...
* conversion.c (_gpgme_data_append_for_xml): ... here.
* data.c (_gpgme_data_append_string_for_xml): Move to ...
* conversion.c (_gpgme_data_append_string_for_xml): ... here.
* data.c (_gpgme_data_append_percentstring_for_xml): Move to ...
* conversion.c (_gpgme_data_append_percentstring_for_xml): ... here.
* ops.h (_gpgme_data_get_mode, _gpgme_data_set_mode): Prototype removed.
* types.h (GpgmeDataMode): Type removed.
* decrypt.c (_gpgme_decrypt_start): Don't check data type or mode.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.
* encrypt.c (gpgme_op_encrypt): Remove hack that returns invalid no recipient if no data was returned.
* encrypt-sign.c (gpgme_op_encrypt_sign): Remove hack that returns no recipient if no data was returned.
* encrypt-sign.c (gpgme_op_encrypt_sign): Remove hack that returns no recipient if no data was returned.
* engine.c (_gpgme_engine_op_verify): Add new argument to differentiate detached from normal signatures.
* engine.h (_gpgme_engine_op_verify): Likewise for prototype.
* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Likewise. Don't check mode of data argument.
* engine-gpgsm.h (_gpgme_gpgsm_op_verify): Likewise for prototype.
* gpgme.h (gpgme_op_verify_start): Likewise for prototype.
(gpgme_op_verify): Likewise for prototype.
* rungpg.c (_gpgme_gpg_op_verify): Likewise.
* rungpg.h (_gpgme_gpg_op_verify): Likewise for prototype.
* verify.c (_gpgme_op_verify_start): Likewise.
* rungpg.c (struct arg_and_data_s): New member INBOUND to hold direction of data object.

(_gpgme_gpg_add_data): Add new argument INBOUND. Use it to determine direction of data object.

(_gpgme_gpg_add_pm_data, _gpgme_gpg_set_command_handler, _gpgme_gpg_op_decrypt, _gpgme_gpg_op_edit, _gpgme_gpg_op_encrypt, _gpgme_gpg_op_encrypt_sign, _gpgme_gpg_op_export, _gpgme_gpg_op_genkey, _gpgme_gpg_op_import, _gpgme_gpg_op_sign, _gpgme_gpg_op_verify): Add new argument to _gpgme_gpg_add_data invocation.

(build_argv): Use new member INBOUND to determine direction of file descriptor. Don't check the data type.

* rungpg.h (_gpgme_gpg_add_data): Add new argument to prototype.

* gpgme.c (gpgme_get_op_info): Don't call _gpgme_data_get_as_string if CTX->op_info is NULL.

* version.c (gpgme_check_engine): Function removed.

2002-09-30 Werner Koch <wk@gnupg.org>

* keylist.c (keylist_colon_handler): Take care when printing a NULL with the DEBUG.

* engine-gpgsm.c (struct gpgsm_object_s): New member ANY.

(gpgsm_status_handler): Run the colon function to indicate EOF.

(_gpgme_gpgsm_set_colon_line_handler): Better reset ANY here.

2002-09-28 Marcus Brinkmann <marcus@g10code.de>


* keylist.c (gpgme_op_keylist_ext_start): Use private asynchronous operation type in invocation of _gpgme_op_reset.

2002-09-20 Werner Koch <wk@gnupg.org>

* ath.c: Include sys/time.h if sys/select.h is not available.

2002-09-13 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (keylist_status_handler): Do not call finish_key() here.

(gpgme_op_keylist_ext_start): Set CTX->tmp_key to NULL.
2002-09-03 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (assuan_libobjs): Remove @LTLIBOBJ@ as we link them into gpgme unconditionally.
(libgpgme_la_LIBADD): Change @LIBOBJ@ into @LTLIBOBJ@.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (assuan_libobjs): Use @LTLIBOBJ@ instead @LIBOBJ@.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* debug.c (_gpgme_debug_add): Test *LINE, not LINE.
(_gpgme_debug_end): Likewise.
Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* posix-io.c (_gpgme_io_select): Don't use a non-constant struct initializer.
* version.c (_gpgme_get_program_version): Likewise.
Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* conversion.c (_gpgme_decode_c_string): Set DESTP before modifying DEST.

* conversion.c (_gpgme_decode_c_string): Fix off by one error in last change.
* rungpg.c (_gpgme_append_gpg_args_from_signers): Move before _gpgme_op_edit so its prototype is known early on.

* conversion.c: New file.
* util.h: Add prototypes for _gpgme_decode_c_string and _gpgme_hextobyte.
* keylist.c (keylist_colon_handler): Call _gpgme_decode_c_string on issuer name.
* Makefile.am (libgpgme_la_SOURCES): Add conversion.c
* key.c (_gpgme_key_append_name): Replace calls to hextobyte by calls to _gpgme_hextobyte.
(hash_key): Likewise.

2002-09-01 Marcus Brinkmann <marcus@g10code.de>

* op-support.c (_gpgme_op_reset): Set CTX->pending after calling _gpgme_engine_release, as this will reset pending to zero in the event done callback on cancelled operations.
2002-08-30 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_op_edit): Add args from signers.
  Suggested by Miguel Coca <e970095@zipi.fi.upm.es>.

* rungpg.c (_gpgme_gpg_op_edit): Add bogus ctx argument.
  * rungpg.h: Also to prototype.
  * engine.c (_gpgme_engine_op_edit): Likewise.
  * engine.h: Likewise.
  * edit.c (_gpgme_op_edit_start): Likewise.

2002-08-29 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Implement signer
  selection.
* vasprintf.c (va_copy): Define macro if not yet defined.

2002-08-29 Marcus Brinkmann <marcus@g10code.de>

* passphrase.c (_gpgme_passphrase_status_handler): Reset
  CTX->result.passphrase->no_passphrase if passphrase is given (good
  or bad). Submitted by Jean DIRAISON <jean.diraison@free.fr>.

2002-08-28 Marcus Brinkmann <marcus@g10code.de>

* posix-io.c (_gpgme_io_spawn): Use a double-fork approach.
  Return 0 on success, -1 on error.
* version.c (_gpgme_get_program_version): Don't wait for the child.
* engine.c (_gpgme_engine_housecleaning): Function removed.
  (do_reaping): Likewise.
  (_gpgme_engine_add_child_to_reap_list): Likewise.
  (struct reap_s): Removed.
  (reap_list): Likewise.
  (reap_list_lock): Likewise.
* engine.h (_gpgme_engine_io_event): Remove prototypes for
  _gpgme_engine_housecleaning and
  _gpgme_engine_add_child_to_reap_list.
* rungpg.c (_gpgme_gpg_release): Don't add child to reap list.
  (struct gpg_object_s): Remove PID member.
  (_gpgme_gpg_new): Don't initialize GPG->pid.
  (_gpgme_gpg_spawn): Don't set GPG->pid.
* wait.c (run_idle): Removed.
  (gpgme_wait): Run idle_function directly.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* encrypt-sign.c (encrypt_sign_status_handler): Remove dead
variables encrypt_info and encrypt_info_len.
* trustlist.c (gpgme_op_trustlist_start): Set colon line handler.
* posix-sema.c (sema_fatal): Remove function.
All these reported by Stphane Corthsy.

2002-08-23 Werner Koch <wk@gnupg.org>

* gpgme-config.in: Made --prefix work for --libs.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* ath.h: Update list of symbols that get a prefix: Rename the
  ath_mutex_*/_available symbols to ath_*/_available.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* stpcpy.c: New file from gnulib.
* Makefile.am (assuan_libobjs): Remove jnlib.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add prototype for gpgme_op_import_ext.
* import.c (struct import_result_s): New member `nr_considered'.
  Rename `any_imported' to `nr_imported'.
  (import_status_handler): Increment nr_imported. Set nr_considered
  if appropriate.
* gpgme_op_import_ext: New function.
  (gpgme_op_import): Implement in terms of gpgme_op_import_ext.

2002-08-20 Werner Koch <wk@gnupg.org>

* gpgme.m4: Replaced with a new and faster version. This does not
  anymore try to build test programs. If we really need test
  programs, we should add an option to gpgme-config to do so.
* vasprintf.c (int_vasprintf): Hack to handle NULL passed for %s.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (_gpgme_set_op_info): Append data on subsequent calls.
  (gpgme_op_decrypt): Hack to properly return Decryption_Failed.
  (_gpgme_decrypt_status_handler): Create an operation info.
2002-08-14 Werner Koch <wk@gnupg.org>

* key.h (struct certsig_s): New. Use it in gpgme_key_s.
* key.c (gpgme_key_release): Release it. We need to add more code of course.
(_gpgme_key_append_name): Use memset to initialize the struct.
* gpgme.h (GPGME_KEYLIST_MODE_SIGS): New.
* rungpg.c (_gpgme_gpg_op_keylist): Include sigs in listing depending non the list mode.

* key.c (gpgme_key_get_string_attr): Use GPGME_ATTR_TYPE to return information about the key type (PGP or X.509).
(gpgme_key_get_ulong_attr): Likewise.

* keylist.c (keylist_colon_handler): Include 1 in the check for valid algorithms so that RSA is usable. Store the issuer name and serial number also for "crs" records. Parse the expire date for subkeys.
(set_userid_flags): Put them onto the last appended key.

2002-07-29 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_op_edit): Use --with-colons.

2002-07-28 Marcus Brinkmann <marcus@g10code.de>

* data.c (gpgme_data_read): For GPGME_DATA_TYPE_NONE, return EOF instead an error.

The following changes make it possible to flush an inbound data pipe before invoking a command handler:

* posix-io.c (_gpgme_io_select): Accept new argument NONBLOCK to _gpgme_io_select. Set timeout of 0 if this is set.
* w32-io.c (_gpgme_io_select): Likewise.
* io.h: Add new argument NONBLOCK to _gpgme_io_select prototype.
* wait.c (do_select): Add new argument to _gpgme_io_select invocation.
* rungpg.h (_gpgme_gpg_set_command_handler): Add new argument linked_data to prototype.
* engine.h (_gpgme_engine_set_command_handler): Likewise.
* engine.c (_gpgme_engine_set_command_handler): Likewise.
* passphrase.c (_gpgme_passphrase_start): Pass NULL as linked_data argument to _gpgme_engine_set_command_handler.
* rungpg.c (struct gpg_object_s): New members linked_data and linked_idx in CMD.
(_gpgme_gpg_new): Initialize those new members.
(_gpgme_gpg_set_command_handler): Accept new argument linked_data.
(build_argv): Handle linked_data in the same hack as cb_data.
(read_status): If linked_data is in use, flush the pipe before activating the command handler.
* gpgme.h: Add prototypes for gpgme_op_edit_start and gpgme_op_edit.

The next changes export the status codes to the user:

* decrypt.c (_gpgme_decrypt_status_handler): Likewise, also prefix all STATUS_ with GPGME_.
* decrypt-verify.c (decrypt_verify_status_handler): Likewise.
* encrypt.c (_gpgme_encrypt_status_handler): Likewise.
   (_gpgme_encrypt_sym_status_handler): Likewise.
* encrypt-sign.c (encrypt_sign_status_handler): Likewise.
* engine-gpgsm.c (parse_status): Likewise.
(gpgsm_status_handler): Likewise.
(gpgsm_set_recipients): Likewise.
* export.c (export_status_handler): Likewise.
* genkey.c (genkey_status_handler): Likewise.
* import.c (append_xml_impinfo): Likewise.
(import_status_handler): Likewise.
* keylist.c (keylist_status_handler): Likewise.
* passphrase.c (_gpgme_passphrase_status_handler): Likewise.
(command_handler): Likewise.
* progress.c (_gpgme_progress_status_handler): Likewise.
* sign.c (_gpgme_sign_status_handler): Likewise.
* trustlist.c (trustlist_status_handler): Likewise.
* verify.c (_gpgme_verify_status_handler): Likewise.
* gpgme.h (GpgmeEditCb): New type.
* rungpg.h (GpgStatusCode): Rename and move to ...
* gpgme.h (GpgmeStatusCode): ... this and here.
* Makefile.am (status-table.h): Run mkstatus on gpgme.h, not rungpg.h.
* mkstatus: Prefix STATUS with GPGME_.
* rungpg.h (GpgStatusHandler, GpgCommandHandler): Change type accordingly.
* ops.h (_gpgme_verify_status_handler, _gpgme_decrypt_status_handler, _gpgme_sign_status_handler, _gpgme_encrypt_status_handler, _gpgme_passphrase_status_handler, _gpgme_progress_status_handler): Likewise.
* rungpg.c (struct gpg_object_s): Likewise for CMD.code.

These changes add an edit operation to GPGME:

* context.h (struct gpgme_context_s): New member RESULT.edit.  *
ops.h: Add prototype for _gpgme_release_edit_result and _gpgme_passphrase_command_handler.
* passphrase.c (command_handler): Make non-static and rename to ...
  (_gpgme_passphrase_command_handler): ... this.
(_gpgme_passphrase_start): Use new name for command handler.
* types.h: Add EditResult type.
* gpgme.c (_gpgme_release_result): Release EDIT result.
* edit.c: New file.
* Makefile.am (libgpgme_la_SOURCES): Add edit.c.
(libgpgme_la_LDADD): Rename to libgpgme_la_LIBADD, and include
assuan_libobjs.
(assuan_libobjs): New variable, set this instead
libgpgme_la_LIBADD.
* engine.h (_gpgme_engine_op_edit): New prototype.
* engine.c (_gpgme_engine_op_edit): New function.
* rungpg.h (_gpgme_gpg_op_edit): New prototype.
* rungpg.c (_gpgme_gpg_op_edit): New function.

2002-07-27 Marcus Brinkmann <marcus@g10code.de>

* delete.c (delete_problem): New case ambiguous specification.
(delete_status_handler): Handle new case (poorly).

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_delete): Implement this.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_LDADD): Add @LIBOBJS@ for vasprintf and
fopencookie.
* vasprintf.c: Update to more recent libiberty version.
* debug.h: Replace #elsif with #elif.

Submitted by Stphane Corthsy:
* util.h (vasprintf): Correct prototype.
* encrypt-sign.c: Include <stddef.h>.
(encrypt_sign_status_handler): Change type of ENCRIPT_INFO_LEN to
size_t.
* ath-pthread.c: Include <stdlib.h>, not <malloc.h>.
* ath-pth.c: Likewise.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* wait.c (fdt_global): Make static. Reported by Stphane
Corthsy.

* rungpg.c (_gpgme_gpg_op_keylist_ext): Skip empty string
patterns. Reported by Stphane Corthsy.
* key.c (gpgme_key_get_as_xml): Add OTRUST attribute. Requested by Stphane Corthsy.
(gpgme_key_get_string_attr): Add GPGME_ATTR_SIG_SUMMARY case to silence gcc warning.

* rungpg.c (_gpgme_gpg_new): Always set utf8 as charset.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_io_cbs): Deal with CTX being NULL.

* gpgme.c (_gpgme_op_event_cb_user): New function.
* op-support.c (_gpgme_op_reset): Support a new mode of operation for private or user event loop. Use new user event callback wrapper.
* trustlist.c (gpgme_op_trustlist_start): Use this new mode.
* keylist.c (gpgme_op_keylist_start): Likewise.

* rungpg.c (_gpgme_gpg_io_event): New function.
* rungpg.h (_gpgme_gpg_io_event): New prototype.
* engine-gpgsm.c (_gpgme_gpg_io_event): New function.
* engine.c (_gpgme_engine_io_event): New function.
* engine.h (_gpgme_engine_io_event): New prototype.
* keylist.c (finish_key): Call _gpgme_engine_io_event, and move the real work for the default IO callback routines to ...
(_gpgme_op_keylist_event_cb): ... here. New function.
* trustlist.c (trustlist_colon_handler): Signal GPGME_EVENT_NEXT_TRUSTITEM. Move queue manipulation to ...
(_gpgme_op_trustlist_event_cb): ... here. New function.
* gpgme.c (_gpgme_op_event_cb): Call _gpgme_op_keylist_event_cb and _gpgme_op_trustlist_event_cb when appropriate.
* ops.h (_gpgme_op_keylist_event_cb): New prototype.
(_gpgme_op_trustlist_event_cb): Likewise.
* op-support.c (_gpgme_op_reset): Add comment why we don't use the user provided event handler directly.
* gpgme.h (GpgmeRegisterIOCb): Return GpgmeError value, and TAG in a pointer argument.
* wait.c (_gpgme_add_io_cb): Likewise.
* wait.h (_gpgme_add_io_cb): Likewise for prototype.
* rungpg.c (_gpgme_gpg_add_io_cb): Call IO_CBS->add with new argument. Fix up error handling.
* engine-gpgsm.c (_gpgme_gpgsm_add_io_cb): Call IO_CBS->add with new argument, fix up error handling.

2002-07-03 Werner Koch <wk@gnupg.org>

* encrypt.c (status_handler_finish): New.
(_gpgme_encrypt_status_handler): Moved some code out to the new
function and call this function also in case we get into the
status handler with an error which might happen due to a kludge in
engine-gpgsm.c

2002-06-28 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_op_keylist_ext_start): Always use our own FD
table (eg use synchronous mode).

2002-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Fix documentation of key attribute retrieval functions.

2002-06-28 Marcus Brinkmann <marcus@g10code.de>

* ops.h (_gpgme_wait_on_condition): Remove HANG argument from
prototype and change return type to GpgmeError.
(_gpgme_wait_one): New prototype.
* wait.c (gpgme_wait): Replace with the meat from
_gpgme_wait_on_condition here, and remove the support for
conditions.
(_gpgme_wait_on_condition): Remove HANG argument from prototype
and change return type to GpgmeError. Replace with meat from
_gpgme_wait_one and add support for conditions.
(_gpgme_wait_one): Just call _gpgme_wait_on_condition without
condition.
* keylist.c (gpgme_op_keylist_ext_start): Always use our own FD
table (eg use synchronous mode).
(gpgme_op_keylist_next): Remove HANG argument from
_gpgme_wait_on_condition. Check its return value.
* trustlist.c (gpgme_op_trustlist_start): Always use our own FD
table (eg use synchronous mode).
(gpgme_op_trustlist_next): Remove HANG argument from
_gpgme_wait_on_condition. Check its return value.

2002-06-26 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (map_assuan_error): Map No_Data_Available to EOF.

* import.c (append_xml_impinfo): Kludge to print fingerprint
instead of keyid for use with gpgsm.
(import_status_handler): Set a flag to know whether any import
occurred.
(gpgme_op_import): Return -1 if no certificate ewas imported.

2002-06-25 Werner Koch <wk@gnupg.org>
* engine-gpgsm.c (_gpgme_gpgsm_set_io_cbs) [ENABLE_GPGSM]: Fixed function arguments.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_export): Only export the keys listed in RECP.
* export.c (gpgme_op_export): If no data was returned, return GPGME_No_Recipients.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_export): Implement.

2002-06-21 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_assuan_simple_command): Return ERR.
  (parse_status): New function.
  (gpgsm_status_handler): Use parse_status.
  (gpgsm_assuan_simple_command): Accept new arguments STATUS_FNC and STATUS_FNC_VALUE and process status messages.
  (gpgsm_set_recipients): Pass new arguments to gpgsm_assuan_simple_command.
  (gpgsm_set_fd): Likewise.
  (_gpgme_gpgsm_op_keylist): Likewise.
  (_gpgme_gpgsm_op_keylist_ext): Likewise.
  (_gpgme_gpgsm_op_sign): Likewise.

2002-06-21 Marcus Brinkmann <marcus@g10code.de>

* wait.c (_gpgme_remove_io_cb): Unlock FDT->lock.

2002-06-20 Werner Koch <wk@gnupg.org>

* rungpq.c (build_argv): Ignore GPG_AGENT_INFO if set but empty.

* verify.c (calc_sig_summary): Set bad policy for wrong key usage.
  (skip_token): New.
  (_gpgme_verify_status_handler): Watch out for wrong key usage.
  (gpgme_get_sig_string_attr): Hack to return info on the key usage. Does now make use of the former RESERVED argument which has been renamed to WHATIDX.
  (gpgme_get_sig_ulong_attr): Renamed RESERVED to WHATIDX.

2002-06-14 Marcus Brinkmann <marcus@g10code.de>

* wait.c (do_select): Return -1 on error, and 0 if nothing to run.
  (_gpgme_wait_one): Only set HANG to zero if do_select returned an error, or there are no more file descriptors to wait on.
(_gpgme_wait_on_condition): Ignore return value from do_select for now.

2002-06-13 Werner Koch <wk@gnupg.org>

* verify.c (gpgme_op_verify): Make sure that we never access an uninitialized result structure.

2002-06-12 Werner Koch <wk@gnupg.org>

* keylist.c (struct keylist_result_s): New.
(_gpgme_release_keylist_result): Release it here
(keylist_status_handler): Handle truncated.
(append_xml_keylistinfo): New.
* gpgme.c (_gpgme_release_result): and use it here.
* types.h: Declare the new type here.
* context.h (struct gpgme_context_s): Use it here.

2002-06-11 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_release): Close status_cb.fd.
(_gpgme_gpgsm_new): Duplicate status file descriptor, so we can use our own close notification mechanism without interfering with assuan.

2002-06-11 Werner Koch <wk@gnupg.org>

* gpgme.h: Add GPGME_ATTR_SIG_SUMMARY and the GPGME_SIGSUM constants.
* verify.c (calc_sig_summary): New.
(gpgme_get_sig_ulong_attr): And use it here.

2002-06-10 Werner Koch <wk@gnupg.org>

* rungpg.h: Add new status codes TRUNCATED and ERROR.
* verify.c (is_token, copy_token): New.
(_gpgme_verify_status_handler): Use copy_token, handle the new ERROR status and store the errorcode used withgpgsm and trust status codes.
* gpgme.h: New attribute ERRTOK.
* key.c (gpgme_key_get_string_attr): Add dummy case for it.
(gpgme_get_sig_string_attr): Use it here to return the last error.

2002-06-10 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_start): Move the code that sets the close notification for the status fd to ...
(_gpgme_gpgsm_new): ... here.
* wait.h: Include "sema.h". Remove prototypes of
  _gpgme_remove_proc_from_wait_queue and _gpgme_register_pipe_handler. Add prototypes of
  _gpgme_fd_table_init, _gpgme_fd_table_deinit, _gpgme_fd_table_put,
  _gpgme_add_io_cb, _gpgme_remove_io_cb, _gpgme_wait_event_cb and
  _gpgme_wait_one..
* wait.c: Remove global variables PROC_QUEUE, PROC_QUEUE_LOCK,
  FD_TABLE_SIZE, FD_TABLE, FD_TABLE_LOCK. New global variables
  FDT_GLOBAL, CTX_DONE_LIST, CTX_DONE_LIST_SIZE,
  CTX_DONE_LIST_LENGTH and CTX_DONE_LIST_LOCK. Remove struct
  proc_s. Replace struct wait_item_s.
  (_gpgme_fd_table_init): New function.
  (_gpgme_fd_table_deinit): Likewise.
  (_gpgme_fd_table_put): Likewise.
  (set_process_done): Remove function.
  (do_select): Take argument FDT. Use that to decide which fds to
  select on.
  (_gpgme_remove_proc_from_wait_queue): Remove function.
  (_gpgme_wait_event_cb): New function.
  (_gpgme_wait_one): Likewise.
  (_gpgme_register_pipe_handler): Remove function.
  (_gpgme_remove_io_cb): New function.
  (_gpgme_remove_io_cb): Likewise.
  (gpgme_freeze_fd): Remove function.
  (_gpgme_thaw_fd): Remove function.
* rungpg.c (struct fd_data_map_s): Add new member TAG.
  (struct gpg_object_s): Likewise for STATUS and COLON. Add member
  IDX to CMD. Add new member IO_CBS.
  (close_notify_handler): New variables POSSIBLY_DONE and NOT_DONE.
  For each I/O callback, check if it should be unregistered. If all
  callbacks have been unregistered, trigger GPGME_EVENT_DONE.
  Remove member RUNNING.
  (_gpgme_gpg_new): Initialize new members.
  (_gpgme_gpg_release): Check PID not RUNNING. Don’t call
  _gpgme_remove_proc_from_wait_queue. Close GPG->CMD.FD if set.
  (build_argv): Store away the index instead the file descriptor for
  CMD.
  (_gpgme_gpg_spawn): Use _gpgme_gpg_add_io_cb to register IO
  callbacks.
  (gpg_status_handler): Change return type to void, remove PID
  argument, close filedescriptor if EOF or error occurs.
  (read_status): Use _gpgme_gpg_add_io_cb instead _gpgme_thaw_fd.
  Use IO_CBS->remove instead _gpgme_freeze_fd.
  (gpg_colon_line_handler): Change return type to void, remove PID
  argument, close filedescriptor if EOF or error occurs.
  (command_cb): Use IO_CBS->remove instead _gpgme_freeze_fd.
* gpgme.h (GpgmeIOCb): New type.
  (GpgmeRegisterIOCb): Likewise.
  (GpgmeRemoveIOCb): Likewise.
  (GpgmeEventIO): Likewise.
  (GpgmeEventIOCb): Likewise.
  (struct GpgmeIOCbs): New structure to hold I/O callbacks.
  (gpgme_set_op_io_cbs): New prototype.
  (gpgme_get_op_io_cbs): Likewise.
* io.h: Beautification.
* gpgme.c: Include "wait.h".
  (gpgme_new): Initialize FDT.
  (gpgme_get_io_cbs): Likewise.
  (_gpgme_op_event_cb): Likewise.
* data.c (_gpgme_data_inbound_handler): Change return type to void. Drop PID argument. Close FD on error and EOF.
  (write_mem_data): Don't close FD here ...
  (write_cb_data): ... or here ...
  (_gpgme_data_outbound_handler): ... but here. Change return type to void. Drop PID argument.
* context.h: Include "wait.h".
  (struct gpgme_context_s): New members FDT and IO_CBS.
* op-support.c: New file.
* Makefile.am (libgpgme_la_SOURCES): Add op-support.c.
* ops.h: Add prototype for _gpgme_op_reset().
* decrypt.c (_gpgme_decrypt_start): New argument SYNCHRONOUS. Use _gpgme_op_reset.
  (gpgme_op_decrypt_start): Add synchronous argument.
  (gpgme_op_decrypt): Likewise. Use _gpgme_wait_one instead gpgme_wait.
* delete.c (gpgme_op_delete_start): Rename to ...
  (_gpgme_op_delete_start): ... this. New argument SYNCHRONOUS. Use _gpgme_op_reset. Make function static.
  (gpgme_op_delete_start): Just a wrapper around _gpgme_op_delete_start now.
  (gpgme_op_delete): Add synchronous argument. Use _gpgme_wait_one instead gpgme_wait.
* encrypt.c: Include "wait.h".
  (gpgme_op_encrypt_start): Rename to ...
  (_gpgme_op_encrypt_start): ... this. New argument SYNCHRONOUS. Use _gpgme_op_reset. Make function static.
(gpgme_op_encrypt_start): Just a wrapper around
_gpgme_op_encrypt_start now.
(gpgme_op_encrypt): Add synchronous argument. Use _gpgme_wait_one
instead gpgme_wait.
* encrypt_sign.c (gpgme_op_encrypt_sign_start): Rename to ...
(_gpgme_op_encrypt_sign_start): ... this. New argument
SYNCHRONOUS. Use _gpgme_op_reset. Make function static.
(gpgme_op_encrypt_sign_start): Just a wrapper around
_gpgme_op_encrypt_sign_start now.
(gpgme_op_encrypt_sign): Add synchronous argument. Use
_gpgme_wait_one instead gpgme_wait.
* export.c (gpgme_op_export_start): Rename to ...
(_gpgme_op_export_start): ... this. New argument SYNCHRONOUS.
Use _gpgme_op_reset. Make function static.
(gpgme_op_export_start): Just a wrapper around
_gpgme_op_export_start now.
(gpgme_op_export): Add synchronous argument. Use _gpgme_wait_one
instead gpgme_wait.
* genkey.c (gpgme_op_genkey_start): Rename to ...
(_gpgme_op_genkey_start): ... this. New argument SYNCHRONOUS.
Use _gpgme_op_reset. Make function static.
(gpgme_op_genkey_start): Just a wrapper around
_gpgme_op_genkey_start now.
(gpgme_op_genkey): Add synchronous argument. Use _gpgme_wait_one
instead gpgme_wait.
* import.c (gpgme_op_import_start): Rename to ...
(_gpgme_op_import_start): ... this. New argument SYNCHRONOUS.
Use _gpgme_op_reset. Make function static.
(gpgme_op_import_start): Just a wrapper around
_gpgme_op_import_start now.
(gpgme_op_import): Add synchronous argument. Use _gpgme_wait_one
instead gpgme_wait.
* keylist.c (gpgme_op_keylist_start): Use _gpgme_op_reset.
(gpgme_op_keylist_ext_start): Likewise.
* sign.c (gpgme_op_sign_start): Rename to ...
(_gpgme_op_sign_start): ... this. New argument SYNCHRONOUS. Use
_gpgme_op_reset. Make function static.
(gpgme_op_sign_start): Just a wrapper around _gpgme_op_sign_start
now.
(gpgme_op_sign): Add synchronous argument. Use _gpgme_wait_one
instead gpgme_wait.
* trustlist.c (gpgme_op_trustlist_start): Use _gpgme_op_reset.
* verify.c (gpgme_op_verify_start): Rename to ...
(_gpgme_op_verify_start): ... this. New argument SYNCHRONOUS.
Use _gpgme_op_reset. Make function static.
(gpgme_op_verify_start): Just a wrapper around
_gpgme_op_verify_start now.
(gpgme_op_verify): Add synchronous argument. Use _gpgme_wait_one
instead gpgme_wait.
* engine-gpgsm.c (iocb_data_t): New type.
(struct gpgsm_object_s): New member status_cb. Replace input_fd
and input_data with input_cb. Replace output_fd and output_data
with output_cb. Replace message_fd and message_data with
(_gpgme_gpgsm_new): Initialize all new members (and drop the old
ones).
(close_notify_handler): New variable POSSIBLY_DONE. For each I/O
callback, check if it should be unregistered. If all callbacks
have been unregistered, trigger GPGME_EVENT_DONE.
(_gpgme_gpgsm_release): Remove variable PID. Use new variable
names to close the file descriptors.
(_gpgme_gpgsm_op_decrypt): Use new variable names,
(_gpgme_gpgsm_op_encrypt): Likewise.
(_gpgme_gpgsm_op_genkey): Likewise.
(_gpgme_gpgsm_op_import): Likewise.
(_gpgme_gpgsm_op_keylist): Likewise.
(_gpgme_gpgsm_op_keylist_ext): Likewise.
(_gpgme_gpgsm_op_sign): Likewise.
(_gpgme_gpgsm_op_verify): Likewise.
(gpgsm_status_handler): Drop argument PID. Change return type to
void. Close status pipe before returning because of EOF or error.
(_gpgme_gpgsm_start): Use _gpgme_gpgsm_add_io_cb to register
callback function.
* engine-gpgsm.h: New prototype for _gpgme_gpgsm_set_io_cbs.
* engine.c (_gpgme_engine_set_io_cbs): New function.
* engine.h: New prototype for _gpgme_engine_set_io_cbs.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_SOURCES): Remove mutex.h.

2002-06-03 Marcus Brinkmann <marcus@g10code.de>

* key.c: Include <ctypes.h>.
(_gpgme_key_append_name): Skip one more char when
processing escaped char. Submitted by Marc Mutz <mutz@kde.org>.
Handle hexadecimal encodings. Also reported by Marc. Thanks!

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* ath.h: Enable the _gpgme_ prefix. Fix all those prefix macros.
* posix-sema.c: Use that prefix here.
* posix-io.c: Include "ath.h".
(_gpgme_io_read): Use _gpgme_ath_read instead read.
(_gpgme_io_write): Use _gpgme_ath_write instead write.
(_gpgme_io_waitpid): Use _gpgme_ath_waitpid instead waitpid.
(_gpgme_io_select): Use _gpgme_ath_select instead select.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (ath_components): New variable.
(ath_components_pthread): Likewise.
(ath_components_pth): Likewise.
(system_components): Add ath_components.

* ath.h: New file.
* ath.c: Likewise.
* ath-pthread.c: Likewise.
* ath-pth.c: Likewise.
* posix-sema.c (_gpgme_sema_cs_enter): Rework to use the ATH interface.
* mutex.h: Remove file.

2002-05-30 Werner Koch <wk@gnupg.org>

* key.c (gpgme_key_get_string_attr): Return NULL when asking for an issuer with IDX > 0. We don't support altIssuerNames for now.

2002-05-22 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist_ext): Aehmm, added missing variable definition. Oohh - Marcus was faster.

2002-05-22 Marcus Brinkmann <marcus@gnu.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist_ext): Fix last change.

2002-05-21 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist)
(_gpgme_gpgsm_op_keylist_ext): Pass the keylist mode to gpgsm.

2002-05-10 Werner Koch <wk@gnupg.org>

* key.h (gpgme_key_s): Add OTRUST.
* keylist.c (set_ownertrust): New.
(keylist_colon_handler): Get the ownertrust value
* key.c (gpgme_key_get_string_attr,gpgme_key_get_ulong_attr):
Return that value.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>
* w32-util.c: New static variable GET_PATH_LOCK.
  (_gpgme_get_gpg_path): Remove superfluous NULL initializer.
  Take lock while determining path.
  (_gpgme_get_gpgsm_path): Likewise.
* version.c (doSubsystem_inits): Set DONE to 1 after initialization.
  (gpgme_get_engine_info): New variable ENGINE_INFO_LOCK. Take lock
  while determining engine info.
* rungpg.c (_gpgme_gpg_get_version): New variable
  GPG_VERSION_LOCK. Take the lock while determining the program
  version.
* posix-io.c: Include "sema.h".
  (_gpgme_io_spawn): New variable FIXED_SIGNALS_LOCK. Take the lock
  while fixing the signals.
  (_gpgme_io_select): Make READFDS and WRITEFDS non-static.
* key.c: Include "sema.h". New globals KEY_CACHE_LOCK and
  KEY_REF_LOCK.
  (capabilities_to_string): Make STRINGS very const.
  (_gpgme_key_cache_add): Lock the key cache.
  (_gpgme_key_cache_get): Likewise.
  (gpgme_key_ref, gpgme_key_release): Lock the key_ref_lock.
* import.c (append_xml_impinfo): Make IMPORTED_FIELDS and
  IMPORT_RES_FIELDS very const. Make FIELD and FIELD_NAME a little
  const.
* engine.c (_gpgme_engine_get_info): New variable
  ENGINE_INFO_LOCK. Take lock while determining engine info.
* engine-gpgsm.c: Include "sema.h".
  (_gpgme_gpgsm_get_version): New variable GPGSM_VERSION_LOCK. Take
  lock while getting program version.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

* debug.h: New file.
* Makefile.am (libgpgme_la_SOURCES): Add debug.h.
* util.h: Removed all prototypes and declarations related to debugging. Include "debug.h".

* debug.c (debug_level): Comment variable and remove superfluous zero initializer.
  (errfp): Likewise.
  (_gpgme_debug_enabled): Function removed.
  (struct debug_control_s): Definition removed.
  (_gpgme_debug_level): Function removed.
  (_gpgme_debug_begin): Rewritten to use vasprintf. Accept a
  printf-style format specification and a variable number of arguments.
  (_gpgme_debug_add): Rewritten using vasprintf. Expect that format
  starts out with "%s" for simplicity.
(_gpgme_debug_end): Rewritten using vasprintf. Do not accept a
TEXT argument anymore.

* posix-io.c (_gpgme_io_select): Use new level argument for
DEBUG_BEGIN instead explicit if construct.

* debug.c (debug_init): Remove superfluous zero initializer,
remove volatile flag of INITIALIZED. Do not use the
double-checked locking algorithm, it is fundamentally flawed and
will empty your fridge (on a more serious note, despite the
volatile flag it doesn't give you the guarantee you would expect,
for example on a DEC Alpha or an SMP machine. The volatile only
serializes accesses to the volatile variable, but not to the other
variables).

2002-05-03 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_new): Redirect any gpgsm error
output to /dev/null.

* verify.c (gpgme_get_sig_key): Set the protocol of the listctx.
* gpgme.c (gpgme_get_protocol): New.

* data.c (gpgme_data_write): Changed type of BUFFER to void*.
  (gpgme_data_read): Ditto.

* verify.c (_gpgme_verify_status_handler): Handle TRUST_* status
  lines so that a claim can be made without looking up the key.
  (gpgme_get_sig_string_attr): New.
  (gpgme_get_sig_ulong_attr): New.

* gpgme.h (GpgmeAttr): Added GPGME_ATTR_SIG_STATUS.

* rungpg.h: Add new status codes from gpg 1.0.7 and formatted the
  list to align with the status.h file from gnupg.

* gpgme.h (GpgmeSigStat): Add _GOOD_EXP and _GOOD_EXPKEY.
* verify.c (_gpgme_verify_status_handler, finish_sig): Handle
  these new status codes. Store the expiration time

2002-04-27 Werner Koch <wk@gnupg.org>

* gpgme.h (GpgmeData_Encoding): New.
* data.c (gpgme_data_get_encoding,gpgme_data_set_encoding): New.
* engine-gpgsm.c (map_input_enc): New. Use it in all local
  functions where the INPUT command gets send.

2002-04-27 Marcus Brinkmann <marcus@g10code.de>
* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Close the output
descriptor only when we don't need it anymore. Close the message
descriptor if we don't need it.

2002-04-26 Werner Koch  <wk@gnupg.org>

* Makefile.am (libgpgme_la_LIBADD): Use libtool libraries.

2002-04-25 Marcus Brinkmann  <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_release): Call gpgme_data_release on
GPG->cmd.cb_data, not xfree.

2002-04-25 Marcus Brinkmann  <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_new): Set the display, ttyname,
ttytype, lc_ctype and lc_messages options in the server.

2002-04-24 Marcus Brinkmann  <marcus@g10code.de>

* engine-gpgsm.c (map_assuan_error): Add new error codes.

2002-04-23 Werner Koch  <wk@gnupg.org>

* key.c (gpgme_key_get_ulong_attr): Swapped use of can_encrypt and
can_certify to return the requested values.

2002-04-23 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.c (gpgme_get_progress_cb): Allow either return parameter
to be NULL.
(gpgme_get_passphrase_cb): Likewise.

2002-04-22 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.c (gpgme_get_passphrase_cb): New function.
(gpgme_get_progress_cb): New function.
* gpgme.h: Add new prototypes for gpgme_get_passphrase_cb and
gpgme_get_progress_cb.

2002-03-28 Werner Koch  <wk@gnupg.org>

* gpgme.h (GpgmeAttr): Add values for issuer and chaining.
* key.h (gpgme_key_s): Add issuer and chaining elements for X509.
* keylist.c (keylist_colon_handler): Store them.
* key.c (gpgme_key_release): Free them.
(gpgme_key_get_as_xml,gpgme_key_get_string_attr): Print them.
2002-03-26 Werner Koch <wk@gnupg.org>

* Makefile.am (libgpgme_la_SOURCES): Add mutex.h

2002-03-21 Werner Koch <wk@gnupg.org>

* util.h ![HAVE_FOPENCOOKIE]: Make sure off_t and ssize_t are defined.

2002-03-18 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (system_components): New variable, set depending on HAVE_DOSISH_SYSTEM.
* libgpgme_la_SOURCES: Use system_components. Remove `syshdr.h'.
* syshdr.h: File removed.
* posix-io.c: Remove `HAVE_DOSISH_SYSTEM safeguard. Clean up source.
* posix-sema.c: Likewise.
* posix-util.c: Likewise.
* w32-io.c: Remove HAVE_DOSISH_SYSTEM safeguard.
* w32-sema.c: Likewise.
* w32-util.c: Likewise.
* posix-io.c: Include `unistd.h', do not include `syshdr.h'.
* posix-sema.c: Likewise.
* w32-io.c: Include `io.h', do not include `syshdr.h'
* w32-sema.c: Likewise.
* w32-util.c: Likewise.
* data.c: Do not include `syshdr.h'.
* wait.c: Likewise.
* wait.h: Code cleanup.
* mutex.h: New file.
* posix-sema.c: Implement.

2002-03-08 Werner Koch <wk@gnupg.org>

* util.h ![HAVE_FOPENCOOKIE]: Fixed type. Thanks to Frank Heckenbach.

2002-03-07 Werner Koch <wk@gnupg.org>

* gpgme.h (gpgme_op_keylist_ext_start): Add prototype.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* encrypt.c (_gpgme_encrypt_sym_status_handler): New function.
(gpgme_op_encrypt_start): New variable SYMMETRIC, set it if RECP
is null, and if it is set, use _gpgme_encrypt_sym_status_handler
as status handler and run _gpgme_passphrase_start.
* rungpg.c (_gpgme_gpg_op_encrypt): If RECP is zero, do symmetric
encryption.
* engine-gpgsm.c (_gpgme_gpgsm_op_encrypt): If RECP is zero,
return error value.

* rungpg.c (_gpgme_gpg_op_verify): Add "--" argument.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* passphrase.c (_gpgme_passphrase_status_handler): Also set the
error No_Passphrase if only a bad passphrase was provided.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_op_verify): If TEXT is of mode
GPGME_DATA_MODE_IN, construct a command line that stores the
plaintext in TEXT.
* verify.c (gpgme_op_verify_start): Accept TEXT being
uninitialized, and in this case interpret SIG as a normal or
cleartext signature and TEXT as a return data object.
* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Likewise.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist_ext) ![ENABLE_GPGSM]:
Add stub function.

2002-02-28 Werner Koch <wk@gnupg.org>

* key.h (subkey_s): New member expires_at.
* keylist.c (keylist_colon_handler): Set it here
* key.c (gpgme_key_get_as_xml,gpgme_key_get_ulong_attr): Return it.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* rungpg.h (_gpgme_gpg_op_keylist_ext): New prototype.
* rungpg.c (_gpgme_gpg_op_keylist_ext): New function.
* engine.h (_gpgme_engine_op_keylist_ext): New prototype.
* engine.c (_gpgme_engine_op_keylist_ext): New function.
* keylist.c (gpgme_op_keylist_ext_start): New function.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>
* gpgme.h: Add new error code GPGME_Invalid_Recipient.
* encrypt.c (struct encrypt_result_s): New member invalid_recipients, rename no_recipients to no_valid_recipients.
   (_gpgme_encrypt_status_handler): Include error for invalid recipients.
* engine-gpgsm.c (gpgsm_set_recipients): Change type of first argument to GpgsmObject. Use that to report back the status about the recipients.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* verify.c (_gpgme_verify_status_handler): Fix the last change.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* verify.c (_gpgme_verify_status_handler): Parse the args line to see if the problem is due to a missing key, and report that back to the user.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* engine.c (_gpgme_engine_op_encrypt_sign): New function.
* engine.h (_gpgme_engine_op_encrypt_sign): New prototype.
* rungpg.c (_gpgme_append_gpg_args_from_signers): New function.
   (_gpgme_gpg_op_sign): Use that new function.
* engine.c (_gpgme_gpg_op_encrypt_sign): New function.
* rungpg.h (_gpgme_gpg_op_encrypt_sign): New prototype.
* gpgme.h (gpgme_op_encrypt_sign_start): New prototype.
   (gpgme_op_encrypt_sign): Likewise.
* Makefile.am (libgpgme_la_SOURCES): Add encrypt-sign.c.
* ops.h (_gpgme_encrypt_status_handler): Add prototype.
   (_gpgme_sign_status_handler): Add prototype.
* sign.c (sign_status_handler): Rename to ...
   (_gpgme_sign_status_handler): ... this and make non-static.
* encrypt.c (encrypt_status_handler): Rename to ...
   (_gpgme_encrypt_status_handler): ... this and make non-static.
* encrypt.c (gpgme_op_encrypt_start): Use new status handler name.
* sign.c (gpgme_op_sign_start): Likewise.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* context.h (struct gpgme_context_s): New member include_certs.
* gpgme.h (gpgme_set_include_certs): Add prototype.
   (gpgme_get_include_certs): Likewise.
* gpgme.c (gpgme_set_include_certs): New function.
   (gpgme_get_include_certs): Likewise.
   (gpgme_new): Set include_certs to 1 (the default).
* engine.c (_gpgme_engine_op_sign): Accept new argument include_certs,
and pass it to _gpgme_gpgsm_op_sign.
* engine.h (_gpgme_engine_op_sign): Likewise for prototype.
* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Accept new argument include_certs and handle it.
* engine-gpgsm.h (_gpgme_gpgsm_start): Add new argument include_certs.
* sign.c (gpgme_op_sign_start): Add new argument to _gpgme_engine_op_sign call.

2002-02-14 Werner Koch <wk@gnupg.org>

* keylist.c (gpgme_op_keylist_start): Do not use a verbose listing.

2002-02-13 Werner Koch <wk@gnupg.org>

* vasprintf.c, fopencookie.c: Add replacement functions.
* util.h: Add prototypes for them.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_assuan_simple_command): Return 0 if we reach the end of the function.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* genkey.c (gpgme_op_genkey_start): Fix logic in validity check.
  (gpgme_op_genkey_start): Skip newlines after opening tag.
* engine-gpgsm.c (_gpgme_gpgsm_start): Remove cruft.

2002-02-08 Marcus Brinkmann <marcus@g10code.de>

* genkey.c (gpgme_op_genkey_start): Allow PUBKEY and SECKEY to be set, and pass them down to the crypto engine.
* engine-gpgsm.h (_gpgme_gpgsm_start): New arguments PUBKEY and SECKEY.
* engine.h: Likewise.
* rungpg.h (_gpgme_gpg_spawn): Likewise.
* engine.c (_gpgme_engine_op_genkey): Likewise. Use those arguments.
* rungpg.c (_gpgme_gpg_op_genkey): Likewise. Complain if those arguments are set.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_op_keylist): Remove handling of keylist
mode (for now).

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* wait.c (gpgme_wait): Add new argument STATUS, in which the
  status of the returned context is returned.
(_gpgme_wait_on_condition): Rework the function a bit, to make it
  aware of cancelled processes, and to allow to use gpgme_wait with
  CTX being NULL (as documented in the source).
(struct proc_s): New member REPORTED.
* gpgme.h: Fix prototype.
* verify.c (gpgme_op_verify): Fix use of gpgme_wait.
* sign.c (gpgme_op_sign): Likewise.
* import.c (gpgme_op_import): Likewise.
* genkey.c (gpgme_op_genkey): Likewise.
* export.c (gpgme_op_export): Likewise.
* encrypt.c (gpgme_op_encrypt): Likewise.
* delete.c (gpgme_op_delete): Likewise.
* decrypt-verify.c (gpgme_op_decrypt_verify): Likewise.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_keylist_mode): Possibly return an error
  value.
(gpgme_get_keylist_mode): New function.
(gpgme_new): Set the default for keylist_mode member of CTX.

* gpgme.h (gpgme_set_keylist_mode): Fix prototype.
(gpgme_get_keylist_mode): New prototype.
(GPGME_KEYLIST_MODE_LOCAL): New macro.
(GPGME_KEYLIST_MODE_EXTERN): Likewise.

2002-02-02 Marcus Brinkmann <marcus@g10code.de>

This patch has gotten a bit large... mmh. The main thing that
happens here is that error values are now not determined in the
operation function after gpgme_wait completed, but in the status
handler when EOF is received. It should always be the case that
either an error is flagged or EOF is received, so that after a
gpgme_wait you should never have the situation that no error is
flagged and EOF is not received. One problem is that the engine
status handlers don't have access to the context, a horrible
kludge works around this for now. All errors that happen during a
pending operation should be caught and reported in ctx->error,
including out-of-core and cancellation. This rounds up neatly a
couple of loose ends, and makes it possible to pass up any errors
in the communication with the backend as well. As a bonus, there
will be a function to access gpgme->wait, so that the operations
can truly be implemented with their _start function.

* engine-gpgsm.c (gpgsm_status_handler): Horrible kludge to report error back to the context.
* rungpg.c (gpg_status_handler): Same horrible kludge applied here.

* engine-gpgsm.c (gpgsm_assuan_simple_command): Add error checking.

* wait.c (_gpgme_wait_on_condition): If canceled, set CTX->error to a value indication that.

* verify.c (add_notation): Set error, not out_of_core.
  (finish_sig): Likewise.
  (gpgme_op_verify_start): Don't clear out_of_core.
  (_gpgme_verify_status_handler): At EOF, clean up the notation data.
  (gpgme_op_verify): And don't do it here.

* trustlist.c (trustlist_status_handler): Check error, not out_of_core.
  (gpgme_op_trustlist_start): Don't clear out_of_core.
  (gpgme_op_trustlist_next): Check error, not out_of_core.
  (gpgme_op_trustlist_end): Likewise.

* ops.h (test_and_allocate_result): New macro.
  (_gpgme_passphrase_result): Remove prototype.
* delete.c (gpgme_op_delete): Return error from context.
  (delete_status_handler): Use macro test_and_allocate_result.
  Perform error checking at EOF.
  (gpgme_op_delete_start): Release result.

* passphrase.c (_gpgme_passphrase_status_handler): Use macro test_and_allocate_result, and perform error checking here.
  (_gpgme_passphrase_result): Function removed.
* sign.c (gpgme_op_sign_start): Do not set out_of_core to zero.
  (gpgme_op_sign): Just return the error value from the context.
  (sign_status_handler): Only progress if no error is set yet. If we process an EOF, set the resulting error value (if any).
* decrypt.c (_gpgme_decrypt_result): Function removed.
  (create_result_struct): Function removed.
  (_gpgme_decrypt_status_handler): Use macro test_and_allocate_result, calculate error on EOF, do not progress with errors.
  (gpgme_op_decrypt_start): Do not set out_of_core to zero.
  (gpgme_op_decrypt): Just return the error value from the context.
* encrypt.c (encrypt_status_handler): Perform the error checking here.
  (gpgme_op_encrypt_start): Do not clear out_of_core.
* export.c (export_status_handler): Return if error is set in context.
  (gpgme_op_export_start): Release result.
  (gpgme_op_export): Return error from context.
* decrypt-verify.c (gpgme_op_decrypt_verify): Return the error in
the context.
* genkey.c (genkey_status_handler): Use macro
test_and_allocate_result. Perform error checking at EOF.
(gpgme_op_genkey): Just return the error from context.
* import.c (gpgme_op_import): Return the error from context.
(import_status_handler): Use macro test_and_allocate_result.
* keylist.c (gpgme_op_keylist_start): Do not clear out_of_core.
(gpgme_op_keylist_next): Return error of context.
(keylist_colon_handler): Set error instead out_of_code.
(finish_key): Likewise.

* context.h: Remove member out_of_core, add member error.
* gpgme.c (_gpgme_release_result): Clear error flag.

* engine.h (_gpgme_engine_get_error): New prototype.
* engine.c (_gpgme_engine_get_error): New function.
* engine-gpgsm.c (_gpgme_gpgsm_get_error): New function.

* engine-gpgsm.c (map_assuan_error): New function.
(gpgsm_assuan_simple_command): Change return type to GpgmeError,
use the new function to map error values.
(gpgsm_set_fd): Change return type tp GpgmeError.
(_gpgme_gpgsm_op_decrypt): Change type of ERR to GpgmeError.
(gpgsm_set_recipients): Likewise. Change type of return value
equivalently. Adjust error values.
(_gpgme_gpgsm_op_import): Likewise.
(_gpgme_gpgsm_op_sign): Likewise.
(struct gpgsm_object_s): New member error.
(gpgsm_status_handler): Set error if error occurs. Determine
error number from ERR line received. If assuan_read_line fails,
terminate the connection.

2002-02-01 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (MOSTLYCLEANFILES): New variable.

2002-02-01 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_status_handler): At error, terminate the
connection to the server.

2002-01-31 Marcus Brinkmann <marcus@g10code.de>

* rungpg.h: Add STATUS_KEY_CREATED.

* progress.c: New file.
* Makefile.am (libgpgme_la_SOURCES): Add progress.c.
* genkey.c (genkey_status_handler): Use _gpgme_progress_status_handler. Add check for status.
(struct genkey_result_s): New structure.
(_gpgme_release_genkey_result): New function.
(gpgme_op_genkey): Check for error.
* gpgme.c (_gpgme_release_result): Call _gpgme_release_genkey_result.
* gpgme.c (_gpgme_release_genkey_result): Add prototype.
* gpgme.c (GenKeyResult): New type.
* context.h (gpgme_context_s): Add GenKeyResult to member result.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (_gpgme_release_result): Call _gpgme_release_delete_result.
* gpgme.c (_gpgme_release_delete_result): Add prototype.
* gpgme.c (DeleteResult): New type.
* context.h (gpgme_context_s): Add DeleteResult to member result.

* delete.c (enum delete_problem): New type.
(struct delete_result_s): New structure.
(_gpgme_release_delete_result): New function.
(delete_status_handler): Implement more status codes.
(gpgme_op_delete): Return error on failure.

* import.c (MAX_IMPORTED_FIELDS): Bump up to 14.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* import.c (struct import_result_s): New structure.
(_gpgme_release_import_result): New function.
(append_xml_impinfo): Likewise.
(import_status_handler): Implement.
* gpgme.c (_gpgme_release_result): Add call to _gpgme_release_import_result.
* gpgme.c (ImportResult): Add prototype.
* context.h (gpgme_context_s): Add ImportResult to member result.

* encrypt.c (gpgme_op_encrypt): Code clean up.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add lots of comment and fix the formatting. Add gpgme_trustlist_end prototype.

2002-01-29 Marcus Brinkmann <marcus@g10code.de>
* gpgme.h: Add new type GpgmeIdleFunc. Change type of gpgme_register_idle to return and accept this type.
* wait.c (gpgme_register_idle): Fix type.
  Save and return old value of idle_function.

2002-01-29 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist): Implement secret only mode.

* keylist.c (keylist_colon_handler): Add support for the new "crs" record type.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_release): Call assuan_disconnect, not assuan_pipe_disconnect.

* Makefile.am (libgpgme_la_LIBADD): Change to link assuan and jnlib (needed by assuan) statically into libgpgme. Linking a static library into a shared library this way is not portable.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GpgmePassphraseCb): Change type of R_HD from void* to void**.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* data.c (gpgme_data_new_from_filepart): Change type of LENGTH from off_t to size_t.
  * gpgme.h: Likewise.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* wait.c (_gpgme_wait_on_condition): If the process finished, reset the pending flag. Also if the operation was cancelled.

  (struct proc_s): Rename READY to DONE.
  (wait_item_s): Likewise.
  (set_process_ready): Rename to ...
  (set_process_done): ... this.
  (_gpgme_remove_proc_from_wait_queue): Call set_process_done instead set_process_ready.
  (_gpgme_wait_on_condition): Likewise.
  (do_select): Rename READY to DONE.

* verify.c (gpgme_op_verify): Do not set pending to zero here.
* sign.c (gpgme_op_sign): Likewise.
* import.c (gpgme_op_import): Likewise.
* genkey.c (gpgme_op_genkey): Likewise.
* export.c (gpgme_op_export): Likewise.
* encrypt.c (gpgme_op_encrypt): Likewise.
* delete.c (gpgme_op_delete): Likewise.
* decrypt-verify.c (gpgme_op_decrypt_verify): Likewise.
* decrypt.c (gpgme_op_decrypt): Likewise.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* export.c: Cleanup.

2002-01-15 Marcus Brinkmann <marcus@g10code.de>

* trustlist.c: Various source clean ups.
  (my_isdigit): Removed.
  (gpgme_op_trustlist_end): New function.

2002-01-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c: Various source clean ups, like renaming C to CTX where appropriate.
  (gpgme_new): Clear R_CTX before starting the work.
  (my_isdigit): Removed.
  (my_isxdigit): Likewise.

* data.c: Various source clean ups.
  (gpgme_data_new_from_mem): Check BUFFER after clearing R_DH.
  (gpgme_data_new_with_read_cb): Similar for READ_CB.
  (gpgme_data_new_from_file): Loop over fread while EINTR.
  (gpgme_data_new_from_filepart): Rediddled a bit. Allow LENGTH to be zero. Loop over fread while EINTR.
  (my_isdigit): Removed.
  (my_isxdigit): Likewise.

2001-12-21 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_new): Replace General_Error with Pipe_Error where appropriate.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* engine.c: Include `string.h'. Reported by Stphane Corthsy.

* version.c (get_engine_info): Remove prototype.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>
* engine-gpgsm.c (_gpgme_gpgsm_new): New variable CHILD_FDS. 
Fill it with the servers fds, and pass it to assuan_pipe_connect.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_op_keylist_end): New function. 
* gpgme.h (gpgme_op_keylist_end): New prototype.

* engine.h (gpgme_engine_check_version): Move prototype to ...
* gpgme.h (gpgme_engine_check_version): ... here.

* genkey.c (gpgme_op_genkey_start): Remove unused variable.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* version.c (gpgme_get_engine_info): Reimplemented. 
(gpgme_check_engine): Reimplemented. 
(_gpgme_compare_versions): Return NULL if MY_VERSION is NULL.

* engine.c: Include `io.h'.
(gpgme_engine_get_info): New function. 
* engine.h (gpgme_engine_check_version, _gpgme_engine_get_info): 
Add prototype.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (struct reap_s, reap_list, reap_list_lock): Moved to ...
* engine.c (struct reap_s, reap_list, reap_list_lock): ... here. 
Include `time.h', `sys/types.h', `assert.h', and `sema.h'.

* rungpg.c (_gpgme_engine_add_child_to_reap_list): New function. 
(do_reaping, _gpgme_gpg_housecleaning): Moved to ...
* engine.c (do_reaping, _gpgme_engine_housecleaning): ... here. 
* rungpg.c (_gpgme_gpg_release): Replace code that is now in its 
own function by call to _gpgme_engine_add_child_to_reap_list().

* wait.c: Include `engine.h'. 
(run_idle): Call _gpgme_engine_housecleaning(), not 
_gpgme_gpg_housecleaning().

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* key.c (_gpgme_key_append_name): Append, not prepend, the uid. 
Initialize the next field of the uid structure. 
(gpgme_key_get_as_xml): Do not list last uid first.

2001-12-17 Marcus Brinkmann <marcus@g10code.de>
* engine-gpgsm.c (_gpgme_gpgsm_set_colon_line_handler): New function ![ENABLE_GPGSM].

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Put TEXT into message_data, not SIG.
  (_gpgme_gpgsm_op_sign): Use `--detached', not `--detach'.

* sign.c (sign_status_handler): Call _gpgme_passphrase_status_handler early.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Revert last change.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_status_handler): Freeze the output file handler when ending this operation, otherwise the wait function will sit on it.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (struct gpgsm_object_s): New member colon.attic.
  (_gpgme_gpgsm_new): Initialize some more members.
  (_gpgme_gpgsm_release): Free the colon line handler's attic line.
  (gpgsm_status_handler): Rework the inline-data processing.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_spawn): Do not add the fds to the child list that are not dup'ed, for those the close-on-exec flag is set now.
* version.c (_gpgme_get_program_version): Remove first entry in CFD, as the close-on-exec flag is now set for this fd.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_encrypt): Do not add `armor' option to `ENCRIPT'.
* engine-gpgsm.c (gpgsm_set_recipients): Free LINE when returning successfully.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (close_notify_handler): New function.
(_gpgme_gpgsm_new): Manage the file descriptors a bit differently. Do not set close-on-exec flags.
(_gpgme_gpgsm_op_decrypt): Do not set message_fd to -1, this is done by the close handler.
(_gpgme_gpgsm_op_encrypt): Likewise.
(_gpgme_gpgsm_op_import): Likewise (also for output_fd).
(_gpgme_gpgsm_op_keylist): Likewise (also for input_fd and output_fd).
(_gpgme_gpgsm_op_sign): Likewise.
(_gpgme_gpgsm_op_verify): Likewise, but for output_fd.

* posix-io.c (_gpgme_io_pipe): Set the close-on-exec flag for the non-inherited file descriptor index of the pipe.

2001-12-13 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_set_colon_line_handler): New.
  (gpgsm_status_handler): Pass datalines to a colon handler
* engine.c (_gpgme_engine_set_colon_line_handler): Set the colon handler for gpgsm.

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist): Allow NULL for pattern.
  (gpgsm_assuan_simple_command): Removed underscore from assuan_write_line.
(_gpgme_gpgsm_start): Ditto.
  (gpgsm_assuan_simple_command): Replaced internal Assuan read function by the new assuan_read_line. Removed the use of the internal header.
  (gpgsm_status_handler): Ditto. Use the new assuan_pending_line.
(_gpgme_gpgsm_start): Use the documented way to get an fd from assuan.

* keylist.c (keylist_colon_handler): Handle "cert" records
* key.h (gpgme_key_s): Add an x509 flag.
* key.c (parse_x509_user_id): New.
  (_gpgme_key_append_name): Handle x.509 names.

2001-12-05 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_status_handler): Make it work with current version of assuan.

2001-12-05 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_set_fd): Accept one more argument OPT.
  (_gpgme_gpgsm_op_encrypt): Pass armor argument to gpgsm_set_fd for output descriptor.
  (_gpgme_gpgsm_op_sign): Likewise.
2001-12-05 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_op_keylist_next): Set pending to 0 if EOF occurs.

2001-11-26 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Fix stupid typo.

2001-11-24 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_status_handler): Don't break if bsearch fails. Deal with assuan read line returning more than one line (for now).

2001-11-23 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Implement it according to the current protocol definition.

2001-11-23 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_new): Set CLOEXEC flag for parent ends of the pipe.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Include stdlib.h and string.h. Also include, for now, rungpg.h and status-table.h.
(gpgsm_status_handler): Implement more of the status handler.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* engine.c (_gpgme_engine_op_decrypt): Implement CMS case.
(_gpgme_engine_op_delete): Likewise.
(_gpgme_engine_op_encrypt): Likewise.
(_gpgme_engine_op_export): Likewise.
(_gpgme_engine_op_genkey): Likewise.
(_gpgme_engine_op_keylist): Likewise.
(_gpgme_engine_op_sign): Likewise.
(_gpgme_engine_op_trustlist): Likewise.

* engine-gpgsm.c (_gpgme_gpgsm_op_decrypt): New function.
(gpgsm_assuan_simple_command): Likewise.
(gpgsm_set_recipients): Likewise.
(gpgsm_set_fd): Reimplement using gpgsm_assuan_simple_command.
(_gpgme_gpgsm_op_delete): New function.
(_gpgme_gpgsm_op_export): Likewise.
(_gpgme_gpgsm_op_genkey): Likewise.
(_gpgme_gpgsm_op_sign): Likewise.
(_gpgme_gpgsm_op_keylist): Likewise.
(_gpgme_gpgsm_op_trustlist): Likewise.
(_gpgme_gpgsm_release): Release command.
(_gpgme_gpgsm_op_decrypt): Allocate command.
(_gpgme_gpgsm_op_import): Likewise.
(gpgsm_status_handler): Also treat ‘ERR’ strings as EOF.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>
* gpgme.h (gpgme_set_protocol): New prototype.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>
* engine-gpgsm.c (_gpgme_gpgsm_op_decrypt): New function.
 (_gpgme_gpgsm_op_import): Likewise.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>
* engine-gpgsm.c: Shuffle around header inclusion a bit, to still
keep them separate.
(_gpgme_set_status_handler) ![ENABLE_GPGSM]: New function.

2001-11-22 Werner Koch <wk@gnupg.org>
* engine-gpgsm.c: Include more headers so that NULL and mk_error
is defined even with an undefined GPGSM_PATH.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>
* rungpg.c (gpg_inbound_handler, write_mem_data, write_cb_data,
gpg_outbound_handler): Moved to ...
* data.c (_gpgme_data_inbound_handler, write_mem_data,
write_cb_data, _gpgme_data_outbound_handler): ... here. Make the
_gpgme_* ones non-static.
* data.c: Include io.h.

* ops.h (_gpgme_data_inbound_handler): New prototype.
 (_gpgme_data_outbound_handler): Likewise.
(_gpgme_gpg_spawn): Use these new functions.

* engine-gpgsm.h (_gpgme_gpgsm_op_decrypt, _gpgme_gpgsm_op_delete,
 _gpgme_gpgsm_op_encrypt, _gpgme_gpgsm_op_export,
 _gpgme_gpgsm_op_genkey, _gpgme_gpgsm_op_import,
 _gpgme_gpgsm_op_keylist, _gpgme_gpgsm_op_sign,
 _gpgme_gpgsm_op_trustlist, _gpgme_gpgsm_op_verify,
 _gpgme_gpgsm_start, _gpgme_gpgsm_set_status_handler): New prototype.
Include <rungpg.h> for status handler function.

* engine-gpgsm.c (struct gpgsm_object_s): New members input_fd, input_data, output_fd, output_data, message_fd, message_data, command and status.
(_gpgme_gpgsm_new): Open input, output and message pipes before connecting to the client. Close server's ends afterwards.
(_gpgme_gpgsm_release): Close open file descriptors. Remove server process from wait queue.

* engine.c (_gpgme_engine_start): Implement for GPGME_PROTOCOL_CMS.
(_gpgme_engine_set_status_handler): Likewise.
(_gpgme_engine_op_verify): Likewise.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

* context.h: Do not include rungpgh, but engine.h.
(struct gpgme_context_s): Replace member gpg with engine.
* gpgme.c (gpgme_release): Release engine, not gpg.

* recipient.c (_gpgme_append_gpg_args_from_recipients): Function moved ...
* rungpg.c (_gpgme_append_gpg_args_from_recipients): ... here.
Make static, change order of arguments, and return an error value.
* ops.h (_gpgme_gpg_op_verify): Removed prototype.

* rungpg.h (_gpgme_gpg_op_verify): Add prototype.
(_gpgme_gpg_op_encrypt): Likewise.
(_gpgme_gpg_op_decrypt): Likewise.
(_gpgme_gpg_op_delete): Likewise.
(_gpgme_gpg_op_export): Likewise.
(_gpgme_gpg_op_genkey): Likewise.
(_gpgme_gpg_op_import): Likewise.
(_gpgme_gpg_op_keylist): Likewise.
(_gpgme_gpg_op_sign): Likewise.
(_gpgme_gpg_op_trustlist): Likewise.
* rungpg.c (_gpgme_gpg_op_verify): New function.
(_gpgme_gpg_op_encrypt): Likewise.
(_gpgme_gpg_op_decrypt): Likewise.
(_gpgme_gpg_op_delete): Likewise.
(_gpgme_gpg_op_export): Likewise.
(_gpgme_gpg_op_genkey): Likewise.
(_gpgme_gpg_op_import): Likewise.
(_gpgme_gpg_op_keylist): Likewise.
(_gpgme_gpg_op_sign): Likewise.
(_gpgme_gpg_op_trustlist): Likewise.
* engine.h (_gpgme_engine_set_status_handler): Add prototype.
  (_gpgme_engine_set_command_handler): Likewise.
  (_gpgme_engine_set_colon_line_handler): Likewise.
  (_gpgme_engine_op_decrypt): Likewise.
  (_gpgme_engine_op_delete): Likewise.
  (_gpgme_engine_op_encrypt): Likewise.
  (_gpgme_engine_op_export): Likewise.
  (_gpgme_engine_op_genkey): Likewise.
  (_gpgme_engine_op_import): Likewise.
  (_gpgme_engine_op_keylist): Likewise.
  (_gpgme_engine_op_sign): Likewise.
  (_gpgme_engine_op_verify): Likewise.
  (_gpgme_engine_start): Likewise.
* engine.c (_gpgme_engine_set_status_handler): New function.
  (_gpgme_engine_set_command_handler): Likewise.
  (_gpgme_engine_set_colon_line_handler): Likewise.
  (_gpgme_engine_op_decrypt): Likewise.
  (_gpgme_engine_op_delete): Likewise.
  (_gpgme_engine_op_encrypt): Likewise.
  (_gpgme_engine_op_export): Likewise.
  (_gpgme_engine_op_genkey): Likewise.
  (_gpgme_engine_op_import): Likewise.
  (_gpgme_engine_op_keylist): Likewise.
  (_gpgme_engine_op_sign): Likewise.
  (_gpgme_engine_op_trustlist): Likewise.
  (_gpgme_engine_op_verify): Likewise.
  (_gpgme_engine_start): Likewise.

* verify.c (gpgme_op_verify_start): Reimplement in terms of above functions.
* encrypt.c (gpgme_op_encrypt_start): Likewise.
* decrypt.c (_gpgme_decrypt_start): Likewise.
* passphrase.c (_gpgme_passphrase_start): Likewise.
* keylist.c (gpgme_op_keylist_start): Likewise.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* types.h: Add types EngineObject and GpgsmObject.

* Makefile.am (libgpgme_la_SOURCES): Add engine-gpgsm.h,
  engine-gpgsm.c, engine.h and engine.c.
* engine.h: New file.
* engine.c: Likewise.
* engine-gpgsm.h: Likewise.
* engine-gpgsm.c: Likewise.
* rungpg.c (_gpgme_gpg_get_version): New function.
  (_gpgme_gpg_check_version): Likewise.
* rungpg.h: Add prototypes for _gpgme_gpg_get_version and
  _gpgme_gpg_check_version.

* version.c (compare_versions): Rename to ...
  (_gpgme_compare_versions): ... this. Make non-static.
  (gpgme_check_version): Use _gpgme_compare_versions rather than
  compare_versions.
  (gpgme_check_engine): Likewise.
* ops.h (_gpgme_get_program_version): Add prototype.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_INCLUDES): Remove obsolete directive.
  (AM_CPPFLAGS): New directive [BUILD_ASSUAN].
  (libgpgme_la_LIBADD): Likewise.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* version.c: Remove global variables lineno and
  tmp_engine_version.
  (version_handler): Removed.
  (_gpgme_get_program_version): New function.
  (get_engine_info): Don't use context and version_handler,
  but _gpgme_get_program_version.
* ops.h (_gpgme_get_program_version): Add prototype for
  _gpgme_get_program_version (we expect to use it elsewhere soon).

2001-11-18 Marcus Brinkmann <marcus@g10code.de>

* version.c (get_engine_info): If GnuPG is not available, return
  an error message.
* posix-util.c (_gpgme_get_gpg_path): Allow GPG_PATH to be
  undefined.
  (_gpgme_get_gpgrsm_path): New function.
* w32-util.c (find_program_in_registry): New static function.
  (_gpgme_get_gpg_path): Allow GPG_PATH to be undefined. Rework
  to use find_program_in_registry.
  (_gpgme_get_gpgrsm_path): New function.
  (util.h): Prototype _gpgme_get_gpgrsm_path).
* rungpg.c (_gpgme_gpg_spawn): Verify that _gpgme_get_gpg_path() returns non-null.

2001-11-16 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_SOURCES): Add decrypt-verify.c.
* types.h: Add decrypt-verify types.
* ops.h: Likewise.
* context.h: Add result type for decrypt-verify.
* gpgme.h: Add decrypt-verify prototypes.

* decrypt.c (decrypt_status_handler): Renamed to ...
  (_gpgme_decrypt_status_handler): ... this. Make non-static.
  (gpgme_decrypt_start): New function, derived from
  gpgme_op_decrypt_start.
  (gpgme_op_decrypt_start): Reimplement in terms of
    _gpgme_decrypt_start.
  (_gpgme_decrypt_result): New function to retrieve error value.
  (gpgme_op_decrypt): Use _gpgme_decrypt_result.
* ops.h: Add prototypes for new functions.

* verify.c (verify_status_handler): Renamed to ...
  (_gpgme_verify_status_handler): ... this. Make non-static.
  (gpgme_op_verify_start): Use new function name.
  (intersect_stati): Renamed to ...
    (_gpgme_intersect_stati): ... this. Make non-static.
  (gpgme_op_verify): Use new name.
* ops.h: Add prototypes for new functions.

2001-11-16 Marcus Brinkmann <marcus@g10code.de>

* passphrase.c: New file.
* Makefile.am (libgpgme_la_SOURCES): Add passphrase.c.
* ops.h (_gpgme_passphrase_result): Add prototypes from
  passphrase.c.
* types.h: Likewise.
* context.h: Add member passphrase to result.
* gpgme.c (_gpgme_release_result): Release passphrase member.

* decrypt.c: Some formatting and variable name changes (like
  CTX instead C).
  (struct decrypt_result_s): Remove members now found in
  passphrase result.
  (_gpgme_release_decrypt_result): Don't release removed members.
  (decrypt_status_handler): Call _gpgme_passphrase_status_handler,
  and don't handle the cases caught there.
  (command_handler): Removed.
  (gpgme_op_decrypt_start): Don't set command handler, but invoke
    _gpgme_passphrase_start which does it.
  (gpgme_op_decrypt): Invoke _gpgme_passphrase_result and drop the
  cases covered by it.

* sign.c: Some formatting and variable name changes (like
  CTX instead C).
(struct sign_result_s): Remove members now found in passphrase result.
(_gpgme_release_sign_result): Don't release removed members.
(sign_status_handler): Call _gpgme_passphrase_status_handler,
and don't handle the cases caught there.
(command_handler): Removed.
(gpgme_op_sign_start): Don't set command handler, but invoke
_gpgme_passphrase_start which does it.
(gpgme_op_sign): Invoke _gpgme_passphrase_result and drop the
cases covered by it.

2001-11-15 Marcus Brinkmann <marcus@g10code.de>

* decrypt.c (command_handler): Fix last change.

2001-11-15 Marcus Brinkmann <marcus@g10code.de>

* verify.c (_gpgme_release_verify_result): Rename RES to RESULT.
Rename R2 to NEXT_RESULT.
(intersect_stati): Rename RES to RESULT.
(gpgme_get_sig_status): Likewise. Do not check return_type, but
the member verify of result.
(gpgme_get_sig_key): Likewise.

* sign.c (_gpgme_release_sign_result): Rename RES to RESULT. If
RESULT is zero, return.
(sign_status_handler, command_handler): Do not check return_type,
but the member sign of result.
(gpgme_op_sign): Likewise. Drop assertion.

* encrypt.c (_gpgme_release_encrypt_result): Rename RES to RESULT. If
RESULT is zero, return.
(encrypt_status_handler): Do not check return_type, but the member
encrypt of result.
(gpgme_op_encrypt): Likewise. Drop assertion.

* decrypt.c (_gpgme_release_decrypt_result): Rename RES to RESULT.
(create_result_struct): Do not set result_type.
(command_handler, decrypt_status_handler): Do not check return_type,
but the member decrypt of result.
(gpgme_op_decrypt): Likewise. Drop assertion.

* context.h (enum ResultType): Removed.
(struct gpgme_context_s): Remove member result_type.
(struct result): Replaces union result.
* gpgme.c: Include string.h.
(_gpgme_release_result): Release all members of c->result, which
is now a struct. Zero out all members of the struct afterwards.
2001-11-11 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_release): Release GPG->cmd.cb_data.
  Release all members of the list GPG->arglist.
  Reported by Michael Schmidt <mschmidt@cs.uni-sb.de>.

2001-11-02 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (pipemode_copy): Change type of NBYTES to size_t.
  
* key.c: Include string.h.
* data.c: Likewise.
* recipient.c: Likewise.

2001-10-29 Marcus Brinkmann <marcus@g10code.de>

* context.h: New member signers_len.
* signers.c (gpgme_signers_clear): Require that signers are
  non-NULL with assertion. Use signers_len to determine how much
  keys to release. Add documentation.
* (gpgme_signers_add): Use signers_len to determine if the buffer is
  large enough. Use xtryrealloc rather than xtrymalloc and copying.
  Add documentation.
* (gpgme_signers_enum): Use signers_len to determine if key is
  available. Add documentation.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* data.c (_gpgme_data_append): Check if LENGTH is smaller than
  ALLOC_CHUNK, not DH->length.

2001-10-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_protocol): Fix last change.

2001-10-15 Werner Koch <wk@gnupg.org>

* gpgme.h (GpgmeProtocol): New.
* gpgme.c (gpgme_set_protocol): New.

2001-09-26 Werner Koch <wk@gnupg.org>

* gpgme.c (gpgme_set_passphrase_cb): Ignore a NULL context.

2001-09-17 Werner Koch <wk@gnupg.org>
* keylist.c (finish_key): Shortcut for no tmp_key. Changed all
callers to use this function without a check for tmp_key.

* keylist.c (gpgme_op_keylist_next): Reset the key_cond after
emptying the queue. Bug reported by Stphane Corthesy.

2001-09-12 Werner Koch <wk@gnupg.org>

* data.c (gpgme_data_rewind): Allow rewind for callbacks.

2001-09-07 Werner Koch <wk@gnupg.org>

* rungpg.h: Add NO_RECP.
* encrypt.c (encrypt_status_handler): Take on No_RECP.
  (gpgme_op_encrypt): Better error return.

* verify.c (verify_status_handler): Take on NODATA.

2001-09-03 Werner Koch <wk@gnupg.org>

* rungpg.h: Added STATUS_INV_RECP.
* gpgme.c (_gpgme_release_result): Add support for new
  EncryptResult object.
  * encrypt.c (append_xml_encinfo): New.
  (encrypt_status_handler): Add some status parsing.
  (_gpgme_release_encrypt_result): New.

2001-08-29 Werner Koch <wk@gnupg.org>

* recipient.c (gpgme_recipients_release): Free the list. By Timo.

* keylist.c (keylist_colon_handler): Do a finish key if we receive
  an EOF here. This is probably the reason for a lot of bugs
  related to keylisting. It is so obvious. Kudos to Enno Cramer
  for pointing that out.

2001-08-28 Werner Koch <wk@gnupg.org>

* gpgme.c, gpgme.h (gpgme_get_op_info): New.
  (_gpgme_set_op_info): New.
  (_gpgme_release_result): Reset the op_info here.
* sign.c (append_xml_siginfo): New.
  (sign_status_handler): Store the sig create information.

2001-07-31 Werner Koch <wk@gnupg.org>

* encrypt.c (gpgme_op_encrypt): Hack to detect no valid recipients.
2001-07-30 Werner Koch <wk@gnupg.org>

* gpgme.c (gpgme_get_armor,gpgme_get_textmode): New.

* rungpg.c (build argv): Disable armor comments
* w32-io.c (build_commandline): Need to add quotes here

2001-07-24 Werner Koch <wk@gnupg.org>

* data.c (gpgme_data_read): Add a a way to return the available bytes.

2001-07-23 Werner Koch <wk@gnupg.org>

* util.c: Removed stpcpy() because we use the version from jnlib.

2001-07-19 Werner Koch <wk@gnupg.org>

* mkstatus: Define the collating sequence for sort.

2001-06-26 Werner Koch <wk@gnupg.org>

* rungpg.h: Add STATUS_UNEXPECTED as suggested by Timo.

2001-06-15 Werner Koch <wk@gnupg.org>

* keylist.c (set_userid_flags): Fixed the assigned values. Kudos to Timo for pointing this out.

2001-06-01 Werner Koch <wk@gnupg.org>


2001-05-28 Werner Koch <wk@gnupg.org>

* version.c (gpgme_check_engine): Stop version number parsing at the opening angle and not the closing one. By Tommy Reynolds.

2001-05-01 Jos Carlos Garca Sogo <jose@jaimedelamo.eu.org>

* encrypt.c (gpgme_op_encrypt_start): Deleted the assert ( !c->gpg ) line, because it gave an error if another operation had been made before using the same context.

* decrypt.c (gpgme_op_decrypt_start): The same as above. Also added one line to release the gpg object in the context (if any).

2001-04-26 Werner Koch <wk@gnupg.org>
* key.c, key.h (_gpgme_key_cache_init): New.
(_gpgme_key_cache_add): New.
(_gpgme_key_cache_get): New.
* version.c (do_subsystem_inits): Init the cache.
* keylist.c (finish_key): Put key into the cache
* verify.c (gpgme_get_sig_key): First look into the cache.

2001-04-19 Werner Koch <wk@gnupg.org>

* keylist.c (parse_timestamp): Adjusted for the changed
   --fixed-list-mode of gpg 1.0.4h.

2001-04-05 Werner Koch <wk@gnupg.org>

* verify.c (gpgme_op_verify_start): Enabled pipemode for detached sigs.

2001-04-04 Werner Koch <wk@gnupg.org>

* w32-io.c (_gpgme_io_select): Don't select on the writer if there
   are still bytes pending. Timo found this not easy to track down
   race condition.

2001-04-02 Werner Koch <wk@gnupg.org>

* gpgme.h: Add GPGME_ATTR_KEY_{EXPIRED,DISABLED}.
* key.c (gpgme_key_get_ulong_attr): And return those attribs.

* verify.c (gpgme_get_sig_key): Set keylisting mode depending on
   the mode set in the current context. Suggested by Timo.

* key.c (gpgme_key_get_ulong_attr): Return can_certify and not
   can_encrypt. By Timo.

2001-03-30 Werner Koch <wk@gnupg.org>

* debug.c (debug_init): Allow to specify a debug file.
(_gpgme_debug_level): New.

* posix-io.c (_gpgme_io_read, _gpgme_io_write): Print output.
(_gpgme_io_select): Debug only with level > 2.

2001-03-15 Werner Koch <wk@gnupg.org>

* rungpg.c: Included time.h.

* key.h: New keyflags for capabilities.
* keylist.c (set_mainkey_capability, set_subkey_capability): New.
(keylist_colon_handler): Parse them.
* gpgme.h: New attribute values for capabilities.
* key.c (gpgme_key_get_string_attr): Return them.
(capabilities_to_string): New.
(gpgme_key_get_ulong_attr): Return the global caps.

2001-03-14 Werner Koch <wk@gnupg.org>

* w32-io.c (destroy_reader,destroy_writer): Fixed syntax error.
Thanks to Jan Oliver Wagner.

2001-03-13 Werner Koch <wk@gnupg.org>

* context.h: Add invalid and revoke flags to user_id structure.
* keylist.c (gpgme_op_keylist_start): Use --fixed-list-mode.
(keylist_colon_handler): Adjust for that.
(set_userid_flags): New.
(set_mainkey_trust_info): Handle new key invalid flag
(set_subkey_trust_info): Ditto.
* gpgme.h: Add new attributes for key and user ID flags.
* key.c (_gpgme_key_append_name): Init these flags
(gpgme_key_get_as_xml): Print them.
(one_uid_as_xml): New helper for above.
(gpgme_key_get_string_attr, gpgme_key_get_ulong_attr): Return the new attributes. Enhanced, so that subkey information
can be returned now.

2001-02-28 Werner Koch <wk@gnupg.org>

* w32-io.c (destroy_reader): Set stop_me flag.
(writer,create_writer,destroy_writer,find_writer,kill_writer): New.
(_gpgme_io_write): Use a writer thread to avoid blocking.
(_gpgme_io_close): Cleanup a writer thread
(_gpgme_io_select): Replace the faked wait on writing by a real
waiting which is now possible due to the use of a writer thread.

2001-02-20 Werner Koch <wk@gnupg.org>

(create_reader, reader): Add a new event to stop the thread.
(_gpgme_io_close): Kill the reader thread.

* posix-io.c (_gpgme_io_select): Handle frozen fds here.

* wait.c: Reworked the whole thing.
* rungpg.c (_gpgme_gpg_new): Init pid to -1.
(_gpgme_gpg_release): Remove the process from the wait queue.
2001-02-19 Werner Koch <wk@gnupg.org>

* w32-io.c (_gpgme_io_set_close_notify): New.
(_gpgme_io_close): Do the notification.

* posix-io.c (_gpgme_io_select): Use a 1 sec timeout and not 200 microseconds.

* wait.c (remove_process): Don't close the fd here.
(do_select): Set the fd to -1 and remove the is_closed flag everywhere.
(_gpgme_wait_on_condition): Remove the assert on the queue and break out if we could not find the queue. The whole thing should be reworked.

* posix-io.c (_gpgme_io_set_close_notify): New.
(_gpgme_io_close): Do the notification.

* rungpg.c (close_notify_handler): New.
(_gpgme_gpg_new): Register a callback for the fd.
(_gpgme_gpg_set_colon_line_handler): Ditto.
(build_argv): Ditto

2001-02-13 Werner Koch <wk@gnupg.org>

* rungpg.c (struct reap_s): Replaced pid_t by int.

* types.h: Add ulong typedef.

* rungpg.c (do_reaping,_gpgme_gpg_housecleaning): New.
* w32-io.c (_gpgme_io_kill): New (dummy).

* keylist.c (gpgme_op_keylist_start): Cancel a pending request.

* posix-io.c (_gpgme_io_read): Add some debug output.
(_gpgme_io_write): Ditto.
(_gpgme_io_select): Increased the timeout.

2001-02-12 Werner Koch <wk@gnupg.org>

Enhanced the signature verification, so that it can how handle more than one signature and is able to return more information on the signatures.

* verify.c (gpgme_get_sig_key): New.
(gpgme_get_sig_status): New.
* gpgme.h: Add stdio.h.
  (GpgmeSigStat): New status DIFF.

2001-02-01 Werner Koch <wk@gnupg.org>

* w32-io.c (set_synchronize): Add EVENT_MODIFY_STATE. Add Debug code to all Set/ResetEvent().

* rungpg.c (read_status): Check for end of stream only if we have an r. By Timo.

2001-01-31 Werner Koch <wk@gnupg.org>

* wait.c (_gpgme_wait_on_condition): Removed all exit code processing.
  (propagate_term_results,clear_active_fds): Removed.
  (count_active_fds): Renamed to ..
  (count_active_and_thawed_fds): .. this and count only thawed fds.

* rungpg.c (gpg_colon_line_handler): Return colon.eof and not status.eof ;-)

2001-01-30 Werner Koch <wk@gnupg.org>

* w32-io.c (_gpgme_io_spawn): Use the supplied path arg.

* version.c (get_engine_info): Return better error information.

* posix-util.c, w32-util.c: New.
  (_gpgme_get_gpg_path): New, suggested by Jan-Oliver.
* rungpg.c (_gpgme_gpg_spawn): Use new function to get GPG's path.

* signers.c (gpgme_signers_add): Ooops, one should test code and not just write it; the newarr was not assigned. Thanks to Jos for pointing this out. Hmmm, still not tested, why should a coder test his fix :-)

* w32-io.c: Does now use reader threads, so that we can use WaitForMultipleObjects.
* sema.h, posix-sema.c, w32-sema.c: Support for Critical sections. Does currently only work for W32.

* debug.c, util.h: New. Changed all fprintfs to use this new set of debugging functions.

2001-01-23 Werner Koch <wk@gnupg.org>

* data.c (_gpgme_data_release_and_return_string): Fixed string termination.
2001-01-22 Werner Koch <wk@gnupg.org>

* delete.c: New.

* signers.c: New.
* key.c (gpgme_key_ref, gpgme_key_unref): New.
* sign.c (gpgme_op_sign_start): Allow the use of other keys.

* version.c (gpgme_get_engine_info,gpgme_check_engine): New.
* rungpg.c (_gpgme_gpg_set_simple_line_handler): New.

2001-01-05 Werner Koch <wk@gnupg.org>

* data.c (gpgme_data_rewind): Allow to rewind data_type_none.

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  Ty Coon, President of Vice

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commit 2145348ec54c6027f2ea20f695de0277e2871405
Merge: 348ba88 2036f1a
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 03:04:19 2015 +1000

  Merge pull request #4 from Hasimir/master

history

commit 2036f1a0a670a0561993e195c458059220b36114
Merge: dbabf0e 348ba88
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:57:44 2015 +1000
Merge branch 'master' of github:adversary-org/pyme3

commit dbahb0cf1f2985755c2293b619011832e34faa9c
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:52:23 2015 +1000

Added a short history

* A (very) brief summary of the project's history since 2002.
* Deals with why the commit log in the GPGME repo does not include the
  history of PyME.
* Mentions that intact git repos will be maintained, but not where they
  are (one will be on github, another will be in a user directory on
  playfair.gnupg.org).

docs/Short_History.rst | 57 ++++++++++++++++++++++++++++++++++++++++++++++++++
1 file changed, 57 insertions(+)

commit 348bfa883424778c711c04ae9b66035ccdb36eb8c
Merge: 127d0a5 7c37a27
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:21:34 2015 +1000

Merge pull request #3 from Hasimir/master

Version release preparation

commit 7c37a27a6845c58222d4d947c2efbe38e955b612
Merge: f692cef 127d0a5
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:17:14 2015 +1000

Merge branch 'master' of github:adversary-org/pyme3

commit f692cef50a89c2e61acdbd3d7dd60f5ce3cd15af
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:09:44 2015 +1000

TODO update

* Removed reference to GitHub, replaced with impending new home at gnupg.org.

docs/TODORrst | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit bd5ccf9e3bfe69fa681613757577e87b72ca08ec
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:00:44 2015 +1000
Version bump

* Bumped version number to 0.9.1 to keep it somewhat in line with the existing PyME project, even though there will be some divergence at some point (or even re-merging, depending on how many of the Python 3 modifications can be back-ported to the Python 2 version).
* Updated the author and copyright information to reflect the two current authors (Martin and I).
* Replaced Igor's contact details with mine.
* Replaced project home page with the GnuPG one.

commits:

```
pyme/version.py | 16 +++++++++++++++++
1 file changed, 9 insertions(+), 7 deletions(-)
```

commit ec167512f4ca88d8f6e89e2ae831798c8283b4df
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 01:48:01 2015 +1000

README preparation.

```
README.rst | 14 +++++++++++++++++
1 file changed, 7 insertions(+), 7 deletions(-)
```

commit 8a48515e884c36b5bdb24a13cb4d2e49f4ee6f17
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 01:43:53 2015 +1000

TODO moved to docs

```
TODO.rst | 25 +++++++++++++++++
```

commit f968c777472f01f308f6e57eac1740bf5c76c205
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 16:52:13 2015 +1000

Started another TODO file.

```
TODO.rst | 25 +++++++++++++++++
1 file changed, 25 insertions(+)
```
Minor editing.

* Fixed another URL.
* Changed Py3 version's version number to v0.9.1-beta0.

** I strongly suspect the result of this work will be concurrent projects, so preparing for that eventuality with this repo.

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 38954
Explicit over Implicit ...

... isn't just for code.

* Removed the 2to3 working directory and its contents.
* Made the README.rst file a little more clear that this branch is for Python 3 (set Python 3.2 as a fairly arbitrary requirement for the moment, but will probably raise this to 3.3).

2to3/2to3-output-remaining.log | 60 ---
2to3/2to3-output-setup.log    | 35 --
2to3/2to3-output.log          | 950 -----------------------------
README.rst                     | 10 +- 
4 files changed, 7 insertions(+), 1048 deletions(-)

commit 3edf07a4ba8a86af3a33246234d6e133074862af
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 11:19:41 2015 +1000

Added authors.

* In alphabetical order.
* Mine will need updating once Martin and I have decided what to do regarding the two main branches.

README.rst | 12 +++++++++++
1 file changed, 12 insertions(+)

commit 811eb14b53e8856312d99f46b77215f7f9bd672c
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 10:23:00 2015 +1000

Docs and other things.

* Now able to import pyme.core without error, indicates port process is successful.
* Code is *not* compatible with the Python 2 version.
* Will need to consider making this a parallel project with the master branch.
* Got rid of the .org TODO file.
* Changed the README to use the reST file extension since it's full of reST anyway.

2to3/TODO.org | 5 ----- 
README.rst     | 32 ++++++++++++++++++++++++++++++++++++ 
README.txt     | 32 -------------------------
3 files changed, 32 insertions(+), 37 deletions(-)
Fixed another implicit import by making it explicit. Hopefully this is the last one.

pyme/util.py | 2 +- 1 file changed, 1 insertion(+), 1 deletion(-)

Fixed another implicit import by making it explicit.

pyme/errors.py | 2 +- 1 file changed, 1 insertion(+), 1 deletion(-)

Bytes vs. Unicode

* Trying PyBytes instead of PyUnicode.

gpgme.i | 14 +++++++++-------
helpers.c |  8 ++++----- 2 files changed, 11 insertions(+), 11 deletions(-)

String to Unicode

* Replaced all instances of PyString with PyUnicode (and hoping there's no byte data in there).

gpgme.i | 14 +++++++++-------
helpers.c |  8 ++++----- 2 files changed, 11 insertions(+), 11 deletions(-)

PyInt_AsLong
* Replaced all instances of PyInt with PyLong, as per C API docs.

    gpgme.i | 4 ++--
    helpers.c | 8 ++++----
2 files changed, 6 insertions(+), 6 deletions(-)

commit 3c91e2ccf8ca788b51e3308e292c6b64888fdb15
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 05:59:36 2015 +1000

Import correction

* Once pygpgme.py is generated and moved, it will be in the right
directory for the explicit "from . import pygpgme" to be correct.

    pyme/core.py | 2 +-  
    1 file changed, 1 insertion(+), 1 deletion(-)

commit 23a49e7070812ff1ce138d8d4cc46d0b80328897
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 05:38:29 2015 +1000

    The -py3 flag.

    Makefile | 2 +-  
    1 file changed, 1 insertion(+), 1 deletion(-)

commit b1549587d6db5e33081b9c20f75d1348a1d25938
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 05:01:42 2015 +1000

    Fixed indentation - 4.

    pyme/core.py | 2 +-  
    1 file changed, 1 insertion(+), 1 deletion(-)

commit a685142ce46761ee6f5176e90717176e38e0d24f
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 05:00:16 2015 +1000

    Fixed indentation - 3.

    pyme/core.py | 5 +++--
    1 file changed, 2 insertions(+), 3 deletions(-)

commit 488a70b490cc64eb1c47d2483cb2f4079c6767f7
Author: Ben McGinnes <ben@adversary.org>
Pet Peeve

def pet_peeve(self):
    peeve = print("people who don't press return after a colon!")

FFS!

pyme/core.py | 5 +++--
1 file changed, 3 insertions(+), 2 deletions(-)

commit a5d38eb47d64bb17bb609fe594dae2aca480bac9
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:47:54 2015 +1000

    Fixed indentation - 2.

pyme/core.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 476a207f732b8559abb1eaa3c23147c0e34804730
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:46:01 2015 +1000

    Fixed indentation.

pyme/core.py | 4 +++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit 0572900eb9b9cd9b0283c7d8e022c8972f06f9f8
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:43:49 2015 +1000

    Replaced all tabs with 4 spaces.

pyme/core.py | 18 +++++++++---------
1 file changed, 9 insertions(+), 9 deletions(-)

commit 78c0b7677e94c11b8cd833a9064527187330
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:39:07 2015 +1000

    SWIG flags in the wrong place.

Makefile | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)
commit dfa7f2589963494a8f892777560d8c1116604a3c8
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:35:09 2015 +1000

    Fixed subprocess call for swig (again).

setup.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 249bfd8c714dceda53127b99b6cc8a6c7c4a99f20
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:32:40 2015 +1000

    Fixed subprocess call for swig.

setup.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6fd7e719cf4c975f466ceb39835db7007df36fb2
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 03:51:48 2015 +1000

    Linking swig to py3

        * Changed the swig invocations to run with the -python -py3 flags explicitly.

Makefile | 4 ++--
setup.py | 2 +-
2 files changed, 3 insertions(+), 3 deletions(-)

commit 7a6b584f50ed6ddc8617a642185eea1f24ff791a
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 11:12:00 2015 +1000

    String fun

        * streamlined confdata details, including decoding strom binary to string.

setup.py | 4 +----
1 file changed, 1 insertion(+), 3 deletions(-)

commit f7fd3f270592021a95a8f779bfe85ac18f4e390b
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 10:46:59 2015 +1000

    Open File

        * Removed deprecated file() and replaced with open().
print() fix

* Makefile includes a python print, changed from statement to function.

Updated Makefile

* set make to use python3 instead.
* This will mean a successful port may need to be maintained separately from the original python2 code instead of merged, but ought to be able to share most things. So maybe merge with separated make files or a pre-make script to set python2 or python3 prior to building ... decide later, after it works.

Env and a little license issue

* Updated all the /usr/bin/env paths to point to python3.
* Also fixed the hard coded /usr/bin/python paths.
* Updated part of setup.py which gave the impression this package was only licensed under the GPL (it's actually licensed under the LGPL as well, essentially the same dual licensing as the GPGME library).
examples/exportimport.py  | 2 +-
examples/genkey.py       | 2 +- 
examples/inter-edit.py   | 2 +- 
examples/pygpa.py        | 2 +- 
examples/sign.py         | 2 +- 
examples/signverify.py    | 2 +- 
examples/simple.py        | 2 +- 
examples/t-edit.py        | 2 +- 
examples/testCMSgetkey.py | 2 +- 
examples/verifydetails.py | 2 +- 
gpgme-h-clean.py         | 2 +- 
setup.py                  | 4 +--- 
15 files changed, 16 insertions(+), 16 deletions(-)

commit 1a4b55dbccd2774344352e579130bf494bc5fa4b
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 08:50:54 2015 +1000

    Removed extraneous files.

    * The two .bak files.

pyme/errors.py.bak | 46 ---------------------
setup.py.bak       | 116 -----------------------------------------------------
2 files changed, 162 deletions(-)

commit 208879d4f2a6d0514c3f8ee2fc0da8bba42350de
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 08:19:37 2015 +1000

    Added TODO.org

    * TODO list in Emacs org-mode.
    * Will eventually be removed along with this entire directory when the
      porting process is complete.

2to3/TODO.org | 5 +++++
1 file changed, 5 insertions(+)

commit 1548bf201059638675c5387c6f124d4b703363a9
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 07:58:40 2015 +1000

2to3 conversion of remaining files

    * Ran the extended version against all the unmodified python files.
    * Only pyme/errors.py required additional work.
2to3/2to3-output-remaining.log | 60 ++++++++++++++++++++++++++++++++++++++++++++++
pyme/errors.py | 2 +-
pyme/errors.py.bak | 46 ++++++++++++++++++++++++++++++++++++++++++++++
3 files changed, 107 insertions(+), 1 deletion(-)

commit 1230650bc6bbe4c14d1284f78777aa932f5e86eb4
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 07:50:39 2015 +1000

2to3 conversion of setup.py

* Ran extended 2to3 command to produce python 3 code for setup.py.
* Effectively testing for what to run against the other originally
  unmodified py2 files.

2to3/2to3-output-setup.log | 35 ++++++++++++++
setup.py | 7 ++-
setup.py.bak | 116 ++++++++++++++++++++++++++++++++++++++++++++++
3 files changed, 154 insertions(+), 4 deletions(-)

commit edad4495f59aa879e95a369591717fb19ee6b7
Author: Ben McGinnes <ben@adversary.org>
Date:   Fri May 1 21:50:07 2015 +1000

Removing 2to3 generated .bak files.

* Not really needed with a real VCS, but couldn't hurt to have them for
  a couple of revisions. ;)

examples/PyGtkGpgKeys.py.bak | 663 -------------
examples/encrypt-to-all.py.bak | 65 --
examples/exportimport.py.bak | 75 --
examples/genkey.py.bak | 45 -
examples/inter-edit.py.bak | 57 --
examples/pygpa.py.bak | 1457 -------------------
examples/sign.py.bak | 31 -
examples/signverify.py.bak | 78 --
examples/simple.py.bak | 52 --
examples/t-edit.py.bak | 59 --
examples/testCMSgetkey.py.bak | 45 -
examples/verifydetails.py.bak | 100 ---
gpgme-h-clean.py.bak | 42 -
pyme/callbacks.py.bak | 47 --
pyme/constants/data/__init__.py.bak | 4 -
pyme/constants/keylist/__init__.py.bak | 4 -
pyme/constants/sig/__init__.py.bak | 4 -
pyme/core.py.bak | 463 -------------
pyme/util.py.bak | 72 --
2to3 conversion log

* The output of the command to convert the code from Python 2 to 3.
* Note: this contains the list of files which were not modified and
  which will or may need to be modified.

2to3/2to3-output.log | 950 +++++++++++++++++++++++++++++++++++++++++++++++++++
1 file changed, 950 insertions(+)

commit 078f6e8f878a62d12704fab424198a613a24cc8c
Author: Ben McGinnes <ben@adversary.org>
Date: Fri May 1 21:36:58 2015 +1000

2to3 conversion of pyme master

* Branch from commit 459f3ec6a659b4949e394c4a032d9ce2053e6c721
* Ran this: or x in `find . | egrep .py$` ; do 2to3 -w $x; done ;
* Multiple files not modified, will record elsewhere (see next commit).
commit 459f3eca659b4949e394c4a0332d9ce2053e6c721
Merge: c5966ab dae7f14
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Wed Jul 9 10:48:33 2014 +0100

Merged in jerrykan/pyme/fix_setup_26 (pull request #1)

Provide support for using setup.py with Python v2.6

commit dae7f14a54e6c2bde0ad4da3708cc7fc0d0c469
Author: John Kristensen <john.kristensen@dpipwe.tas.gov.au>
Date:   Wed Jul 9 15:54:39 2014 +1000

Provide support for using setup.py with Python v2.6

The setup.py script uses subprocess.check_output() which was introduced in Python v2.7. The equivalent functionality can be achieved without adding much extra code and provide support for Python v2.6.

setup.py | 4 ++++
1 file changed, 3 insertions(+), 1 deletion(-)

commit c5966abec9d772b3922d32650da288fd50a217be
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Thu May 15 19:43:00 2014 +0100

README.txt in ReST, including headlines
README.txt | 8 +++++++
1 file changed, 6 insertions(+), 2 deletions(-)

commit 43ee8c6f34fa9b6d3975aa6e6a60b3d4a741fa721
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Thu May 15 19:37:15 2014 +0100

README.txt in ReST

README.txt | 25 +++++++++++++++++++++++++++++++++
1 file changed, 13 insertions(+), 12 deletions(-)

commit f71a369484c8801df23ccc584235fa496c0df
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Thu May 15 19:28:12 2014 +0100

    added MANIFEST.in and README.txt (instead of .md)

MANIFEST.in | 6 ++++++
README.md | 27 ------------------------
README.txt | 27 ++++++++++++++++++++++++++------
3 files changed, 33 insertions(+), 27 deletions(-)

commit d0d6755229f920b0bed043e9c2731de2d57c096c
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Tue May 13 09:52:44 2014 +0100

    added mailing list to README

README.md | 19 +++++++++++++++++++++++++++++++++---
1 file changed, 16 insertions(+), 3 deletions(-)

commit 30ca60ddf92684de261cb24c83c68089be0adc
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sun May 11 13:34:28 2014 +0100

    we don't need a separate out of date ChangeLog file

ChangeLog | 802 --------------------------------------------------------------
1 file changed, 802 deletions(-)

commit 8263f1a6d38fdb7f5f3dd5c7e28f83ca7528a08
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sun May 11 13:32:31 2014 +0100

    adding README.md

README.md | 14 +++++++++++
1 file changed, 14 insertions(+)

commit 3fc71b47e9e14b0b984801c28d722723baa4b406
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:43:06 2014 +0100

ValueError -> RuntimeError

setup.py | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit eec432abea56296b9fa36a90d10926a2335b739
Merge: eea6537 d2738bb3
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:41:02 2014 +0100

Merge branch 'master' of bitbucket.org:malb/pyme

Conflicts:
setup.py

commit eea6537921061b4d4cfc54e00a99d3fa110c71433
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:39:51 2014 +0100

check for swig

setup.py | 8 ++++++++ 1 file changed, 8 insertions(+)

commit 53867bf9715ce1b4d4cfc54e00a99d3fa110c71433
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:35:04 2014 +0100

more friendly error message if gpgme is missing

setup.py | 8 ++++++++ 1 file changed, 7 insertions(+), 1 deletion(-)

commit d27383b35d63b1492d69641c546610368f2d3a30
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:35:04 2014 +0100

more friendly error message if gpgme is missing

setup.py | 8 ++++++++ 1 file changed, 7 insertions(+), 1 deletion(-)
commit c0b01240beef8b6ef1d4c1f64b2cb4c056f5163
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:  Fri May 9 15:20:24 2014 +0100

   version number should have three digits

pyme/version.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6672bb60b9bec60d38e854016c48658b57774578
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:  Wed May 7 15:11:08 2014 +0100

   bump version number for upcoming release

pyme/version.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 7bd6de700f33ca5d1f27bc16ebbd401f21d2e788
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:  Sat May 3 19:36:25 2014 +0100

   bump version number to indicate changes

pyme/version.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 4fb6bd9b3f47c1a343242ac83b326cacad12a136e
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:  Sat May 3 19:34:07 2014 +0100

   pyme instead of pygpgme

setup.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 9548973138d78241a45cbb82333b25f2c136ce7d
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:  Sat May 3 19:31:10 2014 +0100

   dirty hack to make 'python setup.py install' work

setup.py | 7 +++++++-
1 file changed, 4 insertions(+), 3 deletions(-)

commit a961d7eb9db478b7e603324bc5d243bd3c84bad
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:  Sat May 3 19:05:44 2014 +0100
moved everything down to the toplevel directory

<table>
<thead>
<tr>
<th>File</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPYING</td>
<td>340 ++</td>
</tr>
<tr>
<td>COPYING.LESSER</td>
<td>510 +++</td>
</tr>
<tr>
<td>ChangeLog</td>
<td>802 +++++</td>
</tr>
<tr>
<td>INSTALL</td>
<td>15 +</td>
</tr>
<tr>
<td>Makefile</td>
<td>104 +</td>
</tr>
<tr>
<td>debian/README.Debian</td>
<td>6 +</td>
</tr>
<tr>
<td>debian/changelog</td>
<td>93 +</td>
</tr>
<tr>
<td>debian/control</td>
<td>34 +</td>
</tr>
<tr>
<td>debian/copyright</td>
<td>25 +</td>
</tr>
<tr>
<td>debian/docs</td>
<td>2 +</td>
</tr>
<tr>
<td>debian/examples</td>
<td>2 +</td>
</tr>
<tr>
<td>debian/rules</td>
<td>99 +</td>
</tr>
<tr>
<td>examples/PyGtkGpgKeys.glade</td>
<td>1394 +++++</td>
</tr>
<tr>
<td>examples/PyGtkGpgKeys.gladep</td>
<td>8 +</td>
</tr>
<tr>
<td>examples/PyGtkGpgKeys.py</td>
<td>663 ++++</td>
</tr>
<tr>
<td>examples/delkey.py</td>
<td>34 +</td>
</tr>
<tr>
<td>examples/encrypt-to-all.py</td>
<td>65 +</td>
</tr>
<tr>
<td>examples/exportimport.py</td>
<td>75 +</td>
</tr>
<tr>
<td>examples/genkey.py</td>
<td>45 +</td>
</tr>
<tr>
<td>examples/inter-edit.py</td>
<td>57 +</td>
</tr>
<tr>
<td>examples/pygpa.glade</td>
<td>5546 ++++++</td>
</tr>
<tr>
<td>examples/pygpa.py</td>
<td>1457 +++++</td>
</tr>
<tr>
<td>examples/sign.py</td>
<td>31 +</td>
</tr>
<tr>
<td>examples/signverify.py</td>
<td>78 +</td>
</tr>
<tr>
<td>examples/simple.py</td>
<td>52 +</td>
</tr>
<tr>
<td>examples/t-edit.py</td>
<td>59 +</td>
</tr>
<tr>
<td>examples/testCMSgetkey.py</td>
<td>45 +</td>
</tr>
<tr>
<td>examples/verifydetails.py</td>
<td>100 +</td>
</tr>
<tr>
<td>gpgme-h-clean.py</td>
<td>42 +</td>
</tr>
<tr>
<td>gpgme.i</td>
<td>267 ++</td>
</tr>
<tr>
<td>helpers.c</td>
<td>154 +</td>
</tr>
<tr>
<td>helpers.h</td>
<td>36 +</td>
</tr>
<tr>
<td>pyme/COPYING</td>
<td>340 --</td>
</tr>
<tr>
<td>pyme/COPYING.LESSER</td>
<td>510 ---</td>
</tr>
<tr>
<td>pyme/ChangeLog</td>
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<td>pyme/INSTALL</td>
<td>15 -</td>
</tr>
<tr>
<td>pyme/Makefile</td>
<td>104 -</td>
</tr>
<tr>
<td>pyme/<strong>init</strong>.py</td>
<td>137 +</td>
</tr>
<tr>
<td>pyme/callbacks.py</td>
<td>47 +</td>
</tr>
<tr>
<td>pyme/constants/<strong>init</strong>.py</td>
<td>7 +</td>
</tr>
<tr>
<td>pyme/constants/data/<strong>init</strong>.py</td>
<td>4 +</td>
</tr>
<tr>
<td>pyme/constants/data/encoding.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/event.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/import.py</td>
<td>20 +</td>
</tr>
<tr>
<td>pyme/constants/keylist/<strong>init</strong>.py</td>
<td>4 +</td>
</tr>
</tbody>
</table>
fixing op_export_keys()

the conversion of gpgme_key_t [] was restricted to gpgme_key_t [] with the
name recv, i.e. only the use-cases of encryption were covered.


pyme/gpgme.i | 6 +++---
1 file changed, 3 insertions(+), 3 deletions(-)

commit 658d23b95110d21eeb50abf4e74701a667521a88
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Mon Jan 6 17:41:33 2014 +0100

deleting CVSROOT

CVSROOT/checkoutlist | 13 ------------
CVSROOT/commitinfo | 15 ------------
CVSROOT/config | 21 ------------
CVSROOT/cvswrappers | 19 ------------
CVSROOT/editinfo | 21 ------------
CVSROOT/logininfo | 26 ------------
CVSROOT/modules | 26 ------------
CVSROOT/loginfo | 26 ------------
CVSROOT/tags | 20 ------------
CVSROOT/verifymsg | 21 ------------
11 files changed, 207 deletions(-)

commit 576b555499c094c4786d42de9e59aa9826009b89
Author: convert-repo <devnull@localhost>
Date: Mon Jan 6 15:22:44 2014 +0000

update tags

commit 2dcf0c5b702eb5a18c66ff1e42a72eaa7427af1d
Author: belyi <devnull@localhost>
Date: Wed Nov 26 02:38:33 2008 +0000

Move Windows specific fix from helpers.c to helpers.h so that it works
for edit callback as well as for the passphrase one.

pyme/helpers.c | 5 ----- 
pyme/helpers.h | 5 +++++
2 files changed, 5 insertions(+), 5 deletions(-)

commit 42a035f2ef62470f6a7a78ee33a1297fa90a603
Author: belyi <devnull@localhost>
Date: Mon Nov 24 21:44:30 2008 +0000
Update the way build directives are constructed on MinGW to have a bit more robust. Update PyMe build version to 0.8.1 in version.py

```
pyme/pyme/version.py | 2 +-  
pyme/setup.py       | 10 ++++++++--
2 files changed, 9 insertions(+), 3 deletions(-)
```

commit 3aaa20fbcb17066e9fffd580f5209946022793a2  
Author: belyi <devnull@localhost>  
Date: Mon Nov 24 06:57:11 2008 +0000

Update changelog

```
pyme/debian/changelog | 5 ++++-
1 file changed, 4 insertions(+), 1 deletion(-)
```

commit 689ff46b2550547c3883f809a6dc40c22c3e137e  
Author: belyi <devnull@localhost>  
Date: Mon Nov 24 06:50:41 2008 +0000

Fix hang problem on Windows when password is written to a filehandle.  
Fix the way path is constructed on MinGW platform.

```
pyme/helpers.c   | 5 +++++
pyme/setup.py   | 4 ++--
2 files changed, 7 insertions(+), 2 deletions(-)
```

commit 852a60d541d66cb56f40378182b976fd87a02c46  
Author: belyi <devnull@localhost>  
Date: Sun Nov 23 04:31:31 2008 +0000

Add Bernard's example testCMSgetkey.py and his updates for verifydetails.py

```
pyme/examples/testCMSgetkey.py | 45 ++++++++++++++++++++++++++++++++++++++
pyme/examples/verifydetails.py | 43 +++++++++++++++++++++++++++++++++++++--
2 files changed, 77 insertions(+), 11 deletions(-)
```

commit f080527d9184f3360f0a8ef6136b9a188d8e7d2a  
Author: belyi <devnull@localhost>  
Date: Thu May 29 18:29:37 2008 +0000

Remove debian packaging for python2.3 since it is removed from both testing and unstable dists.  
Update docs build target to have correct PYTHONPATH set.

```
pyme/Makefile   | 2 +-  
pyme/debian/changelog | 4 +++-
```
Forgot to adjust mainText margin. Doing it now.

Fix an error in default.css and make index.html "Standards Compliant".

Adjust spacing between links.

Make style a big more IE friendly.

Make GPGME documentation a bit more web friendly on the index.html page.
Add missing core.set_locale() to set default locale for contexts.

Avoid leaks caused by keys.
Add set/get methods for engine info.

Update index.html to reflect new versions on the web.
Update PyMe documentation to match 0.8.0 version of the package.

pyme-web/doc/pyme/index.html | 14 +++++---
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 1 +
pyme-web/doc/pyme/pyme.constants.protocol.html | 4 ++
pyme-web/doc/pyme/pyme.constants.status.html | 9 ++++++
pyme-web/doc/pyme/pyme.core.html | 36 ++++++++++++++++++-
pyme-web/doc/pyme/pyme.errors.html | 8 +--
pyme-web/doc/pyme/pyme.html | 14 +--------
pyme-web/doc/pyme/pyme.util.html | 17 +--------
pyme-web/doc/pyme/pyme.version.html | 14 +-------
9 files changed, 82 insertions(+), 35 deletions(-)

commit 6973a69a317608a0d0661590d701f4e3f3a21b32
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 02:35:24 2008 +0000

Have a fix for Contents being put onto 'Function and Data Index' page.

pyme-web/doc/gpgme/Concept-Index.html | 2 +-
pyme-web/doc/gpgme/Function-and-Data-Index.html | 153 +----------------------
pyme-web/doc/gpgme/index.html | 154 +++++++++++++++++++++--
3 files changed, 155 insertions(+), 154 deletions(-)

commit 086315964cbc2abad1187f306dcb9c72ac3257f3
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 01:00:29 2008 +0000

Update GPGME documentation. It's for v1.1.6 now.

pyme-web/doc/gpgme/ASCII-Armor.html | 57 ++
pyme-web/doc/gpgme/Advanced-Key-Editing.html | 98 +++
pyme-web/doc/gpgme/Algorithms.html | 47 ++
pyme-web/doc/gpgme/Building-the-Source.html | 82 +++
.../doc/gpgme/Callback-Based-Data-Buffers.html | 148 +++++
pyme-web/doc/gpgme/Cancellation.html | 67 ++
pyme-web/doc/gpgme/Concept-Index.html | 186 ++++++
pyme-web/doc/gpgme/Context-Attributes.html | 52 ++
pyme-web/doc/gpgme/Contexts.html | 61 ++
pyme-web/doc/gpgme/Creating-Contexts.html | 49 ++
pyme-web/doc/gpgme/Creating-Data-Buffers.html | 47 ++
pyme-web/doc/gpgme/Creating-a-Signature.html | 143 +++++
pyme-web/doc/gpgme/Crypto-Engine.html | 79 +++
pyme-web/doc/gpgme/Crypto-Operations.html | 67 ++
.../doc/gpgme/Cryptographic-Message-Syntax.html | 42 ++
.../doc/gpgme/Data-Buffer-I_002fO-Operations.html | 104 +++++
pyme-web/doc/gpgme/Data-Buffer-Meta_002dData.html | 100 +++
pyme-web/doc/gpgme/Decrypt-and-Verify.html | 79 +++
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<thead>
<tr>
<th>Directory Path</th>
<th>Number of Files</th>
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<tbody>
<tr>
<td>pyme-web/doc/gpgme/gpgme_34.html</td>
<td>83 ---</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/gpgme_35.html</td>
<td>70 ---</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/gpgme_36.html</td>
<td>63 --</td>
</tr>
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<td>pyme-web/doc/gpgme/gpgme_37.html</td>
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<td>459 ----------------</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/gpgme_47.html</td>
<td>292 -------</td>
</tr>
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<td>363 ---------</td>
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</tr>
<tr>
<td>pyme-web/doc/gpgme/gpgme_51.html</td>
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</tr>
<tr>
<td>pyme-web/doc/gpgme/gpgme_71.html</td>
<td>218 -------</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/gpgme_72.html</td>
<td>134 ----</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/gpgme_73.html</td>
<td>299 -------</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/gpgme_74.html</td>
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<tr>
<td>pyme-web/doc/gpgme/gpgme_76.html</td>
<td>118 ----</td>
</tr>
<tr>
<td>pyme-web/doc/gpgme/gpgme_77.html</td>
<td>95 ---</td>
</tr>
</tbody>
</table>
commit 163c1053dc761682f5a4231da163b0ff7162d7
Author: belyi <devnull@localhost>
Date:   Tue Apr 1 21:14:29 2008 +0000

Update Home page to be a bit more visitor friendly.

pyme-web/Makefile    |  2 +-
pyme-web/default.css |  27 +++++++++++++++++++++++
pyme-web/index.html  | 70 +++++++++++++++++++++++++++++++++++-----------------

3 files changed, 75 insertions(+), 24 deletions(-)

commit 05db2d17d8fda0ab8c948bbdc0643dfc1466830d
Author: belyi <devnull@localhost>
Date:   Sun Mar 30 21:27:38 2008 +0000

Add a rule to build binary distribution for Windows.

pyme/Makefile | 16 ++++++++++++++++++
1 file changed, 14 insertions(+), 2 deletions(-)

commit 57acb1089f5f8ce24323ee62fc0a7f492a496b9c0
Author: belyi <devnull@localhost>
Date:   Sat Mar 29 22:50:11 2008 +0000

Switch to using central location for python files (pycentral)
Update docs rule to fix location of the python source files.

pyme/Makefile     |  5 +++-
pyme/debian/changelog |  4 ++-
pyme/debian/control | 74 ++++++++++++++++++++
pyme/debian/dirs    |  2 --
pyme/debian/docs    |  1 +
Turn SWIG's autodoc feature on. Ignore 'next' in the types which are lists now.
Use new style for class declarations. Specify None as a default value for
core.check_version() method. Update version.py for 0.8.0 version.

Update API to use list when types containing 'next' field are return.
Update examples accordingly
Add verifydetails.py example
Start adding bullets for 0.8.0 version.
pyme/examples/PyGtkGpgKeys.py | 53 ++++++++++++++++++++++++--
pyme/examples/delkey.py    |  7 +++--
pyme/examples/encrypt-to-all.py |  7 +++--
pyme/examples/exportimport.py    |  7 +++--
pyme/examples/pygpa.py        | 70 ++++++++++++++++++++++++--
pyme/examples/signverify.py   | 11 +++--
pyme/examples/verifydetails.py | 79 +++++++++++++++++++++++++++++++++++++++
pyme/gpgme.i                 | 19 ++++++++++
10 files changed, 180 insertions(+), 89 deletions(-)

commit 342d85b07475e7360bcd62804b5facda039494f
Author: belyi <devnull@localhost>
Date:   Mon Mar 10 01:14:16 2008 +0000

Change references to source files so that they point to the WebCVS browse location.


commit 4139dd1d066c1a6c892d84fe45dc3e6c4aa1b803
Author: belyi <devnull@localhost>
Date:   Sat Mar 8 18:21:08 2008 +0000

Add core.check_version(None) to all examples since this function is used by Gpgme to do internal initialization. Update debian/rules to use dh_pysupport instead of deprecated dh_python.
pyme/debian/rules               | 8 +++-----
pyme/examples/PyGtkGpgKeys.py   | 7 +++++--
pyme/examples/delkey.py         | 2 ++
pyme/examples/encrypt-to-all.py | 3 +++
pyme/examples/exportimport.py   | 2 ++
pyme/examples/genkey.py         | 1 +
pyme/examples/inter-edit.py     | 3 +++
pyme/examples/pygpgme.py        | 5 +++++
pyme/examples/sign.py           | 2 ++
pyme/examples/signverify.py     | 2 ++
pyme/examples/simple.py         | 2 ++
pyme/examples/t-edit.py         | 3 +++]
12 files changed, 34 insertions(+), 6 deletions(-)

commit ae76c6176457dd38e0634cbbc17d794294a3a81d2
Author: belyi <devnull@localhost>
Date:   Wed Apr 12 22:20:38 2006 +0000

Change name of internal package name from 'gpgme' to 'pygpgme' to avoid conflict with gpgme.dll on Windows.
Fix build with SWIG 1.3.28.
Change version to 0.7.1 in a preparation for new release.

pyme/Makefile                   | 3 +-
pyme/debian/changelog          | 12 ++++
pyme/gpgme.i                   | 19 +++++
pyme/.callbacks.py             | 1 -
pyme/pyme/core.py              | 153 +++++++++++++++++++++++++++++++++++++++
pyme/pyme/errors.py            | 12 +++
pyme/pyme/util.py              | 10 ++--
pyme/pyme/version.py           | 2 +-
pyme/setup.py                  | 4 +-
9 files changed, 116 insertions(+), 100 deletions(-)

commit d644383a76e9f83bc2d426628319e3c4a989dc2d
Author: belyi <devnull@localhost>
Date:   Sat Dec 17 01:34:53 2005 +0000

Put all constants into pyme.constants package to avoid stepping on python reserved words.
Add build rules for Mingw32 and Cygwin on Windows. Rules for Mingw under Debian are still to come.
Fixed a small bug in pygpa.py example.

pyme/Makefile                   | 11 ++++++++---
pyme/examples/pygpa.py         | 3 +
pyme/pyme/__init__.py          | 2 +
Imported changes provided by Joost van Baal:
Use dh_python in debian/rules and change the Section pyme belongs to from 'libs' to 'python'.

Added 'callbacks' into the list of visible pyme modules (__all__ var.)

Slightly updated INSTALL file.

Update pyme documentation to remove dead links to pyme.gpgme.html and pyme._gpgme.html
Added reference to the installed GPGME and PyMe documentation to the head web page.
Updated Makefile to install all *.html files and to clean *~ files in all subdirectories
commit 6aa34c4e4a0099e50b4936dfeec59778157b8ca8
Author: belyi <devnull@localhost>
Date:   Wed Jun 8 15:18:20 2005 +0000

Added pyme and gpgme documentation.
commit 2d6fe545479f042644f7b0f3d2fe35877d2056144
Author: belyi <devnull@localhost>
Date:   Thu May 19 02:06:09 2005 +0000

  Added INSTALL file.

pyme/INSTALL | 10 ++++++++++
1 file changed, 10 insertions(+)

commit d6892fff0c3cedf41dba4c25ab8608e7f2bcf039c
Author: belyi <devnull@localhost>
Date:   Tue May 17 16:49:28 2005 +0000

  Update copyright note on simple.py

pyme/examples/simple.py | 4 +++--
1 file changed, 2 insertions(+), 2 deletions(-)
Update simple.py to catch errors.

pyme/examples/simple.py | 17 +++++++++++------
1 file changed, 11 insertions(+), 6 deletions(-)

commit eaedae7c6a0ea993caab067efe781a59b6769c44
Author: belyi <devnull@localhost>
Date:   Tue May 17 01:18:23 2005 +0000

Added 'PYTHON = python' into Makefile for bug #1199122

pyme/Makefile | 1 +
pyme/examples/signverify.py | 1 +
2 files changed, 2 insertions(+)

commit 56fd244bb2636a4d58629899ea3cde1d96428198
Author: belyi <devnull@localhost>
Date:   Wed Apr 27 21:37:06 2005 +0000

Added pygpa example.

pyme/debian/changelog | 3 +-
pyme/examples/pygpa.glade | 5546 ++++++++++++++++++++++++++++++++++++++++++++++
pyme/examples/pygpa.py | 1459 +++++++++++++
3 files changed, 7007 insertions(+), 1 deletion(-)

commit 2d9a2a91a59ac3fee5410c953b7e0859e9e7cd35
Author: belyi <devnull@localhost>
Date:   Thu Apr 21 15:17:51 2005 +0000

Change version to 0.7.0 due to the change in license.

pyme/debian/changelog | 2 +-pyme/pyme/version.py | 2 +-2 files changed, 2 insertions(+), 2 deletions(-)

commit 94e34e38d742f145385bd235825b6ba1e30d8339
Author: belyi <devnull@localhost>
Date:   Thu Apr 21 03:53:12 2005 +0000

Changed license on PyMe from GPL to LGPL.
PyMe examples keep GPL license.
commit 0d8aa0f6335cb1506a37085095ed45173b099a02
Author: belyi <devnull@localhost>
Date:   Tue Apr 19 01:46:06 2005 +0000

Added __hash__ and __eq__ methods to GpgmeWrapper to allow both Context()
and Data() to be used as a dictionary key.

Changed core.wait() function to always return a tuple. On timeout now it
returns (0, None) instead of just None. Plus, return context is now a
Context() object instead of a wrapper return by underlying gpgme.

commit 63ff6d10637be1dcbcd78c939ac1ef1ac30b1024
Author: belyi <devnull@localhost>
Date:   Wed Apr 6 04:58:40 2005 +0000

Made hook parameter optional in passphrase_cb and progress_cb.
Allowed None for callbacks to unset ones set previously.
Removed cleanup of exception in callbacks - now just retrieve the error code.
Added prev_bad parameter in passphrase_cb since it can be used in
change password protocols.
Updated examples to follow new sets of arguments in callbacks
Updated op_edit to check if passed key is None (otherwise gpgme dumps core)
God rid of annoying warning "function declaration isn't a prototype" in
helpers.c and helpers.h by changing from () to (void) list of arguments.

commit 8f0ab8138c7aa190936376ccbbf33bb09c64d6f1
Author: belyi <devnull@localhost>
Date:   Thu Mar 31 23:50:59 2005 +0000

    Added exception handling in passphrase_cb and edit_cb. If GPGMEError
    exception is thrown in those callbacks it will be converted into its
    core representation and return as an error code to the caller.
    On all other exceptions error code will be GPG_ERR_GENERAL.

commit 9903d1fb11231e7e3d920e58d1ecb674c5988b07
Author: belyi <devnull@localhost>
Date:   Thu Mar 31 05:12:15 2005 +0000

    Remove workaround from Context.wait() method since the bug report and
    patch fixing gpgme_wait's behavior is sent to GPMGE developers already.
    Added errorcheck into op_edit() so that it can report an error.

commit 45e8a5f4e13d3ca797ec3b0037242874a6be5562
Updated version number to 0.6.2 in version.py
Added examples/*.glade files into documentation package.

pyme/debian/examples | 1 +
pyme/pyme/version.py | 2 +-2 files changed, 2 insertions(+), 1 deletion(-)

commit 270b87bb40e180cb6e8f1de9a0e8161525ffa4ab
Author: belyi <devnull@localhost>
Date: Sat Mar 26 19:31:14 2005 +0000

Updated debian/changelog regarding PyGtkGpgKeys example and a fix in errors.

pyme/debian/changelog | 5 ++++-
1 file changed, 4 insertions(+), 1 deletion(-)

commit ea4682009a506db91e5174ffd038fe7e4406b591
Author: belyi <devnull@localhost>
Date: Sat Mar 26 19:25:36 2005 +0000

Added handling of right mouse button click.
Changed reporting a string instead of a number on key generation failure.

pyme/examples/PyGtkGpgKeys.glade | 2 ++
pyme/examples/PyGtkGpgKeys.py | 30 +++++++++++++++++++++++++++---
2 files changed, 29 insertions(+), 3 deletions(-)

commit f65ad1a703d0098a3204b8527a54d253e5847e7
Author: belyi <devnull@localhost>
Date: Sat Mar 26 18:11:11 2005 +0000

Added another column indicating if a key has a secret part.
Automated generation of the View menu from the view field of the KeyColumn class.

pyme/examples/PyGtkGpgKeys.glade | 93 +-------------------------------
pyme/examples/PyGtkGpgKeys.py | 74 +-------------------------------
2 files changed, 44 insertions(+), 123 deletions(-)

commit b54e83a7a7a5785502f3c7e8b95f15e23b40e65a
Author: belyi <devnull@localhost>
Date: Sat Mar 26 16:45:13 2005 +0000

Small change to the way gtk.TreeModel object is used.
Use more comprehensible error reporting since gpgme_strerror_r returns None all the time.

Improved PyGtkGpgKeys example to manage owner_trust on keys. Added another example inter-edit.py which is just a helper to write scripts for Context.op_edit() command.

Updated PyGtkGpgKeys example to include import, export and reload functionality. Also added ability to remove number of keys simultaneously. Rearranged how KeyColumn is used to avoid unnecessary sorts and duplication of information in different parts of the code.

Added example of PyGTK+ and PyMe integration. For now it does only simple things - listing, deleting, and generating keys.
Added wait method Context class which handles asynchronous calls a little
bit better than the one generated by SWIG.

Added correct handling of Context.op_edit() method.
Added example/t-edit.py showing usage for this method.
Output of this example should match output of the tests/gpg/t-edit
from the GPGME test suite.
Remove unused static function from helpers.c

Update changelog to include note about deprecated function in 0.6.1 release

Remove deprecated functions from helpers.[ch]
Use gpgme-h-clean.py to remove deprecated functions and typedefs from
the GPGME header file. This will reduce the number of unused methods.

pyme/Makefile    |  4 ++--
pyme/gpgme-h-clean.py | 26 ++++++++++++++++++++++++++++++++++
pyme/helpers.c    |  8 --------
pyme/helpers.h    |  2 --
4 files changed, 28 insertions(+), 12 deletions(-)

commit 2483efcb0d73c628c4d7717928a766c3b58f0aa
Author: belyi <devnull@localhost>
Date:   Fri Mar 18 22:15:52 2005 +0000

Update copyright and author values in pyme/version.py
Create rules to build distribution files - one full and one without
debian bits.

pyme/Makefile    | 28 +++++++++++++++++++++++++++++++++------
pyme/pyme/version.py | 12 +++++------
2 files changed, 28 insertions(+), 12 deletions(-)

commit 168593285380f5a7805f3dd08657d429a72d3621
Author: belyi <devnull@localhost>
Date:   Fri Mar 18 19:09:33 2005 +0000

Added package building for python2.4

Updated copyright notes to include myself and avoid confusion who's the
maintainer. In John's own words: "I'd prefer to just step out of the picture".
John's copyright notice left intact.

pyme/Makefile    |  6 +++---
pyme/debian/changelog |  7 +++++++++
pyme/debian/control | 30 ++++++++++++++++++++++++++++++++++++---
pyme/debian/copyright | 10 +++++---
pyme/debian/rules    |  4 ++++
pyme/debian/setup.cfg-2.4 |  8 ++++++
pyme/examples/genkey.py |  4 +++--
pyme/gpgme.i         |  4 +++--
pyme/helpers.c       |  4 +++--
pyme/helpers.h       |  4 +++--
pyme/pyme/__init__.py |  4 +++--
pyme/pyme/callbacks.py |  4 +++--
pyme/pyme/constants/data/encoding.py |  4 +++--
pyme/pyme/constants/event.py |  4 +++--
pyme/pyme/constants/import.py |  4 +++--
pyme/pyme/constants/keylist/mode.py |  4 +++--
pyme/pyme/constants/md.py    |  4 +++--
pyme/pyme/constants/pk.py    |  4 +++--
commit 6d6bb252771133724b2879ed6d7677cd708196dae
Author: belyi <devnull@localhost>
Date:   Fri Mar 18 18:04:35 2005 +0000

Remove the note about gpgme.i to be generated - it's been the primary source for some time.

commit 9d449fa4889c6bda6d14583c0625b8d5c4fe759
Author: belyi <devnull@localhost>
Date:   Fri May 7 18:31:22 2004 +0000

Added my copyright in genkey.py since there's enough changes made.
Updated signverify to use only keys generated by genkey.py, to check that keys added to singers are able to sign and to check that the list of signers is not empty. The last check is necessary to prevent signing with the key of the user running signverify.py script.
Added delkey.py script to delete keys generated by genkey.py
Added exportimport.py example for key export/import.

commit df98c8d28245ad2c14b0ab50fc8f8932853bec8b
Author: belyi <devnull@localhost>
Date:   Tue May 4 17:34:15 2004 +0000

Added examples/signverify.py for unattended sign/verify.
Updated examples/genkey.py to work correctly.
Updated gpgme.i to allow None as a value for gpgme_data_t
Ensure that we support only python2.2 and up. :-)
Use generators in core.Context class which makes pyme.aux obsolete
Remove importing future nested_scopes since they are standard starting
with python2.2

Small change to index.html
Added clean: rule to the Makefile

Added Makefile rules for pyme module installation.

Decorative change.
commit e3478015d763a036c1d806ae01433fcee59712204
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 02:25:55 2004 +0000

    Added RCS Id: tags

     pyme/Makefile                           | 1 +
     pyme/examples/encrypt-to-all.py         | 3 ++-
     pyme/examples/genkey.py                 | 3 ++-
     pyme/examples/sign.py                   | 3 ++-
     pyme/examples/simple.py                 | 3 ++-
     pyme/gpgme.i                            | 1 +
     pyme/helpers.c                          | 1 +
     pyme/helpers.h                          | 1 +
     pyme/pyme/__init__.py                   | 1 +
     pyme/pyme/callbacks.py                  | 1 +
     pyme/pyme/consts/data/__init__.py       | 2 ++
     pyme/pyme/consts/data/encoding.py       | 1 +
     pyme/pyme/consts/event.py               | 1 +
     pyme/pyme/consts/import.py              | 1 +
     pyme/pyme/consts/keylist/__init__.py    | 2 ++
     pyme/pyme/consts/keylist/mode.py        | 1 +
     pyme/pyme/consts/md.py                  | 1 +
     pyme/pyme/consts/pk.py                  | 1 +
     pyme/pyme/consts/protocol.py            | 1 +
     pyme/pyme/consts/sig/__init__.py        | 2 ++
     pyme/pyme/consts/sig/mode.py            | 1 +
     pyme/pyme/consts/status.py              | 1 +
     pyme/pyme/consts/validity.py            | 1 +
     pyme/pyme/core.py                       | 1 +
     pyme/pyme/errors.py                     | 1 +
     pyme/pyme/util.py                       | 1 +
     pyme/pyme/version.py                    | 2 ++

30 files changed, 39 insertions(+), 4 deletions(-)

commit b3b3712645332c5bc3e8d9d557aab21d48ff0f86
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 02:07:36 2004 +0000

    Added Id: RCS tags to all files.

     pyme-web/Makefile          | 2 ++
     pyme-web/index.html       | 3 ++-
commit 6aea2426beaa8c43e6f2310a37a2737c0c3a1b5
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 01:50:55 2004 +0000

Update example on the init pyme.html page to match simple.py example.
Fix core.py to use getcode() instead of getvalue() method of the exception.

commit 6aea2426beaa8c43e6f2310a37a2737c0c3a1b5
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 01:50:55 2004 +0000

Update example on the init pyme.html page to match simple.py example.
Fix core.py to use getcode() instead of getvalue() method of the exception.

commit dee337455fffd624d3f83e1c159c4bb2cefc692c9
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 20:32:29 2004 +0000

Added Makefile to simplify publishing web files.

commit af7129ba8260697d85c2ddb434562e8a80b62d8
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 20:15:53 2004 +0000

Added minimum of formatting and SF icon.

commit 2e64dcbf99bee796b51667b04d9061e390edde87
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 18:30:09 2004 +0000

Initial revision

commit 1c51644b3d0b6611422d971758e35f303d2ad5df
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 05:10:46 2004 +0000

Update examples and package information on the initial pyme doc page.
commit b2d31b0bfbffdf5247d6db4e3c95140cc1b1f19
Author: belyi <devnull@localhost>
Date: Sat Mar 20 04:47:42 2004 +0000

Deleted unnecessary files.
Updated debian/control to remove dependency on python-xml package since there's none now.
Move example files from 'doc' into separate control file.
Update debian/rules to build documentation from *.py files and to exclude CVS directories from the installation.

| pyme/Makefile            |   26 +++++-- |
| pyme/debian/control      |    8 ++--   |
| pyme/debian/docs         |     1 -     |
| pyme/debian/ex.package.doc-base | 22 ------ |
| pyme/debian/examples     |     1 +     |
| pyme/debian/manpage.1.ex  |   60 -------- |
| pyme/debian/manpage.sgml.ex | 152 ------------------ |
| pyme/debian/rules        |   12 ++--   |
8 files changed, 15 insertions(+), 267 deletions(-)

commit 1b517dd9b82a433499b4696b06d94d756cd36e53
Author: belyi <devnull@localhost>
Date: Sat Mar 20 02:59:15 2004 +0000

Remove doc/gpgme directory containing GPGME documentation since this belongs to a different project. Need to add reference in our documentation.

| pyme/doc/gpgme/fdl.texi  |    402 ------ |
| pyme/doc/gpgme/gpgme.texi | 3372 ---------------------------------- |
| pyme/doc/gpgme/gpl.texi  |    397 ------ |
| pyme/doc/gpgme/version.texi | 4 - |
4 files changed, 4175 deletions(-)

commit 95d7d171da115a0fedfe2a4a7e5acc8aa408f673
Author: belyi <devnull@localhost>
Date: Sat Mar 20 02:45:03 2004 +0000

Change debian/rules to generate files by swig during build and to cleanup those files on 'clean' rule.
Plus, leave generated gpgme_wrap.c in the root directory instead of moving it into subdirectory 'generated'.

| pyme/Makefile            |    8 +++++-- |
| pyme/debian/rules        |     3 ++--   |
| pyme/setup.py            |     2 +-     |
3 files changed, 6 insertions(+), 7 deletions(-)
commit a3d5a442dc713b6c4d6fc4134db5b47e379dc41d
Author: root <devnull@localhost>
Date:   Fri Mar 19 14:12:30 2004 +0000

    initial checkin

CVSROOT/checkoutlist | 13 ++++++++++++++
CVSROOT/commitinfo   | 15 ++++++++++++  
CVSROOT/config       | 21 +++++++++++++++++++
CVSROOT/cvswrappers  | 19 +++++++++++++++++++
CVSROOT/editinfo     | 21 +++++++++++++++++++
CVSROOT/logininfo    | 26 ++++++++++++++++++++
CVSROOT/modules      | 26 ++++++++++++++++++++
CVSROOT/notify       | 12 +++++++++++
CVSROOT/rcsinfo      | 13 ++++++++++++  
CVSROOT/taginfo      | 20 +++++++++++++++++++
CVSROOT/verifymsg    | 21 ++++++++++++++++++++
11 files changed, 207 insertions(+)
\input texinfo    @c -*- texinfo -*-
@c %**start of header
@setfilename short-history.info
@settitle A Short History of the GPGME bindings for Python
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@c finalout
@c titlepage
@title A Short History of the GPGME bindings for Python
@author Ben McGinnes
@end titlepage

@contents
A Short History of the GPGME bindings for Python

Overview

* In the beginning::
* Keeping the flame alive::
* Passing the torch::
* Coming full circle::

Relics of the past

* The Annoyances of Git::
* The Perils of PyPI::

The Perils of PyPI

* GPG 180 - Python bindings for GPGME GnuPG cryptography library::
* PyME 090 - Python support for GPGME GnuPG cryptography library::

<table>
<thead>
<tr>
<th>Version</th>
<th>GPGME Version</th>
<th>Author</th>
<th>Author GPG Key</th>
<th>Language</th>
<th>xml:lang</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0.1</td>
<td>1.13.0</td>
<td>Ben McGinnes</td>
<td>DB4724E6FA4286C92B4E55C4321E4E2373590E5D</td>
<td>Australian English, British English</td>
<td>en-AU, en-GB, en</td>
</tr>
</tbody>
</table>
The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.

* In the beginning::
* Keeping the flame alive::
* Passing the torch::
* Coming full circle::

In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG. Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he became the new maintainer for PyME, releasing version 0.9.0 in May of that year. He remains the maintainer of the original PyME release in Python 2.6 and 2.7 (available via PyPI).

In 2015 Ben McGinnes approached Martin about a Python 3 version, while investigating how complex a task this would be the task ended up being completed. A subsequent discussion with Werner Koch led
to the decision to fold the Python 3 port back into the original
GPGME release in the languages subdirectory for non-C bindings
under the module name of @samp{pyme3}.

In 2016 this PyME module was integrated back into the GPGME project
by Justus Winter. During the course of this work Justus adjusted
the port to restore limited support for Python 2, but not as many
minor point releases as the original PyME package supports. During
the course of this integration the package was renamed to more
accurately reflect its status as a component of GPGME. The @samp{pyme3}
module was renamed to @samp{gpg} and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this
Ben returned to maintain of gpgme Python bindings and continue
building them from that point.

@node Relics of the past
@chapter Relics of the past

There are a few things, in addition to code specific factors, such as
SWIG itself, which are worth noting here.

@menu
* The Annoyances of Git::
  * The Perils of PyPI::
@end menu

@node The Annoyances of Git
@section The Annoyances of Git

As anyone who has ever worked with git knows, submodules are
horrible way to deal with pretty much anything. In the interests
of avoiding migraines, that was skipped with addition of the PyME
code to GPGME.

Instead the files were added to a subdirectory of the @samp{lang/}
directory, along with a copy of the entire git log up to that point
as a separate file within the @samp{lang/python/docs/} directory. @footnote{The entire PyME git log and other
preceding VCS logs are
located in the @samp{gpgme/lang/python/docs/old-commits.log} file.}
As the log for PyME is nearly 100KB and the log for GPGME is
approximately 1MB, this would cause considerable bloat, as well as
some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the
files. A regular repository version has been maintained should it
be possible to implement this better in the future.
The early port of the Python 2 @samp{pyme} module as @samp{pyme3} was never added to PyPI while the focus remained on development and testing during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from @samp{pyme3} to @samp{gpg}, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME libraries in order to function, it was determined that there was little benefit in also providing a copy through PyPI since anyone obtaining the GPGME source code would obtain the Python bindings source code at the same time. Whereas there was the potential to sew confusion amongst Python users installing the module from PyPI, only to discover that without the relevant C files, header files or SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI which might turn up in a search for this module or a sample of its content:

@enumerate
@item
gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library
@item
pyme (0.9.0) - Python support for GPGME GnuPG cryptography library
@end enumerate

This is the most recent version to reach PyPI and is the version of the official Python bindings which shipped with GPGME 1.8.0. If you have GPGME 1.8.0 installed and @emph{only} 1.8.0 installed, then it is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME 1.8.0, the GnuPG Project recommends not using this version of the module and instead installing the current version of GPGME along with the Python bindings included with that package.
This is the last release of the PyME bindings maintained by Martin Albrecht and is only compatible with Python 2, it will not work with Python 3. This is the version of the software from which the port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous points of similarity, but also significant differences. It is likely that the more recent official bindings will feel "more pythonic."

For those using Python 2, there is essentially no harm in using this module, but it may lack a number of more recent features added to GPGME.

@bye
# -*- mode: org -*-
#+TITLE: GNU Privacy Guard (GnuPG) Made Easy Python Bindings
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xlttbra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org> }

** Contents
:PROPERTIES:
:CUSTOM_ID: contents
:END:

- [[file:short-history][A short history of the project]]
- [[file:what-is-new][What's New]]
- [[file:maintenance-mode][Maintenance Mode]] (from January, 2019)
- [[file:what-was-new][What Was New]]
- [[file:gpgme-python-howto][GPGME Python Bindings HOWTO]]

-----BEGIN PGP PUBLIC KEY BLOCK-----
Last time the most obviously new thing was adding the \textit{What's New} section to the HOWTO. Now it's moving it out of the HOWTO.
into its own file so as to more readily include other documents beyond that HOWTO.

@item
Moving the preceding, archival, segments into @uref{what-was-new.org, another file}.

@item
Added @samp{gpg.version.versionintlist} to make it easier for Python developers to check for a specific version number, even with beta versions (it will drop the "-betaN" part).

@item
Added expanded detail on issues pertaining to installing for Windows users.

@item
Bindings enter @uref{maintenance-mode, maintenance mode} from January, 2019.

@item
Added documentation on maintenance mode and what changes can be made to the code when in that status. Essentially that boils down to bug fixes only and no feature requests.

@item
The import-keys-hkp.py example script, which uses the @samp{hkp4py} module to search the SKS servers for a key, has been tightened up to search for both hexadecimal key IDs and user ID strings with reduced chance of unnecessary repetition. There may still be some repetition if a key includes a user ID matching the hexadecimal value of a key ID.

@end itemize

@bye

Using gpgme.js
---------------

At first, make sure that the environment you want to use gpgme.js in has access and permissions for nativeMessaging, and gpgme-json installed. For details, see the README.

The library itself is started via the {@link init} method. This will test the nativeMessaging connection, and then resolve into an Object offering the top level API:

* [@link encrypt]{@link GpgME#encrypt}
* [@link decrypt]{@link GpgME#decrypt}
* [@link sign]{@link GpgME#sign}
* [@link verify]{@link GpgME#verify}
* [@link Keyring]{@link GPGME_Keyring}

``` gpgmejs.init()
 .then(function(GPGME) {
    // using GPGME
 }, function(error){
```

```
All methods that require communication with nativeMessaging are asynchronous, using Promises. Rejections will be instances of {@link GPGME_Error}.

An exception are Keys, which can be initialized in a 'sync' mode, allowing them to be cached and used synchronously until manually refreshed.

**Keyring and Keys**

---------

The gnupg keys can be accessed via the [Keyring][@link GPGME_Keyring].

The Keyring offers the methods for accessing information on all Keys known to gnupg.

**Due to security constraints, the javascript-binding currently only offers limited support for secret-Key interaction.**

The existence of secret Keys is not secret, and those secret Keys can be used for signing, but Operations that may expose, modify or delete secret Keys are not supported.

* [getKeysArmored][@link GPGME_Keyring#getKeysArmored]
* [getKeys][@link GPGME_Keyring#getKeys]
* [getDefaultKey][@link GPGME_Keyring#getDefaultKey]
* [generateKey][@link GPGME_Keyring#generateKey]
* [deleteKey][@link GPGME_Keyring#deleteKey]

For a list of the authors of the source code of GPGME, please see the file AUTHORS. The following people supported GPGME development in various ways (for example by finding bugs or giving advice), and we want to thank them for their help. If we forgot you, please let us know.

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Alfons Hoogervorst    alfons@proteus.demon.nl
Daniel Mueller       daniel@dann.de
Enno Cramer          uebergeek@web.de
Frank Heckenbach    frank@g-n-u.de
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WITHOUT ANY WARRANTY, to the extent permitted by law; without even the
implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

;; This file is part of GPGME-CL.
;;
;; GPGME-CL is free software; you can redistribute it and/or modify it
;; under the terms of the GNU General Public License as published by
;; the Free Software Foundation; either version 2 of the License, or
;; (at your option) any later version.
;;
;; GPGME-CL is distributed in the hope that it will be useful, but
;; WITHOUT ANY WARRANTY; without even the implied warranty of
;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;; Lesser General Public License for more details.
;;
;; You should have received a copy of the GNU General Public License
;; along with GPGME; if not, write to the Free Software Foundation,
;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

(in-package :gpgme)

(include "errno.h" "sys/types.h")

(constant (+ebadf+ "EBADF"))
(ctype off-t "off_t")
(ctype size-t "size_t")
(ctype ssize-t "ssize_t")

cvar ("errno" *errno*) :int
# This is a template. The dist target uses it to create the real file.
Summary: GPGME - GnuPG Made Easy
Name: gpgme
Version: 1.13.1
Release: 1
URL: https://gnupg.org/gpgme.html
Source: https://www.gnupg.org/ftp/gcrypt/gpgme/%{name}-%{version}.tar.gz
Group: Development/Libraries
Copyright: GPL
BuildRoot: %{_tmppath}/%{name}-%{version}
BuildRequires: make
Prereq: /sbin/ldconfig /sbin/install-info
Requires: gnupg

%description
GnuPG Made Easy (GPGME) is a library designed to make access to GnuPG easier for applications. It provides a High-Level Crypto API for encryption, decryption, signing, signature verification and key management.

%prep
%setup -q

%build
CFLAGS="${RPM_OPT_FLAGS}": export CFLAGS
./configure --prefix=/usr
make

%install
rm -fr $RPM_BUILD_ROOT
mkdir -p $RPM_BUILD_ROOT
make install prefix=$RPM_BUILD_ROOT/usr infodir=$RPM_BUILD_ROOT%{_infodir}
rm -f $RPM_BUILD_ROOT%{_infodir}/dir

%clean
rm -fr $RPM_BUILD_ROOT
make distclean

%post
/sbin/ldconfig
/sbin/install-info %{_infodir}/gpgme.info.gz %{_infodir}/dir
/sbin/install-info %{_infodir}/gpgme-python-howto.info.gz %{_infodir}/dir
%preun
if [ "$1" = 0 ]; then
/sbin/install-info --delete %{_infodir}/gpgme.info.gz %{_infodir}/dir
/sbin/install-info --delete %{_infodir}/gpgme-python-howto.info.gz %{_infodir}/dir
fi

%postun
/sbin/ldconfig

%files
%defattr(-,root,root)
%doc COPYING COPYING.LESSER AUTHORS README INSTALL NEWS ChangeLog TODO THANKS
%attr(0755,root,root) %{_bindir}/gpgme-config
%attr(0755,root,root) %{_libdir}/gpgme.so*
%attr(0755,root,root) %{_libdir}/gpgme.la
%attr(0644,root,root) %{_libdir}/gpgme.a
%{includedir}/gpgme.h
%{datadir}/aclocal/gpgme.m4
%{infodir}/gpgme.info*
%{infodir}/gpgme-python-howto.info*
%changelog
* Sat Aug 30 2003 Robert Schiele <rschiele@uni-mannheim.de>
- %{_infodir}/dir is not packaged, remove to prevent checking failure
* Mon Jul 01 2002 Wojciech Polak <polak@lodzi.pdi.net>
- initial specfile release for GPGME.

# EOF
# -*- mode: org -*-
#+TITLE: GNU Privacy Guard (GnuPG) Made Easy Python Bindings HOWTO (English)
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont{Ligatures={Common}}[Times New Roman]
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* Introduction
:PROPERTIES:
:CUSTOM_ID: intro
:END:

| Version: | 0.1.5       |
| GPGME Version: | 1.13.0       |
| Author: | Ben McGinnes <ben@gnupg.org> |
This document provides basic instruction in how to use the GPGME Python bindings to programmatically leverage the GPGME library.

** Python 2 versus Python 3

Though the GPGME Python bindings themselves provide support for both Python 2 and 3, the focus is unequivocally on Python 3 and specifically from Python 3.4 and above. As a consequence all the examples and instructions in this guide use Python 3 code.

Much of it will work with Python 2, but much of it also deals with Python 3 byte literals, particularly when reading and writing data. Developers concentrating on Python 2.7, and possibly even 2.6, will need to make the appropriate modifications to support the older string and unicode types as opposed to bytes.

There are multiple reasons for concentrating on Python 3; some of which relate to the immediate integration of these bindings, some of which relate to longer term plans for both GPGME and the python bindings and some of which relate to the impending EOL period for Python 2.7. Essentially, though, there is little value in tying the bindings to a version of the language which is a dead end and the advantages offered by Python 3 over Python 2 make handling the data types with which GPGME deals considerably easier.

** Examples

All of the examples found in this document can be found as Python 3 scripts in the =lang/python/examples/howto= directory.
In addition to shipping with each release of GPGME, there is a section on locations to read or download [#draft-editions][draft editions] of this document from at the end of it. These are unofficial versions produced in between major releases.

** What's New

Full details of what is new are now available in the [[file:what-is-new.org][What's New]] file and archives of the preceding /What's New/ sections are available in the [[file:what-was-new][What Was New]] file.

*** New in GPGME 1130

See the [[file:what-is-new#new-stuff-1-13-0][What's New]] document for what is new in version 1.13.0.

*** New in GPGME 1120

See the [[file:what-was-new#new-stuff-1-12-0][What Was New]] document for what was new in version 1.12.0.

* GPGME Concepts

Unlike many modern APIs with which programmers will be more familiar with these days, the GPGME API is a C API. The API is intended for use by C coders who would be able to access its features by including the =gpgme.h= header file with their own C source code and then access its functions just as they would any other C headers.
This is a very effective method of gaining complete access to the API and in the most efficient manner possible. It does, however, have the drawback that it cannot be directly used by other languages without some means of providing an interface to those languages. This is where the need for bindings in various languages stems.

** Python bindings

The Python bindings for GPGME provide a higher level means of accessing the complete feature set of GPGME itself. It also provides a more pythonic means of calling these API functions.

The bindings are generated dynamically with SWIG and the copy of =gpgme.h= generated when GPGME is compiled.

This means that a version of the Python bindings is fundamentally tied to the exact same version of GPGME used to generate that copy of =gpgme.h=.

** Difference between the Python bindings and other GnuPG Python packages

There have been numerous attempts to add GnuPG support to Python over the years. Some of the most well known are listed here, along with what differentiates them.

*** The python-gnupg package maintained by Vinay Sajip

This is arguably the most popular means of integrating GPG with Python. The package utilises the =subprocess= module to implement wrappers for the =gpg= and =gpg2= executables normally invoked on the command line (=gpg.exe= and =gpg2.exe= on Windows).

The popularity of this package stemmed from its ease of use and capability in providing the most commonly required features.
Unfortunately it has been beset by a number of security issues in the past; most of which stemmed from using unsafe methods of accessing the command line via the `subprocess` calls. While some effort has been made over the last two to three years (as of 2018) to mitigate this, particularly by no longer providing shell access through those subprocess calls, the wrapper is still somewhat limited in the scope of its GnuPG features coverage.

The python-gnupg package is available under the MIT license.

*** The gnupg package created and maintained by Isis Lovecruft

The naming and version numbering selected for this package, however, resulted in conflicts with the original python-gnupg and since its functions were called in a different manner to python-gnupg, the release of this package also resulted in a great deal of consternation when people installed what they thought was an upgrade that subsequently broke the code relying on it.

The gnupg package is available under the GNU General Public License version 3.0 (or any later version).

*** The PyME package maintained by Martin Albrecht

This package is the origin of these bindings, though they are somewhat different now. For details of when and how the PyME package was folded back into GPGME itself see the [Short History](file:short-history.org) document.

The PyME package was first released in 2002 and was also the first attempt to implement a low level binding to GPGME. In doing so it provided access to considerably more functionality than either the python-gnupg or gnupg packages.

The PyME package is only available for Python 2.6 and 2.7.
Porting the PyME package to Python 3.4 in 2015 is what resulted in it being folded into the GPGME project and the current bindings are the end result of that effort.

The PyME package is available under the same dual licensing as GPGME itself: the GNU General Public License version 2.0 (or any later version) and the GNU Lesser General Public License version 2.1 (or any later version).

* GPGME Python bindings installation

** No PyPI

Most third-party Python packages and modules are available and distributed through the Python Package Installer, known as PyPI.

Due to the nature of what these bindings are and how they work, it is infeasible to install the GPGME Python bindings in the same way.

This is because the bindings use SWIG to dynamically generate C bindings against =gpgme.h= and =gpgme.h= is generated from =gpgme.h.in= at compile time when GPGME is built from source. Thus to include a package in PyPI which actually built correctly would require either statically built libraries for every architecture bundled with it or a full implementation of C for each architecture.

See the additional notes regarding [#snafu-cffi][CFFI and SWIG] at the end of this section for further details.

** Requirements

The GPGME Python bindings only have three requirements:

1. A suitable version of Python 2 or Python 3. With Python 2 that means CPython 2.7 and with Python 3 that means CPython 3.4 or higher.
2. [https://www.swig.org][SWIG].
3. GPGME itself. Which also means that all of GPGME’s dependencies must be installed too.

*** Recommended Additions

:PROPERTIES:
:CUSTOM_ID: gpgme-python-recommendations
:END:

Though none of the following are absolute requirements, they are all recommended for use with the Python bindings. In some cases these recommendations refer to which version(s) of CPython to use the bindings with, while others refer to third party modules which provide a significant advantage in some way.

1. If possible, use Python 3 instead of 2.
2. Favour a more recent version of Python since even 3.4 is due to reach EOL soon. In production systems and services, Python 3.6 should be robust enough to be relied on.
3. If possible add the following Python modules which are not part of the standard library: [http://docs.python-requests.org/en/latest/index.html][Requests], [https://cython.org/][Cython], [https://pendulum.eustace.io/][Pendulum] and [https://github.com/Selfnet/hkp4py][hkp4py].

Chances are quite high that at least the first one and maybe two of those will already be installed.

Note that, as with Cython, some of advanced use case scenarios will bring with them additional requirements. Most of these will be fairly well known and commonly installed ones, however, which are in many cases likely to have already been installed on many systems or be familiar to Python programmers.

** Installation

:PROPERTIES:
:CUSTOM_ID: installation
:END:

Installing the Python bindings is effectively achieved by compiling and installing GPGME itself.

Once SWIG is installed with Python and all the dependencies for GPGME are installed you only need to confirm that the version(s) of Python you want the bindings installed for are in your =$PATH=. 

By default GPGME will attempt to install the bindings for the most
recent or highest version number of Python 2 and Python 3 it detects in =PATH=. It specifically checks for the =python= and =python3= executables first and then checks for specific version numbers.

For Python 2 it checks for these executables in this order: =python=, =python2= and =python2.7=.

For Python 3 it checks for these executables in this order: =python3=, =python3.7=, =python3.6=, =python3.5= and =python3.4=.[fn:2]

On systems where =python= is actually =python3= and not =python2= it may be possible that =python2= may be overlooked, but there have been no reports of that actually occurring as yet.

In the three months or so since the release of Python 3.7.0 there has been extensive testing and work with these bindings with no issues specifically relating to the new version of Python or any of the new features of either the language or the bindings. This has also been the case with Python 3.7.1rc1. With that in mind and given the release of Python 3.7.1 is scheduled for around the same time as GPGME 1.12.0, the order of preferred Python versions has been changed to move Python 3.7 ahead of Python 3.6.

*** Installing GPGME

:PROPERTIES:
:CUSTOM_ID: install-gpgme
:END:

See the GPGME =README= file for details of how to install GPGME from source.

** Known Issues

:PROPERTIES:
:CUSTOM_ID: snafu
:END:

There are a few known issues with the current build process and the Python bindings. For the most part these are easily addressed should they be encountered.

*** Breaking Builds

:PROPERTIES:
:CUSTOM_ID: snafu-a-swig-of-this-builds-character
:END:
Occasionally when installing GPGME with the Python bindings included it may be observed that the `make` portion of that process induces a large very number of warnings and, eventually errors which end that part of the build process. Yet following that with `make check` and `make install` appears to work seamlessly.

The cause of this is related to the way SWIG needs to be called to dynamically generate the C bindings for GPGME in the first place. So the entire process will always produce `lang/python/python2-gpg/` and `lang/python/python3-gpg/` directories. These should contain the build output generated during compilation, including the complete bindings and module installed into `site-packages`.

Occasionally the errors in the early part or some other conflict (e.g. not installing as */root/* or */su/*) may result in nothing being installed to the relevant `site-packages` directory and the build directory missing a lot of expected files. Even when this occurs, the solution is actually quite simple and will always work.

That solution is simply to run the following commands as either the *root* user or prepended with `sudo -H` in the `lang/python/` directory:

```shell
/path/to/pythonX.Y setup.py build
/path/to/pythonX.Y setup.py build
/path/to/pythonX.Y setup.py install
```

Yes, the build command does need to be run twice. Yes, you still need to run the potentially failing or incomplete steps during the `configure`, `make` and `make install` steps with installing GPGME. This is because those steps generate a lot of essential files needed, both by and in order to create, the bindings (including both the `setup.py` and `gpgme.h` files).

**** IMPORTANT Note

If specifying a selected number of languages to create bindings for, try to leave Python last. Currently the majority of the other language bindings are also preceding Python of either version when listed alphabetically (not counting the Qt bindings).

If Python is set to precede one of the other languages then it is
possible that the errors described here may interrupt the build process before generating bindings for those other languages. In these cases it may be preferable to configure all preferred language bindings separately with alternative =configure= steps for GPGME using the =--enable-languages=$LANGUAGE= option.

Alternatively =make= (or =gmake=, depending on your platform) may be run with the the =-k= option, which tells make to keep going even if errors are encountered. In that case the failure of one language's set of bindings to build should not hamper another language's bindings to build.

*** Reinstalling Responsibly

Regardless of whether you're installing for one version of Python or several, there will come a point where reinstallation is required. With most Python module installations, the installed files go into the relevant site-packages directory and are then forgotten about. Then the module is upgraded, the new files are copied over the old and that's the end of the matter.

While the same is true of these bindings, there have been intermittent issues observed on some platforms which have benefited significantly from removing all the previous installations of the bindings before installing the updated versions.

Removing the previous version(s) is simply a matter of changing to the relevant =site-packages= directory for the version of Python in question and removing the =gpg/= directory and any accompanying egg-info files for that module.

In most cases this will require root or administration privileges on the system, but the same is true of installing the module in the first place.

*** Multiple installations

For a variety of reasons it may be either necessary or just preferable to install the bindings to alternative installed Python versions which meet the requirements of these bindings.
On POSIX systems this will generally be most simply achieved by running the manual installation commands (build, build, install) as described in the previous section for each Python installation the bindings need to be installed to.

As per the SWIG documentation: the compilers, libraries and runtime used to build GPGME and the Python Bindings *must* match those used to compile Python itself, including the version number(s) (at least going by major version numbers and probably minor numbers too).

On most POSIX systems, including OS X, this will very likely be the case in most, if not all, cases.

Note that from GPGME [[https://dev.gnupg.org/rMffff616ae6f59b7f2ce117642850eccf3851e][1.12.1]] the default installation installs to each version of Python it can find first. That is that it will currently install for the first copies of Python versions 2.7, 3.4, 3.5, 3.6, 3.7 and 3.8 (dev branch) that it finds. Usually this will be in the same prefix as GPGME itself, but is dictated by the =$PATH= when the installation is performed. The above instructions can still be performed on other python installations which the installer does not find, including alternative prefixes.

*** Won't Work With Windows

There are semi-regular reports of Windows users having considerable difficulty in installing and using the Python bindings at all. Very often, possibly even always, these reports come from Cygwin users and/or MinGW users and/or Msys2 users. Though not all of them have been confirmed, it appears that these reports have also come from people who installed Python using the Windows installer files from the [[https://python.org][Python website]] (i.e. mostly MSI installers, sometimes self-extracting =.exe= files).

The Windows versions of Python are not built using Cygwin, MinGW or Msys2; they're built using Microsoft Visual Studio. Furthermore the version used is considerably more advanced than the version which MinGW obtained a small number of files from many years ago in order to be able to compile anything at all. Not only that, but there are changes to the version of Visual Studio between some micro releases, though that is is particularly the case with Python 2.7, since it has been kept around far longer than it should have been.
There are two theoretical solutions to this issue:

1. Compile and install the GnuPG stack, including GPGME and the Python bindings using the same version of Microsoft Visual Studio used by the Python Foundation to compile the version of Python installed.

   If there are multiple versions of Python then this will need to be done with each different version of Visual Studio used for those versions of Python.

2. Compile and install Python using the same tools used by choice, such as MinGW or Msys2.

   Do *not* use the official Windows installer for Python unless following the first method.

   In this type of situation it may even be for the best to accept that there are less limitations on permissive software than free software and simply opt to use a recent version of the Community Edition of Microsoft Visual Studio to compile and build all of it, no matter what.

   Investigations into the extent or the limitations of this issue are ongoing.

   The following table lists the version of Microsoft Visual Studio which needs to be used when compiling GPGME and the Python bindings with each version of the CPython binary released [[https://www.python.org/downloads/windows/][for Windows]]:

<table>
<thead>
<tr>
<th>CPython</th>
<th>Microsoft product name</th>
<th>runtime filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7.6</td>
<td>Visual Studio 2008</td>
<td>MSVCR90.DLL</td>
</tr>
<tr>
<td>3.4.0</td>
<td>Visual Studio 2010</td>
<td>MSVCR100.DLL</td>
</tr>
<tr>
<td>3.5.0</td>
<td>Visual Studio 2015</td>
<td><em>see below</em></td>
</tr>
<tr>
<td>3.6.0</td>
<td>Visual Studio 2015</td>
<td><em>see below</em></td>
</tr>
<tr>
<td>3.7.0</td>
<td>Visual Studio 2017*</td>
<td><em>see below</em></td>
</tr>
</tbody>
</table>

   It is important to note that MingW and Msys2 ship with the Visual C runtime from Microsoft Visual Studio 2005 and are thus *incompatible* with all the versions of CPython which can be used with the GPGME Python bindings.

   It is also important to note that from CPython 3.5 onwards, the Python Foundation has adopted the reworking of the Visual C runtime which was performed for Visual Studio 2015 and aimed at resolving many of these kinds of issues. Much greater detail on these issues and the correct file(s) to link to are available from Matthew Brett's invaluable page,
It is also worth reading the Microsoft Developer Network blog post on the universal CRT and Steve Dower's blog posts on Python extensions. The second of those two posts by Steve Dower contains the details of specific configuration options required for compiling anything to be used with official CPython releases. In addition to those configuration and compiler settings to use, the versions of Visual Studio prior to Visual Studio 2015 did not support 64-bit systems by default. So compiling a 64-bit version of these bindings for a 64-bit version of CPython 2.7 or 3.4 requires additional work.

In addition to the blog posts, the wiki page on the CPython wiki is another essential reference on the relevant versions of Visual Studio to use and the degree of compatibility with CPython releases.

Eventually someone will ask why there isn't an installable binary for Windows, which the GPGME of the licenses do not preclude as long as the source code is available in conjunction with such a release.

The sheer number of versions of Visual Studio in conjunction with differing configuration options depending on the target Windows version and whether the architecture is 64-bit or 32-bit makes it difficult to provide a correct binary installer for Windows users. At the bare minimum doing so would require the GnuPG project compile ten different versions of the bindings with each release; both 32-bit and 64-bit versions for CPython 2.7 and 3.4, with 64-bit versions for both x86-64 (i.e. Intel and AMD) and ARM architectures for CPython 3.5, 3.6, 3.7 and later releases. That's the bare minimum, it'd probably be higher.

Additionally, with only a binary installation used in conjunction with the CPython installer from =python.org= the advanced options available which utilise Cython will not be able to be used at all. Cython depends on being able to compile the C code it generates and that too would need to utilise a matching runtime to both the installed version of CPython and these bindings in order to work with the bindings.

Considering all of that, what do we recommend?

1. Use a recent version of CPython; at least 3.5, but ideally 3.6 or later.
2. Use Visual Studio 2015 or the standalone build tools for Visual Studio 2017 (or later).

3. Compile both CPython and GPGME with these bindings using the tools selected in step 2.

4. Ignore MingW, Msys2 and the official CPython binary installers.

5. Be thankful the answer to this question wasn't simply to say something like, install Linux or install FreeBSD (or even Apple's OS X).

*** CFFI is the Best and GPGME should use it instead of SWIG

:CUSTOM_ID: snafu-cffi

There are many reasons for favouring [[https://cffi.readthedocs.io/en/latest/overview.html][CFFI]] and proponents of it are quite happy to repeat these things as if all it would take to switch from SWIG to CFFI is repeating that list as if it were a new concept.

The fact is that there are things which Python's CFFI implementation cannot handle in the GPGME C code. Beyond that there are features of SWIG which are simply not available with CFFI at all. SWIG generates the bindings to Python using the =gpgme.h= file, but that file is not a single version shipped with each release, it too is generated when GPGME is compiled.

CFFI is currently unable to adapt to such a potentially mutable codebase. If there were some means of applying SWIG's dynamic code generation to produce the Python/CFFI API modes of accessing the GPGME libraries (or the source source code directly), but such a thing does not exist yet either and it currently appears that work is needed in at least one of CFFI's dependencies before any of this can be addressed.

So if you're a massive fan of CFFI; that's great, but if you want this project to switch to CFFI then rather than just insisting that it should, I'd suggest you volunteer to bring CFFI up to the level this project needs.

If you're actually seriously considering doing so, then I'd suggest taking the =gpgme-tool.c= file in the GPGME =src/= directory and getting that to work with any of the CFFI API methods (not the ABI methods, they'll work with pretty much anything). When you start running into trouble with "ifdefs" then you'll know what sort of
things are lacking. That doesn't even take into account the amount of work saved via SWIG's code generation techniques either.

*** Virtualised Environments

It is fairly common practice amongst Python developers to, as much as possible, use packages like virtualenv to keep various things that are to be installed from interfering with each other. Given how much of the GPGME bindings is often at odds with the usual pythonic way of doing things, it stands to reason that this would be called into question too.

As it happens the answer as to whether or not the bindings can be used with virtualenv, the answer is both yes and no.

In general we recommend installing to the relevant path and matching prefix of GPGME itself. Which means that when GPGME, and ideally the rest of the GnuPG stack, is installed to a prefix like =/usr/local= or =/opt/local= then the bindings would need to be installed to the main Python installation and not a virtualised abstraction. Attempts to separate the two in the past have been known to cause weird and intermittent errors ranging from minor annoyances to complete failures in the build process.

As a consequence we only recommend building with and installing to the main Python installations within the same prefix as GPGME is installed to or which are found by GPGME's configuration stage immediately prior to running the make commands. Which is exactly what the compiling and installing process of GPGME does by default.

Once that is done, however, it appears that a copy of the compiled module may be installed into a virtualenv of the same major and minor version matching the build. Alternatively it is possible to utilise a =sites.pth= file in the =site-packages/= directory of a virtualenv installation, which links back to the system installations corresponding directory in order to import anything installed system wide. This may or may not be appropriate on a case by case basis.

Though extensive testing of either of these options is not yet complete, preliminary testing of them indicates that both are viable as long as the main installation is complete. Which means that certain other options normally restricted to virtual environments are also available, including integration with pytonic test suites (e.g. [[https://docs.pytest.org/en/latest/index.html][pytest]]) and other large projects.
That said, it is worth reiterating the warning regarding non-standard installations. If one were to attempt to install the bindings only to a virtual environment without somehow also including the full GnuPG stack (or enough of it as to include GPGME) then it is highly likely that errors would be encountered at some point and more than a little likely that the build process itself would break.

If a degree of separation from the main operating system is still required in spite of these warnings, then consider other forms of virtualisation. Either a virtual machine (e.g. [[https://www.virtualbox.org/][VirtualBox]]), a hardware emulation layer (e.g. [[https://www.qemu.org/][QEMU]]) or an application container (e.g. [[https://www.docker.com/why-docker][Docker]]).

Finally it should be noted that the limited tests conducted thus far have been using the `virtualenv` command in a new directory to create the virtual python environment. As opposed to the standard `python3 -m venv` and it is possible that this will make a difference depending on the system and version of Python in use. Another option is to run the command `python3 -m virtualenv /path/to/install/virtual/thingy=` instead.

*** Post installation

Following installation it is recommended to move the `post_installer.py` script from the `lang/python/examples/howto=` directory to the `lang/python=` directory and run it. This will fix or restore files needed by Sphinx which may be removed during a distribution build for release. It will also generate reST files from Org mode files with Pandoc and generate Texinfo files from Org mode files with GNU Emacs and Org mode (in batch mode). Additionally it will fix the UTF-8 declaration line in the Texinfo files (Emacs expects "UTF-8" to be "utf-8").

* Fundamentals

Before we can get to the fun stuff, there are a few matters regarding GPGME's design which hold true whether you're dealing with the C code directly or these Python bindings.
** No REST

The first part of which is or will be fairly blatantly obvious upon viewing the first example, but it's worth reiterating anyway. That being that this API is /*not*/ a REST API. Nor indeed could it ever be one.

Most, if not all, Python programmers (and not just Python programmers) know how easy it is to work with a RESTful API. In fact they've become so popular that many other APIs attempt to emulate REST-like behaviour as much as they are able. Right down to the use of JSON formatted output to facilitate the use of their API without having to retrain developers.

This API does not do that. It would not be able to do that and also provide access to the entire C API on which it's built. It does, however, provide a very pythonic interface on top of the direct bindings and it's this pythonic layer that this HOWTO deals with.

** Context

One of the reasons which prevents this API from being RESTful is that most operations require more than one instruction to the API to perform the task. Sure, there are certain functions which can be performed simultaneously, particularly if the result known or strongly anticipated (e.g. selecting and encrypting to a key known to be in the public keybox).

There are many more, however, which cannot be manipulated so readily: they must be performed in a specific sequence and the result of one operation has a direct bearing on the outcome of subsequent operations. Not merely by generating an error either.

When dealing with this type of persistent state on the web, full of both the RESTful and REST-like, it's most commonly referred to as a session. In GPGME, however, it is called a context and every operation type has one.

* Working with keys
** Key selection

Selecting keys to encrypt to or to sign with will be a common occurrence when working with GPGMe and the means available for doing so are quite simple.

They do depend on utilising a Context; however once the data is recorded in another variable, that Context does not need to be the same one which subsequent operations are performed.

The easiest way to select a specific key is by searching for that key’s key ID or fingerprint, preferably the full fingerprint without any spaces in it. A long key ID will probably be okay, but is not advised and short key IDs are already a problem with some being generated to match specific patterns. It does not matter whether the pattern is upper or lower case.

So this is the best method:

```python
import gpg

k = gpg.Context().keylist(pattern="258E88DCBD3CD44D8E7AB43F6ECB6AF0DEADBEEF")
keys = list(k)
```

This is passable and very likely to be common:

```python
import gpg

k = gpg.Context().keylist(pattern="0x6ECB6AF0DEADBEEF")
keys = list(k)
```

And this is a really bad idea:

```python
import gpg

k = gpg.Context().keylist(pattern="06ECB6AF0DEADBEEF")
keys = list(k)
```
k = gpg.Context().keylist(pattern="0xDEADBEEF")
keys = list(k)
#+END_SRC

Alternatively it may be that the intention is to create a list of keys which all match a particular search string. For instance all the addresses at a particular domain, like this:

#+BEGIN_SRC python -i
import gpg
ncsc = gpg.Context().keylist(pattern="ncsc.mil")
nsa = list(ncsc)
#+END_SRC

*** Counting keys
:PROPERTIES:
:CUSTOM_ID: howto-keys-counting
:END:

Counting the number of keys in your public keybox (=pubring.kbx=), the format which has superseded the old keyring format (=pubring.gpg= and =secring.gpg=), or the number of secret keys is a very simple task.

#+BEGIN_SRC python -i
import gpg
c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)
seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

print("****
 Number of secret keys:  {}
 Number of public keys:  {}
****.format(secnum, pubnum))
#+END_SRC

NOTE: The [[]cython][Cython]] introduction in the [[]advanced-use][Advanced and Experimental]] section uses this same key counting code with Cython to demonstrate some areas where Cython can improve performance even with the bindings. Users with large public keyrings or keyboxes, for instance,
should consider these options if they are comfortable with using Cython.

** Get key

An alternative method of getting a single key via its fingerprint is available directly within a Context with `Context().get_key=`. This is the preferred method of selecting a key in order to modify it, sign or certify it and for obtaining relevant data about a single key as a part of other functions; when verifying a signature made by that key, for instance.

By default this method will select public keys, but it can select secret keys as well.

This first example demonstrates selecting the current key of Werner Koch, which is due to expire at the end of 2018:

```python
import gpg

fingerprint = "80615870F5BAD690333686DB0F2AD85AC1E42B367"
key = gpg.Context().get_key(fingerprint)
```

Whereas this example demonstrates selecting the author's current key with the `secret=` key word argument set to `True=`:

```python
import gpg

fingerprint = "DB4724E6FA4286C92B4E55C4321E4E2373590E5D"
key = gpg.Context().get_key(fingerprint, secret=True)
```

It is, of course, quite possible to select expired, disabled and revoked keys with this function, but only to effectively display information about those keys.

It is also possible to use both unicode or string literals and byte literals with the fingerprint when getting a key in this way.

** Importing keys
Importing keys is possible with the =key_import()= method and takes one argument which is a bytes literal object containing either the binary or ASCII armoured key data for one or more keys.

The following example retrieves one or more keys from the SKS keyservers via the web using the requests module. Since requests returns the content as a bytes literal object, we can then use that directly to import the resulting data into our keybox.

```
#BEGIN_SRC python -i
import gpg
import os.path
import requests

c = gpg.Context()
url = "https://sks-keyservers.net/pks/lookup"
pattern = input("Enter the pattern to search for key or user IDs: ")
payload = {"op": "get", "search": pattern}

r = requests.get(url, verify=True, params=payload)
result = c.key_import(r.content)

if result is not None and not hasattr(result, "considered") is False:
    print(result)
elif result is not None and not hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_rev = result.new_revocations
    new_sig = result.new_signatures
    new_sub = result.new_sub_keys
    new_uid = result.new_user_ids
    new_sct = result.secret_imported
    nochange = result.unchanged
    print(""
    The total number of keys considered for import was: {0}
    
    Number of keys revoked: {1}
    Number of new signatures: {2}
    Number of new subkeys: {3}
    Number of new user IDs: {4}
    Number of new secret keys: {5}
    Number of unchanged keys: {6}
    
    The key IDs for all considered keys were:
    
    """

```

NOTE: When searching for a key ID of any length or a fingerprint (without spaces), the SKS servers require the leading =0x= indicative of hexadecimal be included. Also note that the old short key IDs (e.g. =0xDEADBEEF=) should no longer be used due to the relative ease by which such key IDs can be reproduced, as demonstrated by the Evil32 Project in 2014 (which was subsequently exploited in 2016).

Testing for whether a string in any given search is or may be a hexadecimal value which may be missing the leading =0x= is a simple matter of using a try/except statement which attempts to convert the string as hex to an integer and then back to hex; then using that to search with. Raising a ValueError simply results in treating the string as a string. This is the method and logic utilised in the =import-keys-hkp.py= script (see below).

*** Working with ProtonMail

:PROPERTIES:
:CUSTOM_ID: import-protonmail
:END:

Here is a variation on the example above which checks the constrained ProtonMail keyserver for ProtonMail public keys.

#+BEGIN_SRC python -i
import gpg
import requests
import sys

print("***
This script searches the ProtonMail key server for the specified key and imports it.
***")

c = gpg.Context(armor=True)
url = "https://api.protonmail.ch/pks/lookup"
ksearch = []

if len(sys.argv) >= 2:
    keyterm = sys.argv[1]
else:
    keyterm = input("Enter the key ID, UID or search string: ")

if keyterm.count("@") == 2 and keyterm.startswith("@") is True:
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:])
elif keyterm.count("@") == 1 and keyterm.startswith("@") is True:
    ksearch.append("{0}@protonmail.com".format(keyterm[1:]))
    ksearch.append("{0}@protonmail.ch".format(keyterm[1:]))
    ksearch.append("{0}@pm.me".format(keyterm[1:]))
elif keyterm.count("@") == 0:
    ksearch.append("{0}@protonmail.com".format(keyterm))
    ksearch.append("{0}@protonmail.ch".format(keyterm))
    ksearch.append("{0}@pm.me".format(keyterm))
elif keyterm.count("@") == 2 and keyterm.startswith("@") is False:
    uidlist = keyterm.split("@")
    for uid in uidlist:
        ksearch.append("{0}@protonmail.com".format(uid))
        ksearch.append("{0}@protonmail.ch".format(uid))
        ksearch.append("{0}@pm.me".format(uid))
elif keyterm.count("@") > 2:
    uidlist = keyterm.split("@")
    for uid in uidlist:
        ksearch.append("{0}@protonmail.com".format(uid))
        ksearch.append("{0}@protonmail.ch".format(uid))
        ksearch.append("{0}@pm.me".format(uid))
else:
    ksearch.append(keyterm)

for k in ksearch:
    payload = {"op": "get", "search": k}
    try:
        r = requests.get(url, verify=True, params=payload)
        if r.ok is True:
            result = c.key_import(r.content)
        elif r.ok is False:
            result = r.content
        except Exception as e:
            result = None

    if result is not None and not hasattr(result, "considered") is False:
        print("{0} for {1}".format(result.decode(), k))
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
new_uids = result.new_user_ids
new_scrt = result.secret_imported
nochange = result.unchanged
print(""")
The total number of keys considered for import was: {0}

With UIDs wholly or partially matching the following string:

{1}

Number of keys revoked: {2}
Number of new signatures: {3}
Number of new subkeys: {4}
Number of new user IDs: {5}
Number of new secret keys: {6}
Number of unchanged keys: {7}

The key IDs for all considered keys were:

```python
{0}
```
some checks on a key before importing it or not. For instance it may be the policy of a site or project to only import keys which have not been revoked. The hkp4py module permits such checks prior to the importing of the keys found.

```python
# BEGIN_SRC python -i
import gpg
import hkp4py
import sys

c = gpg.Context()
server = hkp4py.KeyServer("hkps://hkps.pool.sks-keyservers.net")
results = []
keys = []

if len(sys.argv) > 2:
    pattern = ".join(sys.argv[1:])
elif len(sys.argv) == 2:
    pattern = sys.argv[1]
else:
    pattern = input("Enter the pattern to search for keys or user IDs: ")

if pattern is not None:
    try:
        key = server.search(hex(int(pattern, 16)))
        keyed = True
    except ValueError as ve:
        key = server.search(pattern)
        keyed = False

if key is not None:
    keys.append(key[0])
if keyed is True:
    try:
        fob = server.search(pattern)
        fob = None
    except:
        if fob is not None:
            keys.append(fob[0])
else:
    pass
else:
    pass

for logrus in pattern.split():
    try:
        key = server.search(hex(int(logrus, 16)))
```
hexed = True
except ValueError as ve:
    key = server.search(logrus)
    hexed = False

if key is not None:
    keys.append(key[0])
if hexed is True:
    try:
        fob = server.search(logrus)
    except:
        fob = None
    if fob is not None:
        keys.append(fob[0])
    else:
        pass
else:
    pass

if len(keys) > 0:
    for key in keys:
        import_result = c.key_import(key.key_blob)
        results.append(import_result)

    for result in results:
        if result is not None and hasattr(result, "considered") is False:
            print(result)
        elif result is not None and hasattr(result, "considered") is True:
            num_keys = len(result.imports)
            new_revs = result.new_revocations
            new_sigs = result.new_signatures
            new_subs = result.new_sub_keys
            new_uids = result.new_user_ids
            new_scrt = result.secret_imported
            nochange = result.unchanged
            print("\nThe total number of keys considered for import was:  {}\nNumber of keys revoked:  {}\nNumber of new signatures:  {}\nNumber of new subkeys:  {}\nNumber of new user IDs:  {}\nNumber of new secret keys:  {}\nNumber of unchanged keys:  {}\n\nThe key IDs for all considered keys were:\n****.format(num_keys, new_revs, new_sigs, new_subs, new_uids, new_scrt,
Since the hkp4py module handles multiple keys just as effectively as one (=keys= is a list of responses per matching key), the example above is able to do a little bit more with the returned data before anything is actually imported.

*** Importing from ProtonMail with HKP for Python

Though this can provide certain benefits even when working with ProtonMail, the scope is somewhat constrained there due to the limitations of the ProtonMail keys server.

For instance, searching the SKS keys server pool for the term "gnupg" produces hundreds of results from any time the word appears in any part of a user ID. Performing the same search on the ProtonMail keys server returns zero results, even though there are at least two test accounts which include it as part of the username.

The cause of this discrepancy is the deliberate configuration of that server by ProtonMail to require an exact match of the full email address of the ProtonMail user whose key is being requested. Presumably this is intended to reduce breaches of privacy of their users as an email address must already be known before a key for that address can be obtained.

**** Import from ProtonMail via HKP for Python Example no. 1

The following script is available with the rest of the examples under the somewhat less than original name, =pmkey-import-hkp.py=.

```
import gpg
import hkp4py
```

```python
nochange))
for i in range(num_keys):
    print(result.imports[i].fpr)
print('')
else:
    pass
#END_SRC
```
import os.path
import sys

print("This script searches the ProtonMail key server for the specified key and imports it.

Usage: pmkey-import-hkp.py [search strings]
")

c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://api.protonmail.ch")
keyterms = []
results = []
paradox = []
homeless = None

if len(sys.argv) > 2:
    keyterms = sys.argv[1:]
elif len(sys.argv) == 2:
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
else:
    key_term = input("Enter the key ID, UID or search string: ")
    keyterms = key_term.split()

for keyterm in keyterms:
    if keyterm.count("@") == 2 and keyterm.startswith("@") is True:
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
    elif keyterm.count("@") == 1 and keyterm.startswith("@") is True:
        ksearch.append("{0}@protonmail.com".format(keyterm[1:]))
        ksearch.append("{0}@protonmail.ch".format(keyterm[1:]))
        ksearch.append("{0}@pm.me".format(keyterm[1:]))
    elif keyterm.count("@") == 0:
        ksearch.append("{0}@protonmail.com".format(keyterm))
        ksearch.append("{0}@protonmail.ch".format(keyterm))
        ksearch.append("{0}@pm.me".format(keyterm))
    elif keyterm.count("@") == 2 and keyterm.startswith("@") is False:
        uidlist = keyterm.split("@")
        for uid in uidlist:
            ksearch.append("{0}@protonmail.com".format(uid))
            ksearch.append("{0}@protonmail.ch".format(uid))
            ksearch.append("{0}@pm.me".format(uid))
    elif keyterm.count("@") > 2:
        for uid in uidlist:
            ksearch.append("{0}@protonmail.com".format(uid))
            ksearch.append("{0}@protonmail.ch".format(uid))
            ksearch.append("{0}@pm.me".format(uid))
uidlist = keyterm.split("@")
for uid in uidlist:
    ksearch.append("{0}@protonmail.com".format(uid))
    ksearch.append("{0}@protonmail.ch".format(uid))
    ksearch.append("{0}@pm.me".format(uid))
else:
    ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: {0}".format(k))
    try:
        keys = server.search(k)
        if isinstance(keys, list) is True:
            for key in keys:
                allkeys.append(key)
            try:
                import_result = c.key_import(key.key_blob)
            except Exception as e:
                import_result = c.key_import(key.key)
        else:
            paradox.append(keys)
            import_result = None
        except Exception as e:
            import_result = None
    results.append(import_result)

for result in results:
    if result is not None and hasattr(result, "considered") is False:
        print("{0} for {1}".format(result.decode(), k))
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""
        The total number of keys considered for import was: {0}

        With UIDs wholly or partially matching the following string:

        {1}

        Number of keys revoked: {2}
        Number of new signatures: {3}
        Number of new subkeys: {4}
        Number of new user IDs: {5}"
}
Number of new secret keys:  {6}
Number of unchanged keys:  {7}

The key IDs for all considered keys were:

```python
for i in range(num_keys):
    print(result.imports[i].fpr)
    print('')
```

elif result is None:
    pass

**** Import from ProtonMail via HKP for Python Example no. 2

Like its counterpart above, this script can also be found with the rest of the examples, by the name pmkey-import-hkp-alt.py.

With this script a modicum of effort has been made to treat anything passed as a =homedir= which either does not exist or which is not a directory, as also being a possible user ID to check for. It's not guaranteed to pick up on all such cases, but it should cover most of them.

```python
import gpg
import hkp4py
import os.path
import sys

print('This script searches the ProtonMail key server for the specified key and imports it. Optionally enables specifying a different GnuPG home directory.

Usage: pmkey-import-hkp.py [homedir] [search string]
or: pmkey-import-hkp.py [search string]

```
paradox = []
homeless = None

if len(sys.argv) > 3:
    homedir = sys.argv[1]
    keyterms = sys.argv[2:]
elif len(sys.argv) == 3:
    homedir = sys.argv[1]
    keyterm = sys.argv[2]
    keyterms.append(keyterm)
elif len(sys.argv) == 2:
    homedir = ""
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
else:
    keyterm = input("Enter the key ID, UID or search string: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
    keyterms.append(keyterm)

if len(homedir) == 0:
    homedir = None
    homeless = False

if homedir is not None:
    if homedir.startswith("~"):
        if os.path.exists(os.path.expanduser(homedir)) is True:
            if os.path.isdir(os.path.expanduser(homedir)) is True:
                c.home_dir = os.path.realpath(os.path.expanduser(homedir))
            else:
                homeless = True
            else:
                homeless = True
    else:
        homeless = True
elif os.path.exists(os.path.realpath(homedir)) is True:
    if os.path.isdir(os.path.realpath(homedir)) is True:
        c.home_dir = os.path.realpath(homedir)
    else:
        homeless = True
else:
    homeless = True

# First check to see if the homedir really is a homedir and if not, treat it as
# a search string.
if homeless is True:
    keyterms.append(homedir)
    c.home_dir = None
else:
    pass
for keyterm in keyterms:
    if keyterm.count("@") == 2 and keyterm.startswith('@') is True:
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
    elif keyterm.count('@') == 1 and keyterm.startswith('@') is True:
        ksearch.append("{0}@protonmail.com".format(keyterm[1:]))
        ksearch.append("{0}@protonmail.ch".format(keyterm[1:]))
        ksearch.append("{0}@pm.me".format(keyterm[1:]))
    elif keyterm.count('@') == 0:
        ksearch.append("{0}@protonmail.com".format(keyterm))
        ksearch.append("{0}@protonmail.ch".format(keyterm))
        ksearch.append("{0}@pm.me".format(keyterm))
    elif keyterm.count('@') == 2 and keyterm.startswith('@') is False:
        uidlist = keyterm.split('@')
        for uid in uidlist:
            ksearch.append("{0}@protonmail.com".format(uid))
            ksearch.append("{0}@protonmail.ch".format(uid))
            ksearch.append("{0}@pm.me".format(uid))
    elif keyterm.count('@') > 2:
        uidlist = keyterm.split('@')
        for uid in uidlist:
            ksearch.append("{0}@protonmail.com".format(uid))
            ksearch.append("{0}@protonmail.ch".format(uid))
            ksearch.append("{0}@pm.me".format(uid))
    else:
        ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: {0}".format(k))
    try:
        keys = server.search(k)
        if isinstance(keys, list) is True:
            for key in keys:
                allkeys.append(key)
        try:
            import_result = c.key_import(key.key_blob)
        except Exception as e:
            import_result = c.key_import(key.key)
        else:
            paradox.append(keys)
            import_result = None
        except Exception as e:
            import_result = None
        results.append(import_result)
    for result in results:
        if result is not None and hasattr(result, "considered") is False:
print("{0} for {1}".format(result.decode(), k))
elif result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_subs = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged
    print(""
    The total number of keys considered for import was:  {0}
    
    With UIDs wholly or partially matching the following string:
    
    {1}
    
    Number of keys revoked:  {2}
    Number of new signatures:  {3}
    Number of new subkeys:  {4}
    Number of new user IDs:  {5}
    Number of new secret keys:  {6}
    Number of unchanged keys:  {7}
    
    The key IDs for all considered keys were:
    
    \*\*\* format(num_keys, k, new_revs, new_sigs, new_subs, new_uids, new_scrt,
    nochange))
    for i in range(num_keys):
        print(result.imports[i].fpr)
    print("")
    elif result is None:
        pass

** Exporting keys

**:PROPERTIES:

:CUSTOM_ID: howto-export-key

**:END:

Exporting keys remains a reasonably simple task, but has been
separated into three different functions for the OpenPGP cryptographic
ingine. Two of those functions are for exporting public keys and the
third is for exporting secret keys.

**:PROPERTIES:

:CUSTOM_ID: howto-export-public-key
There are two methods of exporting public keys, both of which are very similar to the other. The default method, =key_export()=, will export a public key or keys matching a specified pattern as normal. The alternative, the =key_export_minimal()= method, will do the same thing except producing a minimised output with extra signatures and third party signatures or certifications removed.

```python
import gpg
import os.path
import sys

print("This script exports one or more public keys.
")

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("~"):
    if os.path.exists(os.path.expanduser(homedir)) is True:
        c.home_dir = os.path.expanduser(homedir)
    else:
        pass
elif os.path.exists(homedir) is True:
    c.home_dir = homedir
else:
    pass
```

```python
try:
```
result = c.key_export(pattern=logrus)
except:
    result = c.key_export(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
else:
    pass

It should be noted that the result will only return None when a search pattern has been entered, but has not matched any keys. When the search pattern itself is set to None this triggers the exporting of the entire public keybox.

```python
import gpg
import os.path
import sys

print(""
This script exports one or more public keys in minimised form.
"")

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("~"):  
    if os.path.exists(os.path.expanduser(homedir)) is True:
        c.home_dir = os.path.expanduser(homedir)
    else:
```
pass
elf os.path.exists(homedir) is True:
c.home_dir = homedir
else:
    pass

try:
    result = c.key_export_minimal(pattern=logrus)
except:
    result = c.key_export_minimal(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
else:
    pass
#+END_SRC

*** Exporting secret keys
:PROPERTIES:
:CUSTOM_ID: howto-export-secret-key
:END:

Exporting secret keys is, functionally, very similar to exporting public keys; save for the invocation of =pinentry= via =gpg-agent= in order to securely enter the key's passphrase and authorise the export.

The following example exports the secret key to a file which is then set with the same permissions as the output files created by the command line secret key export options.

#+BEGIN_SRC python -i
import gpg
import os
import os.path
import sys

print("***
This script exports one or more secret keys.

The gpg-agent and pinentry are invoked to authorise the export.
***")

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
logrus = sys.argv[2]
homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if len(homedir) == 0:
    homedir = None
elif homedir.startswith("~"):
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = os.path.realpath(homedir)
if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass
if homedir is not None:
    c.home_dir = homedir
else:
    pass
try:
    result = c.key_export_secret(pattern=logrus)
except:
    result = c.key_export_secret(pattern=None)
if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
    os.chmod(keyfile, 0o600)
Alternatively the approach of the following script can be used. This longer example saves the exported secret key(s) in files in the GnuPG home directory, in addition to setting the file permissions as only readable and writable by the user. It also exports the secret key(s) twice in order to output both GPG binary (=.gpg=) and ASCII armoured (=.asc=) files.

```python
import gpg
import os
import os.path
import subprocess
import sys

print('This script exports one or more secret keys as both ASCII armored and binary file formats, saved in files within the user\'s GPG home directory.

The gpg-agent and pinentry are invoked to authorise the export.

if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-dirs homedir"
else:
    gpgconfcmd = "gpgconf --list-dirs homedir"

a = gpg.Context(armor=True)
b = gpg.Context()
c = gpg.Context()

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the filename to save the secret key to: ")
ei
logrus = input("Enter the UID matching the secret key(s) to export: ")
homedir = input("Enter the GPG configuration directory path (optional): ")

if len(homedir) == 0:
    homedir = None
elif homedir.startswith("~"):
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = os.path.realpath(homedir)

if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass

if homedir is not None:
    c.home_dir = homedir
else:
    pass

if c.home_dir is not None:
    if c.home_dir.endswith('/'):
        gpgfile = '{0}{1}.gpg'.format(c.home_dir, keyfile)
        ascfile = '{0}{1}.asc'.format(c.home_dir, keyfile)
    else:
        gpgfile = '{0}/{1}.gpg'.format(c.home_dir, keyfile)
        ascfile = '{0}/{1}.asc'.format(c.home_dir, keyfile)
else:
    if os.path.exists(os.environ['GNUPGHOME']) is True:
        hd = os.environ['GNUPGHOME']
    else:
        try:
            process = subprocess.Popen(gpgconfcmd.split(),
                                         stdout=subprocess.PIPE)
            procom = process.communicate()
            if sys.version_info[0] == 2:
                hd = procom[0].strip()
            else:
                hd = procom[0].decode().strip()
gpgfile = "{0}/{1}.gpg".format(hd, keyfile)
ascfile = "{0}/{1}.asc".format(hd, keyfile)

try:
a_result = a.key_export_secret(pattern=logrus)
b_result = b.key_export_secret(pattern=logrus)
except:
a_result = a.key_export_secret(pattern=None)
b_result = b.key_export_secret(pattern=None)

if a_result is not None:
    with open(ascfile, "wb") as f:
        f.write(a_result)
    os.chmod(ascfile, 0o600)
else:
    pass

if b_result is not None:
    with open(gpgfile, "wb") as f:
        f.write(b_result)
    os.chmod(gpgfile, 0o600)
else:
    pass

*** Sending public keys to the SKS Keyservers

As with the previous section on importing keys, the =hkp4py= module adds another option with exporting keys in order to send them to the public keyservers.

The following example demonstrates how this may be done.

#+BEGIN_SRC python -i
import gpg
import hkp4py
import os.path
import sys

print("***
This script sends one or more public keys to the SKS keyservers and is essentially a slight variation on the export-key.py script.
***")
c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://hkps.pool.sks-keyservers.net")

if len(sys.argv) > 2:
    logrus = " " + " ".join(sys.argv[1:])
elif len(sys.argv) == 2:
    logrus = sys.argv[1]
else:
    logrus = input("Enter the UID matching the key(s) to send: ")

if len(logrus) > 0:
    try:
        export_result = c.key_export(pattern=logrus)
    except Exception as e:
        print(e)
        export_result = None
    else:
        export_result = c.key_export(pattern=None)

if export_result is not None:
    try:
        send_result = server.add(export_result)
    except:
        send_result = server.add(export_result.decode())
    if send_result is not None:
        print(send_result)
    else:
        pass
    except Exception as e:
        print(e)
else:
    pass

An expanded version of this script with additional functions for specifying an alternative homedir location is in the examples directory as =send-key-to-keyserver.py=.

The =hkp4py= module appears to handle both string and byte literal text data equally well, but the GPGME bindings deal primarily with byte literal data only and so this script sends in that format first, then tries the string literal form.

* Basic Functions

[[PROPERTIES]
 :CUSTOM_ID: howto-the-basics

```
The most frequently called features of any cryptographic library will be the most fundamental tasks for encryption software. In this section we will look at how to programmatically encrypt data, decrypt it, sign it and verify signatures.

** Encryption

Encrypting is very straightforward. In the first example below the message, `text`, is encrypted to a single recipient's key. In the second example the message will be encrypted to multiple recipients.

*** Encrypting to one key

Once the context is set the main issues with encrypting data is essentially reduced to key selection and the keyword arguments specified in the `gpg.Context().encrypt()` method.

Those keyword arguments are: `recipients=`, a list of keys encrypted to (covered in greater detail in the following section); `sign=`, whether or not to sign the plaintext data, see subsequent sections on signing and verifying signatures below (defaults to `True`=); `sink=`, to write results or partial results to a secure sink instead of returning it (defaults to `None`=); `passphrase=`, only used when utilising symmetric encryption (defaults to `None`=); `always_trust=`, used to override the trust model settings for recipient keys (defaults to `False`=); `add_encrypt_to=`, utilises any preconfigured `encrypt-to= or default-key= settings in the user's `gpg.conf` file (defaults to `False`=); `prepare=`, prepare for encryption (defaults to `False`=); `expect_sign=`, prepare for signing (defaults to `False`=); `compress=`, compresses the plaintext prior to encryption (defaults to `True`=).

```python
import gpg

a_key = "0x12345678DEADBEEF"

text = b"""Some text to test with.

Since the text in this case must be bytes, it is most likely that
the input form will be a separate file which is opened with "rb"
as this is the simplest method of obtaining the correct data format.

```python
import gpg

a_key = "0x12345678DEADBEEF"

with open("secret_plans.txt", "rb") as afile:
    text = afile.read()

c = gpg.Context(armor=True)
rkey = list(c.keylist(pattern=a_key, secret=False))
ciphertext, result, sign_result = c.encrypt(text, recipients=rkey, sign=True,
                                           always_trust=True,
                                           add_encrypt_to=True)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
```

Though this is even more likely to be used like this; with the
plaintext input read from a file, the recipient keys used for
equivalent regardless of key trust status and the encrypted output
also encrypted to any preconfigured keys set in the =gpg.conf= file:

```python
import gpg

a_key = "0x12345678DEADBEEF"

with open("secret_plans.txt", "rb") as afile:
    text = afile.read()

c = gpg.Context(armor=True)
rkey = list(c.keylist(pattern=a_key, secret=False))
ciphertext, result, sign_result = c.encrypt(text, recipients=rkey, sign=True,
                                           always_trust=True,
                                           add_encrypt_to=True)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
```

If the =recipients= parameter is empty then the plaintext is encrypted
symmetrically. If no =passphrase= is supplied as a parameter or via a
callback registered with the =Context()= then an out-of-band prompt
for the passphrase via pinentry will be invoked.

*** Encrypting to multiple keys

Encrypting to multiple keys essentially just expands upon the key
selection process and the recipients from the previous examples.
The following example encrypts a message (=text=) to everyone with an email address on the =gnupg.org= domain,[fn:4] but does /not/ encrypt to a default key or other key which is configured to normally encrypt to.

#+BEGIN_SRC python -i
import gpg

text = b"""Oh look, another test message.

The same rules apply as with the previous example and more likely than not, the message will actually be drawn from reading the contents of a file or, maybe, from entering data at an input() prompt.

Since the text in this case must be bytes, it is most likely that the input form will be a separate file which is opened with "rb" as this is the simplest method of obtaining the correct data format.

```python
for i in range(len(rpattern)):
    if rpattern[i].can_encrypt == 1:
        logrus.append(rpattern[i])

ciphertext, result, sign_result = c.encrypt(text, recipients=logrus, sign=False, always_trust=True)
```

All it would take to change the above example to sign the message and also encrypt the message to any configured default keys would be to change the =c.encrypt= line to this:

```python
result, sign_result = c.encrypt(text, recipients=logrus, always_trust=True, add_encrypt_to=True)
```

The only keyword arguments requiring modification are those for which
the default values are changing. The default value of =sign= is =True=, the default of =always_trust= is =False=, the default of =add_encrypt_to= is =False=.

If =always_trust= is not set to =True= and any of the recipient keys are not trusted (e.g. not signed or locally signed) then the encryption will raise an error. It is possible to mitigate this somewhat with something more like this:

```python
#+BEGIN_SRC python -i
import gpg

with open("secret_plans.txt.asc", "rb") as afile:
    text = afile.read()

c = gpg.Context(armor=True)
rpattern = list(c.keylist(pattern="@gnupg.org", secret=False))
logrus = []

for i in range(len(rpattern)):
    if rpattern[i].can_encrypt == 1:
        logrus.append(rpattern[i])

try:
    ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
                                                add_encrypt_to=True)
except gpg.errors.InvalidRecipients as e:
    for i in range(len(e.recipients)):
        for n in range(len(logrus)):
            if logrus[n].fpr == e.recipients[i].fpr:
                logrus.remove(logrus[n])
            else:
                pass

try:
    ciphertext, result, sign_result = c.encrypt(text,
                                                recipients=logrus,
                                                add_encrypt_to=True)
    with open("secret_plans.txt.asc", "wb") as afile:
        afile.write(ciphertext)
except:
    pass
#+END_SRC

This will attempt to encrypt to all the keys searched for, then remove invalid recipients if it fails and try again.

** Decryption
Decrypting something encrypted to a key in one's secret keyring is fairly straightforward.

In this example code, however, preconfiguring either `gpg.Context()` or `gpg.core.Context()` as `c` is unnecessary because there is no need to modify the Context prior to conducting the decryption and since the Context is only used once, setting it to `c` simply adds lines for no gain.

```python
import gpg
ciphertext = input("Enter path and filename of encrypted file: ")
newfile = input("Enter path and filename of file to save decrypted data to: ")

with open(ciphertext, "rb") as cfile:
    try:
        plaintext, result, verify_result = gpg.Context().decrypt(cfile)
    except gpg.errors.GPGMEError as e:
        plaintext = None
        print(e)

if plaintext is not None:
    with open(newfile, "wb") as nfile:
        nfile.write(plaintext)
else:
    pass
```

The data available in `plaintext` in this example is the decrypted content as a byte object, the recipient key IDs and algorithms in `result` and the results of verifying any signatures of the data in `verify_result`.

If `gpg.Context().decrypt(cfile, verify=False)` is called instead, then `verify_result` will be returned as `None` and the rest remains as described here.

** Signing text and files

```python
import gpg
```
The following sections demonstrate how to specify keys to sign with.

*** Signing key selection

By default GPGME and the Python bindings will use the default key configured for the user invoking the GPGME API. If there is no default key specified and there is more than one secret key available it may be necessary to specify the key or keys with which to sign messages and files.

```python
import gpg

logrus = input("Enter the email address or string to match signing keys to: ")
hancock = gpg.Context().keylist(pattern=logrus, secret=True)
sig_src = list(hancock)
```

The signing examples in the following sections include the explicitly designated =signers= parameter in two of the five examples; once where the resulting signature would be ASCII armoured and once where it would not be armoured.

While it would be possible to enter a key ID or fingerprint here to match a specific key, it is not possible to enter two fingerprints and match two keys since the pattern expects a string, bytes or None and not a list. A string with two fingerprints won't match any single key.

*** Normal or default signing messages or files

The normal or default signing process is essentially the same as is most often invoked when also encrypting a message or file. So when the encryption component is not utilised, the result is to produce an encoded and signed output which may or may not be ASCII armoured and which may or may not also be compressed.

By default compression will be used unless GnuPG detects that the plaintext is already compressed. ASCII armouring will be determined according to the value of =gpg.Context().armor=.
The compression algorithm is selected in much the same way as the symmetric encryption algorithm or the hash digest algorithm is when multiple keys are involved; from the preferences saved into the key itself or by comparison with the preferences with all other keys involved.

```python
import gpg
text0 = """Declaration of ... something.

==
text = text0.encode()

c = gpg.Context(armor=True, signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
```

Though everything in this example is accurate, it is more likely that reading the input data from another file and writing the result to a new file will be performed more like the way it is done in the next example. Even if the output format is ASCII armoured.

```python
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.sig", "wb") as afile:
    afile.write(signed_data)
```

*** Detached signing messages and files

Detached signatures will often be needed in programmatic uses of GPGME, either for signing files (e.g. tarballs of code releases) or as
a component of message signing (e.g. PGP/MIME encoded email).

```python
import gpg

text0 = """Declaration of ... something.

***
text = text0.encode()

c = gpg.Context(armor=True)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())

#END_SRC

As with normal signatures, detached signatures are best handled as
byte literals, even when the output is ASCII armoured.

```python
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context(signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.sig", "wb") as afile:
    afile.write(signed_data)

#END_SRC

*** Clearsigning messages or text

Though PGP/in-line messages are no longer encouraged in favour of
PGP/MIME, there is still sometimes value in utilising in-line
signatures. This is where clear-signed messages or text is of value.

```python
import gpg

text0 = """Declaration of ... something.

```
### Signature verification

**Signature verification**

Essentially there are two principal methods of verification of a signature. The first of these is for use with the normal or default signing method and for clear-signed messages. The second is for use with files and data with detached signatures.

The following example is intended for use with the default signing method where the file was not ASCII armoured:

```
** Signature verification

Essentially there are two principal methods of verification of a signature. The first of these is for use with the normal or default signing method and for clear-signed messages. The second is for use with files and data with detached signatures.

The following example is intended for use with the default signing method where the file was not ASCII armoured:

```
try:
    data, result = c.verify(open(gpg_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
{0}
with key {1}
made at {2}
".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
          time.ctime(sign.timestamp)))
else:
    pass

Whereas this next example, which is almost identical would work with normal ASCII armoured files and with clear-signed files:

```
#+BEGIN_SRC python -i
import gpg
import time

filename = "statement.txt"
asc_file = "statement.txt.asc"

c = gpg.Context()

try:
    data, result = c.verify(open(asc_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
{0}
with key {1}
made at {2}
".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
          time.ctime(sign.timestamp)))
else:
    pass

```

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 39064
In both of the previous examples it is also possible to compare the original data that was signed against the signed data in `data` to see if it matches with something like this:

```python
with open(filename, "rb") as afile:
    text = afile.read()
    if text == data:
        print("Good signature.")
    else:
        pass
```

The following two examples, however, deal with detached signatures. With his method of verification the data that was signed does not get returned since it is already being explicitly referenced in the first argument of `c.verify`. So `data` is `None` and only the information in `result` is available.

```python
import gpg
import time
filename = "statement.txt"
sig_file = "statement.txt.sig"
c = gpg.Context()
try:
    data, result = c.verify(open(filename), open(sig_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)
if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
        [0]
        with key {1}
        made at {2}
```
import gpg
import time

filename = "statement.txt"
asc_file = "statement.txt.asc"

c = gpg.Context()

try:
    data, result = c.verify(open(filename), open(asc_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
{0}
with key {1}
made at {2}
".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr, time.ctime(sign.timestamp)))
else:
    pass

* Creating keys and subkeys

The one thing, aside from GnuPG itself, that GPGME depends on, of course, is the keys themselves. So it is necessary to be able to generate them and modify them by adding subkeys, revoking or disabling them, sometimes deleting them and doing the same for user IDs.

In the following examples a key will be created for the world’s greatest secret agent, Danger Mouse. Since Danger Mouse is a secret
agent he needs to be able to protect information to =SECRET= level clearance, so his keys will be 3072-bit keys.

The pre-configured =gpg.conf= file which sets cipher, digest and other preferences contains the following configuration parameters:

```conf
#+BEGIN_SRC conf
expert
allow-freeform-uid
allow-secret-key-import
trust-model tofu+pgp
tofu-default-policy unknown
enable-large-rsa
enable-dsa2
cert-digest-algo SHA512
default-preference-list TWOFISH CAMELLIA256 AES256 CAMELLIA192 AES192 CAMELLIA128 AES
BLOWFISH IDEA CAST5 3DES SHA512 SHA384 SHA256 SHA224 RIPEMD160 SHA1 ZLIB BZIP2 ZIP Uncompressed
personal-cipher-preferences TWOFISH CAMELLIA256 AES256 CAMELLIA192 AES192 CAMELLIA128 AES
BLOWFISH IDEA CAST5 3DES
personal-digest-preferences SHA512 SHA384 SHA256 SHA224 RIPEMD160 SHA1
personal-compress-preferences ZLIB BZIP2 ZIP Uncompressed
#+END_SRC
```

** Primary key

:PROPERTIES:
:CUSTOM_ID: keygen-primary
:END:

Generating a primary key uses the =create_key= method in a Context. It contains multiple arguments and keyword arguments, including:
=userid=, =algorithm=, =expires_in=, =expires=, =sign=, =encrypt=, =certify=, =authenticate=, =passphrase= and =force=. The defaults for all of those except =userid=, =algorithm=, =expires_in=, =expires= and =passphrase= is =False=. The defaults for =algorithm= and =passphrase= is =None=. The default for =expires_in= is =0=. The default for =expires= is =True=. There is no default for =userid=.

If =passphrase= is left as =None= then the key will not be generated with a passphrase, if =passphrase= is set to a string then that will be the passphrase and if =passphrase= is set to =True= then gpg-agent will launch pinentry to prompt for a passphrase. For the sake of convenience, these examples will keep =passphrase= set to =None=.

```python -i
import gpg
```
c = gpg.Context()

c.home_dir = "~/.gnupg-dm"
userid = "Danger Mouse <dm@secret.example.net>"

dmkey = c.create_key(userid, algorithm="rsa3072", expires_in=31536000,
                     sign=True, certify=True)

One thing to note here is the use of setting the =c.home_dir= parameter. This enables generating the key or keys in a different location. In this case to keep the new key data created for this example in a separate location rather than adding it to existing and active key store data. As with the default directory, =~/.gnupg=, any temporary or separate directory needs the permissions set to only permit access by the directory owner. On posix systems this means setting the directory permissions to 700.

The =temp-homedir-config.py= script in the HOWTO examples directory will create an alternative homedir with these configuration options already set and the correct directory and file permissions.

The successful generation of the key can be confirmed via the returned =GenkeyResult= object, which includes the following data:

```python
print(""
Fingerprint: {0}
Primary Key: {1}
Public Key: {2}
Secret Key: {3}
Sub Key: {4}
User IDs: {5}
"".format(dmkey.fpr, dmkey.primary, dmkey.pubkey, dmkey.seckey, dmkey.sub,
          dmkey.uid))
```

Alternatively the information can be confirmed using the command line program:

```
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
~/.gnupg-dm/pubring.kbx
----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid           [ultimate] Danger Mouse <dm@secret.example.net>
```
As with generating keys manually, to preconfigure expanded preferences for the cipher, digest and compression algorithms, the =gpg.conf= file must contain those details in the home directory in which the new key is being generated. I used a cut down version of my own =gpg.conf= file in order to be able to generate this:

#+BEGIN_SRC shell
bash-4.4$ gpg --homedir ~/.gnupg-dm --edit-key 177B7C25DB99745EE2EE13ED026D2F19E99E63AA showpref quit
Secret key is available.

sec rsa3072/026D2F19E99E63AA
     trust: ultimate      validity: ultimate
   [ultimate] (1). Danger Mouse <dm@secret.example.net>

   [ultimate] (1). Danger Mouse <dm@secret.example.net>
     Cipher: TWOFISH, CAMELLIA256, AES256, CAMELLIA192, AES192, CAMELLIA128, AES, BLOWFISH, IDEA, CAST5, 3DES
     Digest: SHA512, SHA384, SHA256, SHA224, RIPEMD160, SHA1
     Compression: ZLIB, BZIP2, ZIP, Uncompressed
     Features: MDC, Keyserver no-modify

bash-4.4$
#+END_SRC

** Subkeys
:PROPERTIES:
:CUSTOM_ID: keygen-subkeys
:END:

Adding subkeys to a primary key is fairly similar to creating the primary key with the =create_subkey= method. Most of the arguments are the same, but not quite all. Instead of the =userid= argument there is now a =key= argument for selecting which primary key to add the subkey to.

In the following example an encryption subkey will be added to the primary key. Since Danger Mouse is a security conscious secret agent, this subkey will only be valid for about six months, half the length of the primary key.

#+BEGIN_SRC python -i
import gpg
c = gpg.Context()
c.home_dir = "~/.gnupg-dm"

key = c.get_key(dmkey.fpr, secret=True)
dmsub = c.create_subkey(key, algorithm="rsa3072", expires_in=15768000, encrypt=True)

As with the primary key, the results here can be checked with:

As well as on the command line with:

 bash-4.4$ gpg --homedir ~/.gnupg-dm -K
 ~/.gnupg-dm/pubring.kbx
 """"----------------------
 sec rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
 177B7C25DB99745EE2EE13ED026D2F19E99E63AA
 uid [ultimate] Danger Mouse <dm@secret.example.net>
 ssb rsa3072 2018-03-15 [E] [expires: 2018-09-13]

 bash-4.4$

** User IDs

 *** Adding User IDs

 ---
By comparison to creating primary keys and subkeys, adding a new user ID to an existing key is much simpler. The method used to do this is `key_add_uid` and the only arguments it takes are for the `key` and the new `uid`.

```python
import gpg

c = gpg.Context()
c.home_dir = "~/.gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
uid = "Danger Mouse <danger.mouse@secret.example.net>"

c.key_add_uid(key, uid)
```

Unsurprisingly the result of this is:

```shell
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid           [ultimate] Danger Mouse <danger.mouse@secret.example.net>
uid           [ultimate] Danger Mouse <dm@secret.example.net>
ssb  rsa3072 2018-03-15 [E] [expires: 2018-09-13]

bash-4.4$
```

*** Revoking User IDs

Revoking a user ID is a fairly similar process, except that it uses the `key_revoke_uid` method.

```python
import gpg

c = gpg.Context()
c.home_dir = "~/.gnupg-dm"
```
** Key certification

Since key certification is more frequently referred to as key signing, the method used to perform this function is `key_sign`.

The `key_sign` method takes four arguments: `key`, `uids`, `expires_in` and `local`. The default value of `uids` is `None` and which results in all user IDs being selected. The default value of both `expires_in` and `local` is `False`; which results in the signature never expiring and being able to be exported.

The `key` is the key being signed rather than the key doing the signing. To change the key doing the signing refer to the signing key selection above for signing messages and files.

If the `uids` value is not `None` then it must either be a string to match a single user ID or a list of strings to match multiple user IDs. In this case the matching of those strings must be precise and it is case sensitive.

To sign Danger Mouse's key for just the initial user ID with a signature which will last a little over a month, do this:

```python
#BEGIN_SRC python -i
import gpg
c = gpg.Context()
uid = "Danger Mouse <dm@secret.example.net>"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)
#END_SRC
```

*** Verifying key certifications

```python
#BEGIN_SRC python -i
import gpg
c = gpg.Context()
uid = "Danger Mouse <dm@secret.example.net>"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
c.key_revoke_uid(key, uid)
#END_SRC
```
Which for Danger Mouse displays the following:

```
#+BEGIN_EXAMPLE
0x92E3F6115435C65A  Thu Mar 15 13:17:44 2018  Danger Mouse <dm@secret.example.net>
0x321E4E2373590E5D  Mon Nov 26 12:46:05 2018  Ben McGinnes <ben@adversary.org>
#+END_EXAMPLE
```

The two key signatures listed are for the self-certification of Danger Mouse's key made when the key was created in March, 2018; and the second is a signature made by the author and set to expire at the end of the year. Note that the second signature was made with the following code (including the preceding code to display the output of the certifications or key signatures):

```
#+BEGIN_SRC python -i
import gpg
import math
import pendulum
import time

hd = "/home/dm/.gnupg"
c = gpg.Context()
d = gpg.Context(home_dir=hd)
dmuid = "Danger Mouse <dm@secret.example.net>"
dmkey = list(c.keylist(pattern=dmuid))

for sig in user.signatures:
    print("0x{0}".format(sig.keyid), ",", time.ctime(sig.timestamp), ",", sig.uid)
#+END_SRC
```
tp = pendulum.period(pendulum.now(tz="local"), pendulum.datetime(2019, 1, 1))
ts = tp.total_seconds()
total_secs = math.ceil(ts)
c.key_sign(dmkey, uids=dmuid, expires_in=total_secs)

d.key_import(c.key_export(pattern=dmuid))
keys = list(c.keylist(pattern=dmuid, mode=gpg.constants.keylist.mode.SIGS))
key = keys[0]

for user in key.uids:
    for sig in user.signatures:
        print("0x{0}".format(sig.keyid), ",", time.ctime(sig.timestamp), ",
        sig.uid)
    #+END_SRC

Note that this final code block includes the use of a module which is 
/not/ part of Python's standard library, the [[https://pendulum.eustace.io/][pendulum module]]. Unlike 
the standard datetime module, pendulum makes working with dates and 
times significantly easier in Python; just as the requests module 
makes working with HTTP and HTTPS easier than the builtin modules do.

Though neither requests nor pendulum are required modules for using 
the GPGME Python bindings, they are both highly recommended more 
generally.

* Advanced or Experimental Use Cases
  :PROPERTIES:
  :CUSTOM_ID: advanced-use
  :END:

** C plus Python plus SWIG plus Cython
  :PROPERTIES:
  :CUSTOM_ID: cython
  :END:

In spite of the apparent incongruence of using Python bindings to a C 
interface only to generate more C from the Python; it is in fact quite 
possible to use the GPGME bindings with [[http://docs.cython.org/en/latest/index.html][Cython]]. Though in many cases 
the benefits may not be obvious since the most computationally 
intensive work never leaves the level of the C code with which GPGME 
itself is interacting with.

Nevertheless, there are some situations where the benefits are 
demonstrable. One of the better and easier examples being the one of
the early examples in this HOWTO, the [[#howto-keys-counting][key counting]] code. Running that example as an executable Python script, =keycount.py= (available in the =examples/howto/= directory), will take a noticeable amount of time to run on most systems where the public keybox or keyring contains a few thousand public keys.

Earlier in the evening, prior to starting this section, I ran that script on my laptop; as I tend to do periodically and timed it using =time= utility, with the following results:

```
#+BEGIN_SRC shell
bash-4.4$ time keycount.py
Number of secret keys:  23
Number of public keys:  12112
real 1m52.945s
user 0m0.913s
sys  0m0.752s
bash-4.4$
#+END_SRC
```

Sometime after that I imported another key and followed it with a little test of Cython. This test was kept fairly basic, essentially lifting the material from the [[http://docs.cython.org/en/latest/src/tutorial/cython_tutorial.html][Cython Basic Tutorial]] to demonstrate compiling Python code to C. The first step was to take the example key counting code quoted previously, essentially from the importing of the =gpg= module to the end of the script:

```
#+BEGIN_SRC python -i
import gpg

c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)

seclist = list(seckeys)
secnum = len(seclist)
publist = list(pubkeys)
pubnum = len(publist)

print("\nNumber of secret keys:  \{0\}
Number of public keys:  \{1\}\n")
```
Save that into a file called =keycount.pyx= and then create a =setup.py= file which contains this:

```python
from distutils.core import setup
from Cython.Build import cythonize
setup(
    ext_modules = cythonize("keycount.pyx")
)
```

Compile it:

```shell
bash-4.4$ python setup.py build_ext --inplace
bash-4.4$
```

Then run it in a similar manner to =keycount.py=:

```shell
bash-4.4$ time python3.7 -c "import keycount"
Number of secret keys:  23
Number of public keys:  12113
real	6m47.905s
user	0m0.785s
sys	0m0.331s
bash-4.4$
```

Cython turned =keycount.pyx= into an 81KB =keycount.o= file in the =build/= directory, a 24KB =keycount.cpython-37m-darwin.so= file to be imported into Python 3.7 and a 113KB =keycount.c= generated C source code file of nearly three thousand lines.  Quite a bit bigger than the 314 bytes of the =keycount.pyx= file or the full 1,452 bytes of the full executable =keycount.py= example script.

On the other hand it ran in nearly half the time; taking 6 minutes and 47.905 seconds to run.  As opposed to the 11 minutes and 52.945 seconds...
which the CPython script alone took.

The `keycount.pyx` and `setup.py` files used to generate this example have been added to the `examples/howto/advanced/cython/` directory. The example versions include some additional options to annotate the existing code and to detect Cython's use. The latter comes from the [[http://docs.cython.org/en/latest/src/tutorial/pure.html#magic-attributes-within-the-pxd][Magic Attributes]] section of the Cython documentation.

* Miscellaneous extras and work-arounds

Most of the things in the following sections are here simply because there was no better place to put them, even though some are only peripherally related to the GPGME Python bindings. Some are also workarounds for functions not integrated with GPGME as yet. This is especially true of the first of these, dealing with the [[#group-lines][group lines]].

** Group lines

There is not yet an easy way to access groups configured in the gpg.conf file from within GPGME. As a consequence these central groupings of keys cannot be shared amongst multiple programs, such as MUAs readily.

The following code, however, provides a work-around for obtaining this information in Python.

```python
if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-options gpg"
else:
    gpgconfcmd = "gpgconf --list-options gpg"

process = subprocess.Popen(gpgconfcmd.split(), stdout=subprocess.PIPE)
procom = process.communicate()
if sys.version_info[0] == 2:
    # Code continuation...
```
lines = procom[0].splitlines()
else:
    lines = procom[0].decode().splitlines()

for line in lines:
    if line.startswith("group") is True:
        break

groups = line.split(":")[1].split("").replace(",", ").split("")

group_lines = []
group_lists = []

for group in groups:
    group_lines.append(group.split("="))
group_lists.append(group.split("="))

for glist in group_lists:
    glist[1] = glist[1].split()

#END_SRC

The result of that code is that =group_lines= is a list of lists where
=group_lines[i][0]= is the name of the group and =group_lines[i][1]=
is the key IDs of the group as a string.

The =group_lists= result is very similar in that it is a list of
lists. The first part, =group_lists[i][0]= matches
=group_lines[i][0]= as the name of the group, but =group_lists[i][1]=
is the key IDs of the group as a list.

A demonstration of using the =groups.py= module is also available in
the form of the executable =mutt-groups.py= script. This second
script reads all the group entries in a user's =gpg.conf= file and
converts them into crypt-hooks suitable for use with the Mutt and
Neomutt mail clients.

** Keyserver access for Python

:PROPERTIES:
:CUSTOM_ID: hkp4py
:END:

The [[https://github.com/Selfnet/hkp4py][hkp4py]] module by Marcel Fest was originally a port of the old
[[https://github.com/dgladkov/python-hkp][python-hkp]] module from Python 2 to Python 3 and updated to use the
[[http://docs.python-requests.org/en/latest/index.html][requests]] module instead. It has since been modified to
provide support for Python 2.7 as well and is available via PyPI.
Since it rewrites the =hkp= protocol prefix as =http= and =hkps= as =https=, the module is able to be used even with servers which do not support the full scope of keyservers functions.[fn:5]  It also works quite readily when incorporated into a [[#cython][Cython]] generated and compiled version of any code.

*** Key import format

The hkp4py module returns key data via requests as string literals (=r.text=) instead of byte literals (=r.content=). This means that the returned key data must be encoded to UTF-8 when importing that key material using a =gpg.Context().key_import()= method.

For this reason an alternative method has been added to the =search= function of =hkp4py.KeyServer()= which returns the key in the correct format as expected by =key_import=. When importing using this module, it is now possible to import with this:

```python
for key in keys:
    if key.revoked is False:
        gpg.Context().key_import(key.key_blob)
    else:
        pass
```

Without that recent addition it would have been necessary to encode the contents of each =hkp4py.KeyServer().search()[i].key= in =hkp4py.KeyServer().search()= before trying to import it.

An example of this is included in the [[#howto-import-key][Importing Keys]] section of this HOWTO and the corresponding executable version of that example is available in the =lang/python/examples/howto= directory as normal; the executable version is the =import-keys-hkp.py= file.

** GPGME version checking

For various reasons it may be necessary to check which version of GPGME the bindings have been built against; including whether a minimum required version of GPGME is in use.
For the most part the =gpg.version.versionstr= and 
=gpg.version.versionlist= methods have been quite sufficient. The 
former returns the same string as =gpgme-config --version=, while the 
latter returns the major, minor and patch values in a list.

To check if the installed bindings have actually been built against 
the current installed libgpgme version, this check can be performed:

```python
import gpg
import subprocess
import sys

gpgme_version_call = subprocess.Popen(["gpgme-config", "--version"],
    stdout=subprocess.PIPE,
    stderr=subprocess.PIPE)
gpgme_version_str = gpgme_version_call.communicate()

if sys.version_info[0] == 2:
    gpgme_version = gpgme_version_str[0].strip()
elif sys.version_info[0] >= 3:
    gpgme_version = gpgme_version_str[0].decode().strip()
else:
    gpgme_version = None

if gpgme_version is not None:
    if gpgme_version == gpg.version.versionstr:
        print("The GPGME Python bindings match libgpgme.")
    else:
        print("The GPGME Python bindings do NOT match libgpgme.")
else:
    print("Upgrade Python and reinstall the GPGME Python bindings.")
```

For many developers, however, the preferred checking means checking 
for a minimum version or point release. This is now readily available 
via the =gpg.version.versionintlist= method (added in version 
=1.12.1-beta79=). It is also now possible to easily check whether the 
installed GPGME Python bindings were built from a development or beta 
branch of the GPGME source code.

The following code demonstrates how both of those methods may be used:

```python
import gpg

try:
    gpgme_version_call = subprocess.Popen(["gpgme-config", "--version"],
        stdout=subprocess.PIPE,
        stderr=subprocess.PIPE)
    gpgme_version_str = gpgme_version_call.communicate()
    gpgme_version = gpgme_version_str[0].strip()
    if gpgme_version == gpg.version.versionstr:
        print("The GPGME Python bindings match libgpgme.")
    else:
        print("The GPGME Python bindings do NOT match libgpgme.")
    else:
        print("Upgrade Python and reinstall the GPGME Python bindings.")
```

```python
import gpg
import subprocess
import sys

gpgme_version_call = subprocess.Popen(["gpgme-config", "--version"],
    stdout=subprocess.PIPE,
    stderr=subprocess.PIPE)
gpgme_version_str = gpgme_version_call.communicate()

if sys.version_info[0] == 2:
    gpgme_version = gpgme_version_str[0].strip()
elif sys.version_info[0] >= 3:
    gpgme_version = gpgme_version_str[0].decode().strip()
else:
    gpgme_version = None

if gpgme_version is not None:
    if gpgme_version == gpg.version.versionstr:
        print("The GPGME Python bindings match libgpgme.")
    else:
        print("The GPGME Python bindings do NOT match libgpgme.")
else:
    print("Upgrade Python and reinstall the GPGME Python bindings.")
```

```python
import gpg
import subprocess
import sys

gpgme_version_call = subprocess.Popen(["gpgme-config", "--version"],
    stdout=subprocess.PIPE,
    stderr=subprocess.PIPE)
gpgme_version_str = gpgme_version_call.communicate()

if sys.version_info[0] == 2:
    gpgme_version = gpgme_version_str[0].strip()
elif sys.version_info[0] >= 3:
    gpgme_version = gpgme_version_str[0].decode().strip()
else:
    gpgme_version = None

if gpgme_version is not None:
    if gpgme_version == gpg.version.versionstr:
        print("The GPGME Python bindings match libgpgme.")
    else:
        print("The GPGME Python bindings do NOT match libgpgme.")
else:
    print("Upgrade Python and reinstall the GPGME Python bindings.")
```
if gpg.version.is_beta is True:
    print("The installed GPGME Python bindings were built from beta code.")
else:
    print("The installed GPGME Python bindings are a released version.")
except Exception as e:
    print(e)

try:
    if gpg.version.versionintlist[0] == 1:
        if gpg.version.versionintlist[1] == 12:
            if gpg.version.versionintlist[2] == 1:
                print("This is the minimum version for using versionintlist.")
            elif gpg.version.versionintlist[2] > 1:
                print("The versionintlist method is available.")
            else:
                pass
        elif gpg.version.versionintlist[1] > 12:
            print("The versionintlist method is available.")
        else:
            pass
    elif gpg.version.versionintlist[0] > 1:
        print("The versionintlist method is available.")
    else:
        pass
except Exception as e:
    print(e)

The points where =pass= is used in the above example will most likely also produce an =Exception= error since those results should only occur in versions which do not have the =gpgme.version.is_beta= and =gpgme.version.versionintlist= methods available.

* Copyright and Licensing
 :PROPERTIES:
 :CUSTOM_ID: copyright-and-license
 :END:

** Copyright
 :PROPERTIES:
 :CUSTOM_ID: copyright
 :END:

Copyright  The GnuPG Project, 2018.
** Draft Editions of this HOWTO

:PROPERTIES:
:CUSTOM_ID: draft-editions
:END:

Draft editions of this HOWTO may be periodically available directly from the author at any of the following URLs:

- [https://files.au.adversary.org/crypto/gpgme-python-howto.html][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 SSL)]
- [http://files.au.adversary.org/crypto/gpgme-python-howto.html][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 no SSL)]
- [https://files.au.adversary.org/crypto/gpgme-python-howto-split/index.html][GPGME Python Bindings HOWTO draft (HTML multiple files, AWS S3 SSL)]
- [http://files.au.adversary.org/crypto/gpgme-python-howto/index.html][GPGME Python Bindings HOWTO draft (HTML multiple files, AWS S3 no SSL)]

These draft versions have been generated from this document via GNU Emacs [https://orgmode.org]/[Org mode] to .texi and [https://www.gnu.org/software/texinfo][GNU Texinfo] to HTML. Though it is likely that the specific [https://files.au.adversary.org/crypto/gpgme-python-howto][file] [http://files.au.adversary.org/crypto/gpgme-python-howto.org][version] used will be on the same server with the generated output formats. Occasionally I may include the Org mode generated XHTML versions:

- [https://files.au.adversary.org/crypto/gpgme-python-howto.xhtml][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 SSL)]
- [http://files.au.adversary.org/crypto/gpgme-python-howto.xhtml][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 no SSL)]

That XHTML version, however, is exported in a way which inherits a colour scheme from [https://github.com/holomorph/emacs-zenburn][the author's Emacs theme] (which is a higher contrast version of [http://kippura.org/zenburnpage/][Zenburn] ported by [https://github.com/holomorph][Holomorph]). So it's fine for people who prefer dark themed web pages, but not so great for everyone else.

The GNU Texinfo and reStructured Text versions ship with the software, while the GNU Emacs Info version is generated from the Texinfo version using GNU Texinfo or GNU Makeinfo. The Texinfo format is generated from the original Org mode source file in Org mode itself either within GNU Emacs or via the command line by invoking Emacs in batch mode:

#+BEGIN_SRC shell
  emacs gpgme-python-howto.org --batch -f org-texinfo-export-to-texinfo --kill
  emacs gpgme-python-howto --batch -f org-texinfo-export-to-texinfo --kill
#+END_SRC
The reStructuredText format is also generated from the Org mode source file, except it is generated using [https://pandoc.org][Pandoc] with either of the following commands (depending on the filename):

```bash
#+BEGIN_SRC shell
pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto.org
pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto
#+END_SRC
```

Note that the Org mode source files are identified as such via a mode line at the top of each file and have had their =.org= file extensions dropped in order to make scripted generation of output formats easier and not require renaming files post-conversion.

Due to a bug in Org mode's texinfo conversion method, the recommended steps for generating the Texinfo files for all the files in the =lang/python/doc/src/= directory are as follows:

```bash
#+BEGIN_SRC shell
for x in * ; do
  emacs $x --batch -f org-texinfo-export-to-texinfo --kill
cat $x.texi | sed -e 's/@documentencoding UTF-8/@documentencoding utf-8/g' > ./texinfo/$x.texi
  pandoc -f org -t rst+smart -o ../rst/$x.rst $x
done ;
rm -fv *.texi
cd ../texinfo
mkdir info
mkdir html
for x in *.texi ; do
  makeinfo --v $x
  makeinfo --html --no-split $x
done ;
mv *.info info/
mv *.html html/
#+END_SRC
```

This code snippet includes the generation of the reStructuredText files and would be expected to be run from the =doc/src/= directory containing the Org mode source files. It also assumes that the commands are being run on POSIX compliant systems with basic tools like sed, the Bourne shell and GNU Emacs[fn:6] available. The code snippet also includes the steps for generating the Emacs Info files and HTML files from the Texinfo files. Using reStructuredText files with Sphinx is best left for the documentation of that project.

In addition to these there is a significantly less frequently updated version as a HTML [https://files.au.adversary.org/crypto/gpgme-python/dita/webhelp/index.html][WebHelp site]
Various generated output formats may occasionally be found in subdirectories of the [https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python][gpgme-python] directory. In particular within the [https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/dita][DITA], [https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/rst][reStructuredText] and [https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/texinfo][Texinfo] subdirectories. The =rst= directory contains output files generated with Sphinx and may include a considerable number of its possible output formats, but there are no guarantees as to how recent these are or even if they are present.

These draft editions are not official documents and the version of documentation in the master branch or which ships with released versions is the only official documentation. Nevertheless, these draft editions may occasionally be of use by providing more accessible web versions which are updated between releases. They are provided on the understanding that they may contain errors or may contain content subject to change prior to an official release.

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* Footnotes

[fn:1] =short-history= and/or =short-history.html=.

[fn:2] With no issues reported specific to Python 3.7, the release of Python 3.7.1 at around the same time as GPGME 1.12.0 and the testing with Python 3.7.1rc1, there is no reason to delay moving 3.7 ahead of 3.6 now. Production environments with more conservative requirements
will always enforce their own policies anyway and installation to each supported minor release is quite possible too.

[fn:3] Yes, even if you use virtualenv with everything you do in Python. If you want to install this module as just your user account then you will need to manually configure, compile and install the /entire/ GnuPG stack as that user as well. This includes libraries which are not often installed that way. It can be done and there are circumstances under which it is worthwhile, but generally only on POSIX systems which utilise single user mode (some even require it).

[fn:4] You probably don't really want to do this. Searching the keyservers for "gnupg.org" produces over 400 results, the majority of which aren't actually at the gnupg.org domain, but just included a comment regarding the project in their key somewhere.

[fn:5] Such as with ProtonMail servers. This also means that restricted servers which only advertise either HTTP or HTTPS end points and not HKP or HKPS end points must still be identified as as HKP or HKPS within the Python Code. The =hkp4py= module will rewrite these appropriately when the connection is made to the server.

[fn:6] Okay, Emacs might not necessarily qualify as a basic tool, but it is common enough that having it installed on a system isn't too great an expectation, nor is it difficult to add to most POSIX systems, even if the users of those systems do not personally use it.

;;; Copyright (C) 2006 g10 Code GmbH
;;; This file is part of GPGME.
;;
;;; GPGME is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.
;;
;;; GPGME is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.
;;
;;; You should have received a copy of the GNU Lesser General Public License along with GPGME; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

(defpackage #:gpgme-system
The contents of this directory are the examples included in the /GNU Privacy Guard (GnuPG) Made Easy Python Bindings HOWTO/ file. Each script is explicitly for Python 3 and specifically for Python 3.4 or later.

Some of these scripts may work with Python 2.7, but there are no guarantees. They will include the relevant imports from the __future__ module to facilitate that if possible.
Unless otherwise stated, all the examples in this directory are released under the same terms as GPGME itself; that is they are dual licensed under the terms of both the GNU General Public License version 2.0 (or any later version) *and* the GNU Lesser General Public License version 2.1 (or any later version).

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GNU Privacy Guard (GnuPG) Made Easy Python Bindings

GPGME Python Bindings

* Contents:

@end detailmenu
@end menu

@node GPGME Python Bindings
@chapter GPGME Python Bindings

@menu
* Contents:
@end menu

@node Contents
@section Contents

@itemize
@item
@uref{short-history, A short history of the project}
@item
@uref{what-is-new, What's New}
@itemize
@item
@uref{maintenance-mode, Maintenance Mode} (from January, 2019)
@end itemize
@item
@uref{what-was-new, What Was New}
@item
@uref{gpgme-python-howto, GPGME Python Bindings HOWTO}
@end itemize

@end itemize

@end ifnotex
;;; This file is part of GPGME-CL.
;;;
;;; GPGME-CL is free software; you can redistribute it and/or modify
;;; it under the terms of the GNU General Public License as published
;;; by the Free Software Foundation; either version 2 of the License,
;;; or (at your option) any later version.
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

;;; Conventions:

;;; gpg-error is used for error handling.

;;; Standard I/O streams are used for input and output.

(defun #:gpgme
  (:use #:common-lisp #:cffi #:gpg-error)
  (:import-from #:trivial-garbage
    #:finalize)
  (:export #:check-version
    #:*version*
    #:context
    #:protocol
    #:armorp
    #:textmodep
    #:include-certs-default+
    #:include-certs
    #:keylist-mode
    #:signers
    #:sig-notations
    #:with-context
    #:key-data
    #:get-key
    #:op-encrypt
    #:op-decrypt
    #:op-sign
    #:op-verify
    #:op-import
    #:op-export))
NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-05-12 Marcus Brinkmann <marcus@g10code.com>

* gpgme.texi (I/O Callback Example): Fix example code.

* gpgme.texi (Generating Keys): Fix OpenPGP parameters and reference GPG and GPGSM manual.

2010-01-05 Werner Koch <wk@g10code.com>

* gpgme.texi (Changing Passphrases): New.

2009-07-21 Werner Koch <wk@g10code.com>

* uiserver.texi (UI Server Encrypt): Add --expect-sign option to PREP_ENCRYPT.

2009-06-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Result Management): New section.

2009-06-16 Werner Koch <wk@g10code.com>

* gpgme.texi (Exporting Keys): Document gpgme_op_export_keys.
  (Data Buffer Meta-Data): Document URL encodings.

2009-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Document selftest error.
  (Creating Contexts): Likewise.

2009-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document
  GPGME_ENCRYPT_NO_ENCRYPT_TO.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Information): Replace path by file_name.

2008-11-28 Werner Koch <wk@g10code.com>
* gpgme.texi (Listing Keys): Change description of the return value to match the code. Spotted by Colin Leroy.

2008-10-15 Werner Koch <wk@g10code.com>

* uiserver.texi (Miscellaneous UI Server Commands): Add option --protocol to the SENDER command.

2008-07-17 Werner Koch <wk@g10code.com>

* module-overview.sk: New.

2008-07-04 Werner Koch <wk@g10code.com>

* gpgme.texi (Algorithms): Add a hint on symmetric only encryption.

2008-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Cancellation): Document gpgme_cancel_async.

2008-06-25 Werner Koch <wk@g10code.com>

* gpgme.texi (Listing Keys): Updated example to the current API. Noted by Nico Schottelius.

2008-06-05 Werner Koch <wk@g10code.com>

* uiserver.texi (Miscellaneous UI Server Commands): Describe START_CONFIDIALOG.

2008-06-04 Werner Koch <wk@g10code.com>

* gpgme.texi: Use @copying command. Change license to GPLv3. Include protocol specis from GpgOL and GPGEx. Minor cleanups.

2008-03-11 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (File Based Data Buffers): Document the need for blocking operations. (Callback Based Data Buffers): Likewise.

2008-03-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Rename snippet function to init_gpgme. (I/O Callback Example): Call it here.
2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Document that data encoding affects some output data objects now.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Protocols and Engines): Document GPGME_PROTOCOL_UNKNOWN.

2007-09-11 Werner Koch <wk@g10code.com>

* gpgme.texi (I/O Callback Example): Typo fix.

2007-08-07 Werner Koch <wk@g10code.com>

* gpgme.texi (Verify): Describe chain_model.

2007-07-12 Werner Koch <wk@g10code.com>

* gpgme.texi (Library Version Check): Add remark that the socket layer will get initialized.

2007-06-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Advanced Key Editing): New section.

2007-05-21 Werner Koch <wk@g10code.com>

* Makefile.am (online): New target.

2007-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Fix documentation of gpgme_strerror_r.

2006-11-01 Moritz Schulte <moritz@g10code.com>

* gpgme.texi (Data Buffer I/O Operations): Fixed entry for gpgme_data_seek: OFFSET is not a pointer; some s/whence/offset/.

2006-09-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Destroying Data Buffers): Clarify that gpgme_data_release_and_get_mem destroys DH unconditionally.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>
* gpgme.texi (Library Version Check): Make example code compatible to W32 systems.

2006-06-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix inverted condition in description.

2005-12-20 Werner Koch <wk@g10code.com>

* gpgme.texi (Verify): Document pka_trust.

2005-12-06 Werner Koch <wk@g10code.com>

* gpgme.texi (Key Management): Updated to match the fixes for subkey fingerprints and the secret flag.

2005-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Destroying Data Buffers): Document gpgme_free.

2005-10-02 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Add the new member notations of gpgme_sig_key_t.
(Key Listing Mode): Document GPGME_KEYLIST_MODE_SIG_NOTATIONS.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Enclose all return parameters of deftypefuns in curly brackets.

* gpgme.texi (Signature Notation Data): New section.
(Verify): Added more about the notation data structure.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Data Buffer I/O Operations, Data Buffer Meta-Data): New subsections.

* gpgme.texi: Replace plaintext_filename with file_name.

* gpgme.texi (Key Management): Document is_qualified.

2005-07-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Decrypt): Add plaintext_filename to gpgme_decrypt_result_t.
(Verify): Likewise for gpgme_verify_result_t.

2005-06-03 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Verify): Add information about new fields in gpgme_signature_t.

* gpgme.texi (Decrypt): Add gpgme_recipient_t.

2005-05-28 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Fix return type of gpgme_set_keylist_mode.
  Reported by "Sergio" <ml_sergico@virgilio.it>.

2005-04-28 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Included Certificates): Document GPGME_INCLUDE_CERTS_DEFAULT.

2005-01-12 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Engine Configuration): New section.
  (Crypto Engine): New subsection.

2004-12-07 Marcus Brinkmann  <marcus@g10code.de>

* lesser.texi (Library Copying): Change from @appendixsec to @appendix.
* gpgme.texi (Features): Change reference to GPL to one to LGPL.

* Makefile.am: Change license to LGPL.
  (gpgme_TEXINFOS): Replace gpl.texi with lesser.texi.

* gpgme.texi: Change license to LGPL (also for documentation of GPGME's license).
  * gpl.texi: File removed.

* gpgme.texi (Creating Contexts): Fix cut&paste error. Reported by Noel Torres <envite@rolamasao.org>.

2004-09-30 Marcus Brinkmann  <marcus@g10code.de>

* Makefile.am (gpgme_TEXINFOS): Remove fdl.texi.
* gpgme.texi: Do not include fdl.texi. Change license to GPL.
* fdl.texi: File removed.
2004-09-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Change type of keylist_mode in gpgme_key_t to gpgme_keylist_mode_t.

2004-09-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix last change.

2004-09-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Document GPG_ERR_NOT_IMPLEMENTED.

* gpgme.texi: Update copyright year for tex version.

2004-07-29 Moritz Schulte <moritz@g10code.com>

* gpgme.texi (Verify): Fix gpgme_get_key example (ancient force_update argument was still there).

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Elaborate on the length restrictions on search patterns.

* gpgme.texi (Decrypt and Verify): Document the NO_DATA error code.

(Verify): Document the relationship between gpgme_op_verify_result and the decrypt and verify operations.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.text (Verify): Document GPG_ERR_CERT_REVOKED status.

* gpgme.texi (Decrypt): Add note about new field wrong_key_usage of gpgme_decrypt_result_t.

* gpgme.texi (Key Management): Add note about new field keylist_mode of gpgme_key_t.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Correct type of member wrong_key_usage.

2004-03-29 Moritz Schulte <moritz@duesseldorf.ccc.de>

* gpgme.texi (Verify): Fix type of gpgme_op_verify_result.
* gpgme.texi (Key Listing Mode): Typo fix.

2004-03-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Fix the instruction when to set the locale.

2004-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (I/O Callback Example Qt): New section by Marc Mutz.

2004-02-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (cancellation): New section.

2004-02-17 Werner Koch <wk@gnupg.org>

* gpgme.texi (Key Listing Mode): Doc KEYLIST_MODE_VALIDATE.

2004-02-06 Moritz Schulte <mo@g10code.com>

* gpgme.texi: A couple of small fixes regarding the Largefile Support section.

2004-02-01 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Largefile Support): New section.

2004-01-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Fix exportable field.

2003-12-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Rename member class in gpgme_key_sig_t to sig_class.
(Creating a Signature): Likewise for gpgme_signature_t.

2003-12-23 Moritz Schulte <mo@g10code.com>

* gpgme.texi (Listing Keys): Minor clarification for gpgme_get_key.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Signal Handling): New section.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>
* gpgme.texi (Multi Threading): Correct documentation on memory synchronization requirement.

* gpgme.texi (Locale): New section.
(Multi Threading): Set locale in example.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Add gpgme_strerror_r.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Update documentation.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Header): We don't use the assuan namespace anymore. Document new thread options.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Change type of member class to unsigned int.

2003-08-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Get error code from SIG->status in the code for gpgme_get_sig_status.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Add can_authenticate flag.

* gpgme.texi (Listing Keys): Document GPG_ERR_AMBIGUOUS_NAME for gpgme_get_key.

2003-07-29 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (EXTRA_DIST): Remove variable.

* gpgme.texi (Encrypting a Plaintext): Bad passphrase is only possible with symmetric encryption, change the wording to reflect that.

* gpgme.texi (Creating a Signature): Document GPG_ERR_UNUSABLE_SECKEY.
* gpgme.texi (Encrypting a Plaintext): Mention encrypt and sign operations in result function.
   (Creating a Signature): Likewise.

2003-07-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Remove word duplication.
  (Listing Keys): Remove mentioning of force argument.
  (Verify): Don't mention r_stat. Fix some typos.
  (Decrypt and Verify): Correct info how to get the result. Don't mention r_stat.
  (Manipulating Data Buffers): Fix documentation of return value.
  (Listing Keys): Update examples.
  (Decrypt): Result might also be available when operation failed.
  (Verify): Result might also be available when operation failed.
All spotted by Stphane Corthsy.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Sources): Fix cut and paste error.

2003-07-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Clarify difference between can_sign and can_certify.
  (Information About Keys): Likewise for GPGME_ATTR_CAN_SIGN and GPGME_ATTR_CAN_CERTIFY.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Progress Meter Callback): Change return type of gpgme_progress_cb_t to void.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Add 2003 to copyright notice.

* gpgme.texi (Header): Fix name space documentation on libgpg-error.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Remove reference to gpgme_recipients_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Crypto Operations): Rename gpgme_invalid_user_id_t
to gpgme_invalid_key_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Change error codes to GPG_ERR_* variants.
  (Error Handling): Rewritten.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Exporting Keys): Change and document prototypes.
  Add new gpgme_op_export_ext and gpgme_op_export_ext_start
  variants.
  (Selecting Recipients): Section removed.
  (Encrypting a Plaintext): Change prototypes and document the
  changes.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Exporting Keys): Change argument type from
  gpgme_recipient_t to gpgme_user_id_t.
  (Encrypting a Plaintext): Likewise.
  (Selecting Recipients): Rewritten.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Protocol Selection): Do not use @acronym in @node
  because that breaks texi2dvi.

* gpgme.texi (Passphrase Callback): Document new prototype.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Header): Remove Gpgme as namespace prefix. Add
  _GPGME to namespace prefix.
  * gpgme.texi (Multi Threading): Add note about link order.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Document what happens if key is not
  found.

* gpgme.texi (Importing Keys): Fix cut and paste error.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Remove reference to
  gpgme_get_op_info.
  (Detailed Results): Subsection removed.
* gpgme.texi (Key Listing Mode): Add GPGME_KEYLIST_MODE_SIGS.
  (Manipulating Keys): Add obsoleteness note.
  (Key Signatures): Likewise.
  (Information About Keys): Likewise.
  (Key Management): Add new data types GpgmeSubkey, GpgmeKeySig,
  GpgmeUserID, and all the information about GpgmeKey.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Remove force_update argument from
  gpgme_get_key.

* gpgme.texi (Trust Item Management): Add data members of
  GpgmeTrustItem type.
  (Information About Trust Items): Add note about obsoleteness.
  (Manipulating Trust Items): Add gpgme_trust_item_ref and
  gpgme_trust_item_unref.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Rewritten to take into account new and
  deprecated functions and data types.

* gpgme.texi (Decrypt): Descript gpgme_op_decrypt_result and
  GpgmeDecryptResult.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Add info about
  GpgmeEncryptResult and gpgme_op_encrypt_result.

* gpgme.texi (Creating a Signature): Add info about
  GpgmeNewSignature, GpgmeSignResult and gpgme_op_sign_result.
  (Crypto Operations): Add GpgmeInvalidUserID.

* gpgme.texi (Deleting Keys): Document
  GPGME_Ambiguous_Specification.
  (Error Values): Remove GPGME_Invalid_Type and GPGME_Invalid_Mode.
  Add GPGME_Unknown_Reason, GPGME_Not_Found,
  GPGME_Ambiguous_Specification, GPGME_Wrong_Key_Usage,
  GPGME_Key_Revoked, GPGME_Key_Expired, GPGME_No_CRL_Known,
  GPGME_CRL_Too_Old, GPGME_Policy_Mismatch, GPGME_No_Secret_Key,
  GPGME_Key_Not_Trusted, GPGME_Issuer_Missing, GPGME_Chain_Too_Long,
  GPGME_Unsupported_Algorithm, GPGME_Sig_Expired,
  GPGME_Bad_Signature, GPGME_No_Public_Key.
2003-04-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Change GPGME_IMPORT_PRIVATE to GPGME_IMPORT_SECRET.

* gpgme.texi (Importing Keys): Remove note about gpgme_get_op_info.
  (Detailed Results): Remove note about import.

* gpgme.texi (Importing Keys): Add documentation for GpgmeImportStatus, GpgmeImportResult and gpgme_op_import_result.

* gpgme.texi (Generating Keys): Fix documentation of public and secret arguments.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>


* gpgme.texi (Error Values): Rename GPGME_No_Passphrase to GPGME_Bad_Passphrase.
  * gpgme.texi (Decrypt): Likewise.
    (Decrypt and Verify): Likewise.
    (Creating a Signature): Likewise.
    (Encrypting a Plaintext): Likewise.

* gpgme.texi (Error Values): Rename GPGME_No_Recipients to GPGME_No_UserID and GPGME_Invalid_Recipient to GPGME_Invalid_UserID.
  (Encrypting a Plaintext): Likewise.

* gpgme.texi (Error Values): Remove GPGME_Busy and GPGME_No_Request.
  (Listing Keys): Likewise.
  (Listing Trust Items): Likewise.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Cancelling an Operation): Removed.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Information): Rename member part to file_name.

* gpgme.texi (Protocols and Engines): Document gpgme_get_protocol_name.
* gpgme.texi (Engine Information): Rewritten.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (I/O Callback Interface): Document new even
  GPGME_EVENT_START.
  (Waiting For Completion): Document new possible return values.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Hooking Up Into Idle Time): Section removed.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Drop R_STAT argument in gpgme_op_verify.
  * gpgme.texi (Decrypt and Verify): Likewise for
gpgme_op_decrypt_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Document that
  GPGME_ATTR_IS_SECRET is not representable as a string anymore.

2002-12-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Signatures): New section.
  (Listing Keys): Add gpgme_get_key.

2002-12-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Memory Based Data Buffers): New subsection.
  (File Based Data Buffers): Likewise.
  (Callback Based Data Buffers): Likewise.
  (Manipulating Data Buffers): Update interfaces. Add
gpgme_data_seek.
  * gpgme.texi (Engine Version Check): Remove gpgme_check_engine.

2002-11-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Document the new interface.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document new argument to
gpgme_op_genkey.
* gpgme.texi (Verify): Fix prototype of gpgme_get_sig_key. Reported by Miguel Coca <e970095@zipi.fi.upm.es>.

* gpgme.texi (Selecting Signers): Fix reference count.

* gpgme.texi (Header): Document name space.

* gpgme.texi (Importing Keys): Document gpgme_op_import_ext.

* gpgme.texi (Importing Keys): Undocument EOF.

* gpgme.texi (Information About Keys): Changed GPGME_ATTR_TYPE.

* gpgme.texi (Deleting Keys): Say that secret keys might not be deleted.

* gpgme.texi (Information About Keys): Document (badly) the new key attributes.
* gpgme.texi (Manipulating Data Buffers): Mention that backend tries to detect encoding automatically.

* gpgme.texi (Run Control): Update this section. (Waiting For Completion): Likewise for this subsection. (Cancelling an Operation): Likewise for this subsection. (Using External Event Loops): New subsection with several subsubsections.
itself).

2002-06-27 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Information About Keys): Fix documentation for IDX.  
   (Information About Trust Items): Likewise.

2002-06-26 Werner Koch  <wk@gnupg.org>

* gpgme.texi (Importing Keys): Document the return value -1 of 
gpgme_op_import.

2002-06-20 Werner Koch  <wk@gnupg.org>

* gpgme.texi (Verify): Explain the new whatidx variable.

2002-06-10 Werner Koch  <wk@gnupg.org>

* gpgme.texi (Verify): Document attribute GPGME_ATTR_ERRTOK.

2002-06-04 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Multi Threading): Document new autodetection.

2002-06-04 Marcus Brinkmann  <marcus@g10code.de>

* Makefile.am (DISTCLEANFILES): New variable.

2002-05-26 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi: Some typographical corrections throughout.

2002-05-09 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Using Automake): New section.

2002-05-09 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Multi Threading): Escape { and }.

2002-05-09 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Overview): Replace note about thread-safeness.  
   (Multi Threading): New section.

2002-05-03 Werner Koch  <wk@gnupg.org>

* gpgme.texi (Manipulating Data Buffers): Changed some data types
to void*.
(Protocol Selection): Added gpgme_get_protocol.
(Verify): Updated to include the new attribute functions and
status codes.

2002-04-27  Werner Koch  <wk@gnupg.org>

* gpgme.texi (Manipulating Data Buffers): New type GpgmeDataEncoding.

2002-04-23 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Document that either return
argument can be NULL.
(Progress Meter Callback): Likewise.

2002-04-22 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix small typo. Document the
new function gpgme_get_passphrase_cb.
(Progress Meter Callback): Document the new function
gpgme_get_progress_cb.

2002-04-16 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Fix function name. Reported
by Wichert Ackerman <wichert@debian.org>.

2002-03-29 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (direntry): End index entry with a full stop.
Patch submitted by Jose Carlos Garcia Sogo <jsogo@debian.org>.

2002-03-17 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Detailed Results): Fix syntax error in last change.

2002-03-08 Werner Koch  <wk@gnupg.org>

* gpgme.texi (Detailed Results): Import does also return info.

2002-03-06 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document symmetric
encryption.

2002-03-06 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Error Strings): Add example.
* gpgme.texi (Listing Keys): Likewise.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Document GPGME_ATTR_EXPIRE.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Document verification of normal and cleartext signatures.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Document gpgme_op_keylist_ext_start.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document GPGME_INVALID_RECIPIENTS.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document gpgme_op_encrypt_sign and gpgme_op_encrypt_sign_start.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Add a note about certificates to include.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Detailed Results): Remove literal tags.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Fix syntax error.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Waiting For Completion): Adjust doc to changes in the code.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Update documentation.
2002-01-31  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document error at creation failure.

2002-01-30  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Deleting Keys): Document new error values.

2002-01-30  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Importing Keys): Add reference to gpgme_get_op_info.

2002-01-30  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi: Some spell checking.

2002-01-30  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi: Add all the gpgme_op_*_start functions. Fill the concept index with many, many entries.

2002-01-29  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Run Control): New section.  
(Verify): Document gpgme_get_notation.  

2002-01-22  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Passphrase callback): Change GpgmePassphraseCb's R_HD type from void* to void**.

2002-01-22  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Creating data buffers): Change gpgme_data_new_from_filepart's LENGTH type from off_t to size_t.

2002-01-22  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Generating keys): New subsection.  
(Exporting keys): Likewise.  
(Importing keys): Likewise.  
(Deleting keys): Likewise.

2002-01-16  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi: g10Code -> g10 Code
2002-01-16 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi: Likewise.
* gpl.texi: Likewise.
* fdl.texi: Likewise.
* Makefile.am (info_TEXINFOS): New variable.
  (gpgme_TEXINFOS): Likewise.


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General Public License for more details.

This file documents the @acronym{GPGME} library.

This is Edition @value{EDITION}, last updated @value{UPDATED}, of
@cite{The `GnuPG Made Easy' Reference Manual}, for Version
@value{VERSION}.

NOTE: Don't forget to update the year for the TeX version, too.

@end ifinfo

We do not want that bastard short titlepage.

@end iftex

@titlepage
@center @titlefont{The `GnuPG Made Easy'}
@sp 1
@center @titlefont{Reference Manual}
@sp 6
@center Edition @value{EDITION}
@sp 1
--- The Detailed Node Listing ---

Introduction

* Getting Started:: Purpose of the manual, and how to use it.
* Features:: Reasons to install and use @acronym{GPGME}.
* Overview:: Basic architecture of the @acronym{GPGME} library.

Preparation

* Header:: What header file you need to include.
* Building the Source:: Compiler options to be used.
* Largefile Support (LFS):: How to use @acronym{GPGME} with LFS.
* Using Automake:: Compiler options to be used the easy way.
* Using Libtool:: Avoiding compiler options entirely.
* Library Version Check:: Getting and verifying the library version.
* Signal Handling:: How @acronym{GPGME} affects signal handling.
* Multi-Threading:: How @acronym{GPGME} can be used in an MT environment.

Protocols and Engines

* Engine Version Check:: Verifying the engine version.
* Engine Information:: Obtaining more information about the engines.
* Engine Configuration:: Changing the engine configuration.
* OpenPGP:: Support for the OpenPGP protocol.
* Cryptographic Message Syntax:: Support for the CMS.

Algorithms

* Public Key Algorithms:: A list of all public key algorithms.
* Hash Algorithms:: A list of all hash algorithms.

Error Handling

* Error Values:: The error value and what it means.
* Error Codes:: A list of important error codes.
* Error Sources:: A list of important error sources.
* Error Strings:: How to get a descriptive string from a value.

Exchanging Data

* Creating Data Buffers:: Creating new data buffers.
* Destroying Data Buffers:: Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.

Creating Data Buffers

* Memory Based Data Buffers:: Creating memory based data buffers.
* File Based Data Buffers: Creating file based data buffers.
* Callback Based Data Buffers: Creating callback based data buffers.

Manipulating Data Buffers

* Data Buffer I/O Operations: I/O operations on data buffers.
* Data Buffer Meta-Data: Meta-data manipulation of data buffers.
* Data Buffer Convenience: Convenience function for data buffers.

Contexts

* Creating Contexts: Creating new \texttt{GPGME} contexts.
* Destroying Contexts: Releasing \texttt{GPGME} contexts.
* Result Management: Managing the result of crypto operations.
* Context Attributes: Setting properties of a context.
* Key Management: Managing keys with \texttt{GPGME}.
* Trust Item Management: Managing trust items with \texttt{GPGME}.
* Crypto Operations: Using a context for cryptography.
* Miscellaneous: Miscellaneous operations.
* Run Control: Controlling how operations are run.

Context Attributes

* Protocol Selection: Selecting the protocol used by a context.
* Crypto Engine: Configuring the crypto engine.
* Setting the Sender: How to tell the engine the sender.
* ASCII Armor: Requesting \texttt{ASCII} armored output.
* Text Mode: Choosing canonical text mode.
* Offline Mode: Choosing offline mode.
* Included Certificates: Including a number of certificates.
* Key Listing Mode: Selecting key listing mode.
* Passphrase Callback: Getting the passphrase from the user.
* Progress Meter Callback: Being informed about the progress.
* Status Message Callback: Status messages received from gpg.
* Locale: Setting the locale of a context.

Key Management

* Key objects: Description of the key structures.
* Listing Keys: Browsing the list of available keys.
* Information About Keys: Requesting detailed information about keys.
* Manipulating Keys: Operations on keys.
* Generating Keys: Creating new key pairs.
* Signing Keys: Adding key signatures to public keys.
* Exporting Keys: Retrieving key data from the key ring.
* Importing Keys: Adding keys to the key ring.
* Deleting Keys: Removing keys from the key ring.
* Changing Passphrases: Change the passphrase of a key.
* Changing TOFU Data:: Changing data pertaining to TOFU.
* Advanced Key Editing:: Advanced key edit operation.

Trust Item Management

* Listing Trust Items:: Browsing the list of available trust items.
* Manipulating Trust Items:: Operations on trust items.

Crypto Operations

* Decrypt:: Decrypting a ciphertext.
* Verify:: Verifying a signature.
* Decrypt and Verify:: Decrypting a signed ciphertext.
* Sign:: Creating a signature.
* Encrypt:: Encrypting a plaintext.

Sign

* Selecting Signers:: How to choose the keys to sign with.
* Creating a Signature:: How to create a signature.
* Signature Notation Data:: How to add notation data to a signature.

Encrypt

* Encrypting a Plaintext:: How to encrypt a plaintext.

Miscellaneous

* Running other Programs:: Running other Programs.
* Using the Assuan protocol:: Using the Assuan protocol.
* Checking for updates:: How to check for software updates.

Run Control

* Waiting For Completion:: Waiting until an operation is completed.
* Using External Event Loops:: Advanced control over what happens when.
* Cancellation:: How to end pending operations prematurely.

Using External Event Loops

* I/O Callback Interface:: How I/O callbacks are registered.
* Registering I/O Callbacks:: How to use I/O callbacks for a context.
* I/O Callback Example:: An example how to use I/O callbacks.
* I/O Callback Example GTK+: How to integrate @acronym{GPGME} in GTK+.
* I/O Callback Example GDK:: How to integrate @acronym{GPGME} in GDK.
* I/O Callback Example Qt:: How to integrate @acronym{GPGME} in Qt.
`GnuPG Made Easy' (@acronym{GPGME}) is a C language library that allows to add support for cryptography to a program. It is designed to make access to public key crypto engines like GnuPG or GpgSM easier for applications. @acronym{GPGME} provides a high-level crypto API for encryption, decryption, signing, signature verification and key management.

@acronym{GPGME} uses GnuPG and GpgSM as its backends to support OpenPGP and the Cryptographic Message Syntax (CMS).

@menu
* Getting Started:: Purpose of the manual, and how to use it.
  * Features:: Reasons to install and use @acronym{GPGME}.
  * Overview:: Basic architecture of the @acronym{GPGME} library.
@end menu

This manual documents the @acronym{GPGME} library programming interface. All functions and data types provided by the library are explained.

The reader is assumed to possess basic knowledge about cryptography in general, and public key cryptography in particular. The underlying cryptographic engines that are used by the library are not explained, but where necessary, special features or requirements by an engine are mentioned as far as they are relevant to @acronym{GPGME} or its users.

This manual can be used in several ways. If read from the beginning to the end, it gives a good introduction into the library and how it can be used in an application. Forward references are included where necessary. Later on, the manual can be used as a reference manual to get just the information needed about any particular interface of the library. Experienced programmers might want to start looking at the examples at the end of the manual, and then only read up those parts of the interface which are unclear.

The documentation for the language bindings is currently not included in this manual. Those languages bindings follow the general programming model of @acronym{GPGME} but may provide some extra high level abstraction on top of the @acronym{GPGME} style API. For now
please see the README files in the @file{lang/} directory of the source distribution.

@node Features
@section Features

@acro{GPGME} has a couple of advantages over other libraries doing a similar job, and over implementing support for GnuPG or other crypto engines into your application directly.

@table {asis}
@item it's free software
  Anybody can use, modify, and redistribute it under the terms of the GNU Lesser General Public License (@pxref{Library Copying}).

@item it's flexible
  @acro{GPGME} provides transparent support for several cryptographic protocols by different engines. Currently, @acro{GPGME} supports the OpenPGP protocol using GnuPG as the backend, and the Cryptographic Message Syntax using GpgSM as the backend.

@item it's easy
  @acro{GPGME} hides the differences between the protocols and engines from the programmer behind an easy-to-use interface. This way the programmer can focus on the other parts of the program, and still integrate strong cryptography in his application. Once support for @acro{GPGME} has been added to a program, it is easy to add support for other crypto protocols once @acro{GPGME} backends provide them.

@item it's language friendly
  @acro{GPGME} comes with languages bindings for several common programming languages: Common Lisp, C++, Python 2, and Python 3.
@end table

@node Overview
@section Overview

@acro{GPGME} provides a data abstraction that is used to pass data to the crypto engine, and receive returned data from it. Data can be read from memory or from files, but it can also be provided by a callback function.

The actual cryptographic operations are always set within a context. A context provides configuration parameters that define the behaviour of all operations performed within it. Only one operation per context is allowed at any time, but when one operation is finished, you can run the next operation in the same context. There can be more than
one context, and all can run different operations at the same time.

Furthermore, @acronym{GPGME} has rich key management facilities including listing keys, querying their attributes, generating, importing, exporting and deleting keys, and acquiring information about the trust path.

With some precautions, @acronym{GPGME} can be used in a multi-threaded environment, although it is not completely thread safe and thus needs the support of the application.

To use @acronym{GPGME}, you have to perform some changes to your sources and the build system. The necessary changes are small and explained in the following sections. At the end of this chapter, it is described how the library is initialized, and how the requirements of the library are verified.

@node Preparation
@chapter Preparation

To use @acronym{GPGME}, you have to perform some changes to your sources and the build system. The necessary changes are small and explained in the following sections. At the end of this chapter, it is described how the library is initialized, and how the requirements of the library are verified.

@node Header
@section Header
@cindex header file
@cindex include file

All interfaces (data types and functions) of the library are defined in the header file `gpgme.h'. You must include this in all programs using the library, either directly or through some other header file, like this:

@example
#include <gpgme.h>
@end example

The name space of @acronym{GPGME} is @code{gpgme_*} for function names
and data types and @code{GPGME_*} for other symbols. Symbols internal
to @acronym{GPGME} take the form @code{__gpgme_*} and @code{__GPGME_*}.

Because @acronym{GPGME} makes use of the GPG Error library, using
@acronym{GPGME} will also use the @code{GPG_ERR_*} name space
directly, and the @code{gpg_err*}, @code{gpg_str*}, and @code{gpgrt_*}
name space indirectly.

@node Building the Source
@section Building the Source
@cindex compiler options
@cindex compiler flags

If you want to compile a source file including the `gpgme.h' header
file, you must make sure that the compiler can find it in the
directory hierarchy. This is accomplished by adding the path to the
directory in which the header file is located to the compilers include
file search path (via the @option{-I} option).

However, the path to the include file is determined at the time the
source is configured. To solve this problem, gpgme ships with a small
helper program @command{gpgme-config} that knows about the path to the
include file and other configuration options. The options that need
to be added to the compiler invocation at compile time are output by
the @option{--cflags} option to @command{gpgme-config}. The following
example shows how it can be used at the command line:

@example
gcc -c foo.c `gpgme-config --cflags`
@end example

Adding the output of @samp{gpgme-config --cflags} to the compiler
command line will ensure that the compiler can find the
@acronym{GPGME} header file.

A similar problem occurs when linking the program with the library.
Again, the compiler has to find the library files. For this to work,
the path to the library files has to be added to the library search
path (via the @option{-L} option). For this, the option
@option{--libs} to @command{gpgme-config} can be used. For
convenience, this option also outputs all other options that are
required to link the program with @acronym{GPGME} (in particular, the
@samp{-lgpgme} option). The example shows how to link @file{foo.o}
with the @acronym{GPGME} library to a program @command{foo}.

@example
gcc -o foo foo.o `gpgme-config --libs`

Of course you can also combine both examples to a single command by specifying both options to \texttt{gpgme-config}:

\begin{verbatim}
gcc -o foo foo.c `gpgme-config --cflags --libs`
\end{verbatim}

If you need to detect the installed language bindings you can use list them using:

\begin{verbatim}
gpgme-config --print-lang
\end{verbatim}

or test for the availability using

\begin{verbatim}
gpgme-config --have-lang=python && echo 'Bindings for Pythons available'
\end{verbatim}

@node Largefile Support (LFS)
@section Largefile Support (LFS)
@cindex largefile support
@cindex LFS

\acronym{GPGME} is compiled with largefile support by default, if it is available on the system. This means that GPGME supports files larger than two gigabyte in size, if the underlying operating system can. On some systems, largefile support is already the default. On such systems, nothing special is required. However, some systems provide only support for files up to two gigabyte in size by default. Support for larger file sizes has to be specifically enabled.

To make a difficult situation even more complex, such systems provide two different types of largefile support. You can either get all relevant functions replaced with alternatives that are largefile capable, or you can get new functions and data types for largefile support added. Those new functions have the same name as their smallfile counterparts, but with a suffix of 64.

An example: The data type \texttt{off_t} is 32 bit wide on GNU/Linux PC systems. To address offsets in large files, you can either enable largefile support add-on. Then a new data type \texttt{off64_t} is provided, which is 64 bit wide. Or you can replace the existing \texttt{off_t} data type with its 64 bit wide counterpart. All
occurrences of @code{off_t} are then automagically replaced.

As if matters were not complex enough, there are also two different types of file descriptors in such systems. This is important because if file descriptors are exchanged between programs that use a different maximum file size, certain errors must be produced on some file descriptors to prevent subtle overflow bugs from occurring.

As you can see, supporting two different maximum file sizes at the same time is not at all an easy task. However, the maximum file size does matter for @acronym{GPGME}, because some data types it uses in its interfaces are affected by that. For example, the @code{off_t} data type is used in the @code{gpgme_data_seek} function, to match its @acronym{POSIX} counterpart. This affects the call-frame of the function, and thus the ABI of the library. Furthermore, file descriptors can be exchanged between GPGME and the application.

For you as the user of the library, this means that your program must be compiled in the same file size mode as the library. Luckily, there is absolutely no valid reason for new programs to not enable largefile support by default and just use that. The compatibility modes (small file sizes or dual mode) can be considered an historic artefact, only useful to allow for a transitional period.

On POSIX platforms @acronym{GPGME} is compiled using largefile support by default. This means that your application must do the same, at least as far as it is relevant for using the @file{gpgme.h} header file. All types in this header files refer to their largefile counterparts, if they are different from any default types on the system.

On 32 and 64 bit Windows platforms @code{off_t} is declared as 32 bit signed integer. There is no specific support for LFS in the C library. The recommendation from Microsoft is to use the native interface (@code{CreateFile} et al.) for large files. Released binary versions of @acronym{GPGME} (libgpgme-11.dll) have always been build with a 32 bit @code{off_t}. To avoid an ABI break we stick to this convention for 32 bit Windows by using @code{long} there. @acronym{GPGME} versions for 64 bit Windows have never been released and thus we are able to use @code{int64_t} instead of @code{off_t} there. For easier migration the typedef @code{gpgme_off_t} has been defined. The reason we cannot use @code{off_t} directly is that some toolchains (e.g. mingw64) introduce a POSIX compatible hack for @code{off_t}. Some widely used toolkits make use of this hack and in turn @acronym{GPGME} would need to use it also. However, this would introduce an ABI break and existing software making use of libgpgme might suffer from a severe break. Thus with version 1.4.2 we redefined all functions using @code{off_t} to use @code{gpgme_off_t}
which is defined as explained above. This way we keep the ABI well
defined and independent of any toolchain hacks. The bottom line is
that LFS support in @acronym{GPGME} is only available on 64 bit
versions of Windows.

On POSIX platforms you can enable largefile support, if it is
different from the default on the system the application is compiled
on, by using the Autoconf macro @code{AC_SYS_LARGEFILE}. If you do
this, then you don’t need to worry about anything else: It will just
work. In this case you might also want to use @code{AC_FUNC_FSEEKO}
to take advantage of some new interfaces, and @code{AC_TYPE_OFF_T}
(just in case).

If you do not use Autoconf, you can define the preprocessor symbol
@code{_FILE_OFFSET_BITS} to 64 @emph{before} including any header
files, for example by specifying the option
@code{-D_FILE_OFFSET_BITS=64} on the compiler command line. You will
also want to define the preprocessor symbol @code{LARGEFILE_SOURCE} to
1 in this case, to take advantage of some new interfaces.

If you do not want to do either of the above, you probably know enough
about the issue to invent your own solution. Just keep in mind that
the @acronym{GPGME} header file expects that largefile support is
enabled, if it is available. In particular, we do not support dual
mode (@code{_LARGEFILE64_SOURCE}).

@node Using Automake
@section Using Automake
@cindex automake
@cindex autoconf
It is much easier if you use GNU Automake instead of writing your own
Makefiles. If you do that you do not have to worry about finding and
invoking the @command{gpgme-config} script at all. @acronym{GPGME}
provides an extension to Automake that does all the work for you.

@c A simple macro for optional variables.
@macro ovar{varname}
@r{[}@var{varname}@r{]}
@end macro
@defmac AM_PATH_GPGME (@ovar{minimum-version}, @ovar{action-if-found}, @ovar{action-if-not-found})
@defmacx AM_PATH_GPGME_PTH (@ovar{minimum-version}, @ovar{action-if-found}, @ovar{action-if-not-found})
@defmacx AM_PATH_GPGME_PTHREAD (@ovar{minimum-version}, @ovar{action-if-found}, @ovar{action-if-not-found})
Check whether @acronym{GPGME} (at least version @var{minimum-version},
if given) exists on the host system. If it is found, execute
 Additionally, the function defines @code{GPGME_CFLAGS} to the flags needed for compilation of the program to find the @file{gpgme.h} header file, and @code{GPGME_LIBS} to the linker flags needed to link the program to the @acronym{GPGME} library. If the used helper script does not match the target type you are building for a warning is printed and the string @code{libgcrypt} is appended to the variable @code{gpg_config_script_warn}.

@code{AM_PATH_GPGME_PTH} checks for the version of @acronym{GPGME} that can be used with GNU Pth, and defines @code{GPGME_PTH_CFLAGS} and @code{GPGME_PTH_LIBS}.

@code{AM_PATH_GPGME_PTHREAD} checks for the version of @acronym{GPGME} that can be used with the native pthread implementation, and defines @code{GPGME_PTHREAD_CFLAGS} and @code{GPGME_PTHREAD_LIBS}. Since version 1.8.0 this is no longer required to GPGME_PTHREAD as @acronym{GPGME} itself is thread safe.

This macro searches for @command{gpgme-config} along the PATH. If you are cross-compiling, it is useful to set the environment variable @code{SYSSROOT} to the top directory of your target. The macro will then first look for the helper program in the @file{bin} directory below that top directory. An absolute directory name must be used for @code{SYSSROOT}. Finally, if the configure command line option @code{--with-gpgme-prefix} is used, only its value is used for the top directory below which the helper script is expected.

You can use the defined Autoconf variables like this in your @file{Makefile.am}:

@example
AM_CPPFLAGS = $(GPGME_CFLAGS)
LDADD = $(GPGME_LIBS)
@end example

The easiest way is to just use GNU Libtool. If you use libtool, and link to @code{libgpgme.la}, @code{libgpgme-pth.la} or @code{libgpgme-pthread.la} respectively, everything will be done.
The function `gpgme_check_version` has four purposes. It can be used to retrieve the version number of the library. In addition it can verify that the version number is higher than a certain required version number. In either case, the function initializes some sub-systems, and for this reason alone it must be invoked early in your program, before you make use of the other functions in `GPGME`. The last purpose is to run selftests.

As a side effect for W32 based systems, the socket layer will get initialized.

If `required_version` is `NULL`, the function returns a pointer to a statically allocated string containing the version number of the library.

If `required_version` is not `NULL`, it should point to a string containing a version number, and the function checks that the version of the library is at least as high as the version number provided. In this case, the function returns a pointer to a statically allocated string containing the version number of the library. If `REQURED_VERSION` is not a valid version number, or if the version requirement is not met, the function returns `NULL`.

If you use a version of a library that is backwards compatible with older releases, but contains additional interfaces which your program uses, this function provides a run-time check if the necessary features are provided by the installed version of the library.

If a selftest fails, the function may still succeed. Selftest errors are returned later when invoking `gpgme_new` or `gpgme-data_new`, so that a detailed error code can be returned (historically, `gpgme_check_version` does not return a detailed error code).

If a selftest fails, the function may still succeed. Selftest errors are returned later when invoking `gpgme_new` or `gpgme-data_new`, so that a detailed error code can be returned (historically, `gpgme_check_version` does not return a detailed error code).
On some systems it is not easy to set environment variables and thus hard to use @acronym{GPGME}'s internal trace facility for debugging. This function has been introduced as an alternative way to enable debugging and for a couple of other rarely used tweaks. It is important to assure that only one thread accesses @acronym{GPGME} functions between a call to this function and after the return from the call to @code{gpgme_check_version}.

All currently supported features require that this function is called as early as possible --- even before @code{gpgme_check_version}. The features are identified by the following values for @var{name}:

- **debug**
  To enable debugging use the string ```debug`` for @var{name} and @var{value} identical to the value used with the environment variable @code{GPGME_DEBUG}.

- **disable-gpgconf**
  Using this feature with any @var{value} disables the detection of the gpgconf program and thus forces GPGME to fallback into the simple OpenPGP only mode. It may be used to force the use of GnuPG-1 on systems which have both GPG versions installed. Note that in general the use of @code{gpgme_set_engine_info} is a better way to select a specific engine version.

- **gpgconf-name**
- **gpg-name**
  Set the name of the gpgconf respective gpg binary. The defaults are @code{GNU/GnuPG/gpgconf} and @code{GNU/GnuPG/gpg}. Under Unix the leading directory part is ignored. Under Windows the leading directory part is used as the default installation directory; the @code{.exe} suffix is added by GPGME. Use forward slashed even under Windows.

- **require-gnupg**
  Set the minimum version of the required GnuPG engine. If that version is not met, GPGME fails early instead of trying to use the existent version. The given version must be a string with major, minor, and micro number. Example: "2.1.0".

- **w32-inst-dir**
  On Windows GPGME needs to know its installation directory to find its spawn helper. This is in general no problem because a DLL has this...
information. Some applications however link statically to GPGME and thus GPGME can only figure out the installation directory of this application which may be wrong in certain cases. By supplying an installation directory as value to this flag, GPGME will assume that that directory is the installation directory. This flag has no effect on non-Windows platforms.

@end table

This function returns @code{0} on success. In contrast to other functions the non-zero return value on failure does not convey any error code. For setting ``debug'' the only possible error cause is an out of memory condition; which would exhibit itself later anyway. Thus the return value may be ignored.
@end deftypefun

After initializing @acronym{GPGME}, you should set the locale information to the locale required for your output terminal. This locale information is needed for example for the curses and Gtk pinentry. Here is an example of a complete initialization:

@example
#include <locale.h>
#include <gpgme.h>

void
init_gpgme (void)
{@
 /* Initialize the locale environment. */
 setlocale (LC_ALL, "");
gpgme_check_version (NULL);
gpgme_set_locale (NULL, LC_CTYPE, setlocale (LC_CTYPE, NULL));
#ifdef LC_MESSAGES
 gpgme_set_locale (NULL, LC_MESSAGES, setlocale (LC_MESSAGES, NULL));
#endif
@end example

Note that you are highly recommended to initialize the locale settings like this. @acronym{GPGME} can not do this for you because it would not be thread safe. The conditional on LCMESSAGES is only necessary for portability to W32 systems.

@node Signal Handling
@section Signal Handling
@cindex signals
The @acronym{GPGME} library communicates with child processes (the crypto engines). If a child process dies unexpectedly, for example due to a bug, or system problem, a @code{SIGPIPE} signal will be delivered to the application. The default action is to abort the program. To protect against this, @code{gpgme_check_version} sets the @code{SIGPIPE} signal action to @code{SIG_IGN}, which means that the signal will be ignored.

@acronym{GPGME} will only do that if the signal action for @code{SIGPIPE} is @code{SIG_DEF} at the time @code{gpgme_check_version} is called. If it is something different, @code{GPGME} will take no action.

This means that if your application does not install any signal handler for @code{SIGPIPE}, you don't need to take any precautions. If you do install a signal handler for @code{SIGPIPE}, you must be prepared to handle any @code{SIGPIPE} events that occur due to @acronym{GPGME} writing to a defunct pipe. Furthermore, if your application is multi-threaded, and you install a signal action for @code{SIGPIPE}, you must make sure you do this either before @code{gpgme_check_version} is called or afterwards.

@node Multi-Threading
@section Multi-Threading
@node thread-safeness
@node multi-threading

The @acronym{GPGME} library is mostly thread-safe, and can be used in a multi-threaded environment but there are some requirements for multi-threaded use:

The function @code{gpgme_check_version} must be called before any other function in the library, because it initializes the thread support subsystem in @acronym{GPGME}. To achieve this in multi-threaded programs, you must synchronize the memory with respect to other threads that also want to use @acronym{GPGME}. For this, it is sufficient to call @code{gpgme_check_version} before creating the other threads using @acronym{GPGME} @footnote{At least this is true for POSIX threads, as @code{pthread_create} is a function that synchronizes memory with respects to other threads. There are many functions which have this property, a complete list can be found in POSIX, IEEE Std 1003.1-2003, Base Definitions, Issue 6, in the definition of the term “Memory Synchronization”. For other thread...}
Any `gpgme_data_t` and `gpgme_ctx_t` object must only be accessed by one thread at a time. If multiple threads want to deal with the same object, the caller has to make sure that operations on that object are fully synchronized.

Only one thread at any time is allowed to call `gpgme_wait`. If multiple threads call this function, the caller must make sure that all invocations are fully synchronized. It is safe to start asynchronous operations while a thread is running in `gpgme_wait`.

The function `gpgme_strerror` is not thread safe. You have to use `gpgme_strerror_r` instead.

`GPGME` supports several cryptographic protocols, however, it does not implement them. Rather it uses backends (also called engines) which implement the protocol. `GPGME` uses inter-process communication to pass data back and forth between the application and the backend, but the details of the communication protocol and invocation of the backend is completely hidden by the interface. All complexity is handled by `GPGME`. Where an exchange of information between the application and the backend is necessary, `GPGME` provides the necessary callback function hooks and further interfaces.

The `gpgme_protocol_t` type specifies the set of possible protocol values that are supported by `GPGME`. The following protocols are supported:

- `GPGME_PROTOCOL_OpenPGP`
- `GPGME_PROTOCOL_OPENPGP`
This specifies the OpenPGP protocol.

@item GPGME_PROTOCOL_CMS
This specifies the Cryptographic Message Syntax.

@item GPGME_PROTOCOL_GPGCONF
Under development. Please ask on @email{gnupg-devel@@gnupg.org} for help.

@item GPGME_PROTOCOL_ASSUAN
@since{1.2.0}
This specifies the raw Assuan protocol.

@item GPGME_PROTOCOL_G13
@since{1.3.0}
Under development. Please ask on @email{gnupg-devel@@gnupg.org} for help.

@item GPGME_PROTOCOL_UISERVER
Under development. Please ask on @email{gnupg-devel@@gnupg.org} for help.

@item GPGME_PROTOCOL_SPAWN
@since{1.5.0}
Special protocol for use with @code{gpgme_opSpawn}.

@item GPGME_PROTOCOL_UNKNOWN
Reserved for future extension. You may use this to indicate that the used protocol is not known to the application. Currently, @acronym{GPGME} does not accept this value in any operation, though, except for @code{gpgme_get_protocol_name}.
@end table
@end deftp

@deftypefun {const char *} gpgme_get_protocol_name (@w{gpgme_protocol_t @var{protocol}})
The function @code{gpgme_get_protocol_name} returns a statically allocated string describing the protocol @var{protocol}, or @code{NULL} if the protocol number is not valid.
@end deftypefun

@menu
* Engine Version Check:: Verifying the engine version.
* Engine Information:: Obtaining more information about the engines.
* Engine Configuration:: Changing the engine configuration.
* OpenPGP:: Support for the OpenPGP protocol.
* Cryptographic Message Syntax:: Support for the CMS.
* Assuan:: Support for the raw Assuan protocol.
The function `gpgme_get_dirinfo` returns a statically allocated string with the value associated to `what`. The returned values are the defaults and won't change even after `gpgme_set_engine_info` has been used to configure a different engine. `NULL` is returned if no value is available. Commonly supported values for `what` are:

- **homedir**: Return the default home directory.
- **sysconfdir**: Return the name of the system configuration directory.
- **bindir**: Return the name of the directory with GnuPG program files.
- **libdir**: Return the name of the directory with GnuPG related library files.
- **libexecdir**: Return the name of the directory with GnuPG helper program files.
- **datadir**: Return the name of the directory with GnuPG shared data.
- **localedir**: Return the name of the directory with GnuPG locale data.
- **agent-socket**: Return the name of the socket to connect to the gpg-agent.
- **agent-ssh-socket**: Return the name of the socket to connect to the ssh-agent component of gpg-agent.
- **dirmngr-socket**: Return the name of the socket to connect to the dirmngr.
@item uiserver-socket
Return the name of the socket to connect to the user interface server.

@item gpgconf-name
Return the file name of the engine configuration tool.

@item gpg-name
Return the file name of the OpenPGP engine.

@item gpgsm-name
Return the file name of the CMS engine.

@item g13-name
Return the name of the file container encryption engine.

@item gpg-wks-client-name
Return the name of the Web Key Service tool.

@end table

@end deftypefun

@deftypefun gpgme_error_t gpgme_engine_check_version (@w{gpgme_protocol_t @var{protocol}})
The function @code{gpgme_engine_check_version} verifies that the
engine implementing the protocol @var{PROTOCOL} is installed in the
expected path and meets the version requirement of @acronym{GPGME}.
This function returns the error code @code{GPG_ERR_NO_ERROR} if the
engine is available and @code{GPG_ERR_INV_ENGINE} if it is not.
@end deftypefun

@node Engine Information
@section Engine Information
@cindex engine, information about

@deftp {Data type} {gpgme_engine_info_t}
@tindex gpgme_protocol_t
The @code{gpgme_engine_info_t} type specifies a pointer to a structure
describing a crypto engine. The structure contains the following elements:

@table @code
@item gpgme_engine_info_t next
This is a pointer to the next engine info structure in the linked
list, or @code{NULL} if this is the last element.
@item gpgme_protocol_t protocol
This is the protocol for which the crypto engine is used. You can
convert this to a string with @code{gpgme_get_protocol_name} for
printing.

@item const char *file_name
This is a string holding the file name of the executable of the crypto
engine. Currently, it is never @code{NULL}, but using @code{NULL} is
reserved for future use, so always check before you use it.

@item const char *home_dir
This is a string holding the directory name of the crypto engine's
configuration directory. If it is @code{NULL}, then the default
directory is used. See @code{gpgme_get_dirinfo} on how to get the
default directory.

@item const char *version
This is a string containing the version number of the crypto engine.
It might be @code{NULL} if the version number can not be determined,
for example because the executable doesn't exist or is invalid.

@item const char *req_version
This is a string containing the minimum required version number of the
crypto engine for @acronym{GPGME} to work correctly. This is the
version number that @code{gpgme_engine_check_version} verifies
against. Currently, it is never @code{NULL}, but using @code{NULL} is
reserved for future use, so always check before you use it.
@end table
@end deftp

@deftypefun gpgme_error_t gpgme_get_engine_info (@w{gpgme_engine_info_t *@var{info}})
The function @code{gpgme_get_engine_info} returns a linked list of
eengine info structures in @var{info}. Each info structure describes
the defaults of one configured backend.

The memory for the info structures is allocated the first time this
function is invoked, and must not be freed by the caller.

This function returns the error code @code{GPG_ERR_NO_ERROR} if
successful, and a system error if the memory could not be allocated.
@end deftypefun

Here is an example how you can provide more diagnostics if you receive
an error message which indicates that the crypto engine is invalid.

@example
gpgme_ctx_t ctx;
gpgme_error_t err;

[...]

if (gpgme_err_code (err) == GPG_ERR_INV_ENGINE)
{
  gpgme_engine_info_t info;
  err = gpgme_get_engine_info (&info);
  if (!err)
  {
    while (info && info->protocol != gpgme_get_protocol (ctx))
      info = info->next;
    if (!info)
      fprintf (stderr, "GPGME compiled without support for protocol %s",
               gpgme_get_protocol_name (info->protocol));
    else if (info->file_name && !info->version)
      fprintf (stderr, "Engine %s not installed properly",
               info->file_name);
    else if (info->file_name && info->version && info->req_version)
      fprintf (stderr, "Engine %s version %s installed, "
               "but at least version %s required", info->file_name,
               info->version, info->req_version);
    else
      fprintf (stderr, "Unknown problem with engine for protocol %s",
               gpgme_get_protocol_name (info->protocol));
  }
}
@end example

@node Engine Configuration
@section Engine Configuration
@cindex engine, configuration of
@cindex configuration of crypto backend

You can change the configuration of a backend engine, and thus change the executable program and configuration directory to be used. You can make these changes the default or set them for some contexts individually.

@deftypefun gpgme_error_t gpgme_set_engine_info (@w{gpgme_protocol_t @var{proto}}, @w{const char *@var{file_name}}, @w{const char *@var{home_dir}})
  @since{1.1.0}

The function @code{gpgme_set_engine_info} changes the default configuration of the crypto engine implementing the protocol @var{proto}.
@var{file_name} is the file name of the executable program implementing this protocol, and @var{home_dir} is the directory name of the configuration directory for this crypto engine. If @var{home_dir} is @code{NULL}, the engine's default will be used.

The new defaults are not applied to already created GPGME contexts.

This function returns the error code @code{GPG_ERR_NO_ERROR} if successful, or an error code on failure.
@end deftypefun

The functions @code{gpgme_ctx_get_engine_info} and @code{gpgme_ctx_set_engine_info} can be used to change the engine configuration per context. @xref{Crypto Engine}.

@node OpenPGP
@section OpenPGP
@cindex OpenPGP
@cindex GnuPG
@cindex protocol, GnuPG
@cindex engine, GnuPG

OpenPGP is implemented by GnuPG, the @acronym{GNU} Privacy Guard. This is the first protocol that was supported by @acronym{GPGME}.

The OpenPGP protocol is specified by @code{GPGME_PROTOCOL_OpenPGP}.

@node Cryptographic Message Syntax
@section Cryptographic Message Syntax
@cindex CMS
@cindex cryptographic message syntax
@cindex GpgSM
@cindex protocol, CMS
@cindex engine, GpgSM
@cindex S/MIME
@cindex protocol, S/MIME

@acronym{CMS} is implemented by GpgSM, the S/MIME implementation for GnuPG.

The @acronym{CMS} protocol is specified by @code{GPGME_PROTOCOL_CMS}.

@node Assuan
@section Assuan
@cindex ASSUAN
Assuan is the RPC library used by the various GnuPG components. The Assuan protocol allows one to talk to arbitrary Assuan servers using GPGME. \xref{Using the Assuan protocol}.

The ASSUAN protocol is specified by \code{GPGME_PROTOCOL_ASSUAN}.

The crypto backends support a variety of algorithms used in public key cryptography. Some engines also provide symmetric only encryption; see the description of the encryption function on how to use this. The following sections list the identifiers used to denote such an algorithm.

Public key algorithms are used for encryption, decryption, signing and verification of signatures.

The \code{gpgme_pubkey_algo_t} type specifies the set of all public key algorithms that are supported by GPGME. Possible values are:

- \code{GPGME_PK_RSA} - This value indicates the RSA (Rivest, Shamir, Adleman) algorithm.
- \code{GPGME_PK_RSA_E} - Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for encryption and decryption only.
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPGME_PK_RSA_S</td>
<td>Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for signing and verification only.</td>
</tr>
<tr>
<td>GPGME_PK_DSA</td>
<td>This value indicates DSA, the Digital Signature Algorithm.</td>
</tr>
<tr>
<td>GPGME_PK_ELG</td>
<td>This value indicates ElGamal.</td>
</tr>
<tr>
<td>GPGME_PK_ELG_E</td>
<td>This value also indicates ElGamal and is used specifically in GnuPG.</td>
</tr>
<tr>
<td>GPGME_PK_ECC</td>
<td>This value is a generic indicator for elliptic curve algorithms.</td>
</tr>
<tr>
<td>GPGME_PK_ECDSA</td>
<td>This value indicates ECDSA, the Elliptic Curve Digital Signature Algorithm as defined by FIPS 186-2 and RFC-6637.</td>
</tr>
<tr>
<td>GPGME_PK_ECDH</td>
<td>This value indicates ECDH, the Elliptic Curve Diffie-Hellmann encryption algorithm as defined by RFC-6637.</td>
</tr>
<tr>
<td>GPGME_PK_EDDSA</td>
<td>This value indicates the EdDSA algorithm.</td>
</tr>
</tbody>
</table>

The function `gpgme_pubkey_algo_name` returns a pointer to a statically allocated string containing a description of the public key algorithm. This string can be used to output the name of the public key algorithm to the user. If the `algo` parameter is not a valid public key algorithm, `NULL` is returned.
The function `gpgme_pubkey_algo_string` is a convenience function to build and return an algorithm string in the same way GnuPG does (e.g. "rsa2048" or "ed25519"). The caller must free the result using `gpgme_free`. On error (e.g. invalid argument or memory exhausted), the function returns NULL and sets `ERRNO`.

Hash (message digest) algorithms are used to compress a long message to make it suitable for public key cryptography.

The `gpgme_hash_algo_t` type specifies the set of all hash algorithms that are supported by GPGME. Possible values are:

- GPGME_MD_MD5
- GPGME_MD_SHA1
- GPGME_MD_RMD160
- GPGME_MD_MD2
- GPGME_MD_TIGER
- GPGME_MD_HAVAL
- GPGME_MD_SHA256
- GPGME_MD_SHA384
- GPGME_MD_SHA512
- GPGME_MD_SHA224
- GPGME_MD_MD4
- GPGME_MD_CRC32
- GPGME_MD_CRC32_RFC1510
- GPGME_MD_CRC24_RFC2440

The `gpgme_hash_algo_name` function returns the name of a hash algorithm given its identifier.
The function `gpgme_hash_algo_name` returns a pointer to a statically allocated string containing a description of the hash algorithm `algo`. This string can be used to output the name of the hash algorithm to the user.

If `algo` is not a valid hash algorithm, `NULL` is returned.

@node Error Handling
@chapter Error Handling
@cindex error handling

Many functions in @acronym{GPGME} can return an error if they fail. For this reason, the application should always catch the error condition and take appropriate measures, for example by releasing the resources and passing the error up to the caller, or by displaying a descriptive message to the user and cancelling the operation.

Some error values do not indicate a system error or an error in the operation, but the result of an operation that failed properly. For example, if you try to decrypt a tempered message, the decryption will fail. Another error value actually means that the end of a data buffer or list has been reached. The following descriptions explain for many error codes what they mean usually. Some error values have specific meanings if returned by a certain functions. Such cases are described in the documentation of those functions.

@acronym{GPGME} uses the `libgpg-error` library. This allows to share the error codes with other components of the GnuPG system, and thus pass error values transparently from the crypto engine, or some helper application of the crypto engine, to the user. This way no information is lost. As a consequence, @acronym{GPGME} does not use its own identifiers for error codes, but uses those provided by `libgpg-error`. They usually start with `GPG_ERR_`.

However, @acronym{GPGME} does provide aliases for the functions defined in libgpg-error, which might be preferred for name space consistency.

@menu
* Error Values:: The error value and what it means.
* Error Sources:: A list of important error sources.
* Error Codes:: A list of important error codes.
* Error Strings:: How to get a descriptive string from a value.
@end menu
The `gpgme_err_code_t` type is an alias for the `libgpg-error` type `gpg_err_code_t`. The error code indicates the type of an error, or the reason why an operation failed.

A list of important error codes can be found in the next section.

The `gpgme_err_source_t` type is an alias for the `libgpg-error` type `gpg_err_source_t`. The error source has not a precisely defined meaning. Sometimes it is the place where the error happened, sometimes it is the place where an error was encoded into an error value. Usually the error source will give an indication to where to look for the problem. This is not always true, but it is attempted to achieve this goal.

A list of important error sources can be found in the next section.

The `gpgme_error_t` type is an alias for the `libgpg-error` type `gpg_error_t`. An error value like this has always two components, an error code and an error source. Both together form the error value.

Thus, the error value can not be directly compared against an error code, but the accessor functions described below must be used. However, it is guaranteed that only 0 is used to indicate success (`GPG_ERR_NO_ERROR`), and that in this case all other parts of the error value are set to 0, too.

Note that in `GPGME`, the error source is used purely for diagnostical purposes. Only the error code should be checked to test for a certain outcome of a function. The manual only documents the error code part of an error value. The error source is left unspecified and might be anything.

The static inline function `gpgme_error_code` returns the component of the error value. This
function must be used to extract the error code from an error value in
order to compare it with the @code{GPG_ERR_*} error code macros.
@end deftypefun

@deftypefun {static inline gpgme_err_source_t} gpgme_err_source (@w{gpgme_error_t @var{err}})
The static inline function @code{gpgme_err_source} returns the
@code{gpgme_err_source_t} component of the error value @var{err}. This
function must be used to extract the error source from an error value in
order to compare it with the @code{GPG_ERR_SOURCE_*} error source macros.
@end deftypefun

@deftypefun {static inline gpgme_error_t} gpgme_err_make (@w{gpgme_err_source_t @var{source}},
@w{gpgme_err_code_t @var{code}})
The static inline function @code{gpgme_err_make} returns the error
value consisting of the error source @var{source} and the error code
@var{code}.

This function can be used in callback functions to construct an error
value to return it to the library.
@end deftypefun

@deftypefun {static inline gpgme_error_t} gpgme_error (@w{gpgme_err_code_t @var{code}})
The static inline function @code{gpgme_error} returns the error value
consisting of the default error source and the error code @var{code}.
For @acronym{GPGME} applications, the default error source is
@code{GPG_ERR_SOURCE_USER_1}. You can define
@code{GPGME_ERR_SOURCE_DEFAULT} before including @file{gpgme.h} to
change this default.

This function can be used in callback functions to construct an error
value to return it to the library.
@end deftypefun

The @code{libgpg-error} library provides error codes for all system
error numbers it knows about. If @var{err} is an unknown error
number, the error code @code{GPG_ERR_UNKNOWN_ERRNO} is used. The
following functions can be used to construct error values from system
errno numbers.

@deftypefun {gpgme_error_t} gpgme_err_make_from_errno (@w{gpgme_err_source_t @var{source}},
@w{int @var{err}})
The function @code{gpgme_err_make_from_errno} is like
@code{gpgme_err_make}, but it takes a system error like @code{errno}
instead of a @code{gpgme_err_code_t} error code.
@end deftypefun

@deftypefun {gpgme_error_t} gpgme_error_from_errno (@w{int @var{err}})

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 39138
The function \texttt{gpgme_error_from_errno} is like \texttt{gpgme_error}, but it takes a system error like \texttt{errno} instead of a \texttt{gpgme_err_code_t} error code.

Sometimes you might want to map system error numbers to error codes directly, or map an error code representing a system error back to the system error number. The following functions can be used to do that.

\begin{verbatim}
@deftypefun {gpgme_err_code_t} gpgme_err_code_from_errno (@w{int @var{err}})
The function \texttt{gpgme_err_code_from_errno} returns the error code for the system error \texttt{@var{err}}. If \texttt{@var{err}} is not a known system error, the function returns \texttt{GPG_ERR_UNKNOWN_ERRNO}.
@end deftypefun
\end{verbatim}

\begin{verbatim}
@deftypefun {int} gpgme_err_code_to_errno (@w{gpgme_err_code_t @var{err}})
The function \texttt{gpgme_err_code_to_errno} returns the system error for the error code \texttt{@var{err}}. If \texttt{@var{err}} is not an error code representing a system error, or if this system error is not defined on this system, the function returns \texttt{0}.
@end deftypefun
\end{verbatim}

The library \texttt{libgpg-error} defines an error source for every component of the GnuPG system. The error source part of an error value is not well defined. As such it is mainly useful to improve the diagnostic error message for the user.

If the error code part of an error value is \texttt{0}, the whole error value will be \texttt{0}. In this case the error source part is of course \texttt{GPG_ERR_SOURCE_UNKNOWN}.

The list of error sources that might occur in applications using \texttt{GPGME} is:

\begin{table}[h]
\begin{tabular}{|l|
\hline
\item GPG\_ERR\_SOURCE\_UNKNOWN & The error source is not known. The value of this error source is \texttt{0}. \\
\item GPG\_ERR\_SOURCE\_GPGME & The error source is \texttt{GPGME} itself. This is the default for errors that occur in the \texttt{GPGME} library. \\
\hline
\end{tabular}
\end{table}
@item GPG_ERR_SOURCE_GPG
The error source is GnuPG, which is the crypto engine used for the
OpenPGP protocol.

@item GPG_ERR_SOURCE_GPGSM
The error source is GPGSM, which is the crypto engine used for the
CMS protocol.

@item GPG_ERR_SOURCE_GCRYPT
The error source is @code{libgcrypt}, which is used by crypto engines
to perform cryptographic operations.

@item GPG_ERR_SOURCE_GPGAGENT
The error source is @command{gpg-agent}, which is used by crypto
engines to perform operations with the secret key.

@item GPG_ERR_SOURCE_PINENTRY
The error source is @command{pinentry}, which is used by
@command{gpg-agent} to query the passphrase to unlock a secret key.

@item GPG_ERR_SOURCE_SCD
The error source is the SmartCard Daemon, which is used by
@command{gpg-agent} to delegate operations with the secret key to a
SmartCard.

@item GPG_ERR_SOURCE_KEYBOX
The error source is @code{libkbx}, a library used by the crypto
engines to manage local keyrings.

@item GPG_ERR_SOURCE_USER_1
@item GPG_ERR_SOURCE_USER_2
@item GPG_ERR_SOURCE_USER_3
@item GPG_ERR_SOURCE_USER_4
These error sources are not used by any GnuPG component and can be
used by other software. For example, applications using
@acronym{GPGME} can use them to mark error values coming from callback
handlers. Thus @code{GPG_ERR_SOURCE_USER_1} is the default for errors
created with @code{gpgme_error} and @code{gpgme_error_from_errno},
unless you define @code{GPGME_ERR_SOURCE_DEFAULT} before including
@file{gpgme.h}.
@end table

@node Error Codes
@section Error Codes
@cindex error codes, list of

The library @code{libgpg-error} defines many error values. Most of
them are not used by @code{GPGME} directly, but might be returned by
@acronym{GPGME} because it received them from the crypto engine. The
below list only includes such error codes that have a specific meaning
in @code{GPGME}, or which are so common that you should know about
them.

@table @code
@item GPG_ERR_EOF
This value indicates the end of a list, buffer or file.

@item GPG_ERR_NO_ERROR
This value indicates success. The value of this error code is
@code{0}. Also, it is guaranteed that an error value made from the
error code @code{0} will be @code{0} itself (as a whole). This means
that the error source information is lost for this error code,
however, as this error code indicates that no error occurred, this is
generally not a problem.

@item GPG_ERR_GENERAL
This value means that something went wrong, but either there is not
enough information about the problem to return a more useful error
value, or there is no separate error value for this type of problem.

@item GPG_ERR_ENOMEM
This value means that an out-of-memory condition occurred.

@item GPG_ERR_E...
System errors are mapped to GPG_ERR_FOO where FOO is the symbol for
the system error.

@item GPG_ERR_INV_VALUE
This value means that some user provided data was out of range. This
can also refer to objects. For example, if an empty
@code{gpgme_data_t} object was expected, but one containing data was
provided, this error value is returned.

@item GPG_ERR_UNUSABLE_PUBKEY
This value means that some recipients for a message were invalid.

@item GPG_ERR_UNUSABLE_SECKEY
This value means that some signers were invalid.

@item GPG_ERR_NO_DATA
This value means that a @code{gpgme_data_t} object which was expected
to have content was found empty.

@item GPG_ERR_CONFLICT
This value means that a conflict of some sort occurred.
@item GPG_ERR_NOT_IMPLEMENTED
This value indicates that the specific function (or operation) is not implemented. This error should never happen. It can only occur if you use certain values or configuration options which do not work, but for which we think that they should work at some later time.

@item GPG_ERR_DECRYPT_FAILED
This value indicates that a decryption operation was unsuccessful.

@item GPG_ERR_BAD_PASSPHRASE
This value means that the user did not provide a correct passphrase when requested.

@item GPG_ERR_CANCELED
This value means that the operation was canceled.

@item GPG_ERR_INV_ENGINE
This value means that the engine that implements the desired protocol is currently not available. This can either be because the sources were configured to exclude support for this engine, or because the engine is not installed properly.

@item GPG_ERR_AMBIGUOUS_NAME
This value indicates that a user ID or other specifier did not specify a unique key.

@item GPG_ERR_WRONG_KEY_USAGE
This value indicates that a key is not used appropriately.

@item GPG_ERR_CERT_REVOKED
This value indicates that a key signature was revoked.

@item GPG_ERR_CERT_EXPIRED
This value indicates that a key signature expired.

@item GPG_ERR_NO_CRL_KNOWN
This value indicates that no certificate revocation list is known for the certificate.

@item GPG_ERR_NO_POLICY_MATCH
This value indicates that a policy issue occurred.

@item GPG_ERR_NO_SECKEY
This value indicates that no secret key for the user ID is available.

@item GPG_ERR_MISSING_CERT
This value indicates that a key could not be imported because the
issuer certificate is missing.

@item GPG_ERR_BAD_CERT_CHAIN
This value indicates that a key could not be imported because its certificate chain is not good, for example it could be too long.

@item GPG_ERR_UNSUPPORTED_ALGORITHM
This value means a verification failed because the cryptographic algorithm is not supported by the crypto backend.

@item GPG_ERR_BAD_SIGNATURE
This value means a verification failed because the signature is bad.

@item GPG_ERR_NO_PUBKEY
This value means a verification failed because the public key is not available.

@item GPG_ERR_USER_1
@item GPG_ERR_USER_2
@item ...
@item GPG_ERR_USER_16
These error codes are not used by any GnuPG component and can be freely used by other software. Applications using GPGME might use them to mark specific errors returned by callback handlers if no suitable error codes (including the system errors) for these errors exist already.
@end table

@node Error Strings
@section Error Strings
@cindex error values, printing of
@cindex error codes, printing of
@cindex error sources, printing of
@cindex error strings

@deftypefun {const char *} gpgme_strerror (@w{gpgme_error_t @var{err}})
The function gpgme_strerror returns a pointer to a statically allocated string containing a description of the error code contained in the error value @var{err}. This string can be used to output a diagnostic message to the user.

This function is not thread safe. Use gpgme_strerror_r in multi-threaded programs.
@end deftypefun

@deftypefun {int} gpgme_strerror_r (@w{gpgme_error_t @var{err}}, @w{char *@var{buf}}, @w{size_t
The function `gpgme_strerror_r` returns the error string for `@var{err}` in the user-supplied buffer `@var{buf}` of size `@var{buflen}`. This function is, in contrast to `gpgme_strerror`, thread-safe if a thread-safe `strerror_r` function is provided by the system. If the function succeeds, 0 is returned and `@var{buf}` contains the string describing the error. If the buffer was not large enough, ERANGE is returned and `@var{buf}` contains as much of the beginning of the error string as fits into the buffer.

The function `gpgme_strerror` returns a pointer to a statically allocated string containing a description of the error source contained in the error value `@var{err}`. This string can be used to output a diagnostic message to the user.

The following example illustrates the use of `gpgme_strerror`:

```c
example
gpgme_ctx_t ctx;
gpgme_error_t err = gpgme_new (&ctx);
if (err)
{
    fprintf (stderr, "%s: creating GpgME context failed: %s: %s\n", 
                argv[0], gpgme_strsource (err), gpgme_strerror (err));
    exit (1);
}
@end example
```

A lot of data has to be exchanged between the user and the crypto engine, like plaintext messages, ciphertext, signatures and information about the keys. The technical details about exchanging the data information are completely abstracted by `GPGME`. The user provides and receives the data via `gpgme_data_t` objects, regardless of the communication protocol between `GPGME` and the crypto engine in use.

The `gpgme_data_t` type is a handle for a container for generic data, which is used by `GPGME` to exchange data with the user.
@code{gpgme_data_t} objects do not provide notifications on events. It is assumed that read and write operations are blocking until data is available. If this is undesirable, the application must ensure that all GPGME data operations always have data available, for example by using memory buffers or files rather than pipes or sockets. This might be relevant, for example, if the external event loop mechanism is used.

@deftp {Data type} {gpgme_off_t}
@since{1.4.1}

On POSIX platforms the @code{gpgme_off_t} type is an alias for @code{off_t}: it may be used interchangeable. On Windows platforms @code{gpgme_off_t} is defined as a long (i.e. 32 bit) for 32 bit Windows and as a 64 bit signed integer for 64 bit Windows.

@deftp {Data type} {gpgme_ssize_t}
The @code{gpgme_ssize_t} type is an alias for @code{ssize_t}. It has only been introduced to overcome portability problems pertaining to the declaration of @code{ssize_t} by different toolchains.

@menu
* Creating Data Buffers:: Creating new data buffers.
* Destroying Data Buffers:: Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.
@end menu

@node Creating Data Buffers
@section Creating Data Buffers
@cindex data buffer, creation

Data objects can be based on memory, files, or callback functions provided by the user. Not all operations are supported by all objects.

@menu
* Memory Based Data Buffers:: Creating memory based data buffers.
* File Based Data Buffers:: Creating file based data buffers.
* Callback Based Data Buffers:: Creating callback based data buffers.
@end menu
Memory based data objects store all data in allocated memory. This is
convenient, but only practical for an amount of data that is a
fraction of the available physical memory. The data has to be copied
from its source and to its destination, which can often be avoided by
using one of the other data object

The function `gpgme_data_new` creates a new `gpgme_data_t` object and returns a handle for it in `dh`. The data object is
memory based and initially empty.

The function returns the error code `GPG_ERR_NO_ERROR` if the
data object was successfully created, `GPG_ERR_INV_VALUE` if
`dh` is not a valid pointer, and `GPG_ERR_ENOMEM` if not
enough memory is available.

The function `gpgme_data_new_from_mem` creates a new
`gpgme_data_t` object and fills it with `size` bytes starting
from `buffer`.

If `copy` is not zero, a private copy of the data is made. If
`copy` is zero, the data is taken from the specified buffer as
needed, and the user has to ensure that the buffer remains valid for
the whole life span of the data object.

The function returns the error code `GPG_ERR_NO_ERROR` if the
data object was successfully created, `GPG_ERR_INV_VALUE` if
`dh` or `buffer` is not a valid pointer, and
`GPG_ERR_ENOMEM` if not enough memory is available.

The function `gpgme_data_new_from_file` creates a new
`gpgme_data_t` object and fills it with the content of the file
`filename`.

If `copy` is not zero, the whole file is read in at initialization
time and the file is not used anymore after that. This is the only
mode supported currently. Later, a value of zero for `copy` might
cause all reads to be delayed until the data is needed, but this is
The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, @code{GPG_ERR_INV_VALUE} if @var{dh} or @var{filename} is not a valid pointer, @code{GPG_ERR_NOT_IMPLEMENTED} if @var{code} is zero, and @code{GPG_ERR_ENOMEM} if not enough memory is available.

@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_from_filepart (@w{gpgme_data_t *@var{dh}}, @w{const char *@var{filename}}, @w{FILE *@var{fp}}, @w{off_t @var{offset}}, @w{size_t @var{length}})

The function @code{gpgme_data_new_from_filepart} creates a new @code{gpgme_data_t} object and fills it with a part of the file specified by @var{filename} or @var{fp}.

Exactly one of @var{filename} and @var{fp} must be non-zero, the other must be zero. The argument that is not zero specifies the file from which @var{length} bytes are read into the data object, starting from @var{offset}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, @code{GPG_ERR_INV_VALUE} if @var{dh} and exactly one of @var{filename} and @var{fp} is not a valid pointer, and @code{GPG_ERR_ENOMEM} if not enough memory is available.

@end deftypefun

@node File Based Data Buffers
@subsection File Based Data Buffers

File based data objects operate directly on file descriptors or streams. Only a small amount of data is stored in core at any time, so the size of the data objects is not limited by @acronym{GPGME}.

@deftypefun gpgme_error_t gpgme_data_new_from_fd (@w{gpgme_data_t *@var{dh}}, @w{int @var{fd}})

The function @code{gpgme_data_new_from_fd} creates a new @code{gpgme_data_t} object and uses the file descriptor @var{fd} to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the file descriptor than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the file descriptor is set to blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.
The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, and @code{GPG_ERR_ENOMEM} if not enough memory is available.
@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_from_stream (@w{gpgme_data_t *}@var{dh}, @w{FILE *}@var{stream})
The function @code{gpgme_data_new_from_stream} creates a new @code{gpgme_data_t} object and uses the I/O stream @var{stream} to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, and @code{GPG_ERR_ENOMEM} if not enough memory is available.
@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_from_estream (@w{gpgme_data_t *}@var{dh}, @w{gpgrt_stream_t @var{stream}})
The function @code{gpgme_data_new_from_estream} creates a new @code{gpgme_data_t} object and uses the gpgrt stream @var{stream} to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, and @code{GPG_ERR_ENOMEM} if not enough memory is available.
@end deftypefun

@node Callback Based Data Buffers
@subsection Callback Based Data Buffers
If neither memory nor file based data objects are a good fit for your application, you can implement the functions a data object provides yourself and create a data object from these callback functions.

@deftp {Data type} {ssize_t (*gpgme_data_read_cb_t) (@w{void *@var{handle}}, @w{void *@var{buffer}}, @w{size_t @var{size}})}
@tindex gpgme_data_read_cb_t
The @code{gpgme_data_read_cb_t} type is the type of functions which @acronym{GPGME} calls if it wants to read data from a user-implemented data object. The function should read up to @var{size} bytes from the current read position into the space starting at @var{buffer}. The @var{handle} is provided by the user at data object creation time.

Note that GPGME assumes that the read blocks until data is available. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function should return the number of bytes read, 0 on EOF, and -1 on error. If an error occurs, @var{errno} should be set to describe the type of the error.
@end deftp

@deftp {Data type} {ssize_t (*gpgme_data_write_cb_t) (@w{void *@var{handle}}, @w{const void *@var{buffer}}, @w{size_t @var{size}})}
@tindex gpgme_data_write_cb_t
The @code{gpgme_data_write_cb_t} type is the type of functions which @acronym{GPGME} calls if it wants to write data to a user-implemented data object. The function should write up to @var{size} bytes to the current write position from the space starting at @var{buffer}. The @var{handle} is provided by the user at data object creation time.

Note that GPGME assumes that the write blocks until data is available. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function should return the number of bytes written, and -1 on error. If an error occurs, @var{errno} should be set to describe the type of the error.
@end deftp

@deftp {Data type} {off_t (*gpgme_data_seek_cb_t) (@w{void *@var{handle}}, @w{off_t @var{offset}}, @w{int @var{whence}})}
@tindex gpgme_data_seek_cb_t
The @code{gpgme_data_seek_cb_t} type is the type of functions which @acronym{GPGME} calls if it wants to change the current read/write position in a user-implemented data object, just like the @code{lseek} function.
The function should return the new read/write position, and -1 on error. If an error occurs, @var{errno} should be set to describe the type of the error.
@end deftp

@end deftp {Data type} {void (*gpgme_data_release_cb_t) (@w{void *@var{handle}}))}
@end index gpgme_data_release_cb_t

The @code{gpgme_data_release_cb_t} type is the type of functions which @acronym{GPGME} calls if it wants to destroy a user-implemented data object. The @var{handle} is provided by the user at data object creation time.
@end deftp

@end deftp {Data type} {struct gpgme_data_cbs}

This structure is used to store the data callback interface functions described above. It has the following members:

@table @code
@item gpgme_data_read_cb_t read
This is the function called by @acronym{GPGME} to read data from the data object. It is only required for input data object.

@item gpgme_data_write_cb_t write
This is the function called by @acronym{GPGME} to write data to the data object. It is only required for output data object.

@item gpgme_data_seek_cb_t seek
This is the function called by @acronym{GPGME} to change the current read/write pointer in the data object (if available). It is optional.

@item gpgme_data_release_cb_t release
This is the function called by @acronym{GPGME} to release a data object. It is optional.
@end table
@end deftp

@end deftypefun gpgme_error_t gpgme_data_new_from_cbs (@w{gpgme_data_t *@var{dh}},
@w{gpgme_data_cbs_t @var{cbs}}, @w{void *@var{handle}}))

The function @code{gpgme_data_new_from_cbs} creates a new @code{gpgme_data_t} object and uses the user-provided callback functions to operate on the data object.

The handle @var{handle} is passed as first argument to the callback functions. This can be used to identify this data object.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, and @code{GPG_ERR_ENOMEM} if not
@node Destroying Data Buffers
@section Destroying Data Buffers
@cindex data buffer, destruction
@deftypefun void gpgme_data_release (@w{gpgme_data_t @var{dh}})
The function @code{gpgme_data_release} destroys the data object with the handle @var{dh}. It releases all associated resources that were not provided by the user in the first place.
@end deftypefun

@deftypefun {char *} gpgme_data_release_and_get_mem (@w{gpgme_data_t @var{dh}}, @w{size_t *@var{length}})
The function @code{gpgme_data_release_and_get_mem} is like @code{gpgme_data_release}, except that it returns the data buffer and its length that was provided by the object.

The user has to release the buffer with @code{gpgme_free}. In case the user provided the data buffer in non-copy mode, a copy will be made for this purpose.

In case an error returns, or there is no suitable data buffer that can be returned to the user, the function will return @code{NULL}. In any case, the data object @var{dh} is destroyed.
@end deftypefun

@deftypefun void gpgme_free (@w{void *@var{buffer}})
@since{1.1.1}
The function @code{gpgme_free} releases the memory returned by @code{gpgme_data_release_and_get_mem} and @code{gpgme_pubkey_algo_string}. It should be used instead of the system libraries @code{free} function in case different allocators are used by a program. This is often the case if gpgme is used under Windows as a DLL.
@end deftypefun

@node Manipulating Data Buffers
@section Manipulating Data Buffers
@cindex data buffer, manipulation
Data buffers contain data and meta-data. The following operations can be used to manipulate both.
@menu
* Data Buffer I/O Operations:: I/O operations on data buffers.
* Data Buffer Meta-Data:: Meta-data manipulation of data buffers.
* Data Buffer Convenience:: Convenience function for data buffers.
@end menu

@node Data Buffer I/O Operations
@subsection Data Buffer I/O Operations
@cindex data buffer, I/O operations
@cindex data buffer, read
@cindex data buffer, write
@cindex data buffer, seek

@deftypefun ssize_t gpgme_data_read (@w{gpgme_data_t @var{dh}}, @w{void *@var{buffer}}, @w{size_t @var{length}})
The function @code{gpgme_data_read} reads up to @var{length} bytes from the data object with the handle @var{dh} into the space starting at @var{buffer}.
If no error occurs, the actual amount read is returned. If the end of the data object is reached, the function returns 0.
In all other cases, the function returns -1 and sets @var{errno}.
@end deftypefun

@deftypefun ssize_t gpgme_data_write (@w{gpgme_data_t @var{dh}}, @w{const void *@var{buffer}}, @w{size_t @var{size}})
The function @code{gpgme_data_write} writes up to @var{size} bytes starting from @var{buffer} into the data object with the handle @var{dh} at the current write position.
The function returns the number of bytes actually written, or -1 if an error occurs. If an error occurs, @var{errno} is set.
@end deftypefun

@deftypefun off_t gpgme_data_seek (@w{gpgme_data_t @var{dh}}, @w{off_t @var{offset}}, @w{int @var{whence}})
The function @code{gpgme_data_seek} changes the current read/write position.
The @var{whence} argument specifies how the @var{offset} should be interpreted. It must be one of the following symbolic constants:

@table @code
@item SEEK_SET
Specifies that @var{offset} is a count of characters from the beginning of the data object.

@item SEEK_CUR
Specifies that @var{offset} is a count of characters from the current file position. This count may be positive or negative.

@item SEEK_END
Specifies that @var{offset} is a count of characters from the end of the data object. A negative count specifies a position within the current extent of the data object; a positive count specifies a position past the current end. If you set the position past the current end, and actually write data, you will extend the data object with zeros up to that position.

If successful, the function returns the resulting file position, measured in bytes from the beginning of the data object. You can use this feature together with @code{SEEK_CUR} to read the current read/write position.

If the function fails, -1 is returned and @var{errno} is set.

The function @code{gpgme_data_get_file_name} returns a pointer to a string containing the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

If no error occurs, the string containing the file name is returned. Otherwise, @code{NULL} will be returned.

The function @code{gpgme_error_t gpgme_data_set_file_name} returns a pointer to a string containing the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

If no error occurs, the string containing the file name is returned. Otherwise, @code{NULL} will be returned.
The function @code{gpgme_data_set_file_name} sets the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{dh} is not a valid pointer and @code{GPG_ERR_ENOMEM} if not enough memory is available.
@end deftypefun

@deftp {Data type} {enum gpgme_data_encoding_t}
@tindex gpgme_data_encoding_t
The @code{gpgme_data_encoding_t} type specifies the encoding of a @code{gpgme_data_t} object. For input data objects, the encoding is useful to give the backend a hint on the type of data. For output data objects, the encoding can specify the output data format on certain operations. Please note that not all backends support all encodings on all operations. The following data types are available:

@table @code
@item GPGME_DATA_ENCODING_NONE
This specifies that the encoding is not known. This is the default for a new data object. The backend will try its best to detect the encoding automatically.

@item GPGME_DATA_ENCODING_BINARY
This specifies that the data is encoding in binary form; i.e. there is no special encoding.

@item GPGME_DATA_ENCODING_BASE64
This specifies that the data is encoded using the Base-64 encoding scheme as used by @acronym{MIME} and other protocols.

@item GPGME_DATA_ENCODING_ARMOR
This specifies that the data is encoded in an armored form as used by OpenPGP and PEM.

@item GPGME_DATA_ENCODING_MIME
@since{1.7.0}
This specifies that the data is encoded as a MIME part.

@item GPGME_DATA_ENCODING_URL
@since{1.2.0}
The data is a list of linefeed delimited URLs. This is only useful with
The data is a list of binary zero delimited URLs. This is only useful with `gpgme_op_import`.

The data is a list of linefeed delimited URLs with all control and space characters percent escaped. This mode is not yet implemented.

Some minor properties of the data object can be controlled with flags set by this function. The properties are identified by the following values for `name`:

```
@table
@item size-hint
The value is a decimal number with the length `gpgme` shall assume for this data object. This is useful if the data is provided by callbacks or via file descriptors but the applications knows the total size of the data. If this is set the OpenPGP engine may use this to decide on buffer allocation strategies and to provide a total value for its
```
progress information.
@end table

This function returns @code{0} on success.
@end deftypefun

---

@node Data Buffer Convenience
@subsection Data Buffer Convenience Functions
@cindex data buffer, convenience
@cindex type of data
@cindex identify

@deftp {Data type} {enum gpgme_data_type_t}
@tindex gpgme_data_type_t
@since{1.4.3}

The @code{gpgme_data_type_t} type is used to return the detected type of the content of a data buffer.
@end deftp

@table @code
@item GPGME_DATA_TYPE_INVALID
This is returned by @code{gpgme_data_identify} if it was not possible to identify the data. Reasons for this might be a non-seekable stream or a memory problem. The value is 0.

@item GPGME_DATA_TYPE_UNKNOWN
The type of the data is not known.

@item GPGME_DATA_TYPE_PGP_SIGNED
The data is an OpenPGP signed message. This may be a binary signature, a detached one or a cleartext signature.

@item GPGME_DATA_TYPE_PGP_ENCRYPTED
@since{1.7.0}

The data is an OpenPGP encrypted message.

@item GPGME_DATA_TYPE_PGP_SIGNATURE
@since{1.7.0}

The data is an OpenPGP detached signature.

@item GPGME_DATA_TYPE_PGP_OTHER
This is a generic OpenPGP message. In most cases this will be encrypted data.

@item GPGME_DATA_TYPE_PGP_KEY
This is an OpenPGP key (private or public).

@item GPGME_DATA_TYPE_CMS_SIGNED
This is a CMS signed message.

@item GPGME_DATA_TYPE_CMS_ENCRYPTED

---
This is a CMS encrypted (enveloped data) message.
@item GPGME_DATA_TYPE_CMS_OTHER
This is used for other CMS message types.
@item GPGME_DATA_TYPE_X509_CERT
The data is a X.509 certificate
@item GPGME_DATA_TYPE_PKCS12
The data is a PKCS#12 message. This is commonly used to exchange private keys for X.509.
@end table

@deftypefun gpgme_data_type_t gpgme_data_identify (@w{gpgme_data_t @var{dh}})
@since{1.4.3}
The function @code{gpgme_data_identify} returns the type of the data with the handle @var{dh}. If it is not possible to perform the identification, the function returns zero (@code{GPGME_DATA_TYPE_INVALID}). Note that depending on how the data object has been created the identification may not be possible or the data object may change its internal state (file pointer moved). For file or memory based data object, the state should not change.
@end deftypefun

@c
@c    Chapter Contexts
@c
@node Contexts
@chapter Contexts
@cindex context
All cryptographic operations in @acronym{GPGME} are performed within a context, which contains the internal state of the operation as well as configuration parameters. By using several contexts you can run several cryptographic operations in parallel, with different configuration.

@deftp {Data type} {gpgme_ctx_t}
The @code{gpgme_ctx_t} type is a handle for a @acronym{GPGME} context, which is used to hold the configuration, status and result of cryptographic operations.
@end deftp

@menu
* Creating Contexts:: Creating new @acronym{GPGME} contexts.
* Destroying Contexts:: Releasing @acronym{GPGME} contexts.
* Result Management:: Managing the result of crypto operations.
* Context Attributes:: Setting properties of a context.
* Key Management:: Managing keys with @acronym{GPGME}.
@end menu
* Trust Item Management:: Managing trust items with @acronym{GPGME}.
* Crypto Operations:: Using a context for cryptography.
* Miscellaneous:: Miscellaneous operations
* Run Control:: Controlling how operations are run.
@end menu

@node Creating Contexts
@section Creating Contexts
@cindex context, creation
@deftypefun gpgme_error_t gpgme_new (@w{gpgme_ctx_t *@var{ctx}})
The function @code{gpgme_new} creates a new @code{gpgme_ctx_t} object and returns a handle for it in @var{ctx}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the context was successfully created, @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and @code{GPG_ERR_ENOMEM} if not enough memory is available. Also, it returns @code{GPG_ERR_NOT_OPERATIONAL} if @code{gpgme_check_version} was not called to initialize GPGME, and @code{GPG_ERR_SELFTEST_FAILED} if a selftest failed. Currently, the only selftest is for Windows MingW32 targets to see if @code{-mms-bitfields} was used (as required).
@end deftypefun

@node Destroying Contexts
@section Destroying Contexts
@cindex context, destruction
@deftypefun void gpgme_release (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_release} destroys the context with the handle @var{ctx} and releases all associated resources.
@end deftypefun

@node Result Management
@section Result Management
@cindex context, result of operation
The detailed result of an operation is returned in operation-specific structures such as @code{gpgme_decrypt_result_t}. The corresponding retrieval functions such as @code{gpgme_op_decrypt_result} provide static access to the results after an operation completes. Those structures shall be considered read-only and an application must not allocate such a structure on its own. The following interfaces make it possible to detach a result structure from its associated context and give it a lifetime beyond that of the current operation or
@deftypefun void gpgme_result_ref (@w{void *@var{result}})
@since{1.2.0}

The function @code{gpgme_result_ref} acquires an additional reference for the result @var{result}, which may be of any type @code{gpgme_*_result_t}. As long as the user holds a reference, the result structure is guaranteed to be valid and unmodified.
@end deftypefun

@deftypefun void gpgme_result_unref (@w{void *@var{result}})
@since{1.2.0}

The function @code{gpgme_result_unref} releases a reference for the result @var{result}. If this was the last reference, the result structure will be destroyed and all resources associated to it will be released.
@end deftypefun

Note that a context may hold its own references to result structures, typically until the context is destroyed or the next operation is started. In fact, these references are accessed through the @code{gpgme_op_*_result} functions.

@section Context Attributes
@node Context Attributes
@cindex context, attributes
@menu
* Protocol Selection:: Selecting the protocol used by a context.
* Crypto Engine:: Configuring the crypto engine.
* Setting the Sender:: How to tell the engine the sender.
* ASCII Armor:: Requesting @acronym{ASCII} armored output.
* Text Mode:: Choosing canonical text mode.
* Offline Mode:: Choosing offline mode.
* Pinentry Mode:: Choosing the pinentry mode.
* Included Certificates:: Including a number of certificates.
* Key Listing Mode:: Selecting key listing mode.
* Passphrase Callback:: Getting the passphrase from the user.
* Progress Meter Callback:: Being informed about the progress.
* Status Message Callback:: Status messages received from gpg.
* Context Flags:: Additional flags for a context.
* Locale:: Setting the locale of a context.
* Additional Logs:: Additional logs of a context.
@end menu
The function `gpgme_set_protocol` sets the protocol used within the context `ctx` to `proto`. All crypto operations will be performed by the crypto engine configured for that protocol.  

The function returns the error code `GPG_ERR_NO_ERROR` if the protocol could be set successfully, and `GPG_ERR_INV_VALUE` if `proto` is not a valid protocol.

The function `gpgme_get_protocol` retrieves the protocol currently use with the context `ctx`.

The following functions can be used to set and retrieve the configuration of the crypto engines of a specific context. The default can also be retrieved without any particular context. The default can also be changed globally.

The function `gpgme_get_engine_info` returns a linked list of engine info structures. Each info structure describes the configuration of one configured backend, as used by the context.

The result is valid until the next invocation of
This function can not fail.
@end deftypefun

The function @code{gpgme_ctx_set_engine_info} changes the
configuration of the crypto engine implementing the protocol
@var{proto} for the context @var{ctx}.

@var{file_name} is the file name of the executable program
implementing this protocol, and @var{home_dir} is the directory name
of the configuration directory for this crypto engine. If
@var{home_dir} is @code{NULL}, the engine's default will be used.

Currently this function must be used before starting the first crypto
operation. It is unspecified if and when the changes will take effect
if the function is called after starting the first operation on the
context @var{ctx}.

This function returns the error code @code{GPG_ERR_NO_ERROR} if
successful, or an error code on failure.
@end deftypefun

@node Setting the Sender
@subsection How to tell the engine the sender.
@cindex context, sender
@cindex sender
@cindex From:

Some engines can make use of the senders address, for example to
figure out the best user id in certain trust models. For verification
and signing of mails, it is thus suggested to let the engine know the
sender ("From:" address. @acronym{GPGME} provides two functions to
accomplish that. Note that the esoteric use of multiple "From:"
addresses is not supported.

The function @code{gpgme_set_sender} specifies the sender address for
use in sign and verify operations. \texttt{address} is expected to be the \``addr-spec'' part of an address but my also be a complete mailbox address, in which case this function extracts the \``addr-spec'' from it. Using \texttt{NULL} for \texttt{address} clears the sender address.

The function returns 0 on success or an error code on failure. The most likely failure is that no valid \``addr-spec'' was found in \texttt{address}.

@end deftypefun

@end deftypefun

@deftypefun {const char *} gpgme_get_sender (@w{gpgme_ctx_t @var{ctx}})
@since{1.8.0}

The function \texttt{gpgme_get_sender} returns the current sender address from the context, or NULL if none was set. The returned value is valid as long as the \texttt{ctx} is valid and \texttt{gpgme_set_sender} has not been called again.

@end deftypefun

@c FIXME: Unfortunately, using \acronym{ASCII} Armor
@cindex context, armor mode
@cindex \acronym{ASCII} armor
@cindex armor mode

@deftypefun void gpgme_set_armor (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{yes}})

The function \texttt{gpgme_set_armor} specifies if the output should be \acronym{ASCII} armored. By default, output is not \acronym{ASCII} armored. \acronym{ASCII} armored output is disabled if \texttt{yes} is zero, and enabled otherwise.

@end deftypefun

@deftypefun int gpgme_get_armor (@w{gpgme_ctx_t @var{ctx}})

The function \texttt{gpgme_get_armor} returns 1 if the output is \acronym{ASCII} armored, and \texttt{0} if it is not, or if \texttt{var} is not a valid pointer.

@end deftypefun
The function `gpgme_set_textmode` specifies if canonical text mode should be used. By default, text mode is not used.

Text mode is for example used for the RFC2015 signatures; note that the updated RFC 3156 mandates that the mail user agent does some preparations so that text mode is not needed anymore.

This option is only relevant to the OpenPGP crypto engine, and ignored by all other engines.

Canonical text mode is disabled if `@var{yes}` is zero, and enabled otherwise.

The function `gpgme_get_textmode` returns 1 if canonical text mode is enabled, and 0 if it is not, or if `@var{ctx}` is not a valid pointer.

The details of the offline mode depend on the used protocol and its backend engine. It may eventually be extended to be more stricter and for example completely disable the use of Dirmngr for any engine.

For the CMS protocol the offline mode specifies whether Dirmngr shall be used to do additional validation that might require connecting external services (e.g. CRL / OCSP checks). Here the offline mode only affects the keylist mode `GPGME_KEYLIST_MODE_VALIDATE`.
For the OpenPGP protocol offline mode entirely disables the use of the Dirmngr and will thus guarantee that no network connections are done as part of an operation on this context. It has only an effect with GnuPG versions 2.1.23 or later.

For all other protocols the offline mode is currently ignored.

@end deftypefun

@end deftypefun int gpgme_get_offline (@w{gpgme_ctx_t @var{ctx}})
@sinc{1.6.0}

The function @code{gpgme_get_offline} returns 1 if offline mode is enabled, and @code{0} if it is not, or if @var{ctx} is not a valid pointer.
@end deftypefun

@node Pinentry Mode
@subsection Pinentry Mode
@cindex context, pinentry mode
@cindex pinentry mode

@deftypefun gpgme_error_t gpgme_set_pinentry_mode (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_pinentry_mode_t @var{mode}})
@sinc{1.4.0}

The function @code{gpgme_set_pinentry_mode} specifies the pinentry mode to be used.

For GnuPG >= 2.1 this option is required to be set to @code{GPGME_PINENTRY_MODE_LOOPBACK} to enable the passphrase callback mechanism in GPGME through @code{gpgme_set_passphrase_cb}.
@end deftypefun

@end deftypefun gpgme_pinentry_mode_t gpgme_get_pinentry_mode (@w{gpgme_ctx_t @var{ctx}})
@sinc{1.4.0}

The function @code{gpgme_get_pinentry_mode} returns the mode set for the context.
@end deftypefun

@end deftp {Data type} {enum gpgme_pinentry_mode_t}
@tindex gpgme_pinentry_mode_t
@since{1.4.0}
The @code{gpgme_minentry_mode_t} type specifies the set of possible pinentry modes that are supported by @acronym{GPGME} if GnuPG >= 2.1 is used. The following modes are supported:

@table @code
@item GPGME_PINENTRY_MODE_DEFAULT
@since{1.4.0}
Use the default of the agent, which is ask.

@item GPGME_PINENTRY_MODE_ASK
@since{1.4.0}
Force the use of the Pinentry.

@item GPGME_PINENTRY_MODE_CANCEL
@since{1.4.0}
Emulate use of Pinentry's cancel button.

@item GPGME_PINENTRY_MODE_ERROR
@since{1.4.0}
Return a Pinentry error @code{No Pinentry}.

@item GPGME_PINENTRY_MODE_LOOPBACK
@since{1.4.0}
Redirect Pinentry queries to the caller. This enables the use of @code{gpgme_set_passphrase_cb} because pinentry queries are redirected to gpgme.

Note: For 2.1.0 - 2.1.12 this mode requires @code{allow-loopback-pinentry} to be enabled in the @file{gpg-agent.conf} or an agent started with that option.
@end table
@end deftp

@node Included Certificates
@subsection Included Certificates
@cindex certificates, included
@deftypefun void gpgme_set_include_certs (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{nr_of certs}})
The function @code{gpgme_set_include_certs} specifies how many certificates should be included in an S/MIME signed message. By default, only the sender's certificate is included. The possible values of @var{nr_of certs} are:
Fall back to the default of the crypto backend. This is the default for GPGME.

- Include all certificates except the root certificate.
- Include all certificates.
- Include no certificates.
- Include the sender's certificate only.
- Include the first n certificates of the certificates path, starting from the sender's certificate. The number n must be positive.

Values of nr_of_certs smaller than -2 are undefined.

This option is only relevant to the CMS crypto engine, and ignored by all other engines.

The function gpgme_get_include_certs returns the number of certificates to include into an S/MIME signed message.
Using only this option results in a `--list-keys`.

@item GPGME_KEYLIST_MODE_EXTERN
The `GPGME_KEYLIST_MODE_EXTERN` symbol specifies that an external source should be searched for keys in the keylisting operation. The type of external source is dependent on the crypto engine used and whether it is combined with `GPGME_KEYLIST_MODE_LOCAL`. For example, it can be a remote keys server or LDAP certificate server.

Using only this option results in a `--search-keys` for `GPGME_PROTOCOL_OpenPGP` and something similar to `--list-external-keys` for `GPGME_PROTOCOL_CMS`.

@item GPGME_KEYLIST_MODE_LOCATE
This is a shortcut for the combination of `GPGME_KEYLIST_MODE_LOCAL` and `GPGME_KEYLIST_MODE_EXTERN`, which results in a `--locate-keys` for `GPGME_PROTOCOL_OpenPGP`.

@item GPGME_KEYLIST_MODE_SIGS
The `GPGME_KEYLIST_MODE_SIGS` symbol specifies that the key signatures should be included in the listed keys.

@item GPGME_KEYLIST_MODE_SIG_NOTATIONS
@since{1.1.1}

The `GPGME_KEYLIST_MODE_SIG_NOTATIONS` symbol specifies that the signature notations on key signatures should be included in the listed keys. This only works if `GPGME_KEYLIST_MODE_SIGS` is also enabled.

@item GPGME_KEYLIST_MODE_WITH_TOFU
@since{1.7.0}

The `GPGME_KEYLIST_MODE_WITH_TOFU` symbol specifies that information pertaining to the TOFU trust model should be included in the listed keys.

@item GPGME_KEYLIST_MODE_WITH_SECRET
@since{1.5.1}

The `GPGME_KEYLIST_MODE_WITH_SECRET` returns information about the presence of a corresponding secret key in a public key listing. A public key listing with this mode is slower than a standard listing but can be used instead of a second run to list the secret keys. This is only supported for GnuPG versions >= 2.1.
The `GPGME_KEYLIST_MODE_EPHEMERAL` symbol specifies that keys flagged as ephemeral are included in the listing.

The `GPGME_KEYLIST_MODE_VALIDATE` symbol specifies that the backend should do key or certificate validation and not just get the validity information from an internal cache. This might be an expensive operation and is in general not useful. Currently only implemented for the S/MIME backend and ignored for other backends.

At least one of `GPGME_KEYLIST_MODE_LOCAL` and `GPGME_KEYLIST_MODE_EXTERN` must be specified. For future binary compatibility, you should get the current mode with

```c
@gpgme_get_keylist_mode
```

and modify it by setting or clearing the appropriate bits, and then using that calculated value in the

```c
@gpgme_set_keylisting_mode
```

operation. This will leave all other bits in the mode value intact (in particular those that are not used in the current version of the library).

The function returns the error code `GPG_ERR_NO_ERROR` if the mode could be set correctly, and `GPG_ERR_INV_VALUE` if `@var{ctx}` is not a valid pointer or `@var{mode}` is not a valid mode.

```c
gpgme_keylist_mode_t gpgme_get_keylist_mode (@w{gpgme_ctx_t @var{ctx}})
```

The function returns 0 if `@var{ctx}` is not a valid pointer, and the current mode otherwise. Note that 0 is not a valid mode value.

```c
gpgme_keylist_mode_t gpgme_set_keylist_mode (@w{gpgme_ctx_t @var{ctx}})
```

The function only affects the desired bits (and leave all others intact).

```c
gpgme_keylist_mode_t gpgme_get_keylist_mode (@w{gpgme_ctx_t @var{ctx}})
```
The `gpgme_passphrase_cb_t` type is the type of functions usable as passphrase callback function.

The argument `uid_hint` might contain a string that gives an indication for which user ID the passphrase is required. If this is not available, or not applicable (in the case of symmetric encryption, for example), `uid_hint` will be `NULL`.

The argument `passphrase_info`, if not `NULL`, will give further information about the context in which the passphrase is required. This information is engine and operation specific.

If this is the repeated attempt to get the passphrase, because previous attempts failed, then `prev_was_bad` is 1, otherwise it will be 0.

The user must write the passphrase, followed by a newline character, to the file descriptor `fd`. The function `gpgme_io_writen` should be used for the write operation. Note that if the user returns 0 to indicate success, the user must at least write a newline character before returning from the callback.

If an error occurs, return the corresponding `gpgme_error_t` value. You can use the error code `GPG_ERR_CANCELED` to abort the operation. Otherwise, return `0`.

Note: The `passphrase_cb` only works with GnuPG 1.x and 2.1.x and not with the 2.0.x series. See `gpgme_set_pinentry_mode` for more details on 2.1.x usage.

The function `gpgme_set_passphrase_cb` sets the function that is used when a passphrase needs to be provided by the user to `passfunc`. The function `passfunc` needs to implemented by the user, and whenever it is called, it is called with its first argument being `hook_value`. By default, no passphrase callback function is set.

Not all crypto engines require this callback to retrieve the passphrase. It is better if the engine retrieves the passphrase from a trusted agent (a daemon process), rather than having each user to implement their own passphrase query. Some engines do not even support an external passphrase callback at all, in this case the error
code `GPG_ERR_NOT_SUPPORTED` is returned.

For GnuPG >= 2.1 the pinentry mode has to be set to
`GPGME_PINENTRY_MODE_LOOPBACK` to enable the passphrase callback.
See `gpgme_set_pinentry_mode`.

The user can disable the use of a passphrase callback function by
calling `gpgme_set_passphrase_cb` with `passfunc` being
`NULL`.
@end deftypefun

@deftypefun void gpgme_get_passphrase_cb (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_passphrase_cb_t *@var{passfunc}}, @w{void **@var{hook_value}})
The function `gpgme_get_passphrase_cb` returns the function that
is used when a passphrase needs to be provided by the user in
`passfunc`, and the first argument for this function in
`hook_value`. If no passphrase callback is set, or `ctx` is
not a valid pointer, `NULL` is returned in both variables.

`passfunc` or `hook_value` can be `NULL`. In this case,
the corresponding value will not be returned.
@end deftypefun

@section Progress Meter Callback
@subsection Progress Meter Callback
@cindex callback, progress meter
@cindex progress meter callback
@deftp {Data type} {void (*gpgme_progress_cb_t)(void *@var{hook}, const char *@var{what}, int @var{type}, int @var{current}, int @var{total})}
@tindex gpgme_progress_cb_t
The `gpgme_progress_cb_t` type is the type of functions usable as
progress callback function.

The arguments are specific to the crypto engine. More information
about the progress information returned from the GnuPG engine can be
found in the GnuPG source code in the file `doc/DETAILS` in the
section PROGRESS.
@end deftp

@deftypefun void gpgme_set_progress_cb (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_progress_cb_t @var{progfunc}}, @w{void *@var{hook_value}})
The function `gpgme_set_progress_cb` sets the function that is
used when progress information about a cryptographic operation is
available. The function `progfunc` needs to be implemented by the
user, and whenever it is called, it is called with its first argument
being `hook_value`. By default, no progress callback function
Setting a callback function allows an interactive program to display progress information about a long operation to the user.

The user can disable the use of a progress callback function by calling `gpgme_set_progress_cb` with `progfunc` being `NULL`.

@deftypefun void gpgme_get_progress_cb (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_progress_cb_t *@var{progfunc}}, @w{void **@var{hook_value}})
The function `gpgme_get_progress_cb` returns the function that is used to inform the user about the progress made in `progfunc`, and the first argument for this function in `hook_value`. If no progress callback is set, or `ctx` is not a valid pointer, `NULL` is returned in both variables.

`progfunc` or `hook_value` can be `NULL`. In this case, the corresponding value will not be returned.
@end deftypefun

@node Status Message Callback
@subsection Status Message Callback
@cindex callback, status message
@cindex status message callback

The `gpgme_status_cb_t` type is the type of function usable as a status message callback function.

The argument `keyword` is the name of the status message while the `args` argument contains any arguments for the status message.

If an error occurs, return the corresponding `gpgme_error_t` value. Otherwise, return `0`.
@end deftp

The function `gpgme_set_status_cb` sets the function that is used when a status message is received from gpg to `statusfunc`. The function `statusfunc` needs to be implemented by the user, and whenever it is
called, it is called with its first argument being @var{hook_value}. By default, no status message callback function is set.

The user can disable the use of a status message callback function by calling @code{gpgme_set_status_cb} with @var{statusfunc} being @code{NULL}.
@end deftypefun

@deftypefun void gpgme_get_status_cb (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_status_cb_t *@var{statusfunc}}, @w{void **@var{hook_value}})
@since{1.6.0}
The function @code{gpgme_get_status_cb} returns the function that is used to process status messages from gpg in @var{*statusfunc}, and the first argument for this function in @var{*hook_value}. If no status message callback is set, or @var{ctx} is not a valid pointer, @code{NULL} is returned in both variables.
@end deftypefun

@node Context Flags
@subsection Context Flags
@cindex flags, of a context

@deftypefun {gpgme_error_t} gpgme_set_ctx_flag (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{name}}, @w{const char *@var{value}})
@since{1.7.0}
Some minor properties of the context can be controlled with flags set by this function. The properties are identified by the following values for @var{name}:
@table @code
@item "redraw"
This flag is normally not changed by the caller because GPGME sets and clears it automatically: The flag is cleared before an operation and set if an operation noticed that the engine has launched a Pinentry. A Curses based application may use this information to redraw the screen; for example:

@example
err = gpgme_op_keylist_start (ctx, "foo@example.org", 0);
while (!err)
{
    err = gpgme_op_keylist_next (ctx, &key);
    if (err)
        break;
@endexample
show_key (key);
gpgme_key_release (key);
}@
if ((s = gpgme_get_ctx_flag (ctx, "redraw")) && *s)
redraw_screen ();
gpgme_release (ctx);
@end example

@item "full-status"
Using a @var{value} of "1" the status callback set by
gpgme_set_status_cb returns all status lines with the exception of
PROGRESS lines. With the default of "0" the status callback is only
called in certain situations.

@item "raw-description"
Setting the @var{value} to "1" returns human readable strings in a raw
format. For example the non breaking space characters ("~~") will not
be removed from the @code{description} field of the
@code{gpgme_tofu_info_t} object.

@item "export-session-key"
Using a @var{value} of "1" specifies that the context should try to
export the symmetric session key when decrypting data. By default, or
when using an empty string or "0" for @var{value}, session keys are
not exported.

@item "override-session-key"
The string given in @var{value} is passed to the GnuPG engine to override
the session key for decryption. The format of that session key is
specific to GnuPG and can be retrieved during a decrypt operation when
the context flag "export-session-key" is enabled. Please be aware that
using this feature with GnuPG < 2.1.16 will leak the session key on
many platforms via ps(1).

@item "auto-key-retrieve"
Setting the @var{value} to "1" asks the backend to automatically
retrieve a key for signature verification if possible. Note that this
option makes a "web bug" like behavior possible. Keyserver or Web Key
Directory operators can see which keys you request, so by sending you
a message signed by a brand new key (which you naturally will not have
on your local keyring), the operator can tell both your IP address and
the time when you verified the signature.

@item "request-origin"
The string given in @var{value} is passed to the GnuPG engines to
request restrictions based on the origin of the request. Valid values
are documented in the GnuPG manual and the gpg man page under the
option @option [--request-origin]. Requires at least GnuPG 2.2.6 to have an effect.

@item "no-symkey-cache"
For OpenPGP disable the passphrase cache used for symmetrical en- and decryption. This cache is based on the message specific salt value. Requires at least GnuPG 2.2.7 to have an effect.

@item "ignore-mdc-error"
This flag passes the option @option [--ignore-mdc-error] to gpg. This can be used to force decryption of a message which failed due to a missing integrity check. This flag must be used with great caution and only if it is a known non-corrupted old message and the decryption result of the former try had the decryption result flag @code {legacy_cipher_nomdc} set. For failsafe reasons this flag is reset after each operation.

@item "auto-key-locate"
The string given in @var{value} is passed to gpg. This can be used to change the behavior of a @code {GPGME_KEYLIST_MODE_LOCATE} keylisting. Valid values are documented in the GnuPG manual and the gpg man page under the option @option [--auto-key-locate]. Requires at least GnuPG 2.1.18.

Note: Keys retrieved through @code {auto-key-locate} are automatically imported in the keyring.

@item trust-model
@since {1.11.2}
Change the trust-model for all GnuPG engine operations. An empty string sets the trust-model back to the users default. If the trust-model is not supported by GnuPG the behavior is undefined and will likely cause all operations to fail. Example: "tofu+pgp".

This options should be used carefully with a strict version requirement. In some versions of GnuPG setting the trust-model changes the default trust-model for future operations. A change in the trust-model also can have unintended side effects, like rebuilding the trust-db.

@end table

This function returns @code {0} on success.
@end deftypefun

@deftypefun {const char *} gpgme_get_ctx_flag @
The value of flags settable by `gpgme_set_ctx_flag` can be retrieved by this function. If `name` is unknown the function returns `NULL`. For boolean flags an empty string is returned for False and the string "1" is returned for True; either `atoi(3)` or a test for an empty string can be used to get the boolean value.

```
@end deftypefun
```

A locale setting can be associated with a context. This locale is passed to the crypto engine, and used for applications like the PIN entry, which is displayed to the user when entering a passphrase is required.

The default locale is used to initialize the locale setting of all contexts created afterwards.

```
@end deftypefun gpgme_error_t gpgme_set_locale (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{category}},
@w{const char *@var{value}})
@since{0.4.3}
```

The function `gpgme_set_locale` sets the locale of the context `ctx`, or the default locale if `ctx` is a null pointer.

The locale settings that should be changed are specified by `category`. Supported categories are `LC_CTYPE`, `LC_MESSAGES`, and `LC_ALL`, which is a wildcard you can use if you want to change all the categories at once.

The value to be used for the locale setting is `value`, which will be copied to `GPGME`'s internal data structures. `value` can be a null pointer, which disables setting the locale, and will make PIN entry and other applications use their default setting, which is usually not what you want.

Note that the settings are only used if the application runs on a text terminal, and that the settings should fit the configuration of the output terminal. Normally, it is sufficient to initialize the default
value at startup.

The function returns an error if not enough memory is available.
@end deftypefun

@node Additional Logs
@subsection Additional Logs
@cindex auditlog, of the engine
@cindex auditlog

Additional logs can be associated with a context. These logs are engine specific and can be obtained with @code{gpgme_op_getauditlog}.

@deftypefun gpgme_error_t gpgme_op_getauditlog
  (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{output}}, @w{unsigned int @var{flags}})
@since{1.1.1}

The function @code{gpgme_op_getauditlog} is used to obtain additional logs as specified by @var{flags} into the @var{output} data. If

The function returns the error code @code{GPG_ERR_NO_ERROR} if a log could be queried from the engine, and @code{GPG_ERR_NOT_IMPLEMENTED} if the log specified in @var{flags} is not available for this engine. If no log is available @code{GPG_ERR_NO_DATA} is returned.

The value in @var{flags} is a bitwise-or combination of one or multiple of the following bit values:

@table @code
@item GPGME_AUDITLOG_DIAG
  @since{1.11.2}
  Obtain diagnostic output which would be written to @code{stderr} in interactive use of the engine. This can be used to provide additional diagnostic information in case of errors in other operations.

  Note: If log-file has been set in the configuration the log will be empty and @code{GPG_ERR_NO_DATA} will be returned.

  Implemented for: @code{GPGME_PROTOCOL_OpenPGP}

@item GPGME_AUDITLOG_DEFAULT
  @since{1.11.2}
  This flag has the value 0 for compatibility reasons. Obtains additional information from the engine by issuing the @code{GETAUDITLOG} command.
For `GPGME_PROTOCOL_CMS` this provides additional information about the X509 certificate chain.

Implemented for: `GPGME_PROTOCOL_CMS`

@item `GPGME_AUDITLOG_HTML`
@since{1.1.1}

Same as `GPGME_AUDITLOG_DEFAULT` but in HTML.

Implemented for: `GPGME_PROTOCOL_CMS`
@end table
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_getauditlog_start @
(@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{output}}, @
 @w{unsigned int @var{flags}})
@since{1.1.1}

This is the asynchronous variant of `gpgme_op_getauditlog`.
@end deftypefun

@node Key Management
@section Key Management
@cindex key management

Some of the cryptographic operations require that recipients or signers are specified. This is always done by specifying the respective keys that should be used for the operation. The following section describes how such keys can be selected and manipulated.

@menu
* Key objects:: Description of the key structures.
  * Listing Keys:: Browsing the list of available keys.
  * Information About Keys:: Requesting detailed information about keys.
  * Manipulating Keys:: Operations on keys.
  * Generating Keys:: Creating new key pairs.
  * Signing Keys:: Adding key signatures to public keys.
  * Exporting Keys:: Retrieving key data from the key ring.
  * Importing Keys:: Adding keys to the key ring.
  * Deleting Keys:: Removing keys from the key ring.
  * Changing Passphrases:: Change the passphrase of a key.
  * Changing TOFU Data:: Changing data pertaining to TOFU.
  * Advanced Key Editing:: Advanced key edit operation.
@end menu

@node Key objects
@subsection Key objects

The keys are represented in GPGME by structures which may only be read by the application but never be allocated or changed. They are valid as long as the key object itself is valid.

@deftp {Data type} gpgme_key_t

The @code{gpgme_key_t} type is a pointer to a key object. It has the following members:

@table @code
@item gpgme_keylist_mode_t keylist_mode
@since{0.9.0}
The keylist mode that was active when the key was retrieved.

@item unsigned int revoked : 1
This is true if the key is revoked.

@item unsigned int expired : 1
This is true if the key is expired.

@item unsigned int disabled : 1
This is true if the key is disabled.

@item unsigned int invalid : 1
This is true if the key is invalid. This might have several reasons, for example for the S/MIME backend, it will be set during key listings if the key could not be validated due to missing certificates or unmatched policies.

@item unsigned int can_encrypt : 1
This is true if the key (ie one of its subkeys) can be used for encryption.

@item unsigned int can_sign : 1
This is true if the key (ie one of its subkeys) can be used to create data signatures.

@item unsigned int can_certify : 1
This is true if the key (ie one of its subkeys) can be used to create key certificates.

@item unsigned int can_authenticate : 1
@since{0.4.5}
This is true if the key (ie one of its subkeys) can be used for
This is true if the key can be used for qualified signatures according to local government regulations.

This is true if the key is a secret key. Note, that this will always be true even if the corresponding subkey flag may be false (offline/stub keys). This is only set if a listing of secret keys has been requested or if `GPGME_KEYLIST_MODE_WITH_SECRET` is active.

Reserved for the origin of this key.

This is the protocol supported by this key.

If `GPGME_PROTOCOL_CMS`, then this is the issuer serial.

If `GPGME_PROTOCOL_CMS`, then this is the issuer name.

If `GPGME_PROTOCOL_CMS`, then this is the chain ID, which can be used to build the certificate chain.

If `GPGME_PROTOCOL_OpenPGP`, then this is the owner trust.

This is a linked list with the subkeys of the key. The first subkey in the list is the primary key and usually available.

This is a linked list with the user IDs of the key. The first user ID in the list is the main (or primary) user ID.
This field gives the fingerprint of the primary key. Note that this is a copy of the fingerprint of the first subkey. For an incomplete key (for example from a verification result) a subkey may be missing but this field may be set nevertheless.

@end table
@end deftp

@end deftp {Data type} gpgme_subkey_t
@since{1.5.0}

The @code{gpgme_subkey_t} type is a pointer to a subkey structure. Subkeys are one component of a @code{gpgme_key_t} object. In fact, subkeys are those parts that contains the real information about the individual cryptographic keys that belong to the same key object. One @code{gpgme_key_t} can contain several subkeys. The first subkey in the linked list is also called the primary key.

The subkey structure has the following members:

@table @code
@item gpgme_subkey_t next
This is a pointer to the next subkey structure in the linked list, or @code{NULL} if this is the last element.

@item unsigned int revoked : 1
This is true if the subkey is revoked.

@item unsigned int expired : 1
This is true if the subkey is expired.

@item unsigned int disabled : 1
This is true if the subkey is disabled.

@item unsigned int invalid : 1
This is true if the subkey is invalid.

@item unsigned int can_encrypt : 1
This is true if the subkey can be used for encryption.

@item unsigned int can_sign : 1
This is true if the subkey can be used to create data signatures.

@item unsigned int can_certify : 1
This is true if the subkey can be used to create key certificates.

@item unsigned int can_authenticate : 1
@since{0.4.5}
This is true if the subkey can be used for authentication.

@item unsigned int is_qualified : 1
@since{1.1.0}
This is true if the subkey can be used for qualified signatures according to local government regulations.

@item unsigned int is_de_vs : 1
@since{1.8.0}
This is true if the subkey complies with the rules for classified information in Germany at the restricted level (VS-NfD). This are currently RSA keys of at least 2048 bits or ECDH/ECDSA keys using a Brainpool curve.

@item unsigned int secret : 1
This is true if the subkey is a secret key. Note that it will be false if the key is actually a stub key; i.e. a secret key operation is currently not possible (offline-key). This is only set if a listing of secret keys has been requested or if @code{GPGME_KEYLIST_MODE_WITH_SECRET} is active.

@item gpgme_pubkey_algo_t pubkey_algo
This is the public key algorithm supported by this subkey.

@item unsigned int length
This is the length of the subkey (in bits).

@item char *keyid
This is the key ID of the subkey in hexadecimal digits.

@item char *fpr
This is the fingerprint of the subkey in hexadecimal digits, if available.

@item char *keygrip
@since{1.7.0}
The keygrip of the subkey in hex digit form or @code{NULL} if not
available.

@item long int timestamp
This is the creation timestamp of the subkey. This is -1 if the
timestamp is invalid, and 0 if it is not available.

@item long int expires
This is the expiration timestamp of the subkey, or 0 if the subkey
does not expire.

@item unsigned int is_cardkey : 1
@since{1.2.0}
True if the secret key is stored on a smart card.

@item char *card_number
@since{1.2.0}
The serial number of a smart card holding this key or @code{NULL}.

@item char *curve
For ECC algorithms the name of the curve.

@end table
@end deftp

@deftp {Data type} gpgme_user_id_t
A user ID is a component of a @code{gpgme_key_t} object. One key can
have many user IDs. The first one in the list is the main (or
primary) user ID.

The user ID structure has the following members.

@table @code
@item gpgme_user_id_t next
This is a pointer to the next user ID structure in the linked list, or
@code{NULL} if this is the last element.

@item unsigned int revoked : 1
This is true if the user ID is revoked.

@item unsigned int invalid : 1
This is true if the user ID is invalid.

@item gpgme_validity_t validity
This specifies the validity of the user ID.
@item char *uid
This is the user ID string.

@item char *name
This is the name component of @code{uid}, if available.

@item char *comment
This is the comment component of @code{uid}, if available.

@item char *email
This is the email component of @code{uid}, if available.

@item char *address;
The mail address (addr-spec from RFC-5322) of the user ID string.
This is generally the same as the @code{email} part of this structure
but might be slightly different. If no mail address is available
@code{NULL} is stored.

@item gpgme_tofu_info_t tofu
@since{1.7.0}
If not @code{NULL} information from the TOFU database pertaining to
this user id.

@item gpgme_key_sig_t signatures
This is a linked list with the signatures on this user ID.

@item unsigned int origin : 5
@since{1.8.0}
Reserved for the origin of this user ID.

@item unsigned long last_update
@since{1.8.0}
Reserved for the time of the last update of this user ID.

@end table
@end deftp

@deftp {Data type} gpgme_tofu_info_t

@since{1.7.0}
The @code{gpgme_tofu_info_t} type is a pointer to a tofu info
structure. Tofu info structures are one component of a
@code{gpgme_user_id_t} object, and provide information from the TOFU
database pertaining to the user ID.

The tofu info structure has the following members:

@table @code
@item gpgme_key_sig_t next
This is a pointer to the next tofu info structure in the linked list, or @code{NULL} if this is the last element.

@item unsigned int validity : 3
This is the TOFU validity. It can have the following values:

@table @code
@item 0
The value @code{0} indicates a conflict.

@item 1
The value @code{1} indicates a key without history.

@item 2
The value @code{2} indicates a key with too little history.

@item 3
The value @code{3} indicates a key with enough history for basic trust.

@item 4
The value @code{4} indicates a key with a lot of history.
@end table

@item unsigned int policy : 4
This is the TOFU policy, see @code{gpgme_tofu_policy_t}.

@item unsigned short signcount
This is the number of signatures seen for this binding (or @code{USHRT_MAX} if there are more than that).

@item unsigned short encrcount
This is the number of encryptions done with this binding (or @code{USHRT_MAX} if there are more than that).

@item unsigned long signfirst
Number of seconds since Epoch when the first signature was seen with this binding.

@item unsigned long signlast
Number of seconds since Epoch when the last signature was seen with this binding.
@item unsigned long encrfirst
Number of seconds since Epoch when the first encryption was done with
this binding.

@item unsigned long encrlast
Number of seconds since Epoch when the last encryption was done with
this binding.

@item char *description
A human-readable string summarizing the TOFU data (or NULL).

@end table
@end deftp

@deftp {Data type} gpgme_key_sig_t

The @code{gpgme_key_sig_t} type is a pointer to a key signature structure.
Key signatures are one component of a @code{gpgme_key_t} object, and
validate user IDs on the key in the OpenPGP protocol.

The signatures on a key are only available if the key was retrieved
via a listing operation with the @code{GPGME_KEYLIST_MODE_SIGS} mode
enabled, because it can be expensive to retrieve all signatures of a
key.

The signature notations on a key signature are only available if the
key was retrieved via a listing operation with the
@code{GPGME_KEYLIST_MODE_SIG_NOTATIONS} mode enabled, because it can
be expensive to retrieve all signature notations.

The key signature structure has the following members:

@table @code
@item gpgme_key_sig_t next
This is a pointer to the next key signature structure in the linked
list, or @code{NULL} if this is the last element.

@item unsigned int revoked : 1
This is true if the key signature is a revocation signature.

@item unsigned int expired : 1
This is true if the key signature is expired.

@item unsigned int invalid : 1
This is true if the key signature is invalid.
@item unsigned int exportable : 1
This is true if the key signature is exportable.

@item gpgme_pubkey_algo_t pubkey_algo
This is the public key algorithm used to create the signature.

@item char *keyid
This is the key ID of the key (in hexadecimal digits) used to create the signature.

@item long int timestamp
This is the creation timestamp of the key signature. This is -1 if the timestamp is invalid, and 0 if it is not available.

@item long int expires
This is the expiration timestamp of the key signature, or 0 if the key signature does not expire.

@item gpgme_error_t status
This is the status of the signature and has the same meaning as the member of the same name in a `gpgme_signature_t` object.

@item unsigned int sig_class
This specifies the signature class of the key signature. The meaning is specific to the crypto engine.

@item char *uid
This is the main user ID of the key used to create the signature.

@item char *name
This is the name component of `uid`, if available.

@item char *comment
This is the comment component of `uid`, if available.

@item char *email
This is the email component of `uid`, if available.

@item gpgme_sig_notation_t notations
This is a linked list with the notation data and policy URLs.
@end table
@end deftp

@node Listing Keys
@subsection Listing Keys
@cindex listing keys
@cindex key listing
@cindex key listing, start
@cindex key ring, list
@cindex key ring, search

@deftypefun gpgme_error_t gpgme_op_keylist_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}}, @w{int @var{secret_only}})

The function @code{gpgme_op_keylist_start} initiates a key listing operation inside the context @var{ctx}. It sets everything up so that subsequent invocations of @code{gpgme_op_keylist_next} return the keys in the list.

If @var{pattern} is @code{NULL}, all available keys are returned. Otherwise, @var{pattern} contains an engine specific expression that is used to limit the list to all keys matching the pattern. Note that the total length of the pattern is restricted to an engine-specific maximum (a couple of hundred characters are usually accepted). The pattern should be used to restrict the search to a certain common name or user, not to list many specific keys at once by listing their fingerprints or key IDs.

If @var{secret_only} is not @code{0}, the list is restricted to secret keys only.

The context will be busy until either all keys are received (and @code{gpgme_op_keylist_next} returns @code{GPG_ERR_EOF}), or @code{gpgme_op_keylist_end} is called to finish the operation.

The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_keylist_ext_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}[]}, @w{int @var{secret_only}}, @w{int @var{reserved}})

The function @code{gpgme_op_keylist_ext_start} initiates an extended key listing operation inside the context @var{ctx}. It sets everything up so that subsequent invocations of @code{gpgme_op_keylist_next} return the keys in the list.

If @var{pattern} is @code{NULL}, all available keys are returned. Otherwise, @var{pattern} is a @code{NULL} terminated array of strings that are used to limit the list to all keys matching at least one of the patterns verbatim. Note that the total length of all patterns is restricted to an engine-specific maximum (the exact limit also depends on the number of patterns and amount of quoting
required, but a couple of hundred characters are usually accepted). Patterns should be used to restrict the search to a certain common name or user, not to list many specific keys at once by listing their fingerprints or key IDs.

If @var{secret_only} is not @code{0}, the list is restricted to secret keys only.

The value of @var{reserved} must be @code{0}.

The context will be busy until either all keys are received (and @code{gpgme_op_keylist_next} returns @code{GPG_ERR_EOF}), or @code{gpgme_op_keylist_end} is called to finish the operation.

The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_keylist_from_data_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{data}}, @w{int @var{reserved}})
@end deftypefun

@since{1.8.0}

The function @code{gpgme_op_keylist_from_data_start} initiates a key listing operation inside the context @var{ctx}. In contrast to the other key listing operation the keys are read from the supplied @var{data} and not from the local key database. The keys are also not imported into the local key database. The function sets everything up so that subsequent invocations of @code{gpgme_op_keylist_next} return the keys from @var{data}.

The value of @var{reserved} must be @code{0}.

This function requires at least GnuPG version 2.1.14 and currently works only with OpenPGP keys.

The context will be busy until either all keys are received (and @code{gpgme_op_keylist_next} returns @code{GPG_ERR_EOF}), or @code{gpgme_op_keylist_end} is called to finish the operation. While the context is busy @var{data} may not be released.

The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.
The function `gpgme_op_keylist_next` returns the next key in the list created by a previous `gpgme_op_keylist_start` operation in the context `ctx`. The key will have one reference for the user. 

This is the only way to get at `gpgme_key_t` objects in `GPGME`.

If the last key in the list has already been returned, `gpgme_op_keylist_next` returns `GPG_ERR_EOF`.

The function returns the error code `GPG_ERR_INV_VALUE` if `ctx` or `r_key` is not a valid pointer, and `GPG_ERR_ENOMEM` if there is not enough memory for the operation.

The following example illustrates how all keys containing a certain string (`g10code`) can be listed with their key ID and the name and email address of the main user ID:

```
gpgme_ctx_t ctx;
gpgme_key_t key;
gpgme_error_t err = gpgme_new (&ctx);
if (!err)
{
    err = gpgme_op_keylist_start (ctx, "g10code", 0);
    while (!err)
    {
```
err = gpgme_op_keylist_next (ctx, &key);
if (err)
  break;
printf ("%s:", key->subkeys->keyid);
if (key->uids && key->uids->name)
  printf (" %s", key->uids->name);
if (key->uids && key->uids->email)
  printf (" <%s>", key->uids->email);
putchar ('\n');
gpgme_key_release (key);
@g}
gpgme_release (ctx);
@g}
if (gpg_err_code (err) != GPG_ERR_EOF)
  @{
    fprintf (stderr, "can not list keys: %s\n", gpgme_strerror (err));
    exit (1);
  @}
@end example

@deftp {Data type} {gpgme_keylist_result_t}
This is a pointer to a structure used to store the result of a
@code{gpgme_op_keylist_*} operation. After successfully ending a key
listing operation, you can retrieve the pointer to the result with
@code{gpgme_op_keylist_result}. The structure contains the following
member:

@table @code
@item unsigned int truncated : 1
This is true if the crypto backend had to truncate the result, and
less than the desired keys could be listed.
@end table
@end deftpn

@deftypefun gpgme_error_t gpgme_get_key (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{fpr}},
In a simple program, for which a blocking operation is acceptable, the
following function can be used to retrieve a single key.
The function \texttt{gpgme_get_key} gets the key with the fingerprint (or key ID) \texttt{fpr} from the crypto backend and return it in \texttt{r_key}. If \texttt{secret} is true, get the secret key. The currently active keylist mode is used to retrieve the key. The key will have one reference for the user.

If the key is not found in the keyring, \texttt{gpgme_get_key} returns the error code \texttt{GPG_ERR_EOF} and \texttt{r_key} will be set to \texttt{NULL}.

The function returns the error code \texttt{GPG_ERR_INV_VALUE} if \texttt{ctx} or \texttt{r_key} is not a valid pointer or \texttt{fpr} is not a fingerprint or key ID, \texttt{GPG_ERR_AMBIGUOUS_NAME} if the key ID was not a unique specifier for a key, and \texttt{GPG_ERR_ENOMEM} if at some time during the operation there was not enough memory available.

Please see the beginning of this section for more information about \texttt{gpgme_key_t} objects.

The \texttt{gpgme_validity_t} type is used to specify the validity of a user ID in a key. The following validities are defined:

- \texttt{GPGME_VALIDITY_UNKNOWN}\: The user ID is of unknown validity. The string representation of this validity is ``?''.
- \texttt{GPGME_VALIDITY_UNDEFINED}\: The validity of the user ID is undefined. The string representation of this validity is ``q''.
- \texttt{GPGME_VALIDITY_NEVER}\: The user ID is never valid. The string representation of this validity is ``n''.
- \texttt{GPGME_VALIDITY_MARGINAL}\: The user ID is marginally valid. The string representation of this validity is ``m''.
@item GPGME_VALIDITY_FULL
The user ID is fully valid. The string representation of this validity is "f".

@item GPGME_VALIDITY_ULTIMATE
The user ID is ultimately valid. The string representation of this validity is "u".
@end table
@end deftp

@node Manipulating Keys
@subsection Manipulating Keys
@cindex key, manipulation
@deftypefun void gpgme_key_ref (@w{gpgme_key_t @var{key}})
The function @code{gpgme_key_ref} acquires an additional reference for the key @var{key}.
@end deftypefun

@deftypefun void gpgme_key_unref (@w{gpgme_key_t @var{key}})
The function @code{gpgme_key_unref} releases a reference for the key @var{key}. If this was the last reference, the key will be destroyed and all resources associated to it will be released.
@end deftypefun

@node Generating Keys
@subsection Generating Keys
@cindex key, creation
@cindex key ring, add
GPGME provides a set of functions to create public key pairs. Most of these functions require the use of GnuPG 2.1 and later; for older GnuPG versions the @code{gpgme_op_genkey} function can be used. Existing code which wants to update to the new functions or new code which shall supports older GnuPG versions may try the new functions first and provide a fallback to the old function if the error code @code{GPG_ERR_NOT_SUPPORTED} is received.

@c
@c gpgme_op_createkey
@c
@deftypefun gpgme_error_t gpgme_op_createkey @
 (@w{gpgme_ctx_t @var{ctx}}, @}
The function `gpgme_op_createkey` generates a new key for the protocol active in the context `ctx`. As of now this function does only work for OpenPGP and requires at least version 2.1.13 of GnuPG.

@var{userid} is commonly the mail address associated with the key. GPGME does not require a specific syntax but if more than a mail address is given, RFC-822 style format is suggested. The value is expected to be in UTF-8 encoding (i.e. no IDN encoding for mail addresses). This is a required parameter.

@var{algo} specifies the algorithm for the new key (actually a keypair of public and private key). For a list of supported algorithms, see the GnuPG manual. If @var{algo} is `NULL` or the string "default", the key is generated using the default algorithm of the engine. If the string "future-default" is used the engine may use an algorithm which is planned to be the default in a future release of the engine; however existing implementation of the protocol may not be able to already handle such future algorithms. For the OpenPGP protocol, the specification of a default algorithm, without requesting a non-default usage via @var{flags}, triggers the creation of a primary key plus a secondary key (subkey).

@var{reserved} must be set to zero.

@var{expires} specifies the expiration time in seconds. If you supply 0, a reasonable expiration time is chosen. Use the flag `GPGME_CREATE_NOEXPIRE` to create keys that do not expire. Note that this parameter takes an unsigned long value and not a `time_t` to avoid problems on systems which use a signed 32 bit value. Note further that the OpenPGP protocol uses 32 bit values for timestamps and thus can only encode dates up to the year 2106.

@var{extrakey} is currently not used and must be set to `NULL`. A future version of GPGME may use this parameter to create X.509 keys.

@var{flags} can be set to the bit-wise OR of the following flags:
Do not create the key with the default capabilities (key usage) of the requested algorithm but use those explicitly given by these flags: "signing", "encryption", "certification", or "authentication". The allowed combinations depend on the algorithm.

If any of these flags are set and a default algorithm has been selected only one key is created in the case of the OpenPGP protocol.

Request generation of the key without password protection.

For an X.509 key do not create a CSR but a self-signed certificate. This has not yet been implemented.

Do not store the created key in the local key database. This has not yet been implemented.

Return the public or secret key as part of the result structure. This has not yet been implemented.

The engine does not allow the creation of a key with a user ID already existing in the local key database. This flag can be used to override this check.
@since{1.8.0}

Request generation of keys that do not expire.

@end table

After the operation completed successfully, information about the created key can be retrieved with @code{gpgme_op_genkey_result}.

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if the engine does not support the command, or a bunch of other error codes.

@end deftypefun

@c
c @c gpgme_op_createsubkey
c

@deftypefun gpgme_error_t gpgme_op_createsubkey @
   (@w{gpgme_ctx_t @var{ctx}}, @
    @w{gpgme_key_t @var{key}}, @
    @w{const char *@var{algo}}, @
    @w{unsigned long @var{reserved}}, @
    @w{unsigned long @var{expires}}, @
    @w{unsigned int @var{flags}});

@since{1.7.0}

The function @code{gpgme_op_createsubkey} creates and adds a new
subkey to the primary OpenPGP key given by @var{KEY}. The only allowed protocol in @var{ctx} is @code{GPGME_PROTOCOL_OPENPGP}. Subkeys (aka secondary keys) are a concept in the OpenPGP protocol to bind several keys to a primary key. As of now this function requires at least version 2.1.13 of GnuPG.

@var{key} specifies the key to operate on.

@var{algo} specifies the algorithm for the new subkey. For a list of supported algorithms, see the GnuPG manual. If @var{algo} is @code{NULL} or the string "default", the subkey is generated using the default algorithm for an encryption subkey of the engine. If the string "future-default" is used the engine may use an encryption algorithm which is planned to be the default in a future release of the engine; however existing implementation of the protocol may not be able to already handle such future algorithms.

@var{reserved} must be set to zero.

@var{expires} specifies the expiration time in seconds. If you supply 0, a reasonable expiration time is chosen. Use the flag @code{GPGME_CREATE_NOEXPRIE} to create keys that do not expire. Note that this parameter takes an unsigned long value and not a @code{time_t} to avoid problems on systems which use a signed 32 bit @code{time_t}. Note further that the OpenPGP protocol uses 32 bit values for timestamps and thus can only encode dates up to the year 2106.

@var{flags} takes the same values as described above for @code{gpgme_op_createkey}.

After the operation completed successfully, information about the created key can be retrieved with @code{gpgme_op_genkey_result}.

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if the engine does not support the command, or a bunch of other error codes.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_createsubkey_start (
    @w{gpgme_ctx_t @var{ctx}},
    @w{gpgme_key_t @var{key}},
    @w{const char *@var{algo}},
    @w{unsigned long @var{reserved}},
    @w{unsigned long @var{expires}},
    @w{unsigned int @var{flags}});

The function `gpgme_op_createsubkey_start` initiates a `gpgme_op_createsubkey` operation; see there for details. It must be completed by calling `gpgme_wait` on the context.
@end deftypefun

The function `gpgme_op_adduid` adds a new user ID to the OpenPGP key given by `@var{KEY}`. Adding additional user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context `@var{ctx}` must be set to OpenPGP. As of now this function requires at least version 2.1.13 of GnuPG.

`@var{key}` specifies the key to operate on.

`@var{userid}` is the user ID to add to the key. A user ID is commonly the mail address to be associated with the key. GPGME does not require a specific syntax but if more than a mail address is given, RFC-822 style format is suggested. The value is expected to be in UTF-8 encoding (i.e. no IDN encoding for mail addresses). This is a required parameter.

`@var{flags}` are currently not used and must be set to zero.

The function returns zero on success, `GPG_ERR_NOT_SUPPORTED` if the engine does not support the command, or a bunch of other error codes.
@end deftypefun
The function @code{gpgme_op_adduid_start} initiates a @code{gpgme_op_adduid} operation; see there for details. It must be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

@end deftypefun

The function @code{gpgme_op_revuid} revokes a user ID from the OpenPGP key given by @var{KEY}. Revoking user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context @var{ctx} must be set to OpenPGP. As of now this function requires at least version 2.1.13 of GnuPG.

@var{key} specifies the key to operate on.

@var{userid} is the user ID to be revoked from the key. The user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the @code{uid} field from the user ID object (@code{gpgme_user_id_t}) is to be used. This is a required parameter.

@var{flags} are currently not used and must be set to zero.

Note that the engine won't allow to revoke the last valid user ID. To change a user ID is better to first add the new user ID, then revoke the old one, and finally publish the key.

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if the engine does not support the command, or a bunch of other error codes.

@end deftypefun
The function `gpgme_op_revuid_start` initiates a `gpgme_op_revuid` operation; see there for details. It must be completed by calling `gpgme_wait` on the context.

@end deftypefun

The function `gpgme_op_set_uid_flag` is used to set flags on a user ID from the OpenPGP key given by `key`. Setting flags on user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context `ctx` must be set to OpenPGP.

`key` specifies the key to operate on. This parameter is required.

`userid` is the user ID of the key to be manipulated. This user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the `uid` field from the user ID object (`gpgme_user_id_t`) is to be used. This is a required parameter.

`name` names the flag which is to be changed. The only currently supported flag is:

@table @code
@item primary
This sets the primary key flag on the given user ID. All other primary key flag on other user IDs are removed. `value` must be
given as NULL. For technical reasons this function bumps the creation timestamp of all affected self-signatures up by one second. At least GnuPG version 2.1.20 is required.

@end table

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if the engine does not support the command, or a bunch of other error codes.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_set_uid_flag_start (@
  @w{gpgme_ctx_t @var{ctx}}, @
  @w{gpgme_key_t @var{key}}, @
  @w{const char *@var{userid}}, @
  @w{const char * @var{name}}, @
  @w{const char * @var{value}});

@since{1.8.0}

The function @code{gpgme_op_set_uid_flag_start} initiates a @code{gpgme_op_set_uid_flag} operation; see there for details. It must be completed by calling @code{gpgme_wait} on the context.
@xref{Waiting For Completion}.

@end deftypefun

@c
c gpgme_op_genkey
c
@deftypefun gpgme_error_t gpgme_op_genkey (@
  (@w{gpgme_ctx_t @var{ctx}}, @
  @w{gpgme_key_t @var{key}}, @
  @w{const char *@var{parms}}, @
  @w{gpgme_data_t @var{public}}, @
  @w{gpgme_data_t @var{secret}}))

The function @code{gpgme_op_genkey} generates a new key pair in the context @var{ctx}. The meaning of @var{public} and @var{secret} depends on the crypto backend.

GPG does not support @var{public} and @var{secret}, they should be @code{NULL}. GnuPG will generate a key pair and add it to the standard key ring. The fingerprint of the generated key is available with @code{gpgme_op_genkey_result}.

GpgSM requires @var{public} to be a writable data object. GpgSM will generate a secret key (which will be stored by @command{gpg-agent}).
and return a certificate request in @var{public}, which then needs to be signed by the certification authority and imported before it can be used. GpgSM does not make the fingerprint available.

The argument @var{parms} specifies parameters for the key in an string that looks something like XML. The details about the format of @var{parms} are specific to the crypto engine used by @var{ctx}. The first line of the parameters must be @code{<GnupgKeyParms format="internal">} and the last line must be @code{</GnupgKeyParms>}. Every line in between the first and last lines is treated as a Header: Value pair. In particular, no XML escaping is necessary if you need to include the characters @code{<}, @code{>}, or @code{&}.

Here is an example for GnuPG as the crypto engine (all parameters of OpenPGP key generation are documented in the GPG manual):

@example
<GnupgKeyParms format="internal">
Key-Type: default
Subkey-Type: default
Name-Real: Joe Tester
Name-Comment: with stupid passphrase
Name-Email: joe@@foo.bar
Expire-Date: 0
Passphrase: abc
</GnupgKeyParms>
@end example

Here is an example for GpgSM as the crypto engine (all parameters of OpenPGP key generation are documented in the GPGSM manual):

@example
<GnupgKeyParms format="internal">
Key-Type: RSA
Key-Length: 1024
Name-DN: C=de,O=g10 code,OU=Testlab,CN=Joe 2 Tester
Name-Email: joe@@foo.bar
</GnupgKeyParms>
@end example

Strings should be given in UTF-8 encoding. The only format supported for now is "internal". The content of the @code{GnupgKeyParms} container is passed verbatim to the crypto backend. Control statements are not allowed.

After the operation completed successfully, the result can be retrieved with @code{gpgme_op_genkey_result}. 
The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, `GPG_ERR_INV_VALUE` if `@var{parms}` is not a well-formed string (e.g. does not have the expected tag-like headers and footers), `GPG_ERR_NOT_SUPPORTED` if `@var{public}` or `@var{secret}` is not valid, and `GPG_ERR_GENERAL` if no key was created by the backend.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_genkey_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char* @var{parms}}, @w{gpgme_data_t @var{public}}, @w{gpgme_data_t @var{secret}})

The function `gpgme_op_genkey_start` initiates a `gpgme_op_genkey` operation. It can be completed by calling `gpgme_op_genkey_result` on the context. @xref{Waiting For Completion}.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, `GPG_ERR_INV_VALUE` if `@var{parms}` is not a valid XML string, and `GPG_ERR_NOT_SUPPORTED` if `@var{public}` or `@var{secret}` is not `NULL`.

@end deftypefun

@c
c
gpgme_op_genkey_result
c
deftp {Data type} {gpgme_genkey_result_t}

This is a pointer to a structure used to store the result of a `gpgme_op_genkey` operation. After successfully generating a key, you can retrieve the pointer to the result with `gpgme_op_genkey_result`. The structure contains the following members:

@table @code
@item unsigned int primary : 1
This flag is set to 1 if a primary key was created and to 0 if not.

@item unsigned int sub : 1
This flag is set to 1 if a subkey was created and to 0 if not.

@item unsigned int uid : 1
This flag is set to 1 if a user ID was created and to 0 if not.

@item char *fpr
This is the fingerprint of the key that was created. If both a

@---

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primary and a subkey were generated, the fingerprint of the primary key will be returned. If the crypto engine does not provide the fingerprint, @code{fpr} will be a null pointer.

@item gpgme_data_t pubkey
@since{1.7.0}

This will eventually be used to return the public key. It is currently not used.

@item gpgme_data_t seckey
@since{1.7.0}

This will eventually be used to return the secret key. It is currently not used.

@end table
@end deftp

@deftypefun gpgme_genkey_result_t gpgme_op_genkey_result (@w{gpgme_ctx_t @var{ctx}})

The function @code{gpgme_op_genkey_result} returns a @code{gpgme_genkey_result_t} pointer to a structure holding the result of a @code{gpgme_op_genkey} operation. The pointer is only valid if the last operation on the context was a @code{gpgme_op_genkey} or @code{gpgme_op_genkey_start} operation, and if this operation finished successfully. The returned pointer is only valid until the next operation is started on the context.

@end deftypefun

@c
@c SIGNING KEYS
@c
@node Signing Keys
@subsection Signing Keys
@cindex key, signing

Key signatures are a unique concept of the OpenPGP protocol. They can be used to certify the validity of a key and are used to create the Web-of-Trust (WoT). Instead of using the @code{gpgme_op_interact} function along with a finite state machine, GPGME provides a convenient function to create key signatures when using modern GnuPG versions.

@c
The function `gpgme_op_keysign` adds a new key signature to the public key `KEY`. This function requires at least version 2.1.12 of GnuPG.

@var{CTX} is the usual context which describes the protocol to use (which must be OpenPGP) and has also the list of signer keys to be used for the signature. The common case is to use the default key for signing other keys. If another key or more than one key shall be used for a key signature, `gpgme_signers_add` can be used.

@var{key} specifies the key to operate on.

@var{userid} selects the user ID or user IDs to be signed. If @var{userid} is set to `NULL` all valid user IDs are signed. The user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the `uid` field from the user ID object (`gpgme_user_id_t`) is to be used. To select more than one user ID put them all into one string separated by linefeeds characters (`\n`) and set the flag `GPGME_KEYSIGN_LFSEP`.

@var{expires} specifies the expiration time of the new signature in seconds. The common case is to use 0 to not set an expiration date. However, if the configuration of the engine defines a default expiration for key signatures, that is still used unless the flag `GPGME_KEYSIGN_NOEXPIRE` is used. Note that this parameter takes an unsigned long value and not a `time_t` to avoid problems on systems which use a signed 32 bit `time_t`. Note further that the OpenPGP protocol uses 32 bit values for timestamps and thus can only encode dates up to the year 2106.

@var{flags} can be set to the bit-wise OR of the following flags:

@table @code
@item GPGME_KEYSIGN_LOCAL
@since{1.7.0}
Instead of creating an exportable key signature, create a key signature which is marked as non-exportable.

@item GPGME_KEYSIGN_LFSEP
@since{1.7.0}

Although linefeeds are uncommon in user IDs this flag is required to explicitly declare that @var{userid} may contain several linefeed separated user IDs.

@item GPGME_KEYSIGN_NOEXPIRE
Force the creation of a key signature without an expiration date. This overrides @var{expire} and any local configuration of the engine.

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if the engine does not support the command, or a bunch of other error codes.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_keysign_start @
  (@w{gpgme_ctx_t @var{ctx}}, @
   @w{gpgme_key_t @var{key}}, @
   @w{const char *@var{userid}}, @
   @w{unsigned long @var{expires}}, @
   @w{unsigned int @var{flags}});
@end deftypefun

The function @code{gpgme_op_keysign_start} initiates a @code{gpgme_op_keysign} operation; see there for details. It must be completed by calling @code{gpgme_wait} on the context.

@end deftypefun

@c
@c EXPORTING KEYS
@c
@node Exporting Keys
@subsection Exporting Keys
@cindex key, export
@cindex key ring, export from
Exporting keys means the same as running `command[gpg]` with the command `option[--export]`. However, a mode flag can be used to change the way the export works. The available mode flags are described below, they may be or-ed together.

<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPGME_EXPORT_MODE_EXTERN</td>
<td>If this bit is set, the output is send directly to the default keyserver. This is currently only allowed for OpenPGP keys. It is good practise to not send more than a few dozens key to a keyserver at one time. Using this flag requires that the <code>keydata</code> argument of the export function is set to <code>NULL</code>.</td>
</tr>
<tr>
<td>GPGME_EXPORT_MODE_MINIMAL</td>
<td>If this bit is set, the smallest possible key is exported. For OpenPGP keys it removes all signatures except for the latest self-signatures. For X.509 keys it has no effect.</td>
</tr>
<tr>
<td>GPGME_EXPORT_MODE_SECRET</td>
<td>Instead of exporting the public key, the secret key is exported. This may not be combined with <code>GPGME_EXPORT_MODE_EXTERN</code>. For X.509 the export format is PKCS#8.</td>
</tr>
<tr>
<td>GPGME_EXPORT_MODE_RAW</td>
<td>If this flag is used with <code>GPGME_EXPORT_MODE_SECRET</code> for an X.509 key the export format will be changed to PKCS#1. This flag may not be used with OpenPGP.</td>
</tr>
<tr>
<td>GPGME_EXPORT_MODE_PKCS12</td>
<td>If this flag is used with <code>GPGME_EXPORT_MODE_SECRET</code> for an X.509 key the export format will be changed to PKCS#12 which also includes the certificate. This flag may not be used with OpenPGP.</td>
</tr>
<tr>
<td>GPGME_EXPORT_MODE_NOUID</td>
<td>Do not export user ids. Works only with certain gpg version.</td>
</tr>
</tbody>
</table>

@end table
The function `gpgme_op_export` extracts public keys and returns them in the data buffer `keydata`. The output format of the key data returned is determined by the `ASCII` armor attribute set for the context, or, if that is not set, by the encoding specified for `keydata`.

If `pattern` is `NULL`, all available keys are returned. Otherwise, `pattern` contains an engine specific expression that is used to limit the list to all keys matching the pattern.

`mode` is usually 0; other values are described above.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation completed successfully, `GPG_ERR_INV_VALUE` if `keydata` is not a valid empty data buffer, and passes through any errors that are reported by the crypto engine support routines.

The function `gpgme_op_export_start` initiates a `gpgme_op_export` operation. It can be completed by calling `gpgme_wait` on the context. If `keydata` is not a valid empty data buffer, the function returns the error code `GPG_ERR_INV_VALUE`.

The function `gpgme_op_export_ext` extracts public keys and returns them in the data buffer `keydata`. The output format of the key data returned is determined by the `ASCII` armor attribute set for the context, or, if that is not set, by the encoding specified for `keydata`.

If `pattern` or `*pattern` is `NULL`, all available keys are returned. Otherwise, `pattern` is a `NULL` terminated array of strings that are used to limit the list to all keys matching at least one of the patterns verbatim.

`mode` is usually 0; other values are described above.
The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation completed successfully, @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid empty data buffer, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_export_ext_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}[]}, @w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
The function @code{gpgme_op_export_ext_start} initiates a @code{gpgme_op_export_ext} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, and @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid empty data buffer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_export_keys (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t keys[]}, @w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
@since{1.2.0}
The function @code{gpgme_op_export_keys} extracts public keys and returns them in the data buffer @var{keydata}. The output format of the key data returned is determined by the @acronym{ASCII} armor attribute set for the context @var{ctx}, or, if that is not set, by the encoding specified for @var{keydata}.

The keys to export are taken from the @code{NULL} terminated array @var{keys}. Only keys of the currently selected protocol of @var{ctx} which do have a fingerprint set are considered for export. Other keys specified by the @var{keys} are ignored. In particular OpenPGP keys retrieved via an external key listing are not included.

@var{mode} is usually 0; other values are described above.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation completed successfully, @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid empty data buffer, @code{GPG_ERR_NO_DATA} if no useful keys are in @var{keys} and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_export_keys_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{keys}[]}, @w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
@since{1.2.0}
The function `gpgme_op_export_keys_start` initiates a `gpgme_op_export_ext` operation. It can be completed by calling `gpgme_wait` on the context. @xref{Waiting For Completion}.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, and `GPG_ERR_INV_VALUE` if `@var{keydata}` is not a valid empty data buffer, `GPG_ERR_NO_DATA` if no useful keys are in `@var{keys}` and passes through any errors that are reported by the crypto engine support routines.

@end deftypefun

@node Importing Keys
@subsection Importing Keys
@cindex key, import
@cindex key ring, import to

Importing keys means the same as running @command{gpg} with the command @option{--import}.

@deftypefun gpgme_error_t gpgme_op_import (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{keydata}})
The function `gpgme_op_import` adds the keys in the data buffer `@var{keydata}` to the key ring of the crypto engine used by `@var{ctx}`. The format of `@var{keydata}` can be @acronym{ASCII} armored, for example, but the details are specific to the crypto engine.

After the operation completed successfully, the result can be retrieved with `gpgme_op_import_result`.

The function returns the error code `GPG_ERR_NO_ERROR` if the import was completed successfully, `GPG_ERR_INV_VALUE` if `@var{keydata}` if `@var{ctx}` or `@var{keydata}` is not a valid pointer, and `GPG_ERR_NO_DATA` if `@var{keydata}` is an empty data buffer.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_import_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{keydata}})
The function `gpgme_op_import_start` initiates a `gpgme_op_import` operation. It can be completed by calling `gpgme_wait` on the context. @xref{Waiting For Completion}.

The function returns the error code `GPG_ERR_NO_ERROR` if the import could be started successfully, `GPG_ERR_INV_VALUE` if `@var{ctx}` or `@var{keydata}` is not a valid pointer, and `GPG_ERR_NO_DATA` if `@var{keydata}` is an empty data buffer.

@end deftypefun
The function \texttt{gpgme_op_import_keys} adds the keys described by
the \texttt{NULL} terminated array \texttt{@var{keys}} to the key ring of the
crypto engine used by \texttt{@var{ctx}}. It is used to actually import and
make keys permanent which have been retrieved from an external source
(i.e. using \texttt{GPGME_KEYLIST_MODE_EXTERN}) earlier. The external
keylisting must have been made with the same context configuration (in
particular the same home directory). \footnote{Thus it is a
replacement for the usual workaround of exporting and then importing a
key to make an X.509 key permanent.} Note that for OpenPGP this may
require another access to the keys server over the network.

Only keys of the currently selected protocol of \texttt{@var{ctx}} are
considered for import. Other keys specified by the \texttt{@var{keys}} are
ignored. As of now all considered keys must have been retrieved using
the same method, i.e. the used key listing mode must be identical.

After the operation completed successfully, the result can be
retrieved with \texttt{gpgme_op_import_result}.

To move keys from one home directory to another, export and import the
keydata using \texttt{gpgme_op_export} and \texttt{gpgme_op_import}.

The function returns the error code \texttt{GPG_ERR_NO_ERROR} if the
import was completed successfully, \texttt{GPG_ERR_INV_VALUE} if
\texttt{@var{ctx}} is not a valid pointer, \texttt{GPG_ERR_CONFLICT} if the key
listing mode does not match, and \texttt{GPG_ERR_NO_DATA} if no keys are
considered for export.

\end deftypefun
@deftp {Data type} {gpgme_import_status_t}
This is a pointer to a structure used to store a part of the result of
a @code{gpgme_op_import} operation. For each considered key one
status is added that contains information about the result of the
import. The structure contains the following members:

@table @code
@item gpgme_import_status_t next
This is a pointer to the next status structure in the linked list, or
@code{NULL} if this is the last element.

@item char *fpr
This is the fingerprint of the key that was considered.

@item gpgme_error_t result
If the import was not successful, this is the error value that caused
the import to fail. Otherwise the error code is
@code{GPG_ERR_NO_ERROR}.

@item unsigned int status
This is a bit-wise OR of the following flags that give more
information about what part of the key was imported. If the key was
already known, this might be 0.

@table @code
@item GPGME_IMPORT_NEW
The key was new.

@item GPGME_IMPORT_UID
The key contained new user IDs.

@item GPGME_IMPORT_SIG
The key contained new signatures.

@item GPGME_IMPORT_SUBKEY
The key contained new sub keys.

@item GPGME_IMPORT_SECRET
The key contained a secret key.
@end table
@end table
@end deftp

@deftp {Data type} {gpgme_import_result_t}
This is a pointer to a structure used to store the result of a
@code{gpgme_op_import} operation. After a successful import
operation, you can retrieve the pointer to the result with
The structure contains the following members:

- **int considered**: The total number of considered keys.
- **int no_user_id**: The number of keys without user ID.
- **int imported**: The total number of imported keys.
- **int imported_rsa**: The number of imported RSA keys.
- **int unchanged**: The number of unchanged keys.
- **int new_user_ids**: The number of new user IDs.
- **int new_sub_keys**: The number of new sub keys.
- **int new_signatures**: The number of new signatures.
- **int new_revocations**: The number of new revocations.
- **int secret_read**: The total number of secret keys read.
- **int secret_imported**: The number of imported secret keys.
- **int secret_unchanged**: The number of unchanged secret keys.
- **int not_imported**: The number of keys not imported.
- **gpgme_import_status_t imports**: A list of gpgme_import_status_t objects which contain more information about the keys for which an import was attempted.
- **int skipped_v3_keys**
For security reasons modern versions of GnuPG do not anymore support v3 keys (created with PGP 2.x) and ignores them on import. This counter provides the number of such skipped v3 keys.

@end table
@end deftypef

deftypefun gpgme_import_result_t gpgme_op_import_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_import_result} returns a @code{gpgme_import_result_t} pointer to a structure holding the result of a @code{gpgme_op_import} operation. The pointer is only valid if the last operation on the context was a @code{gpgme_op_import} or @code{gpgme_op_import_start} operation, and if this operation finished successfully. The returned pointer is only valid until the next operation is started on the context.
@end deftypefun

@node Deleting Keys
@subsection Deleting Keys
@cindex key, delete
@cindex key ring, delete from
deftypefun gpgme_error_t gpgme_op_delete_ext (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{unsigned int @var{flags}})
@since{1.9.1}
The function @code{gpgme_op_delete_ext} deletes the key @var{key} from the key ring of the crypto engine used by @var{ctx}.

@var{flags} can be set to the bit-wise OR of the following flags:

@table @code
@item GPGME_DELETE_ALLOW_SECRET
@since{1.9.1}
If not set, only public keys are deleted. If set, secret keys are deleted as well, if that is supported.

@item GPGME_DELETE_FORCE
@since{1.9.1}
If set, the user is not asked to confirm the deletion.
@end table

The function returns the error code @code{GPG_ERR_NO_ERROR} if the key was deleted successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer, @code{GPG_ERR_NO_PUBKEY} if @var{key} could not be found in the keyring.
@code{GPG_ERR_AMBIGUOUS_NAME} if the key was not specified unambiguously, and @code{GPG_ERR_CONFLICT} if the secret key for @var{key} is available, but @var{allow_secret} is zero.
@end deftypefun

deftypefun gpgme_error_t gpgme_op_delete_ext_start (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{unsigned int @var{flags}})
@since{1.9.1}

The function @code{gpgme_op_delete_ext_start} initiates a @code{gpgme_op_delete} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation was started successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer.
@end deftypefun

The following functions allow only to use one particular flag.

deftypefun gpgme_error_t gpgme_op_delete (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{int @var{allow_secret}})
Similar to @code{gpgme_op_delete_ext}, but only the flag @code{GPGME_DELETE_ALLOW_SECRET} can be provided.
@end deftypefun

deftypefun gpgme_error_t gpgme_op_delete_start (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{int @var{allow_secret}})
Similar to @code{gpgme_op_delete_ext_start}, but only the flag @code{GPGME_DELETE_ALLOW_SECRET} can be provided.
@end deftypefun

@node Changing Passphrases
@subsection Changing Passphrases
@cindex passphrase, change

deftypefun gpgme_error_t gpgme_op_passwd (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{unsigned int @var{flags}})
@since{1.3.0}

The function @code{gpgme_op_passwd} changes the passphrase of the private key associated with @var{key}. The only allowed value for @var{flags} is @code{0}. The backend engine will usually popup a window to ask for the old and the new passphrase. Thus this function is not
useful in a server application (where passphrases are not required anyway).

Note that old @code{gpg} engines (before version 2.0.15) do not support this command and will silently ignore it.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_passwd_start (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{unsigned int @var{flags}})

@since{1.3.0}

The function @code{gpgme_op_passwd_start} initiates a @code{gpgme_op_passwd} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns @code{0} if the operation was started successfully, and an error code if one of the arguments is not valid or the operation could not be started.
@end deftypefun

@c
@c CHANGING TOFU DATA
@c
@node Changing TOFU Data
@subsection Changing TOFU Data
@cindex validity, TOFU

The OpenPGP engine features a Trust-On-First-Use (TOFU) key validation model. For resolving conflicts it is necessary to declare the policy for a key. See the GnuPG manual for details on the TOFU implementation.

@deftp {Data type} {enum gpgme_tofu_policy_t}
@since{1.7.0}

@tindex gpgme_tofu_policy_t
The @code{gpgme_tofu_policy_t} type specifies the set of possible policy values that are supported by @acronym{GPGME}:

@table @code
@item GPGME_TOFU_POLICY_AUTO
Set the policy to "auto".
@item GPGME_TOFU_POLICY_GOOD
Set the policy to "good".
@item GPGME_TOFU_POLICY_BAD
Set the policy to "bad".

@item GPGME_TOFU_POLICY_ASK
Set the policy to "ask".

@item GPGME_TOFU_POLICY_UNKNOWN
Set the policy to "unknown".

@end table

@end deftp

To change the policy for a key the following functions can be used:

@deftypefun {gpgme_error_t} gpgme_op_tofu_policy (@
         {gpgme_ctx_t @var{ctx}},       
         {const gpgme_key_t @var{key}}, 
         {gpgme_tofu_policy_t @var{policy}})

@since{1.7.0}

The function @code{gpgme_op_tofu_policy} changes the TOFU policy of
@var{key}. The valid values for @var{policy} are listed above. As of
now this function does only work for OpenPGP and requires at least
version 2.1.10 of GnuPG.

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if
the engine does not support the command, or a bunch of other error
codes.

@end deftypefun

@deftypefun {gpgme_error_t} gpgme_op_tofu_policy_start (@
         {gpgme_ctx_t @var{ctx}},       
         {const gpgme_key_t @var{key}}, 
         {gpgme_tofu_policy_t @var{policy}})

@since{1.7.0}

The function @code{gpgme_op_tofu_policy_start} initiates a
@code{gpgme_op_tofu_policy} operation. It can be completed by calling
@code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns @code{0} if the operation was started successfully,
and an error code if one of the arguments is not valid or the operation
could not be started.

@end deftypefun
Advanced Key Editing

@subsection Advanced Key Editing
@cindex key, edit
@deftp {Data type} {gpgme_error_t (*gpgme_interact_cb_t) @
 (@w{void *@var{handle}}, @
   @w{const char *@var{status}}, @
   @w{const char *@var{args}}, @
   @w{int @var{fd}})}
@since{1.7.0}
@tindex gpgme_interact_cb_t
The @code{gpgme_interact_cb_t} type is the type of functions which
@acronym{GPGME} calls if it a key interact operation is on-going.  The
status keyword @var{status} and the argument line @var{args} are
passed through by @acronym{GPGME} from the crypto engine. An empty
string represents EOF. The file descriptor @var{fd} is -1 for normal
status messages. If @var{status} indicates a command rather than a
status message, the response to the command should be written to
@var{fd}. The @var{handle} is provided by the user at start of
operation.

The function should return @code{GPG_ERR_FALSE} if it did not handle
the status code, @code{0} for success, or any other error value.
@end deftp

@deftypefun gpgme_error_t gpgme_op_interact (@w{gpgme_ctx_t @var{ctx}}, @
   @w{gpgme_key_t @var{key}}, @
   @w{unsigned int @var{flags}}, @
   @w{gpgme_interact_cb_t @var{fnc}}, @
   @w{void *@var{handle}}, @
   @w{gpgme_data_t @var{out}})
@since{1.7.0}
The function @code{gpgme_op_interact} processes the key @var{KEY}
interactively, using the interact callback function @var{FNC} with the
handle @var{HANDLE}. The callback is invoked for every status and
command request from the crypto engine. The output of the crypto
engine is written to the data object @var{out}.

Note that the protocol between the callback function and the crypto
engine is specific to the crypto engine and no further support in
implementing this protocol correctly is provided by @acronym{GPGME}.

@var{flags} modifies the behaviour of the function; the only defined
bit value is:
This is used for smartcard based keys and uses gpgs
@code{--card-edit} command.

The function returns @code{0} if the edit operation completes
successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is
not a valid pointer, and any error returned by the crypto engine or
the edit callback handler.

The function @code{gpgme_op_interact_start} initiates a
@code{gpgme_op_interact} operation. It can be completed by calling
@code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns @code{0} if the operation was started
successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key}
is not a valid pointer.

@node Trust Item Management
@section Trust Item Management
@cindex trust item

@strong{Caution:} The trust items interface is experimental.

The @code{gpgme_trust_item_t} type is a pointer to a trust item object.
It has the following members:
@item char *keyid
This is a string describing the key to which this trust items belongs.

@item int type
This is the type of the trust item. A value of 1 refers to a key, a
value of 2 refers to a user ID.

@item int level
This is the trust level.

@item char *owner_trust
The owner trust if @code{type} is 1.

@item char *validity
The calculated validity.

@item char *name
The user name if @code{type} is 2.
@end table
@end deftp

@end menu

* Listing Trust Items:: Browsing the list of available trust items.
* Manipulating Trust Items:: Operations on trust items.
@end menu

@node Listing Trust Items
@subsection Listing Trust Items
@cindex trust item list
@deftypefun gpgme_error_t gpgme_op_trustlist_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char *
@var{pattern}}, @w{int @var{max_level}})
The function @code{gpgme_op_trustlist_start} initiates a trust item
listing operation inside the context @var{ctx}. It sets everything up
so that subsequent invocations of @code{gpgme_op_trustlist_next} return
the trust items in the list.

The string @var{pattern} contains an engine specific expression that
is used to limit the list to all trust items matching the pattern. It
can not be the empty string.

The argument @var{max_level} is currently ignored.

The context will be busy until either all trust items are received
(and @code{gpgme_op_trustlist_next} returns @code{GPG_ERR_EOF}), or
@code{gpgme_op_trustlist_end} is called to finish the operation.
The function returns the error code `GPG_ERR_INV_VALUE` if `@var{ctx}` is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

```
@deftypefun gpgme_error_t gpgme_op_trustlist_next (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_trust_item_t *@var{r_item}})

The function `gpgme_op_trustlist_next` returns the next trust item in the list created by a previous `gpgme_op_trustlist_start` operation in the context `@var{ctx}`. The trust item can be destroyed with `gpgme_trust_item_release`. @xref{Manipulating Trust Items}.

This is the only way to get at `gpgme_trust_item_t` objects in @acronym{GPGME}.

If the last trust item in the list has already been returned, `gpgme_op_trustlist_next` returns `GPG_ERR_EOF`.

The function returns the error code `GPG_ERR_INV_VALUE` if `@var{ctx}` or `@var{r_item}` is not a valid pointer, and `GPG_ERR_ENOMEM` if there is not enough memory for the operation.
@end deftypefun

```

```
@deftypefun gpgme_error_t gpgme_op_trustlist_end (@w{gpgme_ctx_t @var{ctx}})

The function `gpgme_op_trustlist_end` ends a pending trust list operation in the context `@var{ctx}`.

The function returns the error code `GPG_ERR_INV_VALUE` if `@var{ctx}` is not a valid pointer, and `GPG_ERR_ENOMEM` if at some time during the operation there was not enough memory available.
@end deftypefun

```

@node Manipulating Trust Items
@subsection Manipulating Trust Items
@cindex trust item, manipulation

```
@deftypefun void gpgme_trust_item_ref (@w{gpgme_trust_item_t @var{item}})

The function `gpgme_trust_item_ref` acquires an additional reference for the trust item `@var{item}`.
@end deftypefun

```

```
@deftypefun void gpgme_trust_item_unref (@w{gpgme_trust_item_t @var{item}})

The function `gpgme_trust_item_unref` releases a reference for the trust item `@var{item}`. If this was the last reference, the trust item will be destroyed and all resources associated to it will be released.
@end deftypefun

```

---

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Sometimes, the result of a crypto operation returns a list of invalid keys encountered in processing the request. The following structure is used to hold information about such a key.

@deftp {Data type} {gpgme_invalid_key_t}
This is a pointer to a structure used to store a part of the result of a crypto operation which takes user IDs as one input parameter. The structure contains the following members:

@table @code
@item gpgme_invalid_key_t next
This is a pointer to the next invalid key structure in the linked list, or @code{NULL} if this is the last element.

@item char *fpr
The fingerprint or key ID of the invalid key encountered.

@item gpgme_error_t reason
An error code describing the reason why the key was found invalid.
@end table
@end deftp

@menu
* Decrypt:: Decrypting a ciphertext.
* Verify:: Verifying a signature.
* Decrypt and Verify:: Decrypting a signed ciphertext.
* Sign:: Creating a signature.
* Encrypt:: Encrypting a plaintext.
@end menu

@deftypefun gpgme_error_t gpgme_op_decrypt (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{cipher}}, @w{gpgme_data_t @var{plain}})
The function @code{gpgme_op_decrypt} decrypts the ciphertext in the data object @var{cipher} and stores it into the data object @var{plain}. 

The function returns the error code `GPG_ERR_NO_ERROR` if the ciphertext could be decrypted successfully, `GPG_ERR_INV_VALUE` if `@var{ctx}`, `@var{cipher}` or `@var{plain}` is not a valid pointer, `GPG_ERR_NO_DATA` if `@var{cipher}` does not contain any data to decrypt, `GPG_ERR_DECRYPT_FAILED` if `@var{cipher}` is not a valid cipher text, `GPG_ERR_BAD_PASSPHRASE` if the passphrase for the secret key could not be retrieved, and passes through some errors that are reported by the crypto engine support routines.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_decrypt_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{cipher}}, @w{gpgme_data_t @var{plain}})

The function `gpgme_op_decrypt_start` initiates a `gpgme_op_decrypt` operation. It can be completed by calling `gpgme_wait` on the context. @xref{Waiting For Completion}.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, and `GPG_ERR_INV_VALUE` if `@var{cipher}` or `@var{plain}` is not a valid pointer.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_decrypt_ext ( @
    @w{gpgme_ctx_t @var{ctx}}, @
    @w{gpgme_decrypt_flags_t @var{flags}}, @
    @w{gpgme_data_t @var{cipher}}, @
    @w{gpgme_data_t @var{plain}})

@since{1.8.0}

The function `gpgme_op_decrypt_ext` is the same as `gpgme_op_decrypt` but has an additional argument `@var{flags}`. If `@var{flags}` is 0 both function behave identically.

The value in `@var{flags}` is a bitwise-or combination of one or multiple of the following bit values:

@table @code
@item GPGME_DECRYPT_VERIFY
@since{1.8.0}
@item GPGME_DECRYPT_UNWRAP
@since{1.8.0}
@end table

The `GPGME_DECRYPT_VERIFY` symbol specifies that this function shall exactly act as `gpgme_op_decrypt_verify`.

@item GPGME_DECRYPT_UNWRAP
@since{1.8.0}
The \texttt{GPGME\_DECRYPT\_UNWRAP} symbol specifies that the output shall
be an OpenPGP message with only the encryption layer removed. This
requires GnuPG 2.1.12 and works only for OpenPGP. This is the
counterpart to \texttt{GPGME\_ENCRYPT\_WRAP}.

\end{table}

The function returns the error codes as described for
\texttt{gpgme\_op\_decrypt} respective \texttt{gpgme\_op\_encrypt}.
\end{deftypefun}

\begin{deftypefun}
\texttt{gpgme\_error\_t gpgme\_op\_decrypt\_ext\_start ( @}
\begin{verbatim}
  @w{gpgme\_ctx\_t @var{ctx}}, @
  @w{gpgme\_decrypt\_flags\_t @var{flags}}, @
  @w{gpgme\_data\_t @var{cipher}}, @
  @w{gpgme\_data\_t @var{plain}})
\end{verbatim}
\begin{verse}
\since{1.8.0}
\end{verse}
\end{deftypefun}

The function \texttt{gpgme\_op\_decrypt\_ext\_start} initiates a
\texttt{gpgme\_op\_decrypt\_ext} operation. It can be completed by calling
\texttt{gpgme\_wait} on the context. \xref{Waiting For Completion}.

The function returns the error code \texttt{GPG\_ERR\_NO\_ERROR} if the
operation could be started successfully, and \texttt{GPG\_ERR\_INV\_VALUE}
if \texttt{@var{cipher}} or \texttt{@var{plain}} is not a valid pointer.
\end{deftypefun}

\begin{deftp}{Data type}{gpgme\_recipient\_t}
\since{1.1.0}

This is a pointer to a structure used to store information about the
recipient of an encrypted text which is decrypted in a
\texttt{gpgme\_op\_decrypt} operation. This information (except for the
status field) is even available before the operation finished
successfully, for example in a passphrase callback. The structure
contains the following members:

\begin{table}
\item \texttt{gpgme\_recipient\_t next}
This is a pointer to the next recipient structure in the linked list,
or \texttt{NULL} if this is the last element.

\item \texttt{gpgme\_pubkey\_algo\_t}
The public key algorithm used in the encryption.

\item char *\texttt{keyid}
\end{table}
This is the key ID of the key (in hexadecimal digits) used as recipient.

@item gpgme_error_t status
This is an error number with the error code GPG_ERR_NO_SECKEY if the secret key for this recipient is not available, and 0 otherwise.
@end table
@end deftp

@deftp {Data type} {gpgme_decrypt_result_t}
This is a pointer to a structure used to store the result of a @code{gpgme_op_decrypt} operation. After successfully decrypting data, you can retrieve the pointer to the result with @code{gpgme_op_decrypt_result}. As with all result structures, it this structure shall be considered read-only and an application must not allocate such a structure on its own. The structure contains the following members:

@table @code
@item char *unsupported_algorithm
If an unsupported algorithm was encountered, this string describes the algorithm that is not supported.

@item unsigned int wrong_key_usage : 1
@since{0.9.0}
This is true if the key was not used according to its policy.

@item unsigned int legacy_cipher_nomdc : 1
@since{1.11.2}
The message was made by a legacy algorithm without any integrity protection. This might be an old but legitimate message.

@item unsigned int is_mime : 1;
@since{1.11.0}
The message claims that the content is a MIME object.

@item unsigned int is_de_vs : 1;
@since{1.10.0}
The message was encrypted in a VS-NiD compliant way. This is a specification in Germany for a restricted communication level.

@item gpgme_recipient_t recipients
@since{1.1.0}
This is a linked list of recipients to which this message was encrypted.

@item char *file_name
This is the filename of the original plaintext message file if it is
known, otherwise this is a null pointer.

@item char *session_key @since{1.8.0}

A textual representation (nul-terminated string) of the session key
used in symmetric encryption of the message, if the context has been
set to export session keys (see @code{gpgme_set_ctx_flag, "export-session-key"}), and a session key was available for the most
recent decryption operation. Otherwise, this is a null pointer.

You must not try to access this member of the struct unless
@code{gpgme_set_ctx_flag (ctx, "export-session-key"}) returns success
or @code{gpgme_get_ctx_flag (ctx, "export-session-key")} returns true
(non-empty string).

@item char *symkey_algo @since{1.11.0}

A string with the symmetric encryption algorithm and mode using the
format "<algo>.<mode>". Note that the deprecated non-MDC encryption mode of
OpenPGP is given as "PGPCFB".

@end table
@end deftp

@deftypefun gpgme_decrypt_result_t gpgme_op_decrypt_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_decrypt_result} returns a
@code{gpgme_decrypt_result_t} pointer to a structure holding the
result of a @code{gpgme_op_decrypt} operation. The pointer is only
valid if the last operation on the context was a
@code{gpgme_op_decrypt} or @code{gpgme_op_decrypt_start} operation.
If the operation failed this might be a @code{NULL} pointer. The
returned pointer is only valid until the next operation is started on
the context.
@end deftypefun

@node Verify
@subsection Verify
@cindex verification
@cindex signature, verification
@cindex cryptographic operation, verification
@cindex cryptographic operation, signature check
@cindex signature notation data
@cindex notation data

@deftypefun gpgme_error_t gpgme_op_verify (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{sig}},
The function @code{gpgme_op_verify} verifies that the signature in the
data object @var{sig} is a valid signature. If @var{sig} is a
detached signature, then the signed text should be provided in
@var{signed_text} and @var{plain} should be a null pointer.
Otherwise, if @var{sig} is a normal (or cleartext) signature,
@var{signed_text} should be a null pointer and @var{plain} should be a
writable data object that will contain the plaintext after successful
verification.

The results of the individual signature verifications can be retrieved
with @code{gpgme_op_verify_result}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
operation could be completed successfully, @code{GPG_ERR_INV_VALUE} if
@var{ctx}, @var{sig} or @var{plain} is not a valid pointer,
@code{GPG_ERR_NO_DATA} if @var{sig} does not contain any data to
verify, and passes through any errors that are reported by the crypto
engine support routines.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_verify_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t
@var{sig}}, @w{gpgme_data_t @var{signed_text}}, @w{gpgme_data_t @var{plain}})
The function @code{gpgme_op_verify_start} initiates a
@code{gpgme_op_verify} operation. It can be completed by calling
@code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
operation could be started successfully, @code{GPG_ERR_INV_VALUE} if
@var{ctx}, @var{sig} or @var{plain} is not a valid pointer, and
@code{GPG_ERR_NO_DATA} if @var{sig} or @var{plain} does not contain
any data to verify.

@end deftypefun

@deftp {Data type} {gpgme_sig_notation_t}
This is a pointer to a structure used to store a part of the result of
a @code{gpgme_op_verify} operation. The structure contains the
following members:

@table @code
@item gpgme_sig_notation_t next
This is a pointer to the next new signature notation structure in the
linked list, or @code{NULL} if this is the last element.

@item char *name
The name of the notation field. If this is @code{NULL}, then the
member @code{value} will contain a policy URL.
@item int name_len
The length of the @code{name} field. For strings the length is counted without the trailing binary zero.

@item char *value
The value of the notation field. If @code{name} is @code{NULL}, then this is a policy URL.

@item int value_len
The length of the @code{value} field. For strings the length is counted without the trailing binary zero.

@item gpgme_sig_notation_flags_t flags
The accumulated flags field. This field contains the flags associated with the notation data in an accumulated form which can be used as an argument to the function @code{gpgme_sig_notation_add}. The value @code{flags} is a bitwise-or combination of one or multiple of the following bit values:

@table @code
@item GPGME_SIG_NOTATION_HUMAN_READABLE
@since{1.1.0}
The @code{GPGME_SIG_NOTATION_HUMAN_READABLE} symbol specifies that the notation data is in human readable form

@item GPGME_SIG_NOTATION_CRITICAL
@since{1.1.0}
The @code{GPGME_SIG_NOTATION_CRITICAL} symbol specifies that the notation data is critical.
@end table

@item unsigned int human_readable : 1
This is true if the @code{GPGME_SIG_NOTATION_HUMAN_READABLE} flag is set and false otherwise. This flag is only valid for notation data, not for policy URLs.

@item unsigned int critical : 1
This is true if the @code{GPGME_SIG_NOTATION_CRITICAL} flag is set and false otherwise. This flag is valid for notation data and policy URLs.
@end table
@end deftp
@deftp {Data type} {gpgme_signature_t}
This is a pointer to a structure used to store a part of the result of
a @code{gpgme_op_verify} operation. The structure contains the following members:

@table @code
@item gpgme_signature_t next
This is a pointer to the next new signature structure in the linked list, or @code{NULL} if this is the last element.

@item gpgme_sigsum_t summary
This is a bit vector giving a summary of the signature status. It provides an easy interface to a defined semantic of the signature status. Checking just one bit is sufficient to see whether a signature is valid without any restrictions. This means that you can check for GPGME_SIGSUM_VALID like this:

@example
if ((sig.summary & GPGME_SIGSUM_VALID))
@
   ..do stuff if valid..
@
else
@
   ..do stuff if not fully valid..
@
@end example

The defined bits are:
@table @code
@item GPGME_SIGSUM_VALID
The signature is fully valid.

@item GPGME_SIGSUM_GREEN
The signature is good but one might want to display some extra information. Check the other bits.

@item GPGME_SIGSUM_RED
The signature is bad. It might be useful to check other bits and display more information, i.e. a revoked certificate might not render a signature invalid when the message was received prior to the cause for the revocation.

@item GPGME_SIGSUM_KEY_REVOKED
The key or at least one certificate has been revoked.

@item GPGME_SIGSUM_KEY_EXPIRED
The key or one of the certificates has expired. It is probably a good idea to display the date of the expiration.
@item GPGME_SIGSUM_SIG_EXPIRED
The signature has expired.

@item GPGME_SIGSUM_KEY_MISSING
Can't verify due to a missing key or certificate.

@item GPGME_SIGSUM_CRL_MISSING
The CRL (or an equivalent mechanism) is not available.

@item GPGME_SIGSUM_CRL_TOO_OLD
Available CRL is too old.

@item GPGME_SIGSUM_BAD_POLICY
A policy requirement was not met.

@item GPGME_SIGSUM_SYS_ERROR
A system error occurred.

@item GPGME_SIGSUM_TOFU_CONFLICT
A TOFU conflict was detected.
@end table

@item char *fpr
This is the fingerprint or key ID of the signature.

@item gpgme_error_t status
This is the status of the signature. In particular, the following
status codes are of interest:

@table @code
@item GPG_ERR_NO_ERROR
This status indicates that the signature is valid. For the combined
result this status means that all signatures are valid.

@item GPG_ERR_SIG_EXPIRED
This status indicates that the signature is valid but expired. For the
combined result this status means that all signatures are valid
and expired.

@item GPG_ERR_KEY_EXPIRED
This status indicates that the signature is valid but the key used to
verify the signature has expired. For the combined result this status
means that all signatures are valid and all keys are expired.

@item GPG_ERR_CERT_REVOKED
This status indicates that the signature is valid but the key used
to verify the signature has been revoked. For the combined result
this status means that all signatures are valid and all keys are
revoked.

@item GPG_ERR_BAD_SIGNATURE
This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.

@item GPG_ERR_NO_PUBKEY
This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.

@item GPG_ERR_GENERAL
This status indicates that there was some other error which prevented the signature verification.
@end table

@item gpgme_sig_notation_t notations
This is a linked list with the notation data and policy URLs.

@item unsigned long timestamp
The creation timestamp of this signature.

@item unsigned long exp_timestamp
The expiration timestamp of this signature, or 0 if the signature does not expire.

@item unsigned int wrong_key_usage : 1
This is true if the key was not used according to its policy.

@item unsigned int pka_trust : 2
This is set to the trust information gained by means of the PKA system. Values are:
@table @code
@item 0
No PKA information available or verification not possible.
@item 1
PKA verification failed.
@item 2
PKA verification succeeded.
@item 3
Reserved for future use.
@end table
Depending on the configuration of the engine, this metric may also be reflected by the validity of the signature.

@item unsigned int chain_model : 1
@since{1.1.6}
This is true if the validity of the signature has been checked using the chain model. In the chain model the time the signature has been created must be within the validity period of the certificate and the time the certificate itself has been created must be within the validity period of the issuing certificate. In contrast the default validation model checks the validity of signature as well at the entire certificate chain at the current time.

@item gpgme_validity_t validity
The validity of the signature.

@item gpgme_error_t validity_reason
If a signature is not valid, this provides a reason why.

@item gpgme_pubkey_algo_t
The public key algorithm used to create this signature.

@item gpgme_hash_algo_t
The hash algorithm used to create this signature.

@item char *pka_address
The mailbox from the PKA information or @code{NULL}.

@item gpgme_key_t key
@since{1.7.0}
An object describing the key used to create the signature. This key object may be incomplete in that it only conveys information available directly with a signature. It may also be @code{NULL} if such information is not readily available.

@end table
@end deftp

@deftp {Data type} {gpgme_verify_result_t}
This is a pointer to a structure used to store the result of a @code{gpgme_op_verify} operation. After verifying a signature, you can retrieve the pointer to the result with @code{gpgme_op_verify_result}. If the operation failed this might be a @code{NULL} pointer. The structure contains the following member:

@table @code
@item gpgme_signature_t signatures
A linked list with information about all signatures for which a verification was attempted.

@item char *file_name
This is the filename of the original plaintext message file if it is known, otherwise this is a null pointer. Warning: The filename is not covered by the signature.

@item unsigned int is_mime : 1;
@since{1.11.0}

The message claims that the content is a MIME object. Warning: This flag is not covered by the signature.

@end table
@end deftp

@deftypefun gpgme_verify_result_t gpgme_op_verify_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_verify_result} returns a
@code{gpgme_verify_result_t} pointer to a structure holding the result of a @code{gpgme_op_verify} operation. The pointer is only valid if the last operation on the context was a @code{gpgme_op_verify}, @code{gpgme_op_verify_start}, @code{gpgme_op_decrypt_verify} or @code{gpgme_op_decrypt_verify_start} operation, and if this operation finished successfully (for @code{gpgme_op_decrypt_verify} and @code{gpgme_op_decrypt_verify_start}, the error code @code{GPG_ERR_NO_DATA} counts as successful in this context). The returned pointer is only valid until the next operation is started on the context.
@end deftypefun

@node Decrypt and Verify
@subsection Decrypt and Verify
@cindex decryption and verification
@cindex verification and decryption
@cindex signature check
@cindex cryptographic operation, decryption and verification

@deftypefun gpgme_error_t gpgme_op_decrypt_verify (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{cipher}}, @w{gpgme_data_t @var{plain}})
The function @code{gpgme_op_decrypt_verify} decrypts the ciphertext in the data object @var{cipher} and stores it into the data object @var{plain}. If @var{cipher} contains signatures, they will be verified.

After the operation completed, @code{gpgme_op_decrypt_result} and @code{gpgme_op_verify_result} can be used to retrieve more information about the signatures.

If the error code @code{GPG_ERR_NO_DATA} is returned, @var{cipher} does not contain any data to decrypt. However, it might still be
signed. The information about detected signatures is available with @code{gpgme_op_verify_result} in this case.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the ciphertext could be decrypted successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{cipher} or @var{plain} is not a valid pointer, @code{GPG_ERR_NO_DATA} if @var{cipher} does not contain any data to decrypt, @code{GPG_ERR_DECRYPT_FAILED} if @var{cipher} is not a valid cipher text, @code{GPG_ERR_BAD_PASSPHRASE} if the passphrase for the secret key could not be retrieved, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@end deftypefun gpgme_error_t gpgme_op_decrypt_verify_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{cipher}}, @w{gpgme_data_t @var{plain}})

The function @code{gpgme_op_decrypt_verify_start} initiates a @code{gpgme_op_decrypt_verify} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{cipher}, @var{plain} or @var{r_stat} is not a valid pointer, and @code{GPG_ERR_NO_DATA} if @var{cipher} does not contain any data to decrypt.
@end deftypefun

When processing mails it is sometimes useful to extract the actual mail address (the ``addr-spec'') from a string. GPGME provides this helper function which uses the same semantics as the internal functions in GPGME and GnuPG:

@deftypefun @w{char *} gpgme_addrspec_from_uid (@w{const char *@var{uid}})

@since{1.7.1}

Return the mail address (called ``addr-spec'' in RFC-5322) from the string @var{uid} which is assumed to be a user id (called ``address'' in RFC-5322). All plain ASCII characters (i.e. those with bit 7 cleared) in the result are converted to lowercase. Caller must free the result using @code{gpgme_free}. Returns @code{NULL} if no valid address was found (in which case @code{ERRNO} is set to @code{EINVAL}) or for other errors.
@end deftypefun

@node Sign
A signature can contain signatures by one or more keys. The set of keys used to create a signature is contained in a context, and is applied to all following signing operations in this context (until the set is changed).

The key or the keys used to create a signature are stored in the context. The following functions can be used to manipulate this list. If no signer has been set into the context a default key is used for signing.

The function `gpgme_signers_clear()` releases a reference for each key on the signers list and removes the list of signers from the context `ctx`.

Every context starts with an empty list.

The function `gpgme_signers_add()` adds the key `key` to the list of signers in the context `ctx`.

Calling this function acquires an additional reference for the key.

The function `gpgme_signers_count()` returns the number of signer keys in the context `ctx`. 
The function @code{gpgme_signers_enum} returns the @var{seq}th key in the list of signers in the context @var{ctx}. An additional reference is acquired for the user.

If @var{seq} is out of range, @code{NULL} is returned.

The @code{gpgme_sig_mode_t} type is used to specify the desired type of a signature. The following modes are available:

- **GPGME_SIG_MODE_NORMAL**
  A normal signature is made, the output includes the plaintext and the signature.

- **GPGME_SIG_MODE_DETACH**
  A detached signature is made.

- **GPGME_SIG_MODE_CLEAR**
  A clear text signature is made. The @acronym{ASCII} armor and text mode settings of the context are ignored.

The function @code{gpgme_op_sign} creates a signature for the text in the data object @var{plain} and returns it in the data object @var{sig}. The type of the signature created is determined by the @acronym{ASCII} armor (or, if that is not set, by the encoding specified for @var{sig}), the text mode attributes set for the context @var{ctx} and the requested signature mode @var{mode}.

After the operation completed successfully, the result can be retrieved with @code{gpgme_op_sign_result}.

If an S/MIME signed message is created using the CMS crypto engine, the number of certificates to include in the message can be specified with @code{gpgme_set_include_certs}. @xref{Included Certificates}.  

---

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The function returns the error code `GPG_ERR_NO_ERROR` if the signature could be created successfully, `GPG_ERR_INV_VALUE` if `@var{ctx}`, `@var{plain}` or `@var{sig}` is not a valid pointer, `GPG_ERR_NO_DATA` if the signature could not be created, `GPG_ERR_BAD_PASSPHRASE` if the passphrase for the secret key could not be retrieved, and passes through any errors that are reported by the crypto engine support routines.

@end deftypefun

```plaintext
@deftypefun gpgme_error_t gpgme_op_sign_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{sig}}, @w{gpgme_sig_mode_t @var{mode}})
```

The function `gpgme_op_sign_start` initiates a `gpgme_op_sign` operation. It can be completed by calling `gpgme_wait` on the context. @xref{Waiting For Completion}.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, and `GPG_ERR_INV_VALUE` if `@var{ctx}`, `@var{plain}` or `@var{sig}` is not a valid pointer.

@end deftypefun

```plaintext
@deftp {Data type} {gpgme_new_signature_t}
```

This is a pointer to a structure used to store a part of the result of a `gpgme_op_sign` operation. The structure contains the following members:

@table @code
@item gpgme_new_signature_t next
This is a pointer to the next new signature structure in the linked list, or `NULL` if this is the last element.

@item gpgme_sig_mode_t type
The type of this signature.

@item gpgme_pubkey_algo_t pubkey_algo
The public key algorithm used to create this signature.

@item gpgme_hash_algo_t hash_algo
The hash algorithm used to create this signature.

@item unsigned int sig_class
The signature class of this signature.

@item long int timestamp
The creation timestamp of this signature.

@item char *fpr
The fingerprint of the key which was used to create this signature.
@end table
@end deftp

@end deftp {Data type} {gpgme_sign_result_t}
This is a pointer to a structure used to store the result of a
@end code {gpgme_op_sign} operation. After successfully generating a
signature, you can retrieve the pointer to the result with
@end code {gpgme_op_sign_result}. The structure contains the following
members:

@end table @code
@end item gpgme_invalid_key_t invalid_signers
A linked list with information about all invalid keys for which a
signature could not be created.

@end item gpgme_new_signature_t signatures
A linked list with information about all signatures created.
@end end table
@end end deftp

@end deftypefun gpgme_sign_result_t gpgme_op_sign_result (@w {gpgme_ctx_t @var {ctx}})
The function @code {gpgme_op_sign_result} returns a
@end code {gpgme_sign_result_t} pointer to a structure holding the result
of a @code {gpgme_op_sign} operation. The pointer is only valid if the
last operation on the context was a @code {gpgme_op_sign},
@end code {gpgme_op_sign_start}, @code {gpgme_op_encrypt_sign} or
@end code {gpgme_op_encrypt_sign_start} operation. If that operation
failed, the function might return a @code {NULL} pointer. The returned
pointer is only valid until the next operation is started on the
context.
@end end deftypefun

@node Signature Notation Data
@subsubsection Signature Notation Data
@cindex notation data
@cindex signature notation data
@cindex policy URL
Using the following functions, you can attach arbitrary notation data
to a signature. This information is then available to the user when
the signature is verified.

@end deftypefun void gpgme_sig_notation_clear (@w {gpgme_ctx_t @var {ctx}})
@since {1.1.0}
The function @code {gpgme_sig_notation_clear} removes the notation data
from the context @var{ctx}. Subsequent signing operations from this
context will not include any notation data.

Every context starts with an empty notation data list.
@end deftypefun

@end deftypefun gpgme_error_t gpgme_sig_notation_add (@w{gpgme_ctx_t @var{ctx}}, @w{const char
*@var{name}}, @w{const char *@var{value}}, @w{gpgme_sig_notation_flags_t @var{flags}})
@since{1.1.0}

The function @code{gpgme_sig_notation_add} adds the notation data with
the name @var{name} and the value @var{value} to the context
@var{ctx}.

Subsequent signing operations will include this notation data, as well
as any other notation data that was added since the creation of the
context or the last @code{gpgme_sig_notation_clear} operation.

The arguments @var{name} and @var{value} must be @code{NUL}-terminated
strings in human-readable form. The flag
@code{GPGME_SIG_NOTATION_HUMAN_READABLE} is implied
(non-human-readable notation data is currently not supported). The
strings must be in UTF-8 encoding.

If @var{name} is @code{NULL}, then @var{value} should be a policy URL.

The function @code{gpgme_sig_notation_add} returns the error code
@code{GPG_ERR_NO_ERROR} if the notation data could be added
successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid
pointer, or if @var{name}, @var{value} and @var{flags} are an invalid
combination. The function also passes through any errors that are
reported by the crypto engine support routines.
@end deftypefun

@end deftypefun gpgme_sig_notation_t gpgme_sig_notation_get (@w{const gpgme_ctx_t @var{ctx}})
@since{1.1.0}

The function @code{gpgme_sig_notation_get} returns the linked list of
notation data structures that are contained in the context @var{ctx}.

If @var{ctx} is not a valid pointer, or there is no notation data
added for this context, @code{NULL} is returned.
@end deftypefun

@node Encrypt
@subsection Encrypt
@cindex encryption
cindex cryptographic operation, encryption

One plaintext can be encrypted for several recipients at the same time. The list of recipients is created independently of any context, and then passed to the encryption operation.

menu
* Encrypting a Plaintext:: How to encrypt a plaintext.
end menu

node Encrypting a Plaintext
subsubsection Encrypting a Plaintext

deftypefun gpgme_error_t gpgme_op_encrypt (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{recp}[]}, @w{gpgme_encrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})
The function @code{gpgme_op_encrypt} encrypts the plaintext in the data object @var{plain} for the recipients @var{recp} and stores the ciphertext in the data object @var{cipher}. The type of the ciphertext created is determined by the @acronym{ASCII} armor (or, if that is not set, by the encoding specified for @var{cipher}) and the text mode attributes set for the context @var{ctx}.

@var{recp} must be a @code{NULL}-terminated array of keys. The user must keep references for all keys during the whole duration of the call (but see @code{gpgme_op_encrypt_start} for the requirements with the asynchronous variant).

The value in @var{flags} is a bitwise-or combination of one or multiple of the following bit values:

table @code
@item GPGME_ENCRYPT_ALWAYS_TRUST
The @code{GPGME_ENCRYPT_ALWAYS_TRUST} symbol specifies that all the recipients in @var{recp} should be trusted, even if the keys do not have a high enough validity in the keyring. This flag should be used with care; in general it is not a good idea to use any untrusted keys.

@item GPGME_ENCRYPT_NO_ENCRYPT_TO
@since{1.2.0}
The @code{GPGME_ENCRYPT_NO_ENCRYPT_TO} symbol specifies that no default or hidden default recipients as configured in the crypto backend should be included. This can be useful for managing different user profiles.

@item GPGME_ENCRYPT_NO_COMPRESS
The `GPGME_ENCRYPT_NO_COMPRESS` symbol specifies that the plaintext shall not be compressed before it is encrypted. This is in some cases useful if the length of the encrypted message may reveal information about the plaintext.

The `GPGME_ENCRYPT_PREPARE` symbol is used with the UI Server protocol to prepare an encryption (i.e. sending the `PREP_ENCRYPT` command). With the `GPGME_ENCRYPT_EXPECT_SIGN` symbol the UI Server is advised to also expect a sign command.

The `GPGME_ENCRYPT_SYMMETRIC` symbol specifies that the output should be additionally encrypted symmetrically even if recipients are provided. This feature is only supported for the OpenPGP crypto engine.

The `GPGME_ENCRYPT_THROW_KEYIDS` symbols requests that the identifiers for the decryption keys are not included in the ciphertext. On the receiving side, the use of this flag may slow down the decryption process because all available secret keys must be tried. This flag is only honored for OpenPGP encryption.

The `GPGME_ENCRYPT_WRAP` symbol specifies that the input is an OpenPGP message and not a plain data. This is the counterpart to `GPGME_DECRYPT_UNWRAP`.

The `GPGME_ENCRYPT_WANT_ADDRESS` symbol requests that all supplied keys or key specifications include a syntactically valid mail address. If this is not the case the operation is not even tried and the error code `GPG_ERR_INV_USER_ID` is returned. Only the address part of the key specification is conveyed to the backend. As of now the key must be specified using the `var{recpstring}` argument.
of the extended encrypt functions. This feature is currently only supported for the OpenPGP crypto engine.

@end table

If @code{GPG_ERR_UNUSABLE_PUBKEY} is returned, some recipients in @var{recp} are invalid, but not all. In this case the plaintext might be encrypted for all valid recipients and returned in @var{cipher} (if this happens depends on the crypto engine). More information about the invalid recipients is available with @code{gpgme_op_encrypt_result}.

If @var{recp} is @code{NULL}, symmetric rather than public key encryption is performed. Symmetrically encrypted cipher text can be deciphered with @code{gpgme_op_decrypt}. Note that in this case the crypto backend needs to retrieve a passphrase from the user. Symmetric encryption is currently only supported for the OpenPGP crypto backend.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the ciphertext could be created successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{recp}, @var{plain} or @var{cipher} is not a valid pointer, @code{GPG_ERR_UNUSABLE_PUBKEY} if @var{recp} contains some invalid recipients, @code{GPG_ERR_BAD_PASSPHRASE} if the passphrase for the symmetric key could not be retrieved, and passes through any errors that are reported by the crypto engine support routines.

@end deftypefun

@deftypefun{gpgme_error_t gpgme_op_encrypt_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{recp}}[], @w{gpgme_encrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})}

The function @code{gpgme_op_encrypt_start} initiates a @code{gpgme_op_encrypt} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

References to the keys only need to be held for the duration of this call. The user can release its references to the keys after this function returns, even if the operation is not yet finished.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{rset}, @var{plain} or @var{cipher} is not a valid pointer, and @code{GPG_ERR_UNUSABLE_PUBKEY} if @var{rset} does not contain any valid recipients.

@end deftypefun

@deftypefun{gpgme_error_t gpgme_op_encrypt_ext (@w{gpgme_ctx_t @var{ctx}}, @}
@w{gpgme_key_t @var{recp}[]}, @
@w{const char *@var{recpstring}}, @
@w{gpgme_encrypt_flags_t @var{flags}}, @
@w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}}

@since{1.11.0}

This is an extended version of @code{gpgme_op_encrypt} with
@var{recpstring} as additional parameter. If @var{recp} is NULL and
@var{recpstring} is not NULL, the latter is expected to be a linefeed
delimited string with the set of key specifications. In contrast to
@var{recp} the keys are given directly as strings and there is no need
to first create key objects. Leading and trailing white space is
remove from each line in @var{recpstring}. The keys are then passed
verbatim to the backend engine.

For the OpenPGP backend several special keywords are supported to
modify the operation. These keywords are given instead of a key
specification. The currently supported keywords are:

@table @code
@item --hidden
@itemx --no-hidden
These keywords toggle between normal and hidden recipients for all
following key specifications. When a hidden recipient is requested
the gpg option @option{-R} (or @option{-F} in file mode) is used
instead of @option{-r} (@option{-f} in file mode).

@item --file
@itemx --no-file
These keywords toggle between regular and file mode for all following
key specification. In file mode the option @option{-f} or @option{-F}
is passed to gpg. At least GnuPG version 2.1.14 is required to handle
these options. The @code{GPGME_ENCRYPT_WANT_ADDRESS} flag is ignored
in file mode.

@item --
This keyword disables all keyword detection up to the end of the
string. All keywords are treated as verbatim arguments.

@end table

To create a @var{recpstring} it is often useful to employ a strconcat
style function. For example this function creates a string to encrypt
to two keys:

@example
char *
xbuild_recpstring (const char *key1, const char *key2) {
  char *result = gpgrt_strconcat ("--\n", key1, "\n", key2, NULL);
  if (!result) {
    perror ("strconcat failed"); exit (2);
  }
  return result;
}
@end example

Note the use of the double dash here; unless you want to specify a
keyword, it is a good idea to avoid any possible trouble with key
specifications starting with a double dash. The used strconcat
function is available in Libgpg-error 1.28 and later; Libgpg-error
(aka Gpgrt) is a dependency of GPGME. The number of arguments to
@gpgrt_strconcat is limited to 47 but that should always be
sufficient. In case a larger and non-fixed number of keys are to be
supplied the following code can be used:

@example
char *
xbuild_long_recpstring (void) {
  gpgrt_stream_t memfp;
  const char *s;
  void *result;

  memfp = gpgrt_fopenmem (0, "w+b");
  if (!memfp) {
    perror ("fopenmem failed"); exit (2);
  }
  gpgrt_fputs ("--", memfp);
  while ((s = get_next_keyspec ())) {
    gpgrt_fputc (\n", memfp);
    gpgrt_fputs (s, memfp);
  }
  gpgrt_fputc (0, memfp);
  if (gpgrt_ferror (memfp)) {
    perror ("writing to memstream failed"); exit (2);
  }
  if (gpgrt_fclose_snatch (memfp, &result, NULL)) {
    perror ("fclose_snatch failed"); exit (2);
  }
  return result;
}
@end example

In this example @code{get_next_keyspec} is expected to return the next
key to be added to the string. Please take care: Encrypting to a
large number of recipients is often questionable due to security
reasons and also for the technicality that all keys are currently
passed on the command line to \texttt{gpg} which has as a platform specific length limitation.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_encrypt_ext_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{recp}[]}[], @w{const char *@var{recpstring}[]}, @w{gpgme_encrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})

@since{1.11.0}
This is an extended version of \texttt{gpgme_op_encrypt_start} with @var{recpstring} as additional parameter. If @var{recp} is NULL and @var{recpstring} is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to @var{recp} the keys are given directly as strings and there is no need to first create key objects. The keys are passed verbatim to the backend engine.
@end deftypefun

@deftp{Data type} {gpgme_encrypt_result_t}
This is a pointer to a structure used to store the result of a \texttt{gpgme_op_encrypt} operation. After successfully encrypting data, you can retrieve the pointer to the result with \texttt{gpgme_op_encrypt_result}. The structure contains the following members:

@table @code
@item gpgme_invalid_key_t invalid_recipients
A linked list with information about all invalid keys for which the data could not be encrypted.
@end table
@end deftp

@deftypefun gpgme_encrypt_result_t gpgme_op_encrypt_result (@w{gpgme_ctx_t @var{ctx}})
The function \texttt{gpgme_op_encrypt_result} returns a \texttt{gpgme_encrypt_result_t} pointer to a structure holding the result of a \texttt{gpgme_op_encrypt} operation. The pointer is only valid if the last operation on the context was a \texttt{gpgme_op_encrypt}, \texttt{gpgme_op_encrypt_start}, \texttt{gpgme_op_sign} or \texttt{gpgme_op_sign_start} operation. If this operation failed, this might be a \texttt{NULL} pointer. The returned pointer is only valid until the next operation is started on the context.
The function `gpgme_op_encrypt_sign` does a combined encrypt and sign operation. It is used like `gpgme_op_encrypt`, but the ciphertext also contains signatures for the signers listed in `@var{ctx}`.

The combined encrypt and sign operation is currently only available for the OpenPGP crypto engine.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, and `GPG_ERR_INV_VALUE` if `@var{ctx}`, `@var{rset}`, `@var{plain}` or `@var{cipher}` is not a valid pointer.

This is an extended version of `gpgme_op_encrypt_sign` with `@var{recpstring}` as additional parameter. If `@var{recp}` is NULL and `@var{recpstring}` is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to `@var{recp}` the keys are given directly as strings and there is no need to first create the key objects. The keys are passed verbatim to the backend engine.
This is an extended version of \texttt{gpgme_op_encrypt_sign_start} with \texttt{recpstring} as additional parameter. If \texttt{recp} is \texttt{NULL} and \texttt{recpstring} is not \texttt{NULL}, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to \texttt{recp}, the keys are given directly as strings and there is no need to first create the key objects. The keys are passed verbatim to the backend engine.

@end deftypefun

@node Miscellaneous
@section Miscellaneous operations
Here are some support functions which are sometimes useful.

@menu
* Running other Programs:: Running other Programs
* Using the Assuan protocol:: Using the Assuan protocol
* Checking for updates:: How to check for software updates
@end menu

@node Running other Programs
@section Running other Programs
GPGME features an internal subsystem to run the actual backend engines. Along with data abstraction object this subsystem can be used to run arbitrary simple programs which even need not be related to cryptographic features. It may for example be used to run tools which are part of the GnuPG system but are not directly accessible with the GPGME API.

@end deftypefun
The function `gpgme_op_spawn` runs the program `file` with the arguments taken from the NULL terminated array `argv`. If no arguments are required `argv` may be given as `NULL`. In the latter case or if `code[argv[0]]` is the empty string, GPGME uses the basename of `file` for `argv[0]`. The file descriptors `stdin`, `stdout`, and `stderr` are connected to the data objects `datain`, `dataout`, and `dataerr`. If `NULL` is passed for one of these data objects the corresponding file descriptor is connected to `/dev/null`.

The value in `flags` is a bitwise-or combination of one or multiple of the following bit values:

- `GPGME_SPAWN_DETACHED`
- `GPGME_SPAWN_ALLOW_SET_FG`

Under Windows this flag inhibits the allocation of a new console for the program. This is useful for a GUI application which needs to call a command line helper tool.

This is the asynchronous variant of `gpgme_op_spawn`.

The Assuan protocol can be used to talk to arbitrary Assuan servers.
By default it is connected to the GnuPG agent, but it may be connected to arbitrary servers by using `gpgme_ctx_set_engine_info`, passing the location of the servers socket as `file_name` argument, and an empty string as `home_dir` argument.

The Assuan protocol functions use three kinds of callbacks to transfer data:

```c
@defftp {Data type} {gpgme_error_t (*gpgme_assuan_data_cb_t) (void *opaque, const void *data, size_t datalen)}
@since{1.2.0}
```

This callback receives any data sent by the server. `opaque` is the pointer passed to `gpgme_op_assuan_transact_start`, `data` of length `datalen` refers to the data sent.

```c
@defftp {Data type} {gpgme_error_t (*gpgme_assuan_inquire_cb_t) (void *opaque, const char *name, const char *args, gpgme_data_t *r_data)}
@since{1.2.0}
```

This callback is used to provide additional data to the Assuan server. `opaque` is the pointer passed to `gpgme_op_assuan_transact_start`, `name` and `args` specify what kind of data the server requested, and `r_data` is used to return the actual data.

Note: Returning data is currently not implemented in `GPGME`.

```c
@defftp {Data type} {gpgme_error_t (*gpgme_assuan_status_cb_t) (void *opaque, const char *status, const char *args)}
@since{1.2.0}
```

This callback receives any status lines sent by the server. `opaque` is the pointer passed to `gpgme_op_assuan_transact_start`, `status` and `args` denote the status update sent.
Send the Assuan @var{command} and return results via the callbacks.
Any callback may be @code{NULL}. The result of the operation may be retrieved using @code{gpgme_wait_ext}.

Asynchronous variant.
@end deftypefun

gpgme_error_t gpgme_op_assuan_transact_ext (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{command}}, @w{gpgme_assuan_data_cb_t @var{data_cb}}, @w{void * @var{data_cb_value}}, @w{gpgme_assuan_inquire_cb_t @var{inquire_cb}}, @w{void * @var{inquire_cb_value}}, @w{gpgme_assuan_status_cb_t @var{status_cb}}, @w{void * @var{status_cb_value}}, @w{gpgme_error_t *@var{op_err}})

Send the Assuan @var{command} and return results via the callbacks. The result of the operation is returned in @var{op_err}.

Synchronous variant.
@end deftypefun

@node Checking for updates
@subsection How to check for software updates

The GnuPG Project operates a server to query the current versions of software packages related to GnuPG. GPGME can be used to access this online database and check whether a new version of a software package is available.

@deftp {Data type} {gpgme_query_swdb_result_t}
@since{1.8.0}

This is a pointer to a structure used to store the result of a @code{gpgme_op_query_swdb} operation. After success full call to that function, you can retrieve the pointer to the result with @code{gpgme_op_query_swdb_result}. The structure contains the
following member:

```
@table @code
@item name
This is the name of the package.

@item iversion
The currently installed version or an empty string. This value is either a copy of the argument given to @code{gpgme_op_query_swdb} or the version of the installed software as figured out by GPGME or GnuPG.

@item created
This gives the date the file with the list of version numbers has originally been created by the GnuPG project.

@item retrieved
This gives the date the file was downloaded.

@item warning
If this flag is set either an error has occurred or some of the information in this structure are not properly set. For example if the version number of the installed software could not be figured out, the @code{update} flag may not reflect a required update status.

@item update
If this flag is set an update of the software is available.

@item urgent
If this flag is set an available update is important.

@item noinfo
If this flag is set, no valid information could be retrieved.

@item unknown
If this flag is set the given @code{name} is not known.

@item tooold
If this flag is set the available information is not fresh enough.

@item error
If this flag is set some other error has occurred.

@item version
The version string of the latest released version.

@item reldate
The release date of the latest released version.
```
@deftypefun gpgme_error_t gpgme_op_query_swdb @
  (@w{gpgme_ctx_t @var{ctx}}, @
   @w{const char *@var{name}}, @
   @w{const char *@var{iversion}}, @
   @w{gpgme_data_t @var{reserved}})

@since{1.8.0}

Query the software version database for software package @var{name}
and check against the installed version given by @var{iversion}.  If
@var{iversion} is given as @code{NULL} a check is only done if GPGME
can figure out the version by itself (for example when using
"gpgme" or "gnupg"). If @code{NULL} is used for @var{name} the
current gpgme version is checked.  @var{reserved} must be set to 0.

@end deftypefun

@deftypefun gpgme_query_swdb_result_t gpgme_op_query_swdb_result @
  (@w{gpgme_ctx_t @var{ctx}})

@since{1.8.0}

The function @code{gpgme_op_query_swdb_result} returns a
@code{gpgme_query_swdb_result_t} pointer to a structure holding the
result of a @code{gpgme_op_query_swdb} operation.  The pointer is only
valid if the last operation on the context was a successful call to
@code{gpgme_op_query_swdb}.  If that call failed, the result might
be a @code{NULL} pointer.  The returned pointer is only valid until
the next operation is started on the context @var{ctx}.

@end deftypefun

@noindent
Here is an example on how to check whether GnuPG is current:

@example
#include <gpgme.h>

int
main (void)
{
  gpg_error_t err;
  gpgme_ctx_t ctx;
  gpgme_query_swdb_result_t result;

  gpgme_check_version (NULL);

err = gpgme_new (&ctx);
if (err)
    fprintf (stderr, "error creating context: %s\n", gpg_strerror (err));
else
    @{
        gpgme_set_protocol (ctx, GPGME_PROTOCOL_GPGCONF);
    }

err = gpgme_op_query_swdb (ctx, "gnupg", NULL, 0);
if (err)
    fprintf (stderr, "error querying swdb: %s\n", gpg_strerror (err));
else
    @{
        result = gpgme_op_query_swdb_result (ctx);
        if (!result)
            fprintf (stderr, "error querying swdb\n");
        if (!result->warning && !result->update)
            printf ("GnuPG version %s is current\n", result->iversion);
        else if (!result->warning && result->update)
            printf ("GnuPG version %s can be updated to %s\n", result->iversion, result->version);
        else
            fprintf (stderr, "error finding the update status\n");
    }

    gpgme_release (ctx);
@}
return 0;
@}
@end example

@node Run Control
@section Run Control
@cindex run control
@cindex cryptographic operation, running

@acronym{GPGME} supports running operations synchronously and asynchronously. You can use asynchronous operation to set up a context up to initiating the desired operation, but delay performing it to a later point.

Furthermore, you can use an external event loop to control exactly when @acronym{GPGME} runs. This ensures that @acronym{GPGME} only runs when necessary and also prevents it from blocking for a long time.

@menu
* Waiting For Completion::  Waiting until an operation is completed.
Using External Event Loops:: Advanced control over what happens when.
Cancellation:: How to end pending operations prematurely.
@end menu

@section Waiting For Completion
@section Waiting For Completion
@cindex cryptographic operation, wait for
@cindex wait for completion

@deftypefun gpgme_ctx_t gpgme_wait (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_error_t *@var{status}}, @w{int @var{hang}})
The function @code{gpgme_wait} continues the pending operation within the context @var{ctx}. In particular, it ensures the data exchange between @acronym{GPGME} and the crypto backend and watches over the run time status of the backend process.

If @var{hang} is true, the function does not return until the operation is completed or cancelled. Otherwise the function will not block for a long time.

The error status of the finished operation is returned in @var{status} if @code{gpgme_wait} does not return @code{NULL}.

The @var{ctx} argument can be @code{NULL}. In that case, @code{gpgme_wait} waits for any context to complete its operation.

@code{gpgme_wait} can be used only in conjunction with any context that has a pending operation initiated with one of the @code{gpgme_op_*_start} functions except @code{gpgme_op_keylist_start} and @code{gpgme_op_trustlist_start} (for which you should use the corresponding @code{gpgme_op_*_next} functions). If @var{ctx} is @code{NULL}, all of such contexts are waited upon and possibly returned. Synchronous operations running in parallel, as well as key and trust item list operations, do not affect @code{gpgme_wait}.

In a multi-threaded environment, only one thread should ever call @code{gpgme_wait} at any time, regardless of whether @var{ctx} is specified or not. This means that all calls to this function should be fully synchronized by locking primitives. It is safe to start asynchronous operations while a thread is running in @code{gpgme_wait}.

The function returns the @var{ctx} of the context which has finished the operation. If @var{hang} is false, and the timeout expires, @code{NULL} is returned and @code{*status} will be set to 0. If an error occurs, @code{NULL} is returned and the error is returned in @code{*status}.
@end deftypefun
Using External Event Loops

@acronym{GPGME} hides the complexity of the communication between the library and the crypto engine. The price of this convenience is that the calling thread can block arbitrary long waiting for the data returned by the crypto engine. In single-threaded programs, in particular if they are interactive, this is an unwanted side-effect. OTOH, if @code{gpgme_wait} is used without the @var{hang} option being enabled, it might be called unnecessarily often, wasting CPU time that could be used otherwise.

The I/O callback interface described in this section lets the user take control over what happens when. @acronym{GPGME} will provide the user with the file descriptors that should be monitored, and the callback functions that should be invoked when a file descriptor is ready for reading or writing. It is then the user's responsibility to decide when to check the file descriptors and when to invoke the callback functions. Usually this is done in an event loop, that also checks for events in other parts of the program. If the callback functions are only called when the file descriptors are ready, @acronym{GPGME} will never block. This gives the user more control over the program flow, and allows to perform other tasks when @acronym{GPGME} would block otherwise.

By using this advanced mechanism, @acronym{GPGME} can be integrated smoothly into GUI toolkits like GTK+ even for single-threaded programs.

@menu
* I/O Callback Interface:: How I/O callbacks are registered.
* Registering I/O Callbacks:: How to use I/O callbacks for a context.
* I/O Callback Example:: An example how to use I/O callbacks.
* I/O Callback Example GTK:: How to use @acronym{GPGME} with GTK+.
* I/O Callback Example GDK:: How to use @acronym{GPGME} with GDK.
* I/O Callback Example Qt:: How to use @acronym{GPGME} with Qt.
@end menu

I/O Callback Interface

@deftp {Data type} {gpgme_error_t (*gpgme_io_cb_t) (@w{void *@var{data}}, @w{int @var{fd}})}
@tindex gpgme_io_cb_t
The @code{gpgme_io_cb_t} type is the type of functions which
@acronym{GPGME} wants to register as I/O callback handlers using the @code{gpgme_register_io_cb_t} functions provided by the user.

@var{data} and @var{fd} are provided by @acronym{GPGME} when the I/O callback handler is registered, and should be passed through to the handler when it is invoked by the user because it noticed activity on the file descriptor @var{fd}.

The callback handler always returns @code{0}, but you should consider the return value to be reserved for later use.

@deftp [Data type] {gpgme_error_t (*gpgme_register_io_cb_t) (@w{void *@var{data}}, @w{int @var{fd}}, @w{int @var{dir}}, @w{gpgme_io_cb_t @var{fnc}}, @w{void *@var{fnc_data}}, @w{void **@var{tag}})}
@tindex gpgme_register_io_cb_t

The @code{gpgme_register_io_cb_t} type is the type of functions which can be called by @acronym{GPGME} to register an I/O callback function @var{fnc} for the file descriptor @var{fd} with the user. @var{fnc_data} should be passed as the first argument to @var{fnc} when the handler is invoked (the second argument should be @var{fd}). If @var{dir} is 0, @var{fnc} should be called by the user when @var{fd} is ready for writing. If @var{dir} is 1, @var{fnc} should be called when @var{fd} is ready for reading.

@var{data} was provided by the user when registering the @code{gpgme_register_io_cb_t} function with @acronym{GPGME} and will always be passed as the first argument when registering a callback function. For example, the user can use this to determine the event loop to which the file descriptor should be added.

@acronym{GPGME} will call this function when a crypto operation is initiated in a context for which the user has registered I/O callback handler functions with @code{gpgme_set_io_cbs}. It can also call this function when it is in an I/O callback handler for a file descriptor associated to this context.

The user should return a unique handle in @var{tag} identifying this I/O callback registration, which will be passed to the @code{gpgme_register_io_cb_t} function without interpretation when the file descriptor should not be monitored anymore.

@deftp [Data type] {void (*gpgme_remove_io_cb_t) (@w{void *@var{tag}})}

The @code{gpgme_remove_io_cb_t} type is the type of functions which can be called by @acronym{GPGME} to remove an I/O callback handler that was registered before. @var{tag} is the handle that was returned by the @code{gpgme_register_io_cb_t} for this I/O callback.
@acronym{GPGME} can call this function when a crypto operation is in an I/O callback. It will also call this function when the context is destroyed while an operation is pending.
@end deftp

@deftp {Data type} {enum gpgme_event_io_t}
@tindex gpgme_event_io_t
The @code{gpgme_event_io_t} type specifies the type of an event that is reported to the user by @acronym{GPGME} as a consequence of an I/O operation. The following events are defined:

@table @code
@item GPGME_EVENT_START
The operation is fully initialized now, and you can start to run the registered I/O callback handlers now. Note that registered I/O callback handlers must not be run before this event is signalled. @var{type_data} is @code{NULL} and reserved for later use.
@item GPGME_EVENT_DONE
The operation is finished, the last I/O callback for this operation was removed. The accompanying @var{type_data} points to a @code{struct gpgme_io_event_done_data} variable that contains the status of the operation that finished. This event is signalled after the last I/O callback has been removed.
@item GPGME_EVENT_NEXT_KEY
In a @code{gpgme_op_keylist_start} operation, the next key was received from the crypto engine. The accompanying @var{type_data} is a @code{gpgme_key_t} variable that contains the key with one reference for the user.
@item GPGME_EVENT_NEXT_TRUSTITEM
In a @code{gpgme_op_trustlist_start} operation, the next trust item was received from the crypto engine. The accompanying @var{type_data} is a @code{gpgme_trust_item_t} variable that contains the trust item with one reference for the user.
@end table
@end deftp

@deftp {Data type} {void (*gpgme_event_io_cb_t) (@w{void *@var{data}}, @w{gpgme_event_io_t @var{type}}, @w{void *@var{type_data}})}
The @code{gpgme_event_io_cb_t} type is the type of functions which can be called by @acronym{GPGME} to signal an event for an operation running in a context which has I/O callback functions registered by the user.

@var{data} was provided by the user when registering the @code{gpgme_event_io_cb_t} function with @acronym{GPGME} and will always be passed as the first argument when registering a callback function.
For example, the user can use this to determine the context in which this event has occurred.

@var{type} will specify the type of event that has occurred. @var{type_data} specifies the event further, as described in the above list of possible @code{gpgme_event_io_t} types.

@acronym{GPGME} can call this function in an I/O callback handler. @end deftp

@node Registering I/O Callbacks
@subsubsection Registering I/O Callbacks

@deftypefun {Data type} {struct gpgme_io_cbs}
@tindex gpgme_event_io_t
This structure is used to store the I/O callback interface functions described in the previous section. It has the following members:

@table @code
@item gpgme_register_io_cb_t add
This is the function called by @acronym{GPGME} to register an I/O callback handler. It must be specified.

@item void *add_priv
This is passed as the first argument to the @code{add} function when it is called by @acronym{GPGME}. For example, it can be used to determine the event loop to which the file descriptor should be added.

@item gpgme_remove_io_cb_t remove
This is the function called by @acronym{GPGME} to remove an I/O callback handler. It must be specified.

@item gpgme_event_io_cb_t event
This is the function called by @acronym{GPGME} to signal an event for an operation. It must be specified, because at least the start event must be processed.

@item void *event_priv
This is passed as the first argument to the @code{event} function when it is called by @acronym{GPGME}. For example, it can be used to determine the context in which the event has occurred.
@end table
@end deftp

@deftypefun void gpgme_set_io_cbs (@w{gpgme_ctx_t @var{ctx}}, @w{struct gpgme_io_cbs *@var{io_cbs}})
The function @code{gpgme_set_io_cbs} enables the I/O callback interface for the context @var{ctx}. The I/O callback functions are
specified by @var{io_cbs}.

If @var{io_cbs}->@code{add} is @code{NULL}, the I/O callback interface
is disabled for the context, and normal operation is restored.
@end deftypefun

@deftypefun void gpgme_get_io_cbs (@w{gpgme_ctx_t @var{ctx}}, @w{struct gpgme_io_cbs *@var{io_cbs}})
The function @code{gpgme_get_io_cbs} returns the I/O callback
functions set with @code{gpgme_set_io_cbs} in @var{io_cbs}.
@end deftypefun

@node I/O Callback Example
@subsubsection I/O Callback Example

To actually use an external event loop, you have to implement the I/O
callback functions that are used by @acronym{GPGME} to register and
unregister file descriptors. Furthermore, you have to actually
monitor these file descriptors for activity and call the appropriate
I/O callbacks.

The following example illustrates how to do that. The example uses
locking to show in which way the callbacks and the event loop can
run concurrently. For the event loop, we use a fixed array. For a
real-world implementation, you should use a dynamically sized
structure because the number of file descriptors needed for a crypto
operation in @acronym{GPGME} is not predictable.

@example
#include <assert.h>
#include <errno.h>
#include <stdlib.h>
#include <pthread.h>
#include <sys/types.h>
#include <gpgme.h>

/* The following structure holds the result of a crypto operation. */
struct op_result
@{
  int done;
  gpgme_error_t err;
@};

/* The following structure holds the data associated with one I/O
callback. */
struct one_fd
@{
  int fd;
}
int dir;
gpgme_io_cb_t fnc;
void *fnc_data;
void *loop;
}@);

struct event_loop
{@{
    pthread_mutex_t lock;
#define MAX_FDS 32
/* Unused slots are marked with FD being -1. */
struct one_fd fds[MAX_FDS];
}@};
@end example

The following functions implement the I/O callback interface.

@example
gpgme_error_t
add_io_cb (void *data, int fd, int dir, gpgme_io_cb_t fnc, void *fnc_data,
    void **r_tag)
{@{
    struct event_loop *loop = data;
    struct one_fd *fds = loop->fds;
    int i;

    pthread_mutex_lock (&loop->lock);
    for (i = 0; i < MAX_FDS; i++)
        @{
            if (fds[i].fd == -1)
                @{
                    fds[i].fd = fd;
                    fds[i].dir = dir;
                    fds[i].fnc = fnc;
                    fds[i].fnc_data = fnc_data;
                    fds[i].loop = loop;
                    break;
                }
        }
    pthread_mutex_unlock (&loop->lock);
    if (i == MAX_FDS)
        return gpg_error (GPG_ERR_GENERAL);
    *r_tag = &fds[i];
    return 0;
}@}

remove_io_cb (void *tag)

struct one_fd *fd = tag;
struct event_loop *loop = fd->loop;

pthread_mutex_lock (&loop->lock);
fd->fd = -1;
pthread_mutex_unlock (&loop->lock);

void
event_io_cb (void *data, gpgme_event_io_t type, void *type_data)
@{
struct op_result *result = data;

/* We don't support list operations here. */
if (type == GPGME_EVENT_DONE)
@{
    result->done = 1;
    result->err = *type_data;
@}
@}
@end example

The final missing piece is the event loop, which will be presented next. We only support waiting for the success of a single operation.

@example
int
do_select (struct event_loop *loop)
@{
    fd_set rfds;
    fd_set wfds;
    int i, n;
    int any = 0;
    struct timeval tv;
    struct one_fd *fdlist = loop->fds;

    pthread_mutex_lock (&loop->lock);
    FD_ZERO (&rfds);
    FD_ZERO (&wfds);
    for (i = 0; i < MAX_FDS; i++)
        if (fdlist[i].fd != -1)
            FD_SET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds);
    pthread_mutex_unlock (&loop->lock);

    tv.tv_sec = 0;
    tv.tv_usec = 1000;

do
  @ {
    n = select (FD_SETSIZE, &rfds, &wfds, NULL, &tv);
  } while (n < 0 && errno == EINTR);

if (n < 0)
  return n;/* Error or timeout. */

pthread_mutex_lock (&loop->lock);
for (i = 0; i < MAX_FDS && n; i++)
  @ {
    if (fdlist[i].fd != -1)
      @ {
        if (FD_ISSET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds))
          @ {
            assert (n);
            n--;
            any = 1;
            /* The I/O callback handler can register/remove callbacks,
             * so we have to unlock the file descriptor list. */
            pthread_mutex_unlock (&loop->lock);
            (*fdlist[i].fnc) (fdlist[i].fnc_data, fdlist[i].fd);
            pthread_mutex_lock (&loop->lock);
          }
        @ }
      } @ }
  @ }
  pthread_mutex_unlock (&loop->lock);
return any;
@ }

void
wait_for_op (struct event_loop *loop, struct op_result *result)
@ {
  int ret;

  do
    @ {
      ret = do_select (loop);
    } while (ret >= 0 && !result->done);
  @ }
@end example

The main function shows how to put it all together.

@example
int
main (int argc, char *argv[]) {
    struct event_loop loop;
    struct op_result result;
    gpgme_ctx_t ctx;
    gpgme_error_t err;
    gpgme_data_t sig, text;
    int i;
    pthread_mutexattr_t attr;
    struct gpgme_io_cbs io_cbs =
    @{
        add_io_cb, &loop,
        remove_io_cb, event_io_cb,
        &result
    };

    init_gpgme ();

    /* Initialize the loop structure. */

    /* The mutex must be recursive, since remove_io_cb (which acquires a
     lock) can be called while holding a lock acquired in do_select. */
    pthread_mutexattr_init (&attr);
    pthread_mutexattr_settype (&attr, PTHREAD_MUTEX_RECURSIVE);
    pthread_mutex_init (&loop.lock, &attr);
    pthread_mutexattr_destroy (&attr);

    for (i = 0; i < MAX_FDS; i++)
        loop.fds[i].fd = -1;

    /* Initialize the result structure. */
    result.done = 0;

    err = gpgme_data_new_from_file (&sig, "signature", 1);
    if (!err)
        err = gpgme_data_new_from_file (&text, "text", 1);
    if (!err)
        err = gpgme_new (&ctx);
    if (!err)
        @{
            gpgme_set_io_cbs (ctx, &io_cbs);
            err = gpgme_op_verify_start (ctx, sig, text, NULL);
        }
    if (err)
        @{
            fprintf (stderr, "gpgme error: %s: %s\n",


The I/O callback interface can be used to integrate @acronym{GPGME} with the GTK+ event loop. The following code snippets shows how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any GTK+ specific setup.

@example
#include <gtk/gtk.h>

struct my_gpgme_io_cb
{
    gpgme_io_cb_t fnc;
    void *fnc_data;
    guint input_handler_id;
};

void
my_gpgme_io_cb (gpointer data, gint source, GdkInputCondition condition)
{
    struct my_gpgme_io_cb *iocb = data;
}
void my_gpgme_remove_io_cb (void *data)
{@
    struct my_gpgme_io_cb *iocb = data;
    gtk_input_remove (data->input_handler_id);
}@}

void my_gpgme_register_io_callback (void *data, int fd, int dir, gpgme_io_cb_t fnc,
                                    void *fnc_data, void **tag)
{@
    struct my_gpgme_io_cb *iocb = g_malloc (sizeof (struct my_gpgme_io_cb));
    iocb->fnc = fnc;
    iocb->data = fnc_data;
    iocb->input_handler_id = gtk_input_add_full (fd, dir
        ? GDK_INPUT_READ
        : GDK_INPUT_WRITE,
        my_gpgme_io_callback,
        0, iocb, NULL);
    *tag = iocb;
    return 0;
}@}
The I/O callback interface can also be used to integrate \acronym{GPGME} with the Qt event loop. The following code snippets show how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any Qt specific setup.

```c
#include <qsocketnotifier.h>
#include <qapplication.h>

struct IOCB @{
  gint tag;
};

void
my_gpgme_io_cb (gpointer data, gint source, GdkInputCondition condition)
@{
  struct my_gpgme_io_cb *iocb = data;
  (*iocb->fnc) (iocb->data, source);
@}

void
my_gpgme_remove_io_cb (void *data)
@{
  struct my_gpgme_io_cb *iocb = data;
  gdk_input_remove (data->tag);
@}

void
my_gpgme_register_io_callback (void *data, int fd, int dir, gpgme_io_cb_t fnc,
void *fnc_data, void **tag)
@{
  struct my_gpgme_io_cb *iocb = g_malloc (sizeof (struct my_gpgme_io_cb));
  iocb->fnc = fnc;
  iocb->data = fnc_data;
  iocb->tag = gtk_input_add_full (fd, dir ? GDK_INPUT_READ : GDK_INPUT_WRITE,
                          my_gpgme_io_callback, iocb, NULL);
  *tag = iocb;
  return 0;
@}
@end example

@node I/O Callback Example Qt
@subsubsection I/O Callback Example Qt
@cindex Qt, using \acronym{GPGME} with

The I/O callback interface can also be used to integrate \acronym{GPGME} with the Qt event loop. The following code snippets show how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any Qt specific setup.

```
#include <qsocketnotifier.h>
#include <qapplication.h>

struct IOCB @{
IOCB( GpgmeIOCb f, void * d, QSocketNotifier * n )
: func( f ), data( d ), notifier( n ) @ { @ }
GpgmeIOCb func;
void * data;
QSocketNotifier * notifier;
@ }

class MyApp : public QApplication @ {

  // ...

  static void registerGpgmeIOCCallback( void * data, int fd, int dir,
    GpgmeIOCb func, void * func_data,
    void ** tag ) @ {
    QSocketNotifier * n =
    new QSocketNotifier( fd, dir ? QSocketNotifier::Read :
      QSocketNotifier::Write );
    connect( n, SIGNAL(activated(int)),
      qApp, SLOT(slotGpgmeIOCCallback(int)) );
    qApp->mIOCBs.push_back( IOCB( func, func_data, n ) );
    *tag = (void*)n;
    @ }

  static void removeGpgmeIOCCallback( void * tag ) @ {
    if ( !tag ) return;
    QSocketNotifier * n = static_cast<QSocketNotifier*>( tag );
    for ( QValueList<IOCB>::iterator it = qApp->mIOCBs.begin() ;
      it != qApp->mIOCBs.end() ; ++it )
      if ( it->notifier == n ) @ {
        delete it->notifier;
        qApp->mIOCBs.erase( it );
        return;
      }
    @ }
  }

public slots:
void slotGpgmeIOCCallback( int fd ) @ {
  for ( QValueList<IOCB>::const_iterator it = mIOCBs.begin() ;
    it != mIOCBs.end() ; ++it )
    if ( it->notifier && it->notifier->socket() == fd )
      (*(it->func)) ( it->func_data, fd );
  @ }

  // ...

private:
QValueList<IOCB> mIOCBs;
  // ...

Sometimes you do not want to wait for an operation to finish. The `GPGME` provides two different functions to achieve that. The function `gpgme_cancel` takes effect immediately. When it returns, the operation is effectively canceled. However, it has some limitations and cannot be used with synchronous operations. In contrast, the function `gpgme_cancel_async` can be used with any context and from any thread, but it is not guaranteed to take effect immediately. Instead, cancellation occurs at the next possible time (typically the next time I/O occurs in the target context).

```c
@deftypefun gpgme_ctx_t gpgme_cancel (@w{gpgme_ctx_t @var{ctx}})
@since{0.4.5}
```

The function `gpgme_cancel` attempts to cancel a pending operation in the context `@var{ctx}`. This only works if you use the global event loop or your own event loop.

If you use the global event loop, you must not call `gpgme_wait` during cancellation. After successful cancellation, you can call `gpgme_wait` (optionally waiting on `@var{ctx}`), and the context `@var{ctx}` will appear as if it had finished with the error code `GPG_ERR_CANCEL`.

If you use an external event loop, you must ensure that no I/O callbacks are invoked for this context (for example by halting the event loop). On successful cancellation, all registered I/O callbacks for this context will be unregistered, and a `GPGME_EVENT_DONE` event with the error code `GPG_ERR_CANCEL` will be signalled.

The function returns an error code if the cancellation failed (in this case the state of `@var{ctx}` is not modified).

```c
@deftypefun gpgme_ctx_t gpgme_cancel_async (@w{gpgme_ctx_t @var{ctx}})
@since{1.1.7}
```
The function `gpgme_cancel_async` attempts to cancel a pending operation in the context `ctx`. This can be called by any thread at any time after starting an operation on the context, but will not take effect immediately. The actual cancellation happens at the next time GPGME processes I/O in that context.

The function returns an error code if the cancellation failed (in this case the state of `ctx` is not modified).

@end deftypefun

@c **********************************************************
@c *******************  Appendices  *************************
@c **********************************************************

@include uiserver.texi

@node Debugging
@appendix How to solve problems
@cindex debug
@cindex GPGME_DEBUG

Everyone knows that software often does not do what it should do and thus there is a need to track down problems. This is in particular true for applications using a complex library like `GPGME` and of course also for the library itself. Here we give a few hints on how to solve such problems.

First of all you should make sure that the keys you want to use are installed in the GnuPG engine and are usable. Thus the first test is to run the desired operation using `gpg` or `gpgsm` on the command line. If you can't figure out why things don't work, you may use `GPGME`'s built in trace feature. This feature is either enabled using the environment variable `GPGME_DEBUG` or, if this is not possible, by calling the function `gpgme_set_global_flag`. The value is the trace level and an optional file name. If no file name is given the trace output is printed to `stderr`.

For example

@smallexample
GPGME_DEBUG=9:/home/user/mygpgme.log
@end smallexample

(Note that under Windows you use a semicolon in place of the colon to separate the fields.)

A trace level of 9 is pretty verbose and thus you may want to start
off with a lower level. The exact definition of the trace levels and
the output format may change with any release; you need to check the
source code for details. In any case the trace log should be helpful
to understand what is going going on. Warning: The trace log may
reveal sensitive details like passphrases or other data you use in
your application. If you are asked to send a log file, make sure that
you run your tests only with play data.

@node Deprecated Functions
@appendix Deprecated Functions
@cindex deprecated

For backward compatibility @acronym{GPGME} has a number of functions,
data types and constants which are deprecated and should not be used
anymore. We document here those which are really old to help
understanding old code and to allow migration to their modern
counterparts.

@strong{Warning:} These interfaces will be removed in a future version
of @acronym{GPGME}.

@deftypefun void gpgme_key_release (@w{gpgme_key_t @var{key}})
The function @code{gpgme_key_release} is equivalent to
@code{gpgme_key_unref}.
@end deftypefun

@deftypefun void gpgme_trust_item_release (@w{gpgme_trust_item_t @var{item}})
The function @code{gpgme_trust_item_release} is an alias for
@code{gpgme_trust_item_unref}.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_import_ext (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t
@var{keydata}}, @w{int *@var{nr}})
@since{0.3.9}
The function @code{gpgme_op_import_ext} is equivalent to:
@example
gpgme_error_t err = gpgme_op_import (ctx, keydata);
if (!err)
   @{
      gpgme_import_result_t result = gpgme_op_import_result (ctx);
      *nr = result->considered;
   @}
@end example
@end deftypefun
@deftp {Data type} {gpgme_error_t (*gpgme_edit_cb_t)}@ 
   (@w{void *@var{handle}}, @
   @w{gpgme_status_code_t @var{status}}, @
   @w{const char *@var{args}}, @
   @w{int @var{fd}})}
@tindex gpgme_edit_cb_t
The @code{gpgme_edit_cb_t} type is the type of functions which @acronym{GPGME} calls if it a key edit operation is on-going. The status code @var{status} and the argument line @var{args} are passed through by @acronym{GPGME} from the crypto engine. The file descriptor @var{fd} is -1 for normal status messages. If @var{status} indicates a command rather than a status message, the response to the command should be written to @var{fd}. The @var{handle} is provided by the user at start of operation.

The function should return @code{GPG_ERR_FALSE} if it did not handle the status code, @code{0} for success, or any other error value.
@end deftp

@deftypefun gpgme_error_t gpgme_op_edit (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{key}}, @w{gpgme_edit_cb_t @var{fnc}}, @w{void *@var{handle}}, @w{gpgme_data_t @var{out}})
@since{0.3.9}
Note: This function is deprecated, please use @code{gpgme_op_interact} instead.

The function @code{gpgme_op_edit} processes the key @var{KEY} interactively, using the edit callback function @var{FNC} with the handle @var{HANDLE}. The callback is invoked for every status and command request from the crypto engine. The output of the crypto engine is written to the data object @var{out}.

Note that the protocol between the callback function and the crypto engine is specific to the crypto engine and no further support in implementing this protocol correctly is provided by @acronym{GPGME}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the edit operation completes successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer, and any error returned by the crypto engine or the edit callback handler.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_edit_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{key}}, @w{gpgme_edit_cb_t @var{fnc}}, @w{void *@var{handle}}, @w{gpgme_data_t @var{out}})
@since{0.3.9}
Note: This function is deprecated, please use @code{gpgme_op_interact_start} instead.

The function @code{gpgme_op_edit_start} initiates a @code{gpgme_op_edit} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation was started successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_card_edit (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{key}}, @w{gpgme_edit_cb_t @var{fnc}}, @w{void *@var{handle}}, @w{gpgme_data_t @var{out}})
Note: This function is deprecated, please use @code{gpgme_op_interact} with the flag @code{GPGME_INTERACT_CARD} instead.

The function @code{gpgme_op_card_edit} is analogous to @code{gpgme_op_edit}, but should be used to process the smart card corresponding to the key @var{key}.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_card_edit_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{key}}, @w{gpgme_edit_cb_t @var{fnc}}, @w{void *@var{handle}}, @w{gpgme_data_t @var{out}})
Note: This function is deprecated, please use @code{gpgme_op_interact_start} with the flag @code{GPGME_INTERACT_CARD} instead.

The function @code{gpgme_op_card_edit_start} initiates a @code{gpgme_op_card_edit} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation was started successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_with_read_cb (@w{gpgme_data_t *@var{dh}}, @w{int (*@var{readfunc}) (@w{void *@var{hook}}, @w{char *@var{buffer}}, @w{size_t @var{count}})}, @w{size_t *@var{nread}}))
The function @code{gpgme_data_new_with_read_cb} creates a new @code{gpgme_data_t} object and uses the callback function @var{readfunc} to retrieve the data on demand. As the callback function can supply the data in any way it wants, this is the most flexible data type @acronym{GPGME} provides. However, it can not be used to write data.
The callback function receives `@var{hook_value}` as its first argument whenever it is invoked. It should return up to `@var{count}` bytes in `@var{buffer}`, and return the number of bytes actually read in `@var{nread}`. It may return `@code{0}` in `@var{nread}` if no data is currently available. To indicate `@code{EOF}` the function should return with an error code of `@code{-1}` and set `@var{nread}` to `@code{0}`. The callback function may support to reset its internal read pointer if it is invoked with `@var{buffer}` and `@var{nread}` being `@code{NULL}` and `@var{count}` being `@code{0}`.

The function returns the error code `@code{GPG_ERR_NO_ERROR}` if the data object was successfully created, `@code{GPG_ERR_INV_VALUE}` if `@var{dh}` or `@var{readfunc}` is not a valid pointer, and `@code{GPG_ERR_ENOMEM}` if not enough memory is available.

@deftypefun{gpgme_error_t} {gpgme_data_rewind} (@w{gpgme_data_t @var{dh}})

The function `@code{gpgme_data_rewind}` is equivalent to:

@example
return (gpgme_data_seek (dh, 0, SEEK_SET) == -1) ? gpgme_error_from_errno (errno) : 0;
@end example

@end deftypefun

@deftp {Data type} {gpgme_attr_t}

The `@code{gpgme_attr_t}` type is used to specify a key or trust item attribute. The following attributes are defined:

@table @code
@item GPGME_ATTR_KEYID
This is the key ID of a sub key. It is representable as a string.

For trust items, the trust item refers to the key with this ID.

@item GPGME_ATTR_FPR
This is the fingerprint of a sub key. It is representable as a string.

@item GPGME_ATTR_ALGO
This is the crypto algorithm for which the sub key can be used. It is representable as a string and as a number. The numbers correspond to the `@code{enum gcry_pk_algos}` values in the gcrypt library.

@item GPGME_ATTR_LEN
This is the key length of a sub key. It is representable as a number.
@item GPGME_ATTR_CREATED
This is the timestamp at creation time of a sub key. It is representable as a number.

@item GPGME_ATTR_EXPIRE
This is the expiration time of a sub key. It is representable as a number.

@item GPGME_ATTR_OTRUST
XXX FIXME (also for trust items)

@item GPGME_ATTR_USERID
This is a user ID. There can be more than one user IDs in a @var{gpgme_key_t} object. The first one (with index 0) is the primary user ID. The user ID is representable as a number.

For trust items, this is the user ID associated with this trust item.

@item GPGME_ATTR_NAME
This is the name belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_EMAIL
This is the email address belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_COMMENT
This is the comment belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_VALIDITY
This is the validity belonging to a user ID. It is representable as a string and as a number. See below for a list of available validities.

For trust items, this is the validity that is associated with this trust item.

@item GPGME_ATTR_UID_REVOKED
This specifies if a user ID is revoked. It is representable as a number, and is @code{1} if the user ID is revoked, and @code{0} otherwise.

@item GPGME_ATTR_UID_INVALID
This specifies if a user ID is invalid. It is representable as a number, and is @code{1} if the user ID is invalid, and @code{0} otherwise.

@item GPGME_ATTR_LEVEL
This is the trust level of a trust item.

@item GPGME_ATTR_TYPE
This returns information about the type of key. For the string function this will either be "PGP" or "X.509". The integer function returns 0 for PGP and 1 for X.509. It is also used for the type of a trust item.

@item GPGME_ATTR_IS_SECRET
This specifies if the key is a secret key. It is representable as a number, and is @code{1} if the key is revoked, and @code{0} otherwise.

@item GPGME_ATTR_KEY_REVOKED
This specifies if a sub key is revoked. It is representable as a number, and is @code{1} if the key is revoked, and @code{0} otherwise.

@item GPGME_ATTR_KEY_INVALID
This specifies if a sub key is invalid. It is representable as a number, and is @code{1} if the key is invalid, and @code{0} otherwise.

@item GPGME_ATTR_KEY_EXPIRED
This specifies if a sub key is expired. It is representable as a number, and is @code{1} if the key is expired, and @code{0} otherwise.

@item GPGME_ATTR_KEY_DISABLED
This specifies if a sub key is disabled. It is representable as a number, and is @code{1} if the key is disabled, and @code{0} otherwise.

@item GPGME_ATTR_KEY_CAPS
This is a description of the capabilities of a sub key. It is representable as a string. The string contains the letter ``e'' if the key can be used for encryption, ``s'' if the key can be used for signatures, and ``c'' if the key can be used for certifications.

@item GPGME_ATTR_CAN_ENCRYPT
This specifies if a sub key can be used for encryption. It is representable as a number, and is @code{1} if the sub key can be used for encryption, and @code{0} otherwise.

@item GPGME_ATTR_CAN_SIGN
This specifies if a sub key can be used to create data signatures. It is representable as a number, and is @code{1} if the sub key can be used for signatures, and @code{0} otherwise.

@item GPGME_ATTR_CAN_CERTIFY
This specifies if a sub key can be used to create key certificates. It is representable as a number, and is @code{1} if the sub key can be used for certifications, and @code{0} otherwise.
The X.509 issuer serial attribute of the key. It is representable as a string.

The X.509 issuer name attribute of the key. It is representable as a string.

The X.509 chain ID can be used to build the certification chain. It is representable as a string.

The function `gpgme_key_get_string_attr` returns the value of the string-representable attribute `what` of key `key`. If the attribute is an attribute of a sub key or an user ID, `idx` specifies the sub key or user ID of which the attribute value is returned. The argument `reserved` is reserved for later use and should be `NULL`.

The string returned is only valid as long as the key is valid.

The function returns `0` if an attribute can't be returned as a string, `key` is not a valid pointer, `idx` out of range, or `reserved` not `NULL`.

The function `gpgme_key_get_ulong_attr` returns the value of the number-representable attribute `what` of key `key`. If the attribute is an attribute of a sub key or an user ID, `idx` specifies the sub key or user ID of which the attribute value is returned. The argument `reserved` is reserved for later use and should be `NULL`.

The function returns `0` if the attribute can't be returned as a number, `key` is not a valid pointer, `idx` out of range, or `reserved` not `NULL`.

---

@item GPGME_ATTR_SERIAL
@item GPGME_ATTR_ISSUE
@item GPGME_ATTR_CHAINID

---

@c
@c Key Signatures
@c
The signatures on a key are only available if the key was retrieved via a listing operation with the `GPGME_KEYLIST_MODE_SIGS` mode enabled, because it is expensive to retrieve all signatures of a key.

So, before using the below interfaces to retrieve the signatures on a key, you have to make sure that the key was listed with signatures enabled. One convenient, but blocking, way to do this is to use the function `gpgme_get_key`.

```c
#define GPGME_ATTR_KEYID
#define GPGME_ATTR_ALGO
#define GPGME_ATTR_CREATED
#define GPGME_ATTR_EXPIRE
#define GPGME_ATTR_USERID
#define GPGME_ATTR_NAME
#define GPGME_ATTR_EMAIL
#define GPGME_ATTR_COMMENT
#define GPGME_ATTR_KEY_REVOKED
```

The `gpgme_attr_t` type is used to specify a key signature attribute. The following attributes are defined:

- **GPGME_ATTR_KEYID**: This is the key ID of the key which was used for the signature. It is representable as a string.

- **GPGME_ATTR_ALGO**: This is the crypto algorithm used to create the signature. It is representable as a string and as a number. The numbers correspond to the `enum gcry_pk_algos` values in the gcrypt library.

- **GPGME_ATTR_CREATED**: This is the timestamp at creation time of the signature. It is representable as a number.

- **GPGME_ATTR_EXPIRE**: This is the expiration time of the signature. It is representable as a number.

- **GPGME_ATTR_USERID**: This is the user ID associated with the signing key. The user ID is representable as a number.

- **GPGME_ATTR_NAME**: This is the name belonging to a user ID. It is representable as a string.

- **GPGME_ATTR_EMAIL**: This is the email address belonging to a user ID. It is representable as a string.

- **GPGME_ATTR_COMMENT**: This is the comment belonging to a user ID. It is representable as a string.

- **GPGME_ATTR_KEY_REVOKED**: This specifies if a key signature is a revocation signature. It is
representable as a number, and is `1` if the key is revoked, and `0` otherwise.

```c
@item GPGME_ATTR_KEY_EXPIRED
@item This specifies if a key signature is expired. It is representable as a number, and is `1` if the key is revoked, and `0` otherwise.
```

```c
@item GPGME_ATTR_SIG_CLASS
This specifies the signature class of a key signature. It is representable as a number. The meaning is specific to the crypto engine.
```

```c
@item GPGME_ATTR_SIG_CLASS
This specifies the signature class of a key signature. It is representable as a number. The meaning is specific to the crypto engine.
```

```c
@end table
@end deftp
```

```c
@end deftypefun
```

```c
@deftypefun {const char *} gpgme_key_sig_get_string_attr (@w{gpgme_key_t @var{key}}, @w{int @var{uid_idx}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})
```

The function `gpgme_key_sig_get_string_attr` returns the value of the string-representable attribute `@var{what}` of the signature `@var{idx}` on the user ID `@var{uid_idx}` in the key `@var{key}`. The argument `@var{reserved}` is reserved for later use and should be `NULL`.

The string returned is only valid as long as the key is valid.

The function returns `@code{0}` if an attribute can't be returned as a string, `@var{key}` is not a valid pointer, `@var{uid_idx}` or `@var{idx}` out of range, or `@var{reserved}` not `@code{NULL}`.

```c
@end deftypefun
```

```c
@deftypefun {unsigned long} gpgme_key_sig_get_ulong_attr (@w{gpgme_key_t @var{key}}, @w{int @var{uid_idx}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})
```

The function `gpgme_key_sig_get_ulong_attr` returns the value of the number-representable attribute `@var{what}` of the signature `@var{idx}` on the user ID `@var{uid_idx}` in the key `@var{key}`. The argument `@var{reserved}` is reserved for later use and should be `@code{NULL}`.

The function returns `@code{0}` if an attribute can't be returned as a string, `@var{key}` is not a valid pointer, `@var{uid_idx}` or `@var{idx}`
Trust items have attributes which can be queried using the interfaces below. The attribute identifiers are shared with those for key attributes. @xref{Information About Keys}.

@deftypefun {const char *} gpgme_trust_item_get_string_attr (@w{gpgme_trust_item_t @var{item}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})

The function @code{gpgme_trust_item_get_string_attr} returns the value of the string-representable attribute @var{what} of trust item @var{item}. The arguments @var{idx} and @var{reserved} are reserved for later use and should be @code{0} and @code{NULL} respectively.

The string returned is only valid as long as the key is valid.

The function returns @code{0} if an attribute can't be returned as a string, @var{key} is not a valid pointer, @var{idx} out of range, or @var{reserved} not @code{NULL}.

@end deftypefun

@deftypefun int gpgme_trust_item_get_int_attr (@w{gpgme_trust_item_t @var{item}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})

The function @code{gpgme_trust_item_get_int_attr} returns the value of the number-representable attribute @var{what} of trust item @var{item}. If the attribute occurs more than once in the trust item, the index is specified by @var{idx}. However, currently no such attribute exists, so @var{idx} should be @code{0}. The argument @var{reserved} is reserved for later use and should be @code{NULL}.

The function returns @code{0} if the attribute can't be returned as a number, @var{key} is not a valid pointer, @var{idx} out of range, or @var{reserved} not @code{NULL}.

@end deftypefun

@deftp {Data type} {enum gpgme_sig_stat_t}
	@tindex gpgme_sig_stat_t

The @code{gpgme_sig_stat_t} type holds the result of a signature check, or the combined result of all signatures. The following results are possible:
@table @code
@item GPGME_SIG_STAT_NONE
This status should not occur in normal operation.

@item GPGME_SIG_STAT_GOOD
This status indicates that the signature is valid. For the combined result this status means that all signatures are valid.

@item GPGME_SIG_STAT_GOOD_EXP
This status indicates that the signature is valid but expired. For the combined result this status means that all signatures are valid and expired.

@item GPGME_SIG_STAT_GOOD_EXPKEY
This status indicates that the signature is valid but the key used to verify the signature has expired. For the combined result this status means that all signatures are valid and all keys are expired.

@item GPGME_SIG_STAT_BAD
This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.

@item GPGME_SIG_STAT_NOKEY
This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.

@item GPGME_SIG_STAT_NOSIG
This status indicates that the signature data provided was not a real signature.

@item GPGME_SIG_STAT_ERROR
This status indicates that there was some other error which prevented the signature verification.

@item GPGME_SIG_STAT_DIFF
For the combined result this status means that at least two signatures have a different status. You can get each key's status with
@code{gpgme_get_sig_status}.
@end table
@end deftp

@deftypefun {const char *} gpgme_get_sig_status (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{idx}},
@w{gpgme_sig_stat_t *@var{r_stat}}, @w{time_t *@var{r_created}})
The function @code{gpgme_get_sig_status} is equivalent to:

@example

@end example
gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
@{
    sig = sig->next;
    idx--;
@}
if (!sig || idx)
    return NULL;

if (r_stat)
@{
    switch (gpg_err_code (sig->status))
@{
    case GPG_ERR_NO_ERROR:
        *r_stat = GPGME_SIG_STAT_GOOD;
        break;

    case GPG_ERR_BAD_SIGNATURE:
        *r_stat = GPGME_SIG_STAT_BAD;
        break;

    case GPG_ERR_NO_PUBKEY:
        *r_stat = GPGME_SIG_STAT_NOKEY;
        break;

    case GPG_ERR_NO_DATA:
        *r_stat = GPGME_SIG_STAT_NOSIG;
        break;

    case GPG_ERR_SIG_EXPIRED:
        *r_stat = GPGME_SIG_STAT_GOOD_EXP;
        break;

    case GPG_ERR_KEY_EXPIRED:
        *r_stat = GPGME_SIG_STAT_GOOD_EXPKEY;
        break;

    default:
        *r_stat = GPGME_SIG_STAT_ERROR;
        break;
@}
}
if (r_created)
*r_created = sig->timestamp;
return sig->fpr;
@end example
@end deftypefun

@deftypefun {const char *} gpgme_get_sig_string_attr (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{idx}}, @w{gpgme_attr_t @var{what}}, @w{int @var{whatidx}})
The function @code{gpgme_get_sig_string_attr} is equivalent to:

@example
gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
@{
    sig = sig->next;
    idx--;
@}
if (!sig || idx)
    return NULL;

switch (what)
@{
    case GPGME_ATTR_FPR:
        return sig->fpr;

    case GPGME_ATTR_ERRTOK:
        if (whatidx == 1)
            return sig->wrong_key_usage ? "Wrong_Key_Usage" : "";
        else
            return "";
        default:
            break;
@}

return NULL;
@end example
@end deftypefun

@deftypefun {const char *} gpgme_get_sig_ulong_attr (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{idx}}, @w{gpgme_attr_t @var{what}}, @w{int @var{whatidx}})
The function @code{gpgme_get_sig_ulong_attr} is equivalent to:

@example
gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
@{
    sig = sig->next;
    idx--;
}@
if (!sig || idx)
    return 0;

switch (what)
@{
    case GPGME_ATTR_CREATED:
        return sig->timestamp;

    case GPGME_ATTR_EXPIRE:
        return sig->exp_timestamp;

    case GPGME_ATTR_VALIDITY:
        return (unsigned long) sig->validity;

    case GPGME_ATTR_SIG_STATUS:
        switch (sig->status)
@{
    case GPG_ERR_NO_ERROR:
        return GPGME_SIG_STAT_GOOD;

    case GPG_ERR_BAD_SIGNATURE:
        return GPGME_SIG_STAT_BAD;

    case GPG_ERR_NO_PUBKEY:
        return GPGME_SIG_STAT_NOKEY;

    case GPG_ERR_NO_DATA:
        return GPGME_SIG_STAT_NOSIG;

    case GPG_ERR_SIG_EXPIRED:
        return GPGME_SIG_STAT_GOOD_EXP;

    case GPG_ERR_KEY_EXPIRED:
        return GPGME_SIG_STAT_GOOD_EXPKEY;

    default:
        return GPGME_SIG_STAT_ERROR;
@}
case GPGME_ATTR_SIG_SUMMARY:
    return sig->summary;

default:
    break;
@end example
@end deftypefun

@example
result = gpgme_op_verify_result (ctx);
sig = result->signatures;
while (sig && idx)
    @{ 
    sig = sig->next;
    idx--;
    @} 
if (!sig || idx)
    return gpg_error (GPG_ERR_EOF);
return gpgme_get_key (ctx, sig->fpr, r_key, 0);
@end example
@end deftypefun

@include lesser.texi
@include gpl.texi

@node Concept Index
@unnumbered Concept Index

@printindex cp

@node Function and Data Index
@unnumbered Function and Data Index

@printindex fn

@bye

(21:protected-private-key(3:elg(1:p129:B36I(s7)+ZJ/pvE;"tg?Nca"Gxvnyu&bB#h7=89&oG
R+hO)(1:g1:(1:y128:Jl[WU_UP]AQYMHmA[2e[_.tcMNdg]]{QnWsK4pY{SbDCs})(9:protected25:openpgp-s2k3-
sha1-aes-cbc((4:sha18:JcE7:6452224)16:i{Q*vK}192:FJA!O!ZAF
bi&J&Tsb!
&9@Rv-V+x>?sedDz-W(yqfUt_e?e1saV8&lt;T0:tc5%ZMh?S|y_e[1D](1:protected-at15:20130812T105135))
(privacy-key
(oid.1.2.840.113549.1.1.1
(n #00e0ce96f90b6e9e02f3922beada93fe50a875ae6bccc18bb9a9cf2e84965caa2d1ff95a7f542465c6ec0c19d276e4526ce
048868a7a914f3d34cc3a87dd742911fc565506d5btt25ecbac6a0e2d2d1f8bcaab0d4a29c2f37c950f363484bf26f78914
40464bf79827e03a36e70b814938eebdc63e964247be75dc58b014b7ea251#)
(e #010001#)
(d #046129F2489D71579BE0A75FE029BD6CDB574E8FB57EA8A5B0FDA942CAB943B117D7BB95E5D28875E0F
9FC5FCC06A72F6D502464DABDDE78EF68716177B83D5BDC543D5C3FED932E59F5897E92E6F58A0F334
24106A3B6FA2CBF877510E4AC21C3EE47851E97D12996222AC3566D4CCB0B83D164074ABF7DE655FC244
6DA1781#)
(p #00e861b700e17e8a6fe6837e7512e35b6ca11d0ae47d8b85161c67babf643772713fe52d772f2035b3ca830af41d8a4120e
1c1c70d12cc22f00d28d31d48a8a424f1#)
(q #00f7a7ca5367c661f8e62d34f0d05c10e88e5492348dd7bddec942c9a8f369f935a07785d2db805215ed786e4285df16
58edd3ce84f469b81b50d358407b4ad361#)
(u #304559a9ed56d2309d203811a641b1a0962668e8b366f5e12c9968ec5bd891eebbaac73ae666e01ba7e8990bae06cc2
bbe10b75e69fcaacb353a6473079d8e9b#)
)
)
# libgpgme.vers - List of symbols to export.
#
# This file is part of GPGME.
#
# GPGME is free software; you can redistribute it and/or modify
# it under the terms of the GNU Lesser general Public License as
# published by the Free Software Foundation; either version 2.1 of
# the License, or (at your option) any later version.
#
# GPGME is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU Lesser General Public License for more details.
# You should have received a copy of the GNU Lesser General Public License along with this program; if not, see <https://www.gnu.org/licenses/>.

# Please remember to add new functions also to gpgme.def

GPGME_1.1 {
  global:
    gpgme_set_engine_info;
    gpgme_ctx_get_engine_info;
    gpgme_ctx_set_engine_info;
    gpgme_data_set_file_name;
    gpgme_data_get_file_name;
    gpgme_data_identify;
    gpgme_sig_notation_clear;
    gpgme_sig_notation_add;
    gpgme_sig_notation_get;
    gpgme_free;
    gpgme_op_getauditlog_start;
    gpgme_op_getauditlog;
    gpgme_conf_release;
    gpgme_conf_arg_new;
    gpgme_conf_arg_release;
    gpgme_conf_opt_change;
    gpgme_op_conf_load;
    gpgme_op_conf_save;
    gpgme_op_conf_dir;
    gpgme_cancel_async;
    gpgme_op_assuan_result;
    gpgme_op_assuan_transact;
    gpgme_op_assuan_transact_start;
    gpgme_check_version_internal;
    gpgme_io_read;
    gpgme_io_write;
    gpgme_result_ref;
gpgme_op_createsubkey;
gpgme_op_adduid_start;
gpgme_op_adduid;
gpgme_op_reuid_start;
gpgme_op_reuid;
gpgme_op_keysign_start;
gpgme_op_keysign;
gpgme_op_tofu_policy_start;
gpgme_op_tofu_policy;
gpgme_op_interact_start;
gpgme_op_interact;

gpgme_addrspec_from_uid;

gpgme_set_sender;
gpgme_get_sender;

gpgme_op_query_swdb;
gpgme_op_query_swdb_result;

gpgme_op_set_uid_flag_start;
gpgme_op_set_uid_flag;

gpgme_op_decrypt_ext;
gpgme_op_decrypt_ext_start;

gpgme_data_new_from_estream;

};

GPGME_1.0 {
    global:
        gpgme_check_version;
        gpgme_get_engine_info;
        gpgme_engine_check_version;

        gpgme_err_code_from_errno;
        gpgme_err_code_to_errno;
        gpgme_err_make_from_errno;
        gpgme_error_from_errno;
        gpgme_strerror;
        gpgme_strerror_r;
        gpgme_strsource;

        gpgme_data_get_encoding;
        gpgme_data_new;
        gpgme_data_new_from_cbs;
gpgme_data_new_from_fd;
gpgme_data_new_from_file;
gpgme_data_new_from_filepart;
gpgme_data_new_from_mem;
gpgme_data_new_from_stream;
gpgme_data_read;
gpgme_data_release;
gpgme_data_release_and_get_mem;
gpgme_data_seek;
gpgme_data_set_encoding;
gpgme_data_write;

gpgme_get_protocol_name;
gpgme_hash_algo_name;
gpgme_pubkey_algo_name;

gpgme_new;
gpgme_get_armor;
gpgme_get_include_certs;
gpgme_get_io_cbs;
gpgme_get_keylist_mode;
gpgme_get_passphrase_cb;
gpgme_get_progress_cb;
gpgme_get_protocol;
gpgme_get_textmode;
gpgme_release;
gpgme_set_armor;
gpgme_set_include_certs;
gpgme_set_io_cbs;
gpgme_set_keylist_mode;
gpgme_set_locale;
gpgme_set_passphrase_cb;
gpgme_set_progress_cb;
gpgme_set_protocol;
gpgme_set_textmode;
gpgme_signers_add;
gpgme_signers_clear;
gpgme_signers_count;
gpgme_signers_enum;

gpgme_key_ref;
gpgme_key_unref;
gpgme_key_release;

gpgme_trust_item_ref;
gpgme_trust_item_unref;

gpgme_cancel;
Decide on a default file format for documentation. The two main contenders being Org Mode, the default for the GnuPG Project and reStructuredText, the default for Python projects. A third option of DITA XML was considered due to a number of beneficial features
The decision was made to use Org Mode in order to fully integrate with the rest of the GPGME and GnuPG documentation. It is possible to produce reST versions via Pandoc and DITA XML can be reached through converting to either Markdown or XHTML first.

** TODO Documentation build systems

Though Org Mode is being used for the default documentation format, it still needs to end up as usable by end users. So the Org Mode files are used to produce the "source" files used by the two main contenders for documenting the bindings: Texinfo and ReStructuredText/Docutils.

*** TODO Texinfo documentation

Need to add all of Texinfo's ... special systems to make it do its things.

*** TODO ReStructuredText documentation

Need to run Sphinx's quick start, add it to the requirements and tweak the index page for the rst files to point to the HOWTO and other files.

It might just be easier to do all that in Org Mode and convert the lot, then the Sphinx bits can be automated.

** STARTED Documentation HOWTO

- State "STARTED" from "TODO" [2018-03-08 Thu 13:59] \
  Started yesterday.
  Write a HOWTO style guide for the current Python bindings.
*** DONE Start python bindings HOWTO
CLOSED: [2018-03-07 Wed 18:14]
:PROPERTIES:
:CUSTOM_ID: howto-start
:END:

*** STARTED Include certain specific instructions in the HOWTO
:PROPERTIES:
:CUSTOM_ID: howto-requests
:END:

Note: moved the S/MIME bits out to their own section of the TODO list and may be served better by separate HOWTO documentation anyway.

- State "STARTED" from "TODO" [2018-03-09 Fri 15:27]
Some functions can be worked out from the handful of examples available, but many more can't and I've already begun receiving requests for certain functions to be explained.

**** DONE Standard scenarios
CLOSED: [2018-03-19 Mon 12:34]
:PROPERTIES:
:CUSTOM_ID: howto-the-basics
:END:

- State "DONE" from "STARTED" [2018-03-19 Mon 12:34]\n  All four of those are done.
- State "STARTED" from "TODO" [2018-03-09 Fri 15:26]\n  Began with the example code, now to add the text.
What everyone expects: encryption, decryption, signing and verifying.

**** STARTED Key control
:PROPERTIES:
:CUSTOM_ID: howto-key-control
:END:

- State "STARTED" from "TODO" [2018-03-19 Mon 12:35]\n  Generating keys and subkeys are done, but revocation is still to be done.
  Generating keys, adding subkeys, revoking subkeys (and keeping the cert key), adding and revoking UIDs, signing/certifying keys.

**** DONE More key control
CLOSED: [2018-03-19 Mon 12:36]
:PROPERTIES:
:CUSTOM_ID: howto-key-selection
:END:

- State "DONE" from "TODO" [2018-03-19 Mon 12:36]

  Key selection, searching, matching and counting is done.
Selecting keys to encrypt to or manipulate in other ways (e.g. as
with key control or the basics).

** TODO Documentation SWIG
:PROPERTIES:
:CUSTOM_ID: todo-docs-swig
:END:

Write documentation for the complete SWIG bindings demonstrating
the correspondence with GPGME itself.

Note: it is likely that this will be more in the nature of
something to be used in conjunction with the existing GPGME
documentation which makes it easier for Python developers to use.

** TODO GUI examples
:PROPERTIES:
:CUSTOM_ID: todo-gui-examples
:END:

Create some examples of using Python bindings in a GUI application
to either match or be similar to the old GTK2 examples available
with PyME.

** TODO Replace SWIG
:PROPERTIES:
:CUSTOM_ID: todo-replace-swig
:END:

Selecting SWIG for this project in 2002 was understandable and
effectively the only viable option. The options available now,
however, are significantly improved and some of those would resolve
a number of existing problems with using SWIG, particularly when
running code on both POSIX compliant and Windows platforms.

The long term goal is to replace SWIG by reimplementing the Python
bindings using a more suitable means of interfacing with the GPGME
C source code.
Decide on a replacement for SWIG. Currently CFFI is looking like the most viable candidate, but some additional testing and checks are yet to be completed.

A C API like GPGME is not what most modern developers think of when they hear the term API. Normally they think of something they can interact with like a RESTful web API. Though RESTful is unlikely given the nature of GPGME and the process of encryption, it may be possible to provide a more familiar interface which can be utilised by developers of other languages for which bindings are not available or for which it is too difficult to create proper bindings.

Eventually add some of this, but the OpenPGP details are far more important at the moment.

The old GUI examples were unable to be retained since they depended on GTK2 and Python 2's integration with GTK2.
Current GPGME examples so far only include command line tools or basic Python code for use with either Python 2.7 or Python 3.4 and above.

Future GUI examples ought to utilise available GUI modules and libraries supported by Python 3. This may include Qt frameworks, Tkinter, GTK3 or something else entirely.

** Documentation**

:PROPERTIES:
:CUSTOM_ID: documentation
:END:

The legacy documentation which no longer applies to the Python bindings has been removed.

Current and future documentation will adhere to the GnuPG standard of using Org Mode and not use the reStructuredText (reST) format more commonly associated with Python documentation. The reasons for this are that this project is best served as shipping with the rest of GPGME and the documentation ought to match that. There are also aspects of Org Mode's publishing features which are superior to the defaults of reST, including the capacity to generate fully validating strict XHTML output.

If reST files are required at a later point for future inclusion with other Python packages, then that format can be generated from the .org files with Pandoc before being leveraged by either Docutils, Sphinx or something else.

While there are some advanced typesetting features of reST which are not directly available to Org Mode, more often than not those features are best implemented with either HTML and CSS, with LaTeX to produce a PDF or via a number of XML solutions. Both reST and Org Mode have multiple paths by which to achieve all of these.

-----BEGIN PGP PRIVATE KEY BLOCK-----

lQOYBFr5KekBCADk-w4Wi8J6fM/88qD8PO6lSMCxHlcpwH8iK0uPaFFYsJkkXo7kWfPTATv+REeq/o80dvYcdLvRsV21pvnCZz/HXLuyQ18mC3X0brKokbdgrTTKA5XE
BzkNsqyaMMauT184hYkSg62/iTdO1cu/zWv/LFf7Xyn6+uA74ovXCIJO1s0N2c
PShtr98QRzPMf2owgVkg37jnMNp4gGVDGhxSZ0uUwxgYAZYNaSFC+c+3ZrQfY870
+O4j3Mz4p7yD13AwP4buQLBsb/fcexeceQCuqRJnNHf7MdeEcGxai36RceKhd+u+M
yJ392eMgD+dKNIrCTyTPhiZTvxvNLJIBYfCfAEBAAEAB/wLJ0gyMjs2fFt783wM
5Lz2yQiwV43bbBAujdHTqEnS5zsm/oakFyjSokULK96Kv0R4e9eoIGMFvxFK
HKrkgxTxrsNjllOcK1YHTPfEij318ykNL6fj0WJUcdPIENukXl5jboy4k3/4D2y
TTDySyq6qHTgyvMH4K4KjUSpglwSJPttk9Rh9FHAf+sN9rtygDYctAaERMRtSg
LC0St/AoX5GRMiQX799QjwSwqoZyF4s88MC8wdTFfE/E0L4IVdHVp8sz2UszNrtT

-----END PGP PRIVATE KEY BLOCK-----
Maintenance Mode from 2019

* Maintainer from 2019 onward::
* Using the Python Bindings from 2019 and beyond::
* Documentation formats::

Documentation formats

* Cautionary Notes regarding Sphinx and EPUB::

@multitable {aaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:
@tab 0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@gnupg.org>
@item Author GPG Key:
From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made. This also means that documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding for that position, the amount of time I will be able to dedicate solely to this task will be limited and reduced to volunteered time. As with all volunteered time and effort in free software projects, this will be subject to numerous external imperatives.

For most, if not all, Python developers using these bindings; they will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug
report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the lower level, dynamically generated methods which match the GPGME C documentation. While the more intuitively Pythonic higher level layer already covers the vast majority of functionality people require with key generation, signatures, certifications (key signing), encryption, decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking because they are missing from GPGME itself (e.g. revoking keys via the API) and in such cases they are usually deliberately excluded. More discussion of these issues can be found in the archives of the @url{https://lists.gnupg.org/mailman/listinfo/gnupg-devel, gnupg-devel mailing list}.

Any features existing in the dynamically generated layer for which people want a specific, higher level function included to make it more Pythonic (e.g. to avoid needing to learn or memorise cryptographic mode values or GnuPG status code numbers), would be a feature request and @emph{not} a bug.

It is still worthwhile requesting it, but the addition of such a feature would not be guaranteed and provided on a purely volunteer basis. Expediting such a request would require funding that request.

Those with a commercial interest in expediting such a feature request already know how to @url{https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset, expedite it} (use the message field to state what feature is being requested).

@node Documentation formats
@section Documentation formats

The documentation has been written in Org mode for GNU Emacs, with both Texinfo and reStructuredText formats generated from that. The Texinfo files are intended for use with the rest of the GnuPG documentation; while the reStructuredText files are intended for use with Docutils and Sphinx, as with other Python projects.

@menu
* Cautionary Notes regarding Sphinx and EPUB::
@end menu

@node Cautionary Notes regarding Sphinx and EPUB
@subsection Cautionary Notes regarding Sphinx and EPUB
Though Python's Docutils in conjunction with Sphinx is capable of generating some very useful HTML sites, as proven by @uref{https://readthedocs.org/, Read the Docs} and the @uref{https://docs.python.org/, Python documentation}, there are a number of output formats it does not handle well. At the top of the list of things it manages to break so atrociously as to be embarassing is the @uref{http://idpf.org/epub, EPUB 3} format.

The automatically generated EPUB of the CPython documentation always contains hundreds of validation errors and even the modest amount of documentation here @uref{https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-python/rst/epub/GPGMEPythonBindings.epub, produced a file} with approximately thirty validation errors. As the volume of documentation content increases, so does the induced errors. Whereas Texinfo doesn't produce EPUB output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a @uref{https://dev.gnupg.org/maniphest/task/edit/form/4/, feature request} case marked for @uref{https://dev.gnupg.org/p/BenM/, my} attention. The means of generating such files flawlessly is already available, but is not yet part of the GnuPG build system. Nor is it integrated with a means of converting Org mode input files to the relevant base format automatically, as can already be done when converting Org to reStructuredText or Org to Texinfo. As a certain amount of work would be required to get it done, there would need to be clear demand for that work to be done.

@bye

;;; gpgme.lisp

;;; Copyright (C) 2006 g10 Code GmbH
;;;
;;; This file is part of GPGME-CL.
;;;
;;; GPGME-CL is free software; you can redistribute it and/or modify it
;;; under the terms of the GNU General Public License as published by
;;; the Free Software Foundation; either version 2 of the License, or
;;; (at your option) any later version.
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

;;; TODO

;;; Set up the library.
(in-package :gpgme)

(deftype byte-array ()
  '(simple-array (unsigned-byte 8) (*)))

(deftype character-array ()
  '(simple-array character (*)))

;;; Debugging.

(defvar *debug* nil "If debugging output should be given or not.")

;;; Load the foreign library.

(define-foreign-library libgpgme (:unix "libgpgme.so")
  (t (:default "libgpgme")))

(use-foreign-library libgpgme)

;;; System dependencies.

: Access to ERRNO.
(defcfun ("strerror" c-strerror) :string
  (err :int))

(defun get-errno ()
  *errno*)

(defun set-errno (errno)
  (setf *errno* errno))

(define-condition system-error (error)
  ((errno :initarg :errno :reader system-error-errno))
  (:report (lambda (c stream)
    (format stream "System error: ~A: ~A" (system-error-errno c)
      (c-strerror (system-error-errno c))))
  (:documentation "Signalled when an errno is encountered.")

; Needed to write passphrases.
(defcfun ("write" c-write) ssize-t
  (fd :int)
  (buffer :string) ; Actually :pointer, but we only need string.
  (size size-t))

(defun system-write (fd buffer size)
(let ((res (c-write fd buffer size)))
  (when (< res 0) (error 'system-error :errno (get-errno))))
  res))
  ;;
  ;; C Interface Definitions
  ;;
  ;; Data Type Interface

  ;; Some new data types used for easier translation.

  ;; The number of include certs. Translates to NIL for default.
  (defctype cert-int-t
    (:wrapper :int
      :from-c translate-cert-int-t-from-foreign
      :to-c translate-cert-int-t-to-foreign))

  ;; A string that may be NIL to indicate a null pointer.
  (defctype string-or-nil-t
    (:wrapper :string
      :to-c translate-string-or-nil-t-to-foreign))

  ;; Some opaque data types used by GPGME.

  (defctype gpgme-ctx-t
    (:wrapper :pointer
      :to-c translate-gpgme-ctx-t-to-foreign)
    "The GPGME context type.")

  (defctype gpgme-data-t
    (:wrapper :pointer
      :to-c translate-gpgme-data-t-to-foreign)
    "The GPGME data object type.")

  ;; Wrappers for the libgpg-error library.

  (defctype gpgme-error-t
    (:wrapper gpg-error::gpg-error-t
      :from-c translate-gpgme-error-t-from-foreign
      :to-c translate-gpgme-error-t-to-foreign)
    "The GPGME error type.")

  (defctype gpgme-error-no-signal-t
    (:wrapper gpg-error::gpg-error-t
      :from-c translate-gpgme-error-no-signal-t-from-foreign
      :to-c translate-gpgme-error-no-signal-t-to-foreign)
    "The GPGME error type (this version does not signal conditions in translation.")
(defctype gpgme-err-code-t gpg-error::gpg-err-code-t
  "The GPGME error code type.")

(defun gpgme-err-make (source code)
  "Construct an error value from an error code and source."
  (gpg-err-make source code))

(defun gpgme-error (code)
  "Construct an error value from an error code."
  (gpgme-err-make :gpg-err-source-gpgme code))

(defun gpgme-err-code (err)
  "Retrieve an error code from the error value ERR."
  (gpg-err-code err))

(defun gpgme-err-source (err)
  "Retrieve an error source from the error value ERR."
  (gpg-err-source err))

(defun gpgme-strerror (err)
  "Return a string containing a description of the error code."
  (gpg-strerror err))

(defun gpgme-strsource (err)
  "Return a string containing a description of the error source."
  (gpg-strsource err))

(defun gpgme-err-code-from-errno (err)
  "Retrieve the error code for the system error. If the system error
  is not mapped, :gpg-err-unknown-errno is returned."
  (gpg-err-code-from-errno err))

(defun gpgme-err-code-to-errno (code)
  "Retrieve the system error for the error code. If this is not a
  system error, 0 is returned."
  (gpg-err-code-to-errno code))

(defun gpgme-err-make-from-errno (source err)
  (gpg-err-make-from-errno source err))

(defun gpgme-error-from-errno (err)
  (gpg-error-from-errno err))

...
(defcenum gpgme-data-encoding-t
  "The possible encoding mode of gpgme-data-t objects."
  (:none 0)
  (:binary 1)
  (:base64 2)
  (:armor 3)
  (:url 4)
  (:urlesc 5)
  (:url0 6)
  (:mime 7))

;;;

(defcenum gpgme-pubkey-algo-t
  "Public key algorithms from libgcrypt."
  (:rsa 1)
  (:rsa-e 2)
  (:rsa-s 3)
  (:elg-e 16)
  (:dsa 17)
  (:ecc 18)
  (:elg 20)
  (:ecdsa 301)
  (:ecdh 302)
  (:eddsa 303))

(defcenum gpgme-hash-algo-t
  "Hash algorithms from libgcrypt."
  (:none 0)
  (:md5 1)
  (:sha1 2)
  (:rmd160 3)
  (:md2 5)
  (:tiger 6)
  (:haval 7)
  (:sha256 8)
  (:sha384 9)
  (:sha512 10)
  (:sha224 11)
  (:md4 301)
  (:crc32 302)
  (:crc32-rfc1510 303)
  (:crc24-rfc2440 304))

;;;

(defcenum gpgme-sig-mode-t
  "The available signature modes."
  (:none 0)
  (:rsass 1)
  (:elgos 2)
  (:dsass 3)
  (:eccos 16)
  (:eddsa 304)
  (:eddsa 305))
(:none 0)
(:detach 1)
(:clear 2))

::

defcenum gpgme-validity-t
"The available validities for a trust item or key."
(:unknown 0)
(:undefined 1)
(:never 2)
(:marginal 3)
(:full 4)
(:ultimate 5))

::

defcenum gpgme-protocol-t
"The available protocols."
(:openpgp 0)
(:cms 1)
(:gpgconf 2)
(:assuan 3)
(:g13 4)
(:uiserver 5)
(:spawn 6)
(:default 254)
(:unknown 255))

::

defbitfield (gpgme-keylist-mode-t :unsigned-int)
"The available keylist mode flags."
(:local 1)
(:extern 2)
(:sigs 4)
(:sig-notations)
(:with-secret 16)
(:with-tofu 32)
(:ephemeral 128)
(:validate 256))

::

defbitfield (gpgme-sig-notation-flags-t :unsigned-int)
"The available signature notation flags."
(:human-readable 1)
(:critical 2))
(defctype gpgme-sig-notation-t
  (:wrapper :pointer
   :from-c translate-gpgme-sig-notation-t-from-foreign)
  "Signature notation pointer type."

;; FIXME: Doesn't this depend on endianness?
(defun gpgme-sig-notation-bitfield (gpgme-sig-notation-bitfield :unsigned-int)
  (:human-readable 1)
  (:critical 2))

(defun gpgme-sig-notation
  "Signature notations."
  (next gpgme-sig-notation-t)
  (name :pointer)
  (value :pointer)
  (name-len :int)
  (value-len :int)
  (flags gpgme-sig-notation-flags-t)
  (bitfield gpgme-sig-notation-bitfield))

;;

(defun gpgme-status-code-t
  "The possible status codes for the edit operation."
  (:eof 0)
  (:enter 1)
  (:leave 2)
  (:abort 3)
  (:goodsig 4)
  (:badsig 5)
  (:errsig 6)
  (:badarmor 7)
  (:rsa-or-idea 8)
  (:keyexpired 9)
  (:keyrevoke 10)
  (:trust-undefined 11)
  (:trust-never 12)
  (:trust-marginal 13)
  (:trust-fully 14)
  (:trust-ultimate 15)
  (:shm-info 16)
  (:shm-get 17)
  (:shm-get-bool 18)
  (:shm-get-hidden 19)
  (:need-passphrase 20)
  (:validsig 21)
  (:sig-id 22)
(defctype gpgme-engine-info-t
  (:wrapper :pointer
    :from-c translate-gpgme-engine-info-t-to-foreign)
  "The engine information structure pointer type."
)

(defcstruct gpgme-engine-info
  "Engine information."
  (next gpgme-engine-info-t)
  (protocol gpgme-protocol-t)
  (file-name :string)
  (version :string)
  (req-version :string)
  (home-dir :string)

  ...
(defctype gpgme-subkey-t
  (:wrapper :pointer
   :from-c translate-gpgme-subkey-t-from-foreign)
  "A subkey from a key.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-subkey-bitfield :unsigned-int)
  "The subkey bitfield."
  (:revoked 1)
  (:expired 2)
  (:disabled 4)
  (:invalid 8)
  (:can-encrypt 16)
  (:can-sign 32)
  (:can-certify 64)
  (:secret 128)
  (:can-authenticate 256)
  (:is-qualified 512)
  (:is-cardkey 1024)
  (:is-de-vs 2048))

(defcstruct gpgme-subkey
  "Subkey from a key."
  (next gpgme-subkey-t)
  (bitfield gpgme-subkey-bitfield)
  (pubkey-algo gpgme-pubkey-algo-t)
  (length :unsigned-int)
  (keyid :string)
  (-keyid :char :count 17)
  (fpr :string)
  (timestamp :long)
  (expires :long))

(defctype gpgme-key-sig-t
  (:wrapper :pointer
   :from-c translate-gpgme-key-sig-t-from-foreign)
  "A signature on a user ID.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-key-sig-bitfield :unsigned-int)
  "The key signature bitfield."
  (:revoked 1)
  (:expired 2)
  (:invalid 4)
  (:exportable 16))
(defcstruct gpgme-key-sig
  "A signature on a user ID."
  (next gpgme-key-sig-t)
  (bitfield gpgme-key-sig-bitfield)
  (pubkey-algo gpgme-pubkey-algo-t)
  (keyid :string)
  (-keyid :char :count 17)
  (timestamp :long)
  (expires :long)
  (status gpgme-error-no-signal-t)
  (-class :unsigned-int)
  (uid :string)
  (name :string)
  (email :string)
  (comment :string)
  (sig-class :unsigned-int))

(defctype gpgme-user-id-t
  (:wrapper :pointer
   :from-c translate-gpgme-user-id-t-from-foreign)
  "A user ID from a key.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-user-id-bitfield :unsigned-int)
  "The user ID bitfield."
  (:revoked 1)
  (:invalid 2))

(defcstruct gpgme-user-id
  "A user ID from a key."
  (next gpgme-user-id-t)
  (bitfield gpgme-user-id-bitfield)
  (validity gpgme-validity-t)
  (uid :string)
  (name :string)
  (email :string)
  (comment :string)
  (signatures gpgme-key-sig-t)
  (-last-keysig gpgme-key-sig-t))

(defctype gpgme-key-t
  (:wrapper :pointer
   :from-c translate-gpgme-key-t-from-foreign
   :to-c translate-gpgme-key-t-to-foreign)
  "A key from the keyring.")
(defbitfield (gpgme-key-bitfield :unsigned-int)
"The key bitfield."
(:revoked 1)
(:expired 2)
(:disabled 4)
(:invalid 8)
(:can-encrypt 16)
(:can-sign 32)
(:can-certify 64)
(:secret 128)
(:can-authenticate 256)
(:is-qualified 512))

(defcstruct gpgme-key
"A signature on a user ID."
(-refs :unsigned-int)
(bitfield gpgme-key-bitfield)
(protocol gpgme-protocol-t)
(issuer-serial :string)
(issuer-name :string)
(chain-id :string)
(owner-trust gpgme-validity-t)
(subkeys gpgme-subkey-t)
(uids gpgme-user-id-t)
(-last-subkey gpgme-subkey-t)
(-last-uid gpgme-user-id-t)
(keylist-mode gpgme-keylist-mode-t))

;; There is no support in CFFI to define callback C types and have automatic type checking with the callback definition.

(defctype gpgme-passphrase-cb-t :pointer)

(defctype gpgme-progress-cb-t :pointer)

(defctype gpgme-edit-cb-t :pointer)

;; Context management functions.

(defcfun ("gpgme_new" c-gpgme-new) gpgme-error-t
(ctx :pointer))

(decfun ("gpgme_release" c-gpgme-release) :void
  (ctx gpgme-ctx-t))

(decfun ("gpgme_set_protocol" c-gpgme-set-protocol) gpgme-error-t
  (ctx gpgme-ctx-t)
  (proto gpgme-protocol-t))

(decfun ("gpgme_get_protocol" c-gpgme-get-protocol) gpgme-protocol-t
  (ctx gpgme-ctx-t))

(decfun ("gpgme_get_protocol_name" c-gpgme-get-protocol-name) :string
  (proto gpgme-protocol-t))

(decfun ("gpgme_set_armor" c-gpgme-set-armor) :void
  (ctx gpgme-ctx-t)
  (yes :boolean))

(decfun ("gpgme_get_armor" c-gpgme-get-armor) :boolean
  (ctx gpgme-ctx-t))

(decfun ("gpgme_set_textmode" c-gpgme-set-textmode) :void
  (ctx gpgme-ctx-t)
  (yes :boolean))

(decfun ("gpgme_get_textmode" c-gpgme-get-textmode) :boolean
  (ctx gpgme-ctx-t))

(defconstant +include-certs-default+ -256)

(decfun ("gpgme_set_include_certs" c-gpgme-set-include-certs) :void
  (ctx gpgme-ctx-t)
  (nr-of-certs cert-int-t))

(decfun ("gpgme_get_include_certs" c-gpgme-get-include-certs) cert-int-t
  (ctx gpgme-ctx-t))

(decfun ("gpgme_set_keylist_mode" c-gpgme-set-keylist-mode) gpgme-error-t
  (ctx gpgme-ctx-t)
  (mode gpgme-keylist-mode-t))

(decfun ("gpgme_get_keylist_mode" c-gpgme-get-keylist-mode)
  gpgme-keylist-mode-t
  (ctx gpgme-ctx-t))

(decfun ("gpgme_set_passphrase_cb" c-gpgme-set-passphrase-cb) :void
  (ctx gpgme-ctx-t))
(cb gpgme-passphrase-cb-t)
(hook-value :pointer))

(defcfun ("gpgme_get_passphrase_cb" c-gpgme-get-passphrase-cb) :void
(ctx gpgme-ctx-t)
(cb-p :pointer)
(hook-value-p :pointer))

(defcfun ("gpgme_set_progress_cb" c-gpgme-set-progress-cb) :void
(ctx gpgme-ctx-t)
(cb gpgme-progress-cb-t)
(hook-value :pointer))

(defcfun ("gpgme_get_progress_cb" c-gpgme-get-progress-cb) :void
(ctx gpgme-ctx-t)
(cb-p :pointer)
(hook-value-p :pointer))

(defcfun ("gpgme_set_locale" c-gpgme-set-locale) gpgme-error-t
(ctx gpgme-ctx-t)
(category :int)
(value string-or-nil-t))

(defcfun ("gpgme_ctx_get_engine_info" c-gpgme-ctx-get-engine-info)
gpgme-engine-info-t
(ctx gpgme-ctx-t))

(defcfun ("gpgme_ctx_set_engine_info" c-gpgme-ctx-set-engine-info)
gpgme-error-t
(ctx gpgme-ctx-t)
(proto gpgme-protocol-t)
(file-name string-or-nil-t)
(home-dir string-or-nil-t))

;;;

(defcfun ("gpgme_pubkey_algo_name" c-gpgme-pubkey-algo-name) :string
(algo gpgme-pubkey-algo-t))

(defcfun ("gpgme_hash_algo_name" c-gpgme-hash-algo-name) :string
(algo gpgme-hash-algo-t))

;;;

(defcfun ("gpgme_signers_clear" c-gpgme-signers-clear) :void
(ctx gpgme-ctx-t))

(defcfun ("gpgme_signers_add" c-gpgme-signers-add) gpgme-error-t)
(ctx gpgme-ctx-t)
(key gpgme-key-t))

(defcfun ("gpgme_signers_enum" c-gpgme-signers-enum) gpgme-key-t
  (ctx gpgme-ctx-t)
  (seq :int))

;;;

(defcfun ("gpgme_sig_notation_clear" c-gpgme-sig-notation-clear) :void
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_sig_notation_add" c-gpgme-sig-notation-add) gpgme-error-t
  (ctx gpgme-ctx-t)
  (name :string)
  (value string-or-nil-t)
  (flags gpgme-sig-notation-flags-t))

(defcfun ("gpgme_sig_notation_get" c-gpgme-sig-notation-get)
  gpgme-sig-notation-t
  (ctx gpgme-ctx-t))

;;; Run Control.

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-io-cb-t :pointer)

(defctype gpgme-register-io-cb-t :pointer)

(defctype gpgme-remove-io-cb-t :pointer)

(defcenum gpgme-event-io-t
  "The possible events on I/O event callbacks."
  (:start 0)
  (:done 1)
  (:next-key 2)
  (:next-trustitem 3))

(defctype gpgme-event-io-cb-t :pointer)

(defcstruct gpgme-io-cbs
  "I/O callbacks."
  (add gpgme-register-io-cb-t)
  (add-priv :pointer)
  (remove gpgme-remove-io-cb-t)
  (event gpgme-event-io-cb-t)
(defctype gpgme-io-cbs :pointer)

(defcfun ("gpgme_set_io_cbs" c-gpgme-set-io-cbs) :void
  (ctx gpgme-ctx-t)
  (io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_get_io_cbs" c-gpgme-get-io-cbs) :void
  (ctx gpgme-ctx-t)
  (io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_wait" c-gpgme-wait) gpgme-ctx-t
  (ctx gpgme-ctx-t)
  (status-p :pointer)
  (hang :int))

;;; Functions to handle data objects.

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-data-read-cb-t :pointer)
(defctype gpgme-data-write-cb-t :pointer)
(defctype gpgme-data-seek-cb-t :pointer)
(defctype gpgme-data-release-cb-t :pointer)

(defcstruct gpgme-data-cbs
  "Data callbacks."
  (read gpgme-data-read-cb-t)
  (write gpgme-data-write-cb-t)
  (seek gpgme-data-seek-cb-t)
  (release gpgme-data-release-cb-t))

(defctype gpgme-data-cbs-t :pointer
  "Data callbacks pointer."

(defcfun ("gpgme_data_read" c-gpgme-data-read) ssize-t
  (dh gpgme-data-t)
  (buffer :pointer)
  (size size-t))

(defcfun ("gpgme_data_write" c-gpgme-data-write) ssize-t
  (dh gpgme-data-t)
  (buffer :pointer)
  (size size-t))

(defcfun ("gpgme_data_seek" c-gpgme-data-seek) off-t
(defcfun ("gpgme_data_new" c-gpgme-data-new) gpgme-error-t
  (dh-p :pointer))

(defcfun ("gpgme_data_release" c-gpgme-data-release) :void
  (dh gpgme-data-t))

(defcfun ("gpgme_data_new_from_mem" c-gpgme-data-new-from-mem) gpgme-error-t
  (dh-p :pointer)
  (buffer :pointer)
  (size size-t)
  (copy :int))

(defcfun ("gpgme_data_release_and_get_mem" c-gpgme-data-release-and-get-mem)
  :pointer
  (dh gpgme-data-t)
  (len-p :pointer))

(defcfun ("gpgme_data_new_from_cbs" c-gpgme-data-new-from-cbs) gpgme-error-t
  (dh-p :pointer)
  (cbs gpgme-data-cbs-t)
  (handle :pointer))

(defcfun ("gpgme_data_new_from_fd" c-gpgme-data-new-from-fd) gpgme-error-t
  (dh-p :pointer)
  (fd :int))

(defcfun ("gpgme_data_new_from_stream" c-gpgme-data-new-from-stream) gpgme-error-t
  (dh-p :pointer)
  (stream :pointer))

(defcfun ("gpgme_data_get_encoding" c-gpgme-data-get-encoding)
  gpgme-data-encoding-t
  (dh gpgme-data-t))

(defcfun ("gpgme_data_set_encoding" c-gpgme-data-set-encoding)
  gpgme-error-t
  (dh gpgme-data-t)
  (enc gpgme-data-encoding-t))

(defcfun ("gpgme_data_get_file_name" c-gpgme-data-get-file-name) :string
  (dh gpgme-data-t))

(defcfun ("gpgme_data_set_file_name" c-gpgme-data-set-file-name) gpgme-error-t
  (dh gpgme-data-t))
(defcfun ("gpgme_data_new_from_file" c-gpgme-data-new-from-file) gpgme-error-t
  (dh-p :pointer)
  (fname :string)
  (copy :int))

(defun ("gpgme_data_new_from_filepart" c-gpgme-data-new-from-filepart)
  gpgme-error-t
  (dh-p :pointer)
  (fname :string)
  (fp :pointer)
  (offset off-t)
  (length size-t))

;;; Key and trust functions.

(defun ("gpgme_get_key" c-gpgme-get-key) gpgme-error-t
  (ctx gpgme-ctx-t)
  (fpr :string)
  (key-p :pointer)
  (secret :boolean))

(defun ("gpgme_key_ref" c-gpgme-key-ref) :void
  (key gpgme-key-t))

(defun ("gpgme_key_unref" c-gpgme-key-unref) :void
  (key gpgme-key-t))

;;; Crypto operations.

(defun ("gpgme_cancel" c-gpgme-cancel) gpgme-error-t
  (ctx gpgme-ctx-t))

(defctype gpgme-invalid-key-t
  (:wrapper :pointer
   :from-c translate-gpgme-invalid-key-t-from-foreign)
  "An invalid key structure.")

(defcstruct gpgme-invalid-key
  "An invalid key structure."
  (next gpgme-invalid-key-t)
  (fpr :string)
  (reason gpgme-error-no-signal-t))
;;; Encryption.

(defcstruct gpgme-op-encrypt-result
   "Encryption result structure."
   (invalid-recipients gpgme-invalid-key-t))

(defctype gpgme-op-encrypt-result-t
   (:wrapper :pointer
      :from-c translate-gpgme-op-encrypt-result-t-from-foreign)
   "An encryption result structure.")

(defcfun ("gpgme_op_encrypt_result" c-gpgme-op-encrypt-result)
   gpgme-op-encrypt-result-t
   (ctx gpgme-ctx-t))

(defbitfield gpgme-encrypt-flags-t
   (:always-trust 1)
   (:no-encrypt-to 2)
   (:prepare 4)
   (:expect-sign 8)
   (:no-compress 16)
   (:symmetric 32)
   (:throw-keyids 64)
   (:wrap 128)
   (:want-address 256))

(defcfun ("gpgme_op_encrypt_start" c-gpgme-op-encrypt-start) gpgme-error-t
   (ctx gpgme-ctx-t)
   (recp :pointer) ; Key array.
   (flags gpgme-encrypt-flags-t)
   (plain gpgme-data-t)
   (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt" c-gpgme-op-encrypt) gpgme-error-t
   (ctx gpgme-ctx-t)
   (recp :pointer) ; Key array.
   (flags gpgme-encrypt-flags-t)
   (plain gpgme-data-t)
   (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt_sign_start" c-gpgme-op-encrypt-sign-start) gpgme-error-t
   (ctx gpgme-ctx-t)
   (recp :pointer) ; Key array.
   (flags gpgme-encrypt-flags-t)
   (plain gpgme-data-t)
   (cipher gpgme-data-t))
(defcfun ("gpgme_op_encrypt_sign" c-gpgme-op-encrypt-sign) gpgme-error-t
  (ctx gpgme-ctx-t)
  (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))

;;; Decryption.

(defctype gpgme-recipient-t
  (:wrapper :pointer
    :from-c translate-gpgme-recipient-t-from-foreign)
  "A recipient structure.")

defcstruct gpgme-recipient
  "Recipient structure."
  (next gpgme-recipient-t)
  (keyid :string)
  (-keyid :char :count 17)
  (pubkey-algo gpgme-pubkey-algo-t)
  (status gpgme-error-no-signal-t))

defbitfield gpgme-op-decrypt-result-bitfield
  "Decryption result structure bitfield."
  (:wrong-key-usage 1)
  (:is-de-vs 2)
  (:is-mine 4))

defcstruct gpgme-op-decrypt-result
  "Decryption result structure."
  (unsupported-algorithm :string)
  (bitfield gpgme-op-decrypt-result-bitfield)
  (recipients gpgme-recipient-t)
  (file-name :string))

defctype gpgme-op-decrypt-result-t
  (:wrapper :pointer
    :from-c translate-gpgme-op-decrypt-result-t-from-foreign)
  "A decryption result structure.")

defcfun ("gpgme_op_decrypt_result" c-gpgme-op-decrypt-result)
  gpgme-op-decrypt-result-t
  (ctx gpgme-ctx-t))

defcfun ("gpgme_op_decrypt_start" c-gpgme-op-decrypt-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (cipher gpgme-data-t)
  (plain gpgme-data-t))
(defcfun ("gpgme_op_decrypt" c-gpgme-op-decrypt) gpgme-error-t
  (ctx gpgme-ctx-t)
  (cipher gpgme-data-t)
  (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify_start" c-gpgme-op-decrypt-verify-start)
  gpgme-error-t
  (ctx gpgme-ctx-t)
  (cipher gpgme-data-t)
  (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify" c-gpgme-op-decrypt-verify) gpgme-error-t
  (ctx gpgme-ctx-t)
  (cipher gpgme-data-t)
  (plain gpgme-data-t))

;;; Signing.

(defctype gpgme-new-signature-t
  (:wrapper :pointer
    :from-c translate-gpgme-new-signature-t-from-foreign)
  "A new signature structure.")

(defcstruct gpgme-new-signature
  "New signature structure."
  (next gpgme-new-signature-t)
  (type gpgme-sig-mode-t)
  (pubkey-algo gpgme-pubkey-algo-t)
  (hash-algo gpgme-hash-algo-t)
  (-obsolete-class :unsigned-long)
  (timestamp :long)
  (fpr :string)
  (-obsolete-class-2 :unsigned-int)
  (sig-class :unsigned-int))

(defcstruct gpgme-op-sign-result
  "Signing result structure."
  (invalid-signers gpgme-invalid-key-t)
  (signatures gpgme-new-signature-t))

(defctype gpgme-op-sign-result-t
  (:wrapper :pointer
    :from-c translate-gpgme-op-sign-result-t-from-foreign)
  "A signing result structure.")

(defcfun ("gpgme_op_sign_result" c-gpgme-op-sign-result)
  gpgme-op-sign-result-t)
(ctx gpgme-ctx-t))

(defcfun ("gpgme_op_sign_start" c-gpgme-op-sign-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (plain gpgme-data-t)
  (sig gpgme-data-t)
  (mode gpgme-sig-mode-t))

(defcfun ("gpgme_op_sign" c-gpgme-op-sign) gpgme-error-t
  (ctx gpgme-ctx-t)
  (plain gpgme-data-t)
  (sig gpgme-data-t)
  (mode gpgme-sig-mode-t))

;;; Verify.

(defbitfield (gpgme-sigsum-t :unsigned-int)
  "Flags used for the summary field in a gpgme-signature-t."
  (:valid #x0001)
  (:green #x0002)
  (:red #x0004)
  (:key-revoked #x0010)
  (:key-expired #x0020)
  (:sig-expired #x0040)
  (:sig-expired #x0080)
  (:is-de-vs #x0100)
  (:crl-too-old #x0200)
  (:crl-missing #x0400)
  (:sys-error #x0800)
  (:tofu-conflict #x1000))

(defun translate-gpgme-signature-t-from-foreign)

(defun translate-gpgme-signature-t-from-foreign)

(defctype gpgme-signature-t
  (:wrapper :pointer
    :from-c translate-gpgme-signature-t-from-foreign)
  "A signature structure.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-signature-bitfield :unsigned-int)
  "The signature bitfield."
  (:wrong-key-usage 1)
  (:pka-trust 2)
  (:chain-model 4)
  (:is-de-vs 8))

(defcstruct gpgme-signature
  "Signature structure."
  (next gpgme-signature-t)
  (summary gpgme-sigsum-t)
(fpr :string)
(status gpgme-error-no-signal-t)
(notations gpgme-sig-notation-t)
(timestamp :unsigned-long)
(exp-timestamp :unsigned-long)
(bitfield gpgme-signature-bitfield)
(validity gpgme-validity-t)
(validity-reason gpgme-error-no-signal-t)
(pubkey-algo gpgme-pubkey-algo-t)
(hash-algo gpgme-hash-algo-t)

(defun gpgme-operation-verify-result-result
  "Verify result structure."
  (signatures gpgme-signature-t)
  (file-name :string))

(defun gpgme-operation-verify-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-operation-verify-result-t-from-foreign)
  "A verify result structure.")

(defun gpgme-operation-verify-result-c
  "Verify result structure."
  (signatures gpgme-signature-t)
  (file-name :string))

(defun gpgme-operation-verify-start-c
  (ctx gpgme-ctx-t)
  (sig gpgme-data-t)
  (signed-text gpgme-data-t)
  (plaintext gpgme-data-t))

(defun gpgme-operation-verify-c
  (ctx gpgme-ctx-t)
  (sig gpgme-data-t)
  (signed-text gpgme-data-t)
  (plaintext gpgme-data-t))

;;; Import.

(defun gpgme-import-flags-t
  (:unsigned-int)
  (:new #x0001)
  (:uid #x0002)
  (:sig #x0004)
  (:subkey #x0008)
  (:secret #x0010))

(defun gpgme-import-status-t
(defcstruct gpgme-import-status
  "New import status structure."
  (next gpgme-import-status-t)
  (fpr :string)
  (result gpgme-error-no-signal-t)
  (status :unsigned-int))

(defcstruct gpgme-op-import-result
  "Import result structure."
  (considered :int)
  (no-user-id :int)
  (imported :int)
  (imported-rsa :int)
  (unchanged :int)
  (new-user-ids :int)
  (new-sub-keys :int)
  (new-signatures :int)
  (new-revocations :int)
  (secret-read :int)
  (secret-imported :int)
  (secret-unchanged :int)
  (skipped-new-keys :int)
  (not-imported :int)
  (imports gpgme-import-status-t))

(defctype gpgme-op-import-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-op-import-result-t-from-foreign)
  "An import status result structure."
  )

(defun ("gpgme_op_import_result" c-gpgme-op-import-result)
  gpgme-op-import-result-t
  (ctx gpgme-ctx-t))

(defun ("gpgme_op_import_start" c-gpgme-op-import-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (keydata gpgme-data-t))

(defun ("gpgme_op_import" c-gpgme-op-import) gpgme-error-t
  (ctx gpgme-ctx-t)
  (keydata gpgme-data-t))

;;;; Export.
(defcfun ("gpgme_op_export_start" c-gpgme-op-export-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (pattern :string)
  (reserved :unsigned-int)
  (keydata gpgme-data-t))

(defcfun ("gpgme_op_export" c-gpgme-op-export) gpgme-error-t
  (ctx gpgme-ctx-t)
  (pattern :string)
  (reserved :unsigned-int)
  (keydata gpgme-data-t))

;;; FIXME: Extended export interfaces require array handling.

;;; Key generation.

(defbitfield (gpgme-genkey-flags-t :unsigned-int)
  "Flags used for the key generation result bitfield."
  (:primary #x0001)
  (:sub #x0002)
  (:uid #x0004))

defcstruct gpgme-op-genkey-result
  "Key generation result structure."
  (bitfield gpgme-genkey-flags-t)
  (fpr :string))

defctype gpgme-op-genkey-result-t :pointer
  "A key generation result structure.")

(defcfun ("gpgme_op_genkey_result" c-gpgme-op-genkey-result)
  gpgme-op-genkey-result-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_genkey_start" c-gpgme-op-genkey-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (parms :string)
  (pubkey gpgme-data-t)
  (seckey gpgme-data-t))

defcfun ("gpgme_op_genkey" c-gpgme-op-genkey) gpgme-error-t
  (ctx gpgme-ctx-t)
  (parms :string)
  (pubkey gpgme-data-t)
  (seckey gpgme-data-t))

;;; Key deletion.
;;; FIXME: Add edit interfaces.

;;; Keylist interface.

(defvar (gpgme-keylist-flags-t :unsigned-int)
"Flags used for the key listing result bitfield."
(:truncated #x0001))

(defcstruct gpgme-op-keylist-result
"Key listing result structure."
(bitfield gpgme-keylist-flags-t))

(defctype gpgme-op-keylist-result-t :pointer
"A key listing result structure.")

(defun (gpgme-op-keylist-result" c-gpgme-op-keylist-result)
  gpgme-op-keylist-result-t
  (ctx gpgme-ctx-t))

(defun (gpgme-op-keylist-start" c-gpgme-op-keylist-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (pattern :string)
  (secret_only :boolean))

;;; FIXME: Extended keylisting requires array handling.

(defun (gpgme-op-keylist-next" c-gpgme-op-keylist-next) gpgme-error-t
  (ctx gpgme-ctx-t)
  (r-key :pointer))

(defun (gpgme-op-keylist-end" c-gpgme-op-keylist-end) gpgme-error-t
  (ctx gpgme-ctx-t))

;;; Various functions.

(defun (gpgme-check-version" c-gpgme-check-version) string
  (req-version string-or-nil-t))
(defcfun ("gpgme_get_engine_info" c-gpgme-get-engine-info) gpgme-error-t
  (engine-info-p :pointer))

(defcfun ("gpgme_set_engine_info" c-gpgme-set-engine-info) gpgme-error-t
  (proto gpgme-protocol-t)
  (file-name string-or-nil-t)
  (home-dir string-or-nil-t))

(defcfun ("gpgme_engine_check_version" c-gpgme-engine-check-version)
  gpgme-error-t
  (proto gpgme-protocol-t))

;;;; L I S P   I N T E R F A C E

;;;;

;;;;
;;;; Lisp type translators.

;;;;
;;;; Both directions.

;;;; cert-int-t is a helper type that takes care of representing the
nenumber default number of certs as NIL.

(defun translate-cert-int-t-from-foreign (value)
  (cond
   ((eql value +include-certs-default+) nil)
   (t value)))

(defun translate-cert-int-t-to-foreign (value)
  (cond
   (value value)
   (t +include-certs-default+)))

;;; string-or-nil-t translates a null pointer to NIL and vice versa.
;;; Translation from foreign null pointer already works as expected.

(defun translate-string-or-nil-t-to-foreign (value)
  (cond
   (value value)
   (t (null-pointer)))

;;;; Output only.

;;;; These type translators only convert from foreign type, because we
;;;; never use these types in the other direction.
::: Convert gpgme-engine-info-t linked lists into a list of property
::: lists. Note that this converter will automatically be invoked
::: recursively.
:::
::: FIXME: Should we use a hash table (or struct, or clos) instead of
::: property list, as recommended by the Lisp FAQ?

(defun translate-gpgme-engine-info-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((next protocol file-name version req-version home-dir)
       value (:struct gpgme-engine-info))
      (append (list protocol (list
        :file-name file-name
        :version version
        :req-version req-version
        :home-dir home-dir))
      next))))

(defun translate-gpgme-invalid-key-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((next fpr reason)
       value (:struct gpgme-invalid-key))
      (append (list (list :fpr fpr
        :reason reason))
      next))))

(defun translate-gpgme-op-encrypt-result-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((invalid-recipients)
       value (:struct gpgme-op-encrypt-result))
      (list :encrypt
        (list :invalid-recipients invalid-recipients)))))

(defun translate-gpgme-recipient-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((next keyid pubkey-algo status)
       value (:struct gpgme-recipient))
      (append (list (list :keyid keyid
        :pubkey-algo pubkey-algo
        :status status))
      next))))
(defun translate-gpgme-op-decrypt-result-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((unsupported-algorithm bitfield recipients file-name)
         value (:struct gpgme-op-decrypt-result))
       (list :decrypt (list :unsupported-algorithm unsupported-algorithm
                          :bitfield bitfield
                          :recipients recipients
                          :file-name file-name))))))

(defun translate-gpgme-new-signature-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((next type pubkey-algo hash-algo timestamp fpr sig-class)
         value (:struct gpgme-new-signature))
       (append (list (list :type type :pubkey-algo pubkey-algo
                            :hash-algo hash-algo :timestamp timestamp :fpr fpr
                            :sig-class sig-class))
                next)))))

(defun translate-gpgme-op-sign-result-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((invalid-signers signatures)
         value (:struct gpgme-op-sign-result))
       (list :sign (list :invalid-signers invalid-signers
                         :signatures signatures)))))

(defun translate-gpgme-signature-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((next summary fpr status notations timestamp exp-timestamp bitfield validity validity-reason
          pubkey-algo hash-algo)
         value (:struct gpgme-signature))
       (append (list (list :summary summary :fpr fpr
                            :status status :notations notations
                            :exp-timestamp exp-timestamp :bitfield bitfield
                            :validity validity :validity-reason validity-reason
                            :pubkey-algo pubkey-algo :hash-algo hash-algo
                            :timestamp timestamp)
                next))))))
(defun translate-gpgme-op-verify-result-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((signatures file-name) value (:struct gpgme-op-verify-result))
        (list :verify (list :signatures signatures
                           :file-name file-name)))))

(defun translate-gpgme-import-status-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((next fpr result status) value (:struct gpgme-import-status))
        (append (list (list :fpr fpr :result result :status status))
                 next)))))

(defun translate-gpgme-op-import-result-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((considered no-user-id imported imported-rsa unchanged
                    new-user-ids new-sub-keys new-signatures
                    new-revocations secret-read secret-imported
                    secret-unchanged skipped-new-keys not-imported
                    imports) value (:struct gpgme-op-import-result))
        (list :verify (list :considered considered
                            :no-user-id no-user-id
                            :imported imported
                            :imported-rsa imported-rsa
                            :unchanged unchanged
                            :new-user-ids new-user-ids
                            :new-sub-keys new-sub-keys
                            :new-signatures new-signatures
                            :new-revocations new-revocations
                            :secret-read secret-read
                            :imports imports
                            :result result
                            :status status))
        next)))))
;;; Error handling.

;;; Use gpgme-error-no-signal-t to suppress automatic error handling
;;; at translation time.
;;;
;;; FIXME: Part of this probably should be in gpg-error!

(define-condition gpgme-error (error)
  ((value :initarg :gpgme-error :reader gpgme-error-value))
  (:report (lambda (c stream)
             (format stream "GPGME returned error: ~A (~A)"
                     (gpgme-strerror (gpgme-error-value c))
                     (gpgme-strsource (gpgme-error-value c))))))
  (:documentation "Signalled when a GPGME function returns an error.")))

(defun translate-gpgme-error-t-from-foreign (value)
  "Raise a GPGME-ERROR if VALUE is non-zero."
  (when (not (eql (gpgme-err-code value) :gpg-err-no-error))
    (error 'gpgme-error :gpgme-error value))
  (gpg-err-canonicalize value))

(defun translate-gpgme-error-t-to-foreign (value)
  "Canonicalize the error value."
  (if (eql (gpgme-err-code value) :gpg-err-no-error)
      0
      (gpg-err-as-value value)))

(defun translate-gpgme-error-no-signal-t-from-foreign (value)
  "Canonicalize the error value."
  (gpg-err-canonicalize value))

;;; *INTERNAL* Lispy Function Interface that is still close to the C
;;; interface.

;;; Passphrase callback management.

;;; Maybe: Instead, use subclassing, and provide a customizable
;;; default implementation for ease-of-use.

(defun translate-gpgme-error-no-signal-t-to-foreign (value)
  "Canonicalize the error value."
  (gpg-err-canonicalize value))
passphrase callback object as value.

(defun callback passphrase-cb (handle :pointer)
  (uid-hint :string)
  (passphrase-info :string)
  (prev-was-bad :boolean)
  (fd :int))
(handler-case
  (let* ((passphrase-cb
      (gethash (pointer-address handle) *passphrase-handles*))
    (passphrase
      (cond
        ((functionp passphrase-cb)
         (concatenate 'string
           (funcall passphrase-cb uid-hint passphrase-info
              prev-was-bad)
           #(\Newline)))
        (t (concatenate 'string passphrase-cb #(\Newline)))))
    (passphrase-len (length passphrase))
    ;; FIXME: Could be more robust.
    (res (system-write fd passphrase passphrase-len)))
  (cond
    ((< res passphrase-len) ; FIXME: Blech. A weak attempt to be robust.
    (gpgme-error :gpg-err-inval))
    (t (gpgme-error :gpg-err-no-error))))
(gpgme-error (err) (gpgme-error-value err))
(system-error (err) (gpgme-error-from-errno (system-error-errno err)))
;; FIXME: The original error gets lost here.
(condition (err) (progn
  (when *debug*
    (format t "DEBUG: passphrase-cb: Unexpressable: ~A~%")
    err))
  (gpgme-error :gpg-err-general))))

;; CTX is a C-pointer to the context.
(defun gpgme-set-passphrase-cb (ctx cb)
  "Set the passphrase callback for CTX."
  (let ((handle (pointer-address ctx)))
    (cond
      (cb (setf (gethash handle *passphrase-handles*) cb)
      (c-gpgme-set-passphrase-cb ctx (callback passphrase-cb) ctx))
      (t (c-gpgme-set-passphrase-cb ctx (null-pointer) (null-pointer)))
      (remhash handle *passphrase-handles*)))))

;; Progress callback management.

;; Maybe: Instead, use subclassing, and provide a customizable
;; default implementation for ease-of-use.
(defvar *progress-handles* (make-hash-table)
"Hash table with GPGME context address as key and the corresponding
progress callback object as value.")

(defcallback progress-cb :void ((handle :pointer)
(what :string)
(type :int)
(current :int)
(total :int))
(handler-case
  (let* ((progress-cb
           (gethash (pointer-address handle) *progress-handles*)))
    (funcall progress-cb what type current total))
;; FIXME: The original error gets lost here.
  (condition (err) (when *debug*
    (format t "DEBUG: progress-cb: Unexpressable: ~A~%" err))))))

;; CTX is a C-pointer to the context.
(defun gpgme-set-progress-cb (ctx cb)
"Set the progress callback for CTX."
(let ((handle (pointer-address ctx)))
  (cond
   (cb (setf (gethash handle *progress-handles*) cb)
        (c-gpgme-set-progress-cb ctx (callback progress-cb) ctx))
   (t (c-gpgme-set-progress-cb ctx (null-pointer) (null-pointer))
        (remhash handle *progress-handles*)))))

;; Context management.

(defun gpgme-new (&key (protocol :openpgp) armor textmode include-certs keylist-mode passphrase progress file-name home-dir)
"Allocate a new GPGME context."
(with-foreign-object (ctx-p 'gpgme-ctx-t)
  (c-gpgme-new ctx-p)
  (let ((ctx (mem-ref ctx-p 'gpgme-ctx-t)))
    ;; Set locale?
    (gpgme-set-protocol ctx protocol)
    (gpgme-set-armor ctx armor)
    (gpgme-set-textmode ctx textmode)
    (when include-certs (gpgme-set-include-certs ctx include-certs))
    (when keylist-mode (gpgme-set-keylist-mode ctx keylist-mode))
    (gpgme-set-passphrase-cb ctx passphrase)
    (gpgme-set-progress-cb ctx progress)
    (gpgme-set-engine-info ctx protocol
      :file-name file-name :home-dir home-dir)
    (when *debug* (format t "DEBUG: gpgme-new: ~A~%" ctx)))

---

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(defun gpgme-release (ctx)
  "Release a GPGME context."
  (when *debug* (format t "DEBUG: gpgme-release: ~A~%" ctx))
  (c-gpgme-release ctx))

(defun gpgme-set-protocol (ctx proto)
  "Set the protocol to be used by CTX to PROTO."
  (c-gpgme-set-protocol ctx proto))

(defun gpgme-get-protocol (ctx)
  "Get the protocol used with CTX."
  (c-gpgme-get-protocol ctx))

;;; FIXME: How to do pretty printing?
;;;
;;; gpgme-get-protocol-name

(defun gpgme-set-armor (ctx armor)
  "If ARMOR is true, enable armor mode in CTX, disable it otherwise."
  (c-gpgme-set-armor ctx armor))

(defun gpgme-armor-p (ctx)
  "Return true if armor mode is set for CTX."
  (c-gpgme-get-armor ctx))

(defun gpgme-set-textmode (ctx textmode)
  "If TEXTMODE is true, enable text mode mode in CTX, disable it otherwise."
  (c-gpgme-set-textmode ctx textmode))

(defun gpgme-textmode-p (ctx)
  "Return true if text mode mode is set for CTX."
  (c-gpgme-get-textmode ctx))

(defun gpgme-set-include-certs (ctx &optional certs)
  "Include up to CERTS certificates in an S/MIME message."
  (c-gpgme-set-include-certs ctx certs))

(defun gpgme-get-include-certs (ctx)
  "Return the number of certs to include in an S/MIME message, or NIL if the default is used."
  (c-gpgme-get-include-certs ctx))

(defun gpgme-get-keylist-mode (ctx)
  "Get the keylist mode in CTX."
  (c-gpgme-get-keylist-mode ctx))
(defun gpgme-set-keylist-mode (ctx mode)
  "Set the keylist mode in CTX."
  (c-gpgme-set-keylist-mode ctx mode))

;;; FIXME: How to handle locale? cffi-grovel?

(defun gpgme-get-engine-info (&optional ctx)
  "Retrieve the engine info for CTX, or the default if CTX is omitted."
  (cond
    (ctx (c-gpgme-ctx-get-engine-info ctx))
    (t (with-foreign-object (info-p 'gpgme-engine-info-t)
        (c-gpgme-get-engine-info info-p)
        (mem-ref info-p 'gpgme-engine-info-t)))))

(defun gpgme-set-engine-info (ctx proto &key file-name home-dir)
  "Set the engine info for CTX, or the default if CTX is NIL."
  (cond
    (ctx (c-gpgme-ctx-set-engine-info ctx proto file-name home-dir))
    (t (c-gpgme-set-engine-info proto file-name home-dir))))

;;; FIXME: How to do pretty printing?

;;; gpgme_pubkey_algo_name, gpgme_hash_algo_name

(defun gpgme-set-signers (ctx keys)
  "Set the signers for the context CTX."
  (c-gpgme-signers-clear ctx)
  (dolist (key keys) (c-gpgme-signers-add ctx key)))

;;;

(defun gpgme-set-sig-notation (ctx notations)
  "Set the sig notation for the context CTX."
  (c-gpgme-sig-notation-clear ctx)
  (dolist (notation notations)
    (c-gpgme-sig-notation-add
      ctx (first notation) (second notation) (third notation))))

(defun gpgme-get-sig-notation (ctx)
  "Get the signature notation data for the context CTX."
  (c-gpgme-sig-notation-get ctx))

;;; FIXME: Add I/O callback interface, for integration with clg.

;;; FIXME: Add gpgme_wait?

;;; Streams
GPGME uses standard streams. You can define your own streams, or use the existing file or string streams.

A stream-spec is either a stream, or a list with a stream as its first argument followed by keyword parameters: encoding, file-name.

FIXME: Eventually, we should provide a class that can be mixed into stream classes and which provides accessors for encoding and file-names. This interface should be provided in addition to the above sleazy interface, because the sleazy interface is easier to use (less typing), and is quite sufficient in a number of cases.

For best results, streams with element type (unsigned-byte 8) should be used. Character streams may work if armor mode is used.

Do we need to provide access to GPGME data objects through streams as well? It seems to me that specific optimizations, like directly writing to file descriptors, is better done by extending the sleazy syntax (stream-spec) instead of customized streams.

Customized streams do buffering, and this may mess up things. Mmh.

(defvar *data-handles* (make-hash-table)
"Hash table with GPGME data user callback handle address as key and the corresponding stream as value.")

The release callback removes the stream from the *data-handles* hash and releases the CBS structure that is used as the key in that hash. It is implicitly invoked (through GPGME) by gpgme-data-release.

(defcallback data-release-cb :void ((handle :pointer))
(unwind-protect (remhash (pointer-address handle) *data-handles*)
  (when (not (null-pointer-p handle)) (foreign-free handle))))

(defcallback data-read-cb ssize-t ((handle :pointer) (buffer :pointer)
  (size size-t))
  (when *debug* (format t "DEBUG: gpgme-data-read-cb: want ~A~%" size))
  (let ((stream (gethash (pointer-address handle) *data-handles*)))
    (cond
      (stream
        (let* ((stream-type (stream-element-type stream))
          (seq (make-array size :element-type stream-type))
          (read (read-sequence seq stream)))
          (cond
            ((equal stream-type '(unsigned-byte 8))
              (dotimes (i read

(defcallback data-read-cb (ssize-t (handle :pointer) (buffer :pointer) (read :unsigned-natural))
  (when *debug* (format t "DEBUG: gpgme-data-read-cb: read ~A~%" read))
  (t
   (set-errno +ebadf+
   -1))))

(defcallback data-write-cb (ssize-t (handle :pointer) (buffer :pointer) (size :size-t))
  (when *debug* (format t "DEBUG: gpgme-data-write-cb: want ~A~%" size))
  (let ((stream (gethash (pointer-address handle) *data-handles*)))
    (cond
      (stream
        (let* ((stream-type (stream-element-type stream))
               (seq (make-array size :element-type stream-type)))
          (cond
            ((equal stream-type '(unsigned-byte 8))
             (dotimes (i size)
              (setf (aref (the byte-array seq) i)
                   (mem-aref buffer :unsigned-char i)))))
            ((eql stream-type 'character)
             (dotimes (i size)
              (setf (aref (the character-array seq) i)
                   (code-char (mem-aref buffer :unsigned-char i)))))
            (t
             (dotimes (i size)
              (setf (aref seq i)
                   (coerce (mem-aref buffer :unsigned-char i) stream-type))))
            (write-sequence seq stream)
         size))
      (t
       (set-errno +ebadf+
       -1))))

;; This little helper macro allows us to swallow the cbs structure by
;; simply setting it to a null pointer, but still protect against
;; conditions.
(defmacro with-cbs-swallowed ((cbs) &body body)
  `(let ((cbs (foreign-alloc '(:struct gpgme-data-cbs))))
    body))
(defun gpgme-data-new (stream &key encoding file-name)
"Allocate a new GPGME data object for STREAM."
(with-foreign-object (dh-p 'gpgme-data-t)
  ;; We allocate one CBS structure for each stream we wrap in a
  ;; data object. Although we could also share all these
  ;; structures, as they contain the very same callbacks, we need a
  ;; unique C pointer as handle anyway to look up the stream in the
  ;; callback. This is a convenient one to use.
  (with-cbs-swallowed (cbs)
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'read)
      (callback data-read-cb))
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'write)
      (callback data-write-cb))
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'seek)
      (null-pointer))
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'release)
      (callback data-release-cb))
    (c-gpgme-data-new-from-cbs dh-p cbs cbs)
    (let ((dh (mem-ref dh-p 'gpgme-data-t)))
      (when encoding (gpgme-data-set-encoding dh encoding))
      (when file-name (gpgme-data-set-file-name dh file-name)))
    ;; Install the stream into the hash table and swallow the cbs
    ;; structure while protecting against any errors.
    (unwind-protect
      (progn
        (setf (gethash (pointer-address cbs) *data-handles*) stream)
        (setf cbs (null-pointer)))
      (c-gpgme-data-release dh)))

;;; This function releases a GPGME data object. It implicitly
;;; invokes the data-release-cb function to clean up associated junk.
(defun gpgme-data-release (dh)
  "Release a GPGME data object."
  (c-gpgme-data-release dh))

(defclass data ()
  (c-data) ; The C data object pointer
  (:documentation "The GPGME data type."))

(defmethod initialize-instance :after ((data data) &key streamspec
  &allow-other-keys)
  (let ((c-data (if (listp streamspec)...


(apply #'gpgme-data-new streamspec)
  (gpgme-data-new streamspec))

(cleanup t))
(unwind-protect
  (progn
    (setf (slot-value data 'c-data) c-data)
    (finalize data (lambda () (gpgme-data-release c-data)))
    (setf cleanup nil))
  (if cleanup (gpgme-data-release c-data))))

(defun translate-gpgme-data-t-to-foreign (value)
  ;; Allow a pointer to be passed directly for the finalizer to work.
  (cond
    ((null value) (null-pointer))
    ((pointerp value) value)
    (t (slot-value value 'c-data))))

(defmacro with-gpgme-data ((dh streamspec) &body body)
  `(let ((,dh (make-instance 'data :streamspec ,streamspec)))
     ,@body))

(defun gpgme-data-get-encoding (dh)
  "Get the encoding associated with the data object DH."
  (c-gpgme-data-get-encoding dh))

(defun gpgme-data-set-encoding (dh encoding)
  "Set the encoding associated with the data object DH to ENCODING."
  (c-gpgme-data-set-encoding dh encoding))

(defun gpgme-data-get-file-name (dh)
  "Get the file name associated with the data object DH."
  (c-gpgme-data-get-file-name dh))

(defun gpgme-data-set-file-name (dh file-name)
  "Set the file name associated with the data object DH to FILE-NAME."
  (c-gpgme-data-set-file-name dh file-name))

;;;; FIXME: Add key accessor interfaces.

(defun gpgme-get-key (ctx fpr &optional secret)
  "Get the key with the fingerprint FPR from the context CTX."
  (with-foreign-object (key-p 'gpgme-key-t)
    (c-gpgme-get-key ctx fpr key-p secret)
    (mem-ref key-p 'gpgme-key-t)))

(defun gpgme-key-ref (key)
  "Acquire an additional reference to the key KEY."
  (when *debug* (format t "DEBUG: gpgme-key-ref: ~A~%" key))

---
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(c-gpgme-key-ref key))

(defun gpgme-key-unref (key)
  "Release a reference to the key KEY."
  (when *debug* (format t "DEBUG: gpgme-key-unref: ~A~%" key))
  (c-gpgme-key-unref key))

;;; FIXME: We REALLY need pretty printing for keys and all the other
;;; big structs.

;;; Various interfaces.

(defun gpgme-check-version (&optional req-version)
  (c-gpgme-check-version req-version))

;;;
;;; The *EXPORTED* CLOS interface.
;;;
;;;
;;; The context type.

;;; We wrap the C context pointer into a class object to be able to
;;; stick a finalizer on it.

(defun translate-gpgme-ctx-t-to-foreign (value)
  ;; Allow a pointer to be passed directly for the finalizer to work.
  (if (pointerp value) value (slot-value value 'c-ctx)))

(defmacro context (&rest rest)
  "Create a new GPGME context."
  `(make-instance 'context ,@rest))
;;; The context type: Accessor functions.

;;; The context type: Accessor functions: Protocol.

(defgeneric protocol (ctx)
  (:documentation "Get the protocol of CONTEXT."))

(defmethod protocol ((ctx context))
  (gpgme-get-protocol ctx))

(defgeneric (setf protocol) (protocol ctx)
  (:documentation "Set the protocol of CONTEXT to PROTOCOL."))

;;; FIXME: Adjust translator to reject invalid protocols. Currently,
;;; specifying an invalid protocol throws a "NIL is not 32 signed int"
;;; error. This is suboptimal.
(defmethod (setf protocol) (protocol (ctx context))
  (gpgme-set-protocol ctx protocol))

;;; The context type: Accessor functions: Armor.
;;; FIXME: Is it good style to make foop setf-able? Or should it be
;;; foo/foop for set/get?

(defgeneric armorp (ctx)
  (:documentation "Get the armor flag of CONTEXT."))

(defmethod armorp ((ctx context))
  (gpgme-armor-p ctx))

(defgeneric (setf armorp) (armor ctx)
  (:documentation "Set the armor flag of CONTEXT to ARMOR."))

(defmethod (setf armorp) (armor (ctx context))
  (gpgme-set-armor ctx armor))

;;; The context type: Accessor functions: Textmode.
;;; FIXME: Is it good style to make foop setf-able? Or should it be
;;; foo/foop for set/get?

(defgeneric textmodep (ctx)
  (:documentation "Get the text mode flag of CONTEXT."))

(defmethod textmodep ((ctx context))
  (gpgme-textmode-p ctx))

(defgeneric (setf textmodep) (textmode ctx)
  (:documentation "Set the text mode flag of CONTEXT to TEXTMODE.")
  (gpgme-set-textmode ctx textmode))
(defmethod (setf textmodep) (textmode (ctx context))
  (gpgme-set-textmode ctx textmode))

;;; The context type: Accessor functions: Include Certs.

(defun include-certs (ctx)
  (gpgme-get-include-certs ctx))

(defun (setf include-certs) (certs ctx)
  (gpgme-set-include-certs ctx certs))

;;; The context type: Accessor functions: Engine info.

(defun engine-info (ctx)
  (gpgme-get-engine-info ctx))

(defun (setf engine-info) (info ctx)
  (dolist (proto '(:openpgp :cms))
    (let ((pinfo (getf info proto)))
      (when pinfo
        (gpgme-set-engine-info ctx proto :file-name (getf pinfo :file-name)
          :home-dir (getf pinfo :home-dir))))))

;;; The context type: Accessor functions: Keylist mode.

(defun keylist-mode (ctx)
  (gpgme-get-keylist-mode ctx))

(defun (setf keylist-mode) (mode ctx)
  (gpgme-set-keylist-mode ctx))
;;; The context type: Accessor functions: Signers.

(defun signers (ctx)
  (?documentation "Get the signers of CTX.")
)

(defun signers (ctx)
  (slot-value ctx 'signers)
)

(defun (setf signers) (context
ters ctx)
  (?documentation "Set the signers of CTX to SIGNERS.")
)

(defun (setf signers) (context
ters ctx)
  (gpgme-set-signers ctx signers)
  (setf (slot-value ctx 'signers) signers)
)

;;; The context type: Accessor functions: Sig notations.

(defun sig-notations (ctx)
  (?documentation "Get the signature notations of CTX.")
)

(defun sig-notations (ctx)
  (slot-value ctx 'signers)
)

(defun (setf sig-notations) (notations ctx)
  (?documentation "Set the signature notations of CTX to NOTATIONS.")
)

(defun (setf sig-notations) (notations ctx)
  (gpgme-set-signers ctx notations)
  (setf (slot-value ctx 'notations) notations)
)

;;; The context type: Support macros.

(defun with-context ((ctx &rest rest) &body body)
  `(let ((,ctx (make-instance 'context ,@rest)))
      ,@body))

;;; The key type.

(defun class key ()
  (c-key) ; The C key object pointer.
  (?documentation "The GPGME key type.")
)

(defun initialize-instance :after ((key key) &key c-key
  &allow-other-keys)
(setf (slot-value key 'c-key) c-key)
(finalize key (lambda () (gpgme-key-unref c-key))))

(defun translate-gpgme-key-t-from-foreign (value)
  (when *debug* (format t "DEBUG: import key: ~A~%" value))
  (make-instance 'key :c-key value))

(defun translate-gpgme-key-t-to-foreign (value)
  ;; Allow a pointer to be passed directly for the finalizer to work.
  (if (pointerp value) value (slot-value value 'c-key)))

(defmethod print-object ((key key) stream)
  (print-unreadable-object (key stream :type t :identity t)
    (format stream "~s" (fpr key))))

;;; The key type: Accessor functions.

;;; FIXME: The bitfield and flags contain redundant information at
;;; this point.  FIXME: Deal nicer with zero-length name (policy url)
;;; and zero length value (omit?) and human-readable (convert to string).
;;; FIXME: Turn binary data into sequence or vector or what it should be.
;;; FIXME: Turn the whole thing into a hash?
(defun translate-gpgme-sig-notation-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((next name value name-len value-len flags bitfield)
       value (:struct gpgme-sig-notation))
      (append (list (list
                    :name name
                    :value value
                    :name-len name-len
                    :value-len value-len
                    :flags flags
                    :bitfield bitfield))
               next))))

;;; FIXME: Deal nicer with timestamps.  bitfield field name?
(defun translate-gpgme-subkey-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((next bitfield pubkey-algo length keyid fpr timestamp expires)
       value (:struct gpgme-subkey))
      (append (list (list
                     :bitfield bitfield
                     :pubkey-algo pubkey-algo
                     :length length
                     :expires expires
                     :timestamp timestamp
                     :length length
                     :pubkey-algo pubkey-algo
                     :keyid keyid
                     :bitfield bitfield))
             next)))))

(defun translate-gpgme-key-t-from-foreign (value)
  (when *debug* (format t "DEBUG: import key: ~A~%" value))
  (make-instance 'key :c-key value))

(defun translate-gpgme-key-t-to-foreign (value)
  ;; Allow a pointer to be passed directly for the finalizer to work.
  (if (pointerp value) value (slot-value value 'c-key)))

(defmethod print-object ((key key) stream)
  (print-unreadable-object (key stream :type t :identity t)
    (format stream "~s" (fpr key))))

;;; The key type: Accessor functions.

;;; FIXME: The bitfield and flags contain redundant information at
;;; this point.  FIXME: Deal nicer with zero-length name (policy url)
;;; and zero length value (omit?) and human-readable (convert to string).
;;; FIXME: Turn binary data into sequence or vector or what it should be.
;;; FIXME: Turn the whole thing into a hash?
(defun translate-gpgme-sig-notation-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((next name value name-len value-len flags bitfield)
       value (:struct gpgme-sig-notation))
      (append (list (list
                    :name name
                    :value value
                    :name-len name-len
                    :value-len value-len
                    :flags flags
                    :bitfield bitfield))
               next))))

;;; FIXME: Deal nicer with timestamps.  bitfield field name?
(defun translate-gpgme-subkey-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((next bitfield pubkey-algo length keyid fpr timestamp expires)
       value (:struct gpgme-subkey))
      (append (list (list
                     :bitfield bitfield
                     :pubkey-algo pubkey-algo
                     :length length
                     :expires expires
                     :timestamp timestamp
                     :length length
                     :pubkey-algo pubkey-algo
                     :keyid keyid
                     :bitfield bitfield))
             next))))
(defun translate-gpgme-key-sig-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        (next bitfield pubkey-algo keyid timestamp expires status
        uid name email comment sig-class)
        value (:struct gpgme-key-sig))
     (append (list (list :
                   bitfield bitfield :
                   pubkey-algo pubkey-algo :
                   keyid keyid :
                   timestamp timestamp :
                   expires expires :
                   status status :
                   uid uid :
                   name name :
                   email email :
                   comment comment :
                   sig-class sig-class))
    next)))))

(defun translate-gpgme-user-id-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        (next bitfield validity uid name email comment signatures)
        value (:struct gpgme-user-id))
     (append (list (list :
                   bitfield bitfield :
                   validity validity :
                   uid uid :
                   name name :
                   email email :
                   comment comment :
                   signatures signatures))
    next)))))

(defun translate-gpgme-key-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        (next bitfield protocol issuer-serial issuer-name chain-id
        owner-trust subkeys uids keylist-mode)
        value (:struct gpgme-key))
     (append (list (list :
                   bitfield protocol :
                   issuer-serial issuer-name :
                   chain-id chain-id :
                   owner-trust owner-trust :
                   subkeys subkeys :
                   uids uids :
                   keylist-mode keylist-mode))
    next)))))
(defgeneric fpr (key)
  (:documentation "Get the primary fingerprint of the key.")
)

(defmethod fpr ((key key))
  (getf (car (getf (key-data key) :subkeys)) :fpr))

;;; The context type: Crypto-Operations.

(defgeneric get-key (ctx fpr &optional secret)
  (:documentation "Get the (secret) key FPR from CTX.")
)

(defmethod get-key ((ctx context) fpr &optional secret)
  (gpgme-get-key ctx fpr secret))

;;; Encrypt.

(defgeneric op-encrypt (ctx recp plain cipher &key always-trust sign)
  (:documentation "Encrypt.")
)

(defmethod op-encrypt ((ctx context) recp plain cipher
  &key always-trust sign)
  (with-foreign-object (c-recp :pointer (+ 1 (length recp)))
    (dotimes (i (length recp))
      (setf (mem-aref c-recp :gpgme-key-t i) (elt recp i)))
    (setf (mem-aref c-recp :pointer (length recp)) (null-pointer))
    (with-gpgme-data (in plain)
      (with-gpgme-data (out cipher)
        (let ((flags))
          (if always-trust (push :always-trust flags))
          (cond
            (sign
              (c-gpgme-op-encrypt-sign ctx c-recp flags in out)
              (append (c-gpgme-op-encrypt-result ctx))})
          )
        )
      )
    )
  )
)
(c-gpgme-op-sign-result ctx)))
(t
(c-gpgme-op-encrypt ctx c-recp flags in out)
(c-gpgme-op-encrypt-result ctx)))))))))

;;; Decrypt.

(defun op-decrypt (ctx cipher plain &key verify)
  (:documentation "Decrypt.")
  (with-gpgme-data (in cipher)
    (with-gpgme-data (out plain)
      (cond
        (verify
          (c-gpgme-op-decrypt-verify ctx in out)
          (append (c-gpgme-op-decrypt-result ctx)
            (c-gpgme-op-verify-result ctx)))
        (t
          (c-gpgme-op-decrypt ctx in out)
          (c-gpgme-op-decrypt-result ctx))))

;;; Signing.

(defun op-sign (ctx plain sig &optional mode)
  (:documentation "Sign.")
  (with-gpgme-data (in plain)
    (with-gpgme-data (out sig)
      (c-gpgme-op-sign ctx in out mode)
      (c-gpgme-op-sign-result ctx)))

;;; Verify.

(defun op-verify (ctx sig text &key detached)
  (:documentation "Verify.")
  (with-gpgme-data (in sig)
    (with-gpgme-data (on text)
      (c-gpgme-op-verify ctx in (if detached on nil)
        (if detached nil on)
        (c-gpgme-op-verify-result ctx))))

;;; Import.

(defun op-import (ctx keydata)
(defmethod op-import ((ctx context) keydata)
  (with-gpgme-data (in keydata)
    (c-gpgme-op-import ctx in)
    (c-gpgme-op-import-result ctx)))

;;; Export.

(defgeneric op-export (ctx pattern keydata)
  (:documentation "Export public key data matching PATTERN to the stream KEYDATA."
  (defmethod op-export ((ctx context) pattern keydata)
    (with-gpgme-data (dh keydata)
      (c-gpgme-op-export ctx pattern 0 dh)))

;;; Key generation.

;;; Initialization

(defun check-version (&optional req-version)
  "Check that the GPGME version requirement is satisfied."
  (gpgme-check-version req-version))

(defparameter *version* (check-version)
  "The version number of GPGME used.")

(*H
0k10UDE10U
Dsseldorf10U
g10 Code GmbH H10U Aegypten Project10U Test cert 10
011203093638Z
021203093638Z0k10UDE10U
Dsseldorf10U
g10 Code GmbH H10U Aegypten Project10U Test cert 100
*H
from __future__ import absolute_import
import cython
import gpg
c = gpg.Context()
seckey = c.keylist(pattern=None, secret=True)
pubkey = c.keylist(pattern=None, secret=False)
seclist = list(seckey)

-----BEGIN PGP PUBLIC KEY BLOCK-----

-----END PGP PUBLIC KEY BLOCK-----

import gpg

c = gpg.Context()

seckey = c.keylist(pattern=None, secret=True)
pubkey = c.keylist(pattern=None, secret=False)

seclist = list(seckey)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

if cython.compiled is True:
    cc = "Powered by Cython compiled C code."
else:
    cc = "Powered by Python."

print("{}
    Number of secret keys:  {0}
    Number of public keys:  {1}
{}
".format(secnum, pubnum, cc))

This is gpgme.info, produced by makeinfo version 6.3 from gpgme.texi.

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INFO-DIR-SECTION GNU Libraries
START-INFO-DIR-ENTRY
* GPGME: (gpgme). Adding support for cryptography to your program.
END-INFO-DIR-ENTRY

This file documents the GPGME library.

This is Edition 1.12.1-beta100, last updated 3 December 2018, of The

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The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.

** In the beginning

In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG. Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

** Keeping the flame alive

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

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** Passing the torch

The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.
In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he became the new maintainer for PyME, releasing version 0.9.0 in May of that year. He remains the maintainer of the original PyME release in Python 2.6 and 2.7 (available via PyPI).

** Coming full circle

In 2015 Ben McGinnes approached Martin about a Python 3 version, while investigating how complex a task this would be the task ended up being completed. A subsequent discussion with Werner Koch led to the decision to fold the Python 3 port back into the original GPGME release in the languages subdirectory for non-C bindings under the module name of =pyme3=.

In 2016 this PyME module was integrated back into the GPGME project by Justus Winter. During the course of this work Justus adjusted the port to restore limited support for Python 2, but not as many minor point releases as the original PyME package supports. During the course of this integration the package was renamed to more accurately reflect its status as a component of GPGME. The =pyme3= module was renamed to =gpg= and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this Ben returned to maintain of gpgme Python bindings and continue building them from that point.

* Relics of the past

There are a few things, in addition to code specific factors, such as SWIG itself, which are worth noting here.

** The Annoyances of Git
As anyone who has ever worked with git knows, submodules are horrible way to deal with pretty much anything. In the interests of avoiding migraines, that was skipped with addition of the PyME code to GPGME.

Instead the files were added to a subdirectory of the =lang/= directory, along with a copy of the entire git log up to that point as a separate file within the =lang/python/docs/= directory.[fn:2]

As the log for PyME is nearly 100KB and the log for GPGME is approximately 1MB, this would cause considerable bloat, as well as some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the files. A regular repository version has been maintained should it be possible to implement this better in the future.

** The Perils of PyPI

The early port of the Python 2 =pyme= module as =pyme3= was never added to PyPI while the focus remained on development and testing during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from =pyme3= to =gpg=, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME libraries in order to function, it was determined that there was little benefit in also providing a copy through PyPI since anyone obtaining the GPGME source code would obtain the Python bindings source code at the same time. Whereas there was the potential to sew confusion amongst Python users installing the module from PyPI, only to discover that without the relevant C files, header files or SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI which might turn up in a search for this module or a sample of its content:

1. gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library
2. pyme (0.9.0) - Python support for GPGME GnuPG cryptography library

*** GPG 180 - Python bindings for GPGME GnuPG cryptography library

There are only two files on PyPI which might turn up in a search for this module or a sample of its content:

1. gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library
2. pyme (0.9.0) - Python support for GPGME GnuPG cryptography library
This is the most recent version to reach PyPI and is the version of the official Python bindings which shipped with GPGME 1.8.0. If you have GPGME 1.8.0 installed and /only/ 1.8.0 installed, then it is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME 1.8.0, the GnuPG Project recommends not using this version of the module and instead installing the current version of GPGME along with the Python bindings included with that package.

*** PyME 090 - Python support for GPGME GnuPG cryptography library

This is the last release of the PyME bindings maintained by Martin Albrecht and is only compatible with Python 2, it will not work with Python 3. This is the version of the software from which the port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous points of similarity, but also significant differences. It is likely that the more recent official bindings will feel "more pythonic."

For those using Python 2, there is essentially no harm in using this module, but it may lack a number of more recent features added to GPGME.

* Footnotes

[fn:1] In all likelihood this would have been Python 2.2 or possibly Python 2.3.

[fn:2] The entire PyME git log and other preceding VCS logs are located in the =gpgme/lang/python/docs/old-commits.log= file.

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2008-11-08 Moritz <moritz@gnu.org>
* gpgme.lisp (size-t): Wrong call to defctype: function accepts
optional, not keyword argument.
(ssize-t): Likewise.
(off-t): Likewise.
(gpgme-data-t, gpgme-ctx-t): Likewise.
(gpgme-error-t): Likewise.
(gpgme-error-no-signal-t): Likewise.
(gpgme-err-code-t): Likewise.
(gpgme-err-source-t): Likewise.
(gpgme-sig-notation-t, gpgme-engine-info-t): Likewise.
(gpgme-subkey-t): Likewise.
(gpgme-key-sig-t): Likewise.
(gpgme-user-id-t): Likewise.
(gpgme-key-t): Likewise.
(gpgme-data-cbs-t): Likewise.
(gpgme-invalid-key-t): Likewise.
(gpgme-op-encrypt-result-t): Likewise.
(gpgme-recipient-t): Likewise.
(gpgme-op-decrypt-result-t): Likewise.
(gpgme-new-signature-t): Likewise.
(gpgme-op-sign-result-t): Likewise.
(gpgme-signature-t): Likewise.
(gpgme-op-verify-result-t): Likewise.
(gpgme-import-status-t): Likewise.
(gpgme-op-import-result-t): Likewise.
(gpgme-op-genkey-result-t): Likewise.
(gpgme-op-keylist-result-t): Likewise.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

* Initial release.

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unlimited permission to copy and/or distribute it, with or without
modifications, as long as this notice is preserved.

This file is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY, to the extent permitted by law; without even the
implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

* How to contribute
** No more ChangeLog files
Do not modify any of the ChangeLog files in GPGME. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist" time. As such, there are strict requirements on the form of the commit log messages. The old ChangeLog files have all be renamed to ChangeLog-2011

** Commit log requirements

Your commit log should always start with a one-line summary, the second line should be blank, and the remaining lines are usually ChangeLog-style entries for all affected files. However, it's fine -- even recommended -- to write a few lines of prose describing the change, when the summary and ChangeLog entries don't give enough of the big picture. Omit the leading TABs that you're used to seeing in a "real" ChangeLog file, but keep the maximum line length at 72 or smaller, so that the generated ChangeLog lines, each with its leading TAB, will not exceed 80 columns. If you want to add text which shall not be copied to the ChangeLog, separate it by a line consisting of two dashes at the begin of a line.

Note that ./autogen.sh installs a git hook to do some basic syntax checking on the commit log message.

Typo fixes and documentation updates don't need a ChangeLog entry; thus you would use a commit message like

```
#+begin_example
Fix typo in a comment
--
#+end_example
```

The marker line here is important; without it the first line would appear in the ChangeLog.

If you exceptionally need to have longer lines in a commit log you may do this after this scissor line:

```
#+begin_example
# ------------------------ >8 ------------------------
#+end_example
```

(hash, blank, 24 dashes, blank, scissor, blank, 24 dashes).
Note that such a comment will be removed if the git commit option =--cleanup-scissor= is used.

** License policy
GPGME is currently licensed under the LGPLv2.1+ with tools and the manual being under the GPLv3+. We may eventually update to a newer version of the licenses or a combination of them. It is thus important, that all contributed code allows for an update of the license; for example we can't accept code under the LGPLv2(only).

If you want to contribute code or documentation to GPGME you are asked to assert that the contribution is in accordance to the "GPGME Developer's Certificate of Origin" as found in the file "DCO". Except for a slight wording change, this DCO is identical to the one used by the Linux kernel. Please take these simple steps:

- Decide which mail address you want to use. Please have your real name in the address and not a pseudonym. Anonymous contributions can only be done if you find a proxy who certifies for you.

- If your employer or school might claim ownership of code written by you; you need to talk to them to make sure that you have the right to contribute under the DCO.

- Send an OpenPGP signed mail to the gnupg-devel@gnupg.org public mailing list from your mail address. Include a copy of the DCO as found in the official master branch. Insert your name and email address into the DCO in the same way you want to use it later. Example:

  Signed-off-by: Joe R. Hacker <joe@example.org>

  If you need it, you may perform simple transformations on the mail address: Replacing "@" by " at " or "." by " dot ".

- That's it. From now on you only need to add a "Signed-off-by:" line with your name and mail address to the GIT commit message. It is recommended to send the patches using a PGP/MIME signed mail.

** Coding standards

Please follow the GNU coding standards. If you are in doubt consult the existing code as an example. Do no re-indent code without a need. If you really need to do it, use a separate commit for such a change.

- C99 syntax should not be used; stick to C90.
- Please do not use C++ =/== style comments.
- Try to fit lines into 80 columns.
- Ignore signed/unsigned pointer mismatches
- No arithmetic on void pointers; cast to char* first.
** Commit log keywords

- GnuPG-bug-id :: Values are comma or space delimited bug numbers from bug.gnupg.org pertaining to this commit.
- Debian-bug-id :: Same as above but from the Debian bug tracker.
- CVE-id :: CVE id number pertaining to this commit.
- Regression-due-to :: Commit id of the regression fixed by this commit.
- Fixes-commit :: Commit id this commit fixes.
- Reported-by :: Value is a name or mail address of a bug reporter.
- Suggested-by :: Value is a name or mail address of someone how suggested this change.
- Co-authored-by :: Name or mail address of a co-author
- Some-comments-by :: Name or mail address of the author of additional comments (commit log or code).
- Proofread-by :: Sometimes used by translation commits.
- Signed-off-by :: Name or mail address of the developer

* Debug hints

- Use gpgme-tool for manual tests.
- The envvar GPGME_DEBUG enables debugging; see debug.[ch] for details.

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-04-06 Werner Koch <wk@g10code.com>

* gpg-error.m4: Update from current libgpg-error repo.

2010-05-07 Werner Koch <wk@g10code.com>

* libassuan.m4: Update from libassuan svn.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* libassuan.m4: Fix LIBASSUAN_VERSION.

2006-06-08 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Add --all to pth-config invocation.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>
* pth.m4: Fix code generation (required for Max OS X).
Submitted by Emanuele Giaquinta <exg@gentoo.org>.
2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* glib-2.0.m4: New file.
2004-12-28 Werner Koch <wk@g10code.com>

* pth.m4: Changed quoting for use with automake 1.9.
2004-09-14 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Disable _ac_pth_line, and don't fail if Pth is not found.

* gpg-error.m4: New file.
* pth.m4: New file.


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This file is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, to the extent permitted by law; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. Configuration files may go here. Note that config.h.in is auto-generated so that this file is not in git.

GPGME Developer's Certificate of Origin. Version 1.0
===================================================================
By making a contribution to the GPGME project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the free software license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate free
(a) I certify that all contributions submitted by me to this project (whether created in whole or in part by me) are covered under this free software license, and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same free software license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the free software license(s) involved.

Signed-off-by: [Your name and mail address]
* Miscellaneous extras and work-arounds::
* Copyright and Licensing::

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What's New

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* Difference between the Python bindings and other GnuPG Python packages::

Difference between the Python bindings and other GnuPG Python packages

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* The gnupg package created and maintained by Isis Lovecruft::
* The PyME package maintained by Martin Albrecht::

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Keyserver access for Python

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Copyright and Licensing

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* License GPL compatible::

@end detailmenu
@end menu

@node Introduction
@chapter Introduction
This document provides basic instruction in how to use the GPGME Python bindings to programmatically leverage the GPGME library.

Though the GPGME Python bindings themselves provide support for both Python 2 and 3, the focus is unequivocally on Python 3 and specifically from Python 3.4 and above. As a consequence all the examples and instructions in this guide use Python 3 code.

Much of it will work with Python 2, but much of it also deals with Python 3 byte literals, particularly when reading and writing data. Developers concentrating on Python 2.7, and possibly even 2.6, will need to make the appropriate modifications to support the older string and unicode types as opposed to bytes.

There are multiple reasons for concentrating on Python 3; some of which relate to the immediate integration of these bindings, some of which relate to longer term plans for both GPGME and the python bindings and some of which relate to the impending EOL period for Python 2.7. Essentially, though, there is little value in tying the bindings to a version of the language which is a dead end and the advantages offered by Python 3 over Python 2 make handling the data types with which GPGME deals considerably easier.
All of the examples found in this document can be found as Python 3 scripts in the `lang/python/examples/howto` directory.

In addition to shipping with each release of GPGME, there is a section on locations to read or download Draft Editions of this HOWTO, at the end of it. These are unofficial versions produced in between major releases.

Full details of what is new are now available in the `what-is-new.org` file and archives of the preceding sections are available in the `what-was-new` file.

See the `what-is-new#new-stuff-1-13-0` document for what is new in version 1.13.0.

See the `what-was-new#new-stuff-1-12-0` document for what was new in version 1.12.0.
Unlike many modern APIs with which programmers will be more familiar with these days, the GPGME API is a C API. The API is intended for use by C coders who would be able to access its features by including the @samp{gpgme.h} header file with their own C source code and then access its functions just as they would any other C headers.

This is a very effective method of gaining complete access to the API and in the most efficient manner possible. It does, however, have the drawback that it cannot be directly used by other languages without some means of providing an interface to those languages. This is where the need for bindings in various languages stems.

Python bindings

The Python bindings for GPGME provide a higher level means of accessing the complete feature set of GPGME itself. It also provides a more pythonic means of calling these API functions.

The bindings are generated dynamically with SWIG and the copy of @samp{gpgme.h} generated when GPGME is compiled.

This means that a version of the Python bindings is fundamentally tied to the exact same version of GPGME used to generate that copy of @samp{gpgme.h}.

Difference between the Python bindings and other GnuPG Python packages

There have been numerous attempts to add GnuPG support to Python over the years. Some of the most well known are listed here, along with what differentiates them.

* The python-gnupg package maintained by Vinay Sajip:
* The gnupg package created and maintained by Isis Lovecrutf:
* The PyME package maintained by Martin Albrecht:

This is arguably the most popular means of integrating GPG with Python. The package utilises the @samp{subprocess} module to implement wrappers for the @samp{gpg} and @samp{gpg2} executables normally invoked on the command line (@samp{gpg.exe} and @samp{gpg2.exe} on Windows).

The popularity of this package stemmed from its ease of use and
capability in providing the most commonly required features.

Unfortunately it has been beset by a number of security issues in the past; most of which stemmed from using unsafe methods of accessing the command line via the `subprocess` calls. While some effort has been made over the last two to three years (as of 2018) to mitigate this, particularly by no longer providing shell access through those subprocess calls, the wrapper is still somewhat limited in the scope of its GnuPG features coverage.

The python-gnupg package is available under the MIT license.

In 2015 Isis Lovecruft from the Tor Project forked and then re-implemented the python-gnupg package as just gnupg. This new package also relied on subprocess to call the `gpg` or `gpg2` binaries, but did so somewhat more securely.

The naming and version numbering selected for this package, however, resulted in conflicts with the original python-gnupg and since its functions were called in a different manner to python-gnupg, the release of this package also resulted in a great deal of consternation when people installed what they thought was an upgrade that subsequently broke the code relying on it.

The gnupg package is available under the GNU General Public License version 3.0 (or any later version).

This package is the origin of these bindings, though they are somewhat different now. For details of when and how the PyME package was folded back into GPGME itself see the document.footnote{ short-history.org, Short History } The PyME package was first released in 2002 and was also the first attempt to implement a low level binding to GPGME. In doing so it provided access to considerably more functionality than either the `python-gnupg` or `gnupg` packages.

The PyME package is only available for Python 2.6 and 2.7.

Porting the PyME package to Python 3.4 in 2015 is what resulted in it being folded into the GPGME project and the current bindings are the end result of that effort.
The PyME package is available under the same dual licensing as GPGME itself: the GNU General Public License version 2.0 (or any later version) and the GNU Lesser General Public License version 2.1 (or any later version).

@node GPGME Python bindings installation
@chapter GPGME Python bindings installation

@menu
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  * Requirements::
  * Installation::
  * Known Issues::
@end menu

@node No PyPI
@section No PyPI

Most third-party Python packages and modules are available and distributed through the Python Package Installer, known as PyPI.

Due to the nature of what these bindings are and how they work, it is infeasible to install the GPGME Python bindings in the same way.

This is because the bindings use SWIG to dynamically generate C bindings against @samp{gpgme.h} and @samp{gpgme.h} is generated from @samp{gpgme.h.in} at compile time when GPGME is built from source. Thus to include a package in PyPI which actually built correctly would require either statically built libraries for every architecture bundled with it or a full implementation of C for each architecture.

See the additional notes regarding @ref{CFFI is the Best and GPGME should use it instead of SWIG, , CFFI and SWIG} at the end of this section for further details.

@node Requirements
@section Requirements

The GPGME Python bindings only have three requirements:

@enumerate
@item
@item
A suitable version of Python 2 or Python 3. With Python 2 that means CPython 2.7 and with Python 3 that means CPython 3.4 or higher.
@item
@uref{https://www.swig.org, SWIG}.
GPGME itself. Which also means that all of GPGME’s dependencies must be installed too.

Recommended Additions

Though none of the following are absolute requirements, they are all recommended for use with the Python bindings. In some cases these recommendations refer to which version(s) of CPython to use the bindings with, while others refer to third party modules which provide a significant advantage in some way.

If possible, use Python 3 instead of 2.

Favour a more recent version of Python since even 3.4 is due to reach EOL soon. In production systems and services, Python 3.6 should be robust enough to be relied on.

If possible add the following Python modules which are not part of the standard library: Requests, Cython, Pendulum and hkp4py. Chances are quite high that at least the first one and maybe two of those will already be installed.

Note that, as with Cython, some of advanced use case scenarios will bring with them additional requirements. Most of these will be fairly well known and commonly installed ones, however, which are in many cases likely to have already been installed on many systems or be familiar to Python programmers.

Installing the Python bindings is effectively achieved by compiling and installing GPGME itself.

Once SWIG is installed with Python and all the dependencies for GPGME
are installed you only need to confirm that the version(s) of Python you want the bindings installed for are in your `@samp{$PATH}`.

By default GPGME will attempt to install the bindings for the most recent or highest version number of Python 2 and Python 3 it detects in `@samp{$PATH}`. It specifically checks for the `@samp{python}` and `@samp{python3}` executables first and then checks for specific version numbers.

For Python 2 it checks for these executables in this order: `@samp{python}`, `@samp{python2}` and `@samp{python2.7}`.

For Python 3 it checks for these executables in this order: `@samp{python3}`, `@samp{python3.7}`, `@samp{python3.6}`, `@samp{python3.5}` and `@samp{python3.4}`.  

With no issues reported specific to Python 3.7, the release of Python 3.7.1 at around the same time as GPGME 1.12.0 and the testing with Python 3.7.1rc1, there is no reason to delay moving 3.7 ahead of 3.6 now.  Production environments with more conservative requirements will always enforce their own policies anyway and installation to each supported minor release is quite possible too.

On systems where `@samp{python}` is actually `@samp{python3}` and not `@samp{python2}` it may be possible that `@samp{python2}` may be overlooked, but there have been no reports of that actually occurring as yet.

In the three months or so since the release of Python 3.7.0 there has been extensive testing and work with these bindings with no issues specifically relating to the new version of Python or any of the new features of either the language or the bindings. This has also been the case with Python 3.7.1rc1. With that in mind and given the release of Python 3.7.1 is scheduled for around the same time as GPGME 1.12.0, the order of preferred Python versions has been changed to move Python 3.7 ahead of Python 3.6.

See the GPGME `@samp{README}` file for details of how to install GPGME from source.

There are a few known issues with the current build process and the Python bindings. For the most part these are easily addressed should
they be encountered.

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@end menu

@node Breaking Builds
@subsection Breaking Builds

Occasionally when installing GPGME with the Python bindings included
it may be observed that the @samp{make} portion of that process induces a
large very number of warnings and, eventually errors which end that
part of the build process. Yet following that with @samp{make check} and
@samp{make install} appears to work seamlessly.

The cause of this is related to the way SWIG needs to be called to
dynamically generate the C bindings for GPGME in the first place. So
the entire process will always produce @samp{lang/python/python2-gpg/} and
@samp{lang/python/python3-gpg/} directories. These should contain the
build output generated during compilation, including the complete
bindings and module installed into @samp{site-packages}.

Occasionally the errors in the early part or some other conflict
(e.g. not installing as @strong[@emph{root} ] or @strong[@emph{su} ]) may result in nothing
being installed to the relevant @samp{site-packages} directory and the
build directory missing a lot of expected files. Even when this
occurs, the solution is actually quite simple and will always work.

That solution is simply to run the following commands as either the
@strong{root} user or prepended with @samp{sudo -H} @footnote{Yes, even if you use virtualenv with everything
you do in
Python. If you want to install this module as just your user account
then you will need to manually configure, compile and install the
@emph{entire} GnuPG stack as that user as well. This includes libraries
which are not often installed that way. It can be done and there are
circumstances under which it is worthwhile, but generally only on
POSIX systems which utilise single user mode (some even require it).} in the @samp{lang/python/}
directory:

@example
/path/to/pythonXY setup.py build
/path/to/pythonX.Y setup.py build
/path/to/pythonX.Y setup.py install
@end example

Yes, the build command does need to be run twice. Yes, you still need to run the potentially failing or incomplete steps during the @samp{configure}, @samp{make} and @samp{make install} steps with installing GPGME. This is because those steps generate a lot of essential files needed, both by and in order to create, the bindings (including both the @samp{setup.py} and @samp{gpgme.h} files).

@example
@end example

@enumerate
@item
IMPORTANT Note
@end enumerate

If specifying a selected number of languages to create bindings for, try to leave Python last. Currently the majority of the other language bindings are also preceding Python of either version when listed alphabetically (not counting the Qt bindings).

If Python is set to precede one of the other languages then it is possible that the errors described here may interrupt the build process before generating bindings for those other languages. In these cases it may be preferable to configure all preferred language bindings separately with alternative @samp{configure} steps for GPGME using the @samp{--enable-languages=$LANGUAGE} option.

Alternatively @samp{make} (or @samp{gmake}, depending on your platform) may be run with the the @samp{-k} option, which tells make to keep going even if errors are encountered. In that case the failure of one language's set of bindings to build should not hamper another language's bindings to build.
@end enumerate

@node Reinstalling Responsibly
@subsection Reinstalling Responsibly

Regardless of whether you're installing for one version of Python or several, there will come a point where reinstallation is required. With most Python module installations, the installed files go into the relevant site-packages directory and are then forgotten about. Then the module is upgraded, the new files are copied over the old and that's the end of the matter.

While the same is true of these bindings, there have been intermittent issues observed on some platforms which have benefited significantly from removing all the previous installations of the bindings before installing the updated versions.
Removing the previous version(s) is simply a matter of changing to the relevant @samp{site-packages} directory for the version of Python in question and removing the @samp{gpg/} directory and any accompanying egg-info files for that module.

In most cases this will require root or administration privileges on the system, but the same is true of installing the module in the first place.

@node Multiple installations
@section Multiple installations

For a variety of reasons it may be either necessary or just preferable to install the bindings to alternative installed Python versions which meet the requirements of these bindings.

On POSIX systems this will generally be most simply achieved by running the manual installation commands (build, build, install) as described in the previous section for each Python installation the bindings need to be installed to.

As per the SWIG documentation: the compilers, libraries and runtime used to build GPGME and the Python Bindings @strong{must} match those used to compile Python itself, including the version number(s) (at least going by major version numbers and probably minor numbers too).

On most POSIX systems, including OS X, this will very likely be the case in most, if not all, cases.

Note that from GPGME @uref{https://dev.gnupg.org/rMffe6ff616aea6f59b7f2ce1176492850ecdf3851e, 1.12.1} the default installation installs to each version of Python it can find first. That is that it will currently install for the first copies of Python versions 2.7, 3.4, 3.5, 3.6, 3.7 and 3.8 (dev branch) that it finds. Usually this will be in the same prefix as GPGME itself, but is dictated by the @samp{$PATH} when the installation is performed. The above instructions can still be performed on other python installations which the installer does not find, including alternative prefixes.

@node Won't Work With Windows
@section Won't Work With Windows

There are semi-regular reports of Windows users having considerable difficulty in installing and using the Python bindings at all. Very often, possibly even always, these reports come from Cygwin users and/or MinGW users and/or Msys2 users. Though not all of them have been confirmed, it appears that these reports have also come from
people who installed Python using the Windows installer files from the Python website (i.e. mostly MSI installers, sometimes self-extracting .exe files).

The Windows versions of Python are not built using Cygwin, MinGW or Msys2; they're built using Microsoft Visual Studio. Furthermore the version used is considerably more advanced than the version which MinGW obtained a small number of files from many years ago in order to be able to compile anything at all. Not only that, but there are changes to the version of Visual Studio between some micro releases, though that is particularly the case with Python 2.7, since it has been kept around far longer than it should have been.

There are two theoretical solutions to this issue:

@enumerate
@item
Compile and install the GnuPG stack, including GPGME and the Python bindings using the same version of Microsoft Visual Studio used by the Python Foundation to compile the version of Python installed.

If there are multiple versions of Python then this will need to be done with each different version of Visual Studio used for those versions of Python.

@item
Compile and install Python using the same tools used by choice, such as MinGW or Msys2.
@end enumerate

Do not use the official Windows installer for Python unless following the first method.

In this type of situation it may even be for the best to accept that there are less limitations on permissive software than free software and simply opt to use a recent version of the Community Edition of Microsoft Visual Studio to compile and build all of it, no matter what.

Investigations into the extent or the limitations of this issue are ongoing.

The following table lists the version of Microsoft Visual Studio which needs to be used when compiling GPGME and the Python bindings with each version of the CPython binary released for Windows:

```
@multitable {aaaaaa} {aaaaaaaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaa}
```
It is important to note that MingW and Msys2 ship with the Visual C runtime from Microsoft Visual Studio 2005 and are thus \textit{incompatible} with all the versions of CPython which can be used with the GPGME Python bindings.

It is also important to note that from CPython 3.5 onwards, the Python Foundation has adopted the reworking of the Visual C runtime which was performed for Visual Studio 2015 and aimed at resolving many of these kinds of issues. Much greater detail on these issues and the correct file(s) to link to are available from Matthew Brett's invaluable page, \url{https://matthew-brett.github.io/pydagogue/python_msvc.html}, Using Microsoft Visual C with Python. It is also worth reading the Microsoft Developer Network blog post on \url{http://blogs.msdn.com/b/vcblog/archive/2015/03/03/introducing-the-universal-crt.aspx}, the universal CRT and Steve Dower's blog posts on Python extensions (\url{http://stevedower.id.au/blog/building-for-python-3-5, part 1} and \url{http://stevedower.id.au/blog/building-for-python-3-5-part-two, part 2}).

The second of those two posts by Steve Dower contains the details of specific configuration options required for compiling anything to be used with official CPython releases. In addition to those configuration and compiler settings to use, the versions of Visual Studio prior to Visual Studio 2015 did not support 64-bit systems by default. So compiling a 64-bit version of these bindings for a 64-bit version of CPython 2.7 or 3.4 requires additional work.

In addition to the blog posts, the \url{https://wiki.python.org/moin/WindowsCompilers}, Windows compilers wiki page on the CPython wiki is another essential reference on the relevant versions.
of Visual Studio to use and the degree of compatibility with CPython releases.

Eventually someone will ask why there isn't an installable binary for Windows, which the GPGME of the licenses do not preclude as long as the source code is available in conjunction with such a release.

The sheer number of versions of Visual Studio in conjunction with differing configuration options depending on the target Windows version and whether the architecture is 64-bit or 32-bit makes it difficult to provide a correct binary installer for Windows users. At the bare minimum doing so would require the GnuPG project compile ten different versions of the bindings with each release; both 32-bit and 64-bit versions for CPython 2.7 and 3.4, with 64-bit versions for both x86-64 (i.e. Intel and AMD) and ARM architectures for CPython 3.5, 3.6, 3.7 and later releases. That's the bare minimum, it'd probably be higher.

Additionally, with only a binary installation used in conjunction with the CPython installer from python.org the advanced options available which utilise Cython will not be able to be used at all. Cython depends on being able to compile the C code it generates and that too would need to utilise a matching runtime to both the installed version of CPython and these bindings in order to work with the bindings.

Considering all of that, what do we recommend?

@enumerate
@item Use a recent version of CPython; at least 3.5, but ideally 3.6 or later.
@item Use Visual Studio 2015 or the standalone build tools for Visual Studio 2017 (or later).
@item Compile both CPython and GPGME with these bindings using the tools selected in step 2.
@item Ignore MingW, Msys2 and the official CPython binary installers.
@item Be thankful the answer to this question wasn't simply to say something like, install Linux or install FreeBSD (or even Apple's OS X).
@end enumerate
There are many reasons for favouring CFFI and proponents of it are quite happy to repeat these things as if all it would take to switch from SWIG to CFFI is repeating that list as if it were a new concept.

The fact is that there are things which Python's CFFI implementation cannot handle in the GPGME C code. Beyond that there are features of SWIG which are simply not available with CFFI at all. SWIG generates the bindings to Python using the `gpgme.h` file, but that file is not a single version shipped with each release, it too is generated when GPGME is compiled.

CFFI is currently unable to adapt to such a potentially mutable codebase. If there were some means of applying SWIG's dynamic code generation to produce the Python/CFFI API modes of accessing the GPGME libraries (or the source source code directly), but such a thing does not exist yet either and it currently appears that work is needed in at least one of CFFI's dependencies before any of this can be addressed.

So if you're a massive fan of CFFI; that's great, but if you want this project to switch to CFFI then rather than just insisting that it should, I'd suggest you volunteer to bring CFFI up to the level this project needs.

If you're actually seriously considering doing so, then I'd suggest taking the `gpgme-tool.c` file in the GPGME `src/` directory and getting that to work with any of the CFFI API methods (not the ABI methods, they'll work with pretty much anything). When you start running into trouble with "ifefts" then you'll know what sort of things are lacking. That doesn't even take into account the amount of work saved via SWIG's code generation techniques either.

It is fairly common practice amongst Python developers to, as much as possible, use packages like virtualenv to keep various things that are to be installed from interfering with each other. Given how much of the GPGME bindings is often at odds with the usual pythonic way of doing things, it stands to reason that this would be called into question too.

As it happens the answer as to whether or not the bindings can be used
with virtualenv, the answer is both yes and no.

In general we recommend installing to the relevant path and matching prefix of GPGME itself. Which means that when GPGME, and ideally the rest of the GnuPG stack, is installed to a prefix like @samp{/usr/local} or @samp{/opt/local} then the bindings would need to be installed to the main Python installation and not a virtualised abstraction. Attempts to separate the two in the past have been known to cause weird and intermittent errors ranging from minor annoyances to complete failures in the build process.

As a consequence we only recommend building with and installing to the main Python installations within the same prefix as GPGME is installed to or which are found by GPGME's configuration stage immediately prior to running the make commands. Which is exactly what the compiling and installing process of GPGME does by default.

Once that is done, however, it appears that a copy of the compiled module may be installed into a virtualenv of the same major and minor version matching the build. Alternatively it is possible to utilise a @samp{sites.pth} file in the @samp{site-packages/} directory of a virtualenv installation, which links back to the system installations corresponding directory in order to import anything installed system wide. This may or may not be appropriate on a case by case basis.

Though extensive testing of either of these options is not yet complete, preliminary testing of them indicates that both are viable as long as the main installation is complete. Which means that certain other options normally restricted to virtual environments are also available, including integration with pythonic test suites (e.g. @uref{https://docs.pytest.org/en/latest/index.html, pytest}) and other large projects.

That said, it is worth reiterating the warning regarding non-standard installations. If one were to attempt to install the bindings only to a virtual environment without somehow also including the full GnuPG stack (or enough of it as to include GPGME) then it is highly likely that errors would be encountered at some point and more than a little likely that the build process itself would break.

If a degree of separation from the main operating system is still required in spite of these warnings, then consider other forms of virtualisation. Either a virtual machine (e.g. @uref{https://www.virtualbox.org/, VirtualBox}), a hardware emulation layer (e.g. @uref{https://www.qemu.org/, QEMU}) or an application container (e.g. @uref{https://www.docker.com/why-docker, Docker}).

Finally it should be noted that the limited tests conducted thus far have been using the @samp{virtualenv} command in a new directory to create the virtual python environment. As opposed to the standard @samp{python3
and it is possible that this will make a difference depending on the system and version of Python in use. Another option is to run the command `python3 -m virtualenv /path/to/install/virtual/thingy` instead.

Following installation it is recommended to move the `post_installer.py` script from the `lang/python/examples/howto/` directory to the `lang/python/` directory and run it. This will fix or restore files needed by Sphinx which may be removed during a distribution build for release. It will also generate reST files from Org mode files with Pandoc and generate Texinfo files from Org mode files with GNU Emacs and Org mode (in batch mode). Additionally it will fix the UTF-8 declaration line in the Texinfo files (Emacs expects "UTF-8" to be "utf-8").

Before we can get to the fun stuff, there are a few matters regarding GPGME's design which hold true whether you're dealing with the C code directly or these Python bindings.

The first part of which is or will be fairly blatantly obvious upon viewing the first example, but it's worth reiterating anyway. That being that this API is **not** a REST API. Nor indeed could it ever be one.

Most, if not all, Python programmers (and not just Python programmers) know how easy it is to work with a RESTful API. In fact they've become so popular that many other APIs attempt to emulate REST-like behaviour as much as they are able. Right down to the use of JSON formatted output to facilitate the use of their API without having to retrain developers.

This API does not do that. It would not be able to do that and also provide access to the entire C API on which it's built. It does, however, provide a very pythonic interface on top of the direct
One of the reasons which prevents this API from being RESTful is that most operations require more than one instruction to the API to perform the task. Sure, there are certain functions which can be performed simultaneously, particularly if the result known or strongly anticipated (e.g. selecting and encrypting to a key known to be in the public keybox).

There are many more, however, which cannot be manipulated so readily: they must be performed in a specific sequence and the result of one operation has a direct bearing on the outcome of subsequent operations. Not merely by generating an error either.

When dealing with this type of persistent state on the web, full of both the RESTful and REST-like, it's most commonly referred to as a session. In GPGME, however, it is called a context and every operation type has one.

Selecting keys to encrypt to or to sign with will be a common occurrence when working with GPGMe and the means available for doing so are quite simple.

They do depend on utilising a Context; however once the data is recorded in another variable, that Context does not need to be the same one which subsequent operations are performed.

The easiest way to select a specific key is by searching for that key's key ID or fingerprint, preferably the full fingerprint without any spaces in it. A long key ID will probably be okay, but is not advised and short key IDs are already a problem with some being generated to match specific patterns. It does not matter whether the
pattern is upper or lower case.

So this is the best method:

@example
import gpg

k = gpg.Context().keylist(pattern="258E88DCBD3CD44D8E7AB43F6ECB6AF0DEADBEEF")
keys = list(k)
@end example

This is passable and very likely to be common:

@example
import gpg

k = gpg.Context().keylist(pattern="0x6ECB6AF0DEADBEEF")
keys = list(k)
@end example

And this is a really bad idea:

@example
import gpg

k = gpg.Context().keylist(pattern="0xDEADBEEF")
keys = list(k)
@end example

Alternatively it may be that the intention is to create a list of keys which all match a particular search string. For instance all the addresses at a particular domain, like this:

@example
import gpg

ncsc = gpg.Context().keylist(pattern="ncsc.mil")
nsa = list(ncsc)
@end example

Alternatively it may be that the intention is to create a list of keys which all match a particular search string. For instance all the addresses at a particular domain, like this:

@example
import gpg

ncsc = gpg.Context().keylist(pattern="ncsc.mil")
nsa = list(ncsc)
@end example

Counting the number of keys in your public keybox (`pubring.kbx`), the
format which has superseded the old keyring format (@samp{pubring.gpg} and @samp{secring.gpg}), or the number of secret keys is a very simple task.

@example
import gpg

c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)

seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

print("Number of secret keys: @0@\nNumber of public keys: @1@")
print("\n").format(secnum, pubnum))
@end example

NOTE: The @ref{C plus Python plus SWIG plus Cython, , Cython} introduction in the @ref{Advanced or Experimental Use Cases, , Advanced and Experimental} section uses this same key counting code with Cython to demonstrate some areas where Cython can improve performance even with the bindings. Users with large public keyrings or keyboxes, for instance, should consider these options if they are comfortable with using Cython.

@node Get key
@section Get key

An alternative method of getting a single key via its fingerprint is available directly within a Context with @samp{Context().get_key}. This is the preferred method of selecting a key in order to modify it, sign or certify it and for obtaining relevant data about a single key as a part of other functions; when verifying a signature made by that key, for instance.

By default this method will select public keys, but it can select secret keys as well.

This first example demonstrates selecting the current key of Werner Koch, which is due to expire at the end of 2018:

@example
import gpg

fingerprint = "80615870F5BAD690336866D0F2AD85AC1E42B367"
key = gpg.Context().get_key(fingerprint)
@end example

Whereas this example demonstrates selecting the author's current key
with the @samp{secret} key word argument set to @samp{True}:

@example
import gpg
fingerprint = "DB4724E6FA4286C92B4E55C4321E4E2373590E5D"
key = gpg.Context().get_key(fingerprint, secret=True)
@end example

It is, of course, quite possible to select expired, disabled and
revoked keys with this function, but only to effectively display
information about those keys.

It is also possible to use both unicode or string literals and byte
literals with the fingerprint when getting a key in this way.

@node Importing keys
@section Importing keys

Importing keys is possible with the @samp{key_import()} method and takes
one argument which is a bytes literal object containing either the
binary or ASCII armoured key data for one or more keys.

The following example retrieves one or more keys from the SKS
keyservers via the web using the requests module. Since requests
returns the content as a bytes literal object, we can then use that
directly to import the resulting data into our keybox.

@example
import gpg
import os.path
import requests
c = gpg.Context()
url = "https://sks-keyservers.net/pks/lookup"
pattern = input("Enter the pattern to search for key or user IDs: ")
payload = @{"op": "get", "search": pattern@}

r = requests.get(url, verify=True, params=payload)
result = c.key_import(r.content)

if result is not None and hasattr(result, "considered") is False:
print(result)

if result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_subs = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged

    print(""
        The total number of keys considered for import was:  @{0@}
        Number of keys revoked:  @{1@}
        Number of new signatures:  @{2@}
        Number of new subkeys:  @{3@}
        Number of new user IDs:  @{4@}
        Number of new secret keys:  @{5@}
        Number of unchanged keys:  @{6@}
        
The key IDs for all considered keys were:
    
        ***.format(num_keys, new_revs, new_sigs, new_subs, new_uids, new_scrt,
            nochange))
        for i in range(num_keys):
            print("@{0@}n".format(result.imports[i].fpr))
    
else:
    pass
@end example

NOTE: When searching for a key ID of any length or a fingerprint (without spaces), the SKS servers require the the leading @samp{0x} indicative of hexadecimal be included. Also note that the old short key IDs (e.g. @samp{0xDEADBEEF}) should no longer be used due to the relative ease by which such key IDs can be reproduced, as demonstrated by the Evil32 Project in 2014 (which was subsequently exploited in 2016).

Testing for whether a string in any given search is or may be a hexadecimal value which may be missing the leading @samp{0x} is a simple matter of using a try/except statement which attempts to convert the string as hex to an integer and then back to hex; then using that to search with. Raising a ValueError simply results in treating the string as a string. This is the method and logic utilised in the @samp{import-keys-hkp.py} script (see below).

@menu
* Working with ProtonMail::
* Importing with HKP for Python::
* Importing from ProtonMail with HKP for Python::
Here is a variation on the example above which checks the constrained ProtonMail keyserver for ProtonMail public keys.

```python
import gpg
import requests
import sys

print("This script searches the ProtonMail key server for the specified key and imports it.
***")

c = gpg.Context(armor=True)
url = "https://api.protonmail.ch/pks/lookup"
ksearch = []

if len(sys.argv) >= 2:
    keyterm = sys.argv[1]
else:
    keyterm = input("Enter the key ID, UID or search string: ")

if keyterm.count("@@") == 2 and keyterm.startswith("@@") is True:
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:]
elif keyterm.count("@@") == 1 and keyterm.startswith("@@") is True:
    ksearch.append("@{0}@@@protonmail.com".format(keyterm[1:]))
    ksearch.append("@{0}@@@protonmail.ch".format(keyterm[1:]))
    ksearch.append("@{0}@@@pm.me".format(keyterm[1:]))
elif keyterm.count("@@") == 0:
    ksearch.append("@{0}@@@protonmail.com".format(keyterm))
    ksearch.append("@{0}@@@protonmail.ch".format(keyterm))
    ksearch.append("@{0}@@@pm.me".format(keyterm))
elif keyterm.count("@@") == 2 and keyterm.startswith("@@") is False:
    uidlist = keyterm.split("@@")
    for uid in uidlist:
        ksearch.append("@{0}@@@protonmail.com".format(uid))
        ksearch.append("@{0}@@@protonmail.ch".format(uid))
        ksearch.append("@{0}@@@pm.me".format(uid))
    elif keyterm.count("@@") > 2:
        uidlist = keyterm.split("@@")
        for uid in uidlist:
```

```
ksearch.append("@{0}@protonmail.com".format(uid))
ksearch.append("@{0}@protonmail.ch".format(uid))
ksearch.append("@{0}@pm.me".format(uid))
else:
ksearch.append(keyterm)

for k in ksearch:
payload = @"{op": "get", "search": k}@
try:
r = requests.get(url, verify=True, params=payload)
if r.ok is True:
    result = c.key_import(r.content)
elif r.ok is False:
    result = r.content
except Exception as e:
    result = None

if result is not None and hasattr(result, "considered") is False:
    print("@{0}@ for @{1}@".format(result.decode(), k))
elif result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_subs = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged
    print(""
    The total number of keys considered for import was:  @{0}@
    
    With UIDs wholly or partially matching the following string:
    
    @{1}@

    Number of keys revoked:  @{2}@  
    Number of new signatures:  @{3}@  
    Number of new subkeys:  @{4}@  
    Number of new user IDs:  @{5}@  
    Number of new secret keys:  @{6}@  
    Number of unchanged keys:  @{7}@  

    The key IDs for all considered keys were:
    
    for i in range(num_keys):
        print(result.imports[i].fpr)
        print(""
    
else result is None:
Both the above example, @uref{../examples/howto/pmkey-import.py, pmkey-import.py}, and a version which prompts for an alternative GnuPG home directory, @uref{../examples/howto/pmkey-import-alt.py, pmkey-import-alt.py}, are available with the other examples and are executable scripts.

Note that while the ProtonMail servers are based on the SKS servers, their server is related more to their API and is not feature complete by comparison to the servers in the SKS pool. One notable difference being that the ProtonMail server does not permit non ProtonMail users to update their own keys, which could be a vector for attacking ProtonMail users who may not receive a key's revocation if it had been compromised.

Performing the same tasks with the @uref{https://github.com/Selfnet/hkp4py, hkp4py module} (available via PyPI) is not too much different, but does provide a number of options of benefit to end users. Not least of which being the ability to perform some checks on a key before importing it or not. For instance it may be the policy of a site or project to only import keys which have not been revoked. The hkp4py module permits such checks prior to the importing of the keys found.

@example
import gpg
import hkp4py
import sys

c = gpg.Context()
server = hkp4py.KeyServer("hkps://hkps.pool.sks-keyservers.net")
results = []
keys = []

if len(sys.argv) > 2:
    pattern = ".join(sys.argv[1:]):
elif len(sys.argv) == 2:
    pattern = sys.argv[1]
else:
    pattern = input("Enter the pattern to search for keys or user IDs: ")

if pattern is not None:
    try:
key = server.search(hex(int(pattern, 16)))
keyed = True
except ValueError as ve:
    key = server.search(pattern)
    keyed = False

if key is not None:
    keys.append(key[0])
    if keyed is True:
        try:
            fob = server.search(pattern)
        except:
            fob = None
        if fob is not None:
            keys.append(fob[0])
        else:
            pass
else:
    pass

for logrus in pattern.split():
    try:
        key = server.search(hex(int(logrus, 16)))
        hexed = True
    except ValueError as ve:
        key = server.search(logrus)
        hexed = False

if key is not None:
    keys.append(key[0])
    if hexed is True:
        try:
            fob = server.search(logrus)
        except:
            fob = None
        if fob is not None:
            keys.append(fob[0])
        else:
            pass
    else:
        pass
else:
    pass

if len(keys) > 0:
    for key in keys:
        import_result = c.key_import(key.key_blob)
        results.append(import_result)
for result in results:
    if result is not None and not hasattr(result, "considered"):
        print(result)
    elif result is not None and hasattr(result, "considered"):
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""
        The total number of keys considered for import was: @0@
        Number of keys revoked: @1@
        Number of new signatures: @2@
        Number of new subkeys: @3@
        Number of new user IDs: @4@
        Number of new secret keys: @5@
        Number of unchanged keys: @6@
        The key IDs for all considered keys were:
        {}
        for i in range(num_keys):
            print(result.imports[i].fpr)
        print(""
    else:
        pass
@end example

Since the hkp4py module handles multiple keys just as effectively as
one (@samp{keys} is a list of responses per matching key), the example
above is able to do a little bit more with the returned data before
anything is actually imported.

@node Importing from ProtonMail with HKP for Python
@subsection Importing from ProtonMail with HKP for Python

Though this can provide certain benefits even when working with
ProtonMail, the scope is somewhat constrained there due to the
limitations of the ProtonMail keyserver.

For instance, searching the SKS keyserver pool for the term "gnupg"
produces hundreds of results from any time the word appears in any
part of a user ID. Performing the same search on the ProtonMail
keyserver returns zero results, even though there are at least two
test accounts which include it as part of the username.
The cause of this discrepancy is the deliberate configuration of that server by ProtonMail to require an exact match of the full email address of the ProtonMail user whose key is being requested. Presumably this is intended to reduce breaches of privacy of their users as an email address must already be known before a key for that address can be obtained.

@enumerate
@item
Import from ProtonMail via HKP for Python Example no. 1

The following script is available with the rest of the examples under the somewhat less than original name, @samp{pmkey-import-hkp.py}.

@example
import gpg
import hkp4py
import os.path
import sys

print(""
This script searches the ProtonMail key server for the specified key and imports it.

Usage: pmkey-import-hkp.py [search strings]
"")

if len(sys.argv) > 2:
    keyterms = sys.argv[1:]
elif len(sys.argv) == 2:
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
else:
    key_term = input("Enter the key ID, UID or search string: ")
    keyterms = key_term.split()

for keyterm in keyterms:
if keyterm.count("@@") == 2 and keyterm.startswith("@@") is True:
    ksearch.append(keyterm[1:]
    ksearch.append(keyterm[1:]
    ksearch.append(keyterm[1:]
elif keyterm.count("@@") == 1 and keyterm.startswith("@@") is True:
    ksearch.append("@@{0}@protonmail.com".format(keyterm[1:]))
    ksearch.append("@@{0}@protonmail.ch".format(keyterm[1:]))
    ksearch.append("@@{0}@pm.me".format(keyterm[1:]))
elif keyterm.count("@@") == 0:
    ksearch.append("@@{0}@protonmail.com".format(keyterm))
    ksearch.append("@@{0}@protonmail.ch".format(keyterm))
    ksearch.append("@@{0}@pm.me".format(keyterm))
elif keyterm.count("@@") == 2 and keyterm.startswith("@@") is False:
    uidlist = keyterm.split("@@")
    for uid in uidlist:
        ksearch.append("@@{0}@protonmail.com".format(uid))
        ksearch.append("@@{0}@protonmail.ch".format(uid))
        ksearch.append("@@{0}@pm.me".format(uid))
elif keyterm.count("@@") > 2:
    uidlist = keyterm.split("@@")
    for uid in uidlist:
        ksearch.append("@@{0}@protonmail.com".format(uid))
        ksearch.append("@@{0}@protonmail.ch".format(uid))
        ksearch.append("@@{0}@pm.me".format(uid))
else:
    ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: @{0}@".format(k))
    try:
        keys = server.search(k)
        if isinstance(keys, list) is True:
            for key in keys:
                allkeys.append(key)
                try:
                    import_result = c.key_import(key.key_blob)
                except Exception as e:
                    import_result = c.key_import(key.key)
                else:
                    paradox.append(keys)
                    import_result = None
            except Exception as e:
                import_result = None
        results.append(import_result)
    for result in results:
        if result is not None and not hasattr(result, "considered"):
elif result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_subs = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged
    print(""
    The total number of keys considered for import was: @0@
    
    With UIDs wholly or partially matching the following string:
    
    @1@
    
    Number of keys revoked: @2@
    Number of new signatures: @3@
    Number of new subkeys: @4@
    Number of new user IDs: @5@
    Number of new secret keys: @6@
    Number of unchanged keys: @7@
    
    The key IDs for all considered keys were:
    """.format(num_keys, k, new_revs, new_sigs, new_subs, new_uids, new_scrt,
        nochange))
    for i in range(num_keys):
        print(result.imports[i].fpr)
        print("")
    elif result is None:
        pass
@end example

@item
Import from ProtonMail via HKP for Python Example no. 2

Like its counterpart above, this script can also be found with the rest of the examples, by the name pmkey-import-hkp-alt.py.

With this script a modicum of effort has been made to treat anything passed as a @samp{homedir} which either does not exist or which is not a directory, as also being a possible user ID to check for. It's not guaranteed to pick up on all such cases, but it should cover most of them.

@example
import gpg
import hkp4py
import os.path
import sys

print("***
This script searches the ProtonMail key server for the specified key and
imports it. Optionally enables specifying a different GnuPG home directory.

Usage:  pmkey-import-hkp.py [homedir] [search string]
or:  pmkey-import-hkp.py [search string]
***")

c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://api.protonmail.ch")
keyterms = []
ksearch = []
allkeys = []
results = []
paradox = []
homeless = None

if len(sys.argv) > 3:
    homedir = sys.argv[1]
    keyterms = sys.argv[2:]
elif len(sys.argv) == 3:
    homedir = sys.argv[1]
    keyterm = sys.argv[2]
    keyterms.append(keyterm)
elif len(sys.argv) == 2:
    homedir = 
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
else:
    keyterm = input("Enter the key ID, UID or search string: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
    keyterms.append(keyterm)

if len(homedir) == 0:
    homedir = None
    homeless = False

if homedir is not None:
    if homedir.startswith(~"):
        if os.path.exists(os.path.expanduser(homedir)) is True:
            if os.path.isdir(os.path.expanduser(homedir)) is True:
                c.home_dir = os.path.realpath(os.path.expanduser(homedir))
            else:
                homeless = True
        else:
            homeless = True
else:
homeless = True
else:
    if os.path.exists(os.path.realpath(homedir)) is True:
        if os.path.isdir(os.path.realpath(homedir)) is True:
            c.home_dir = os.path.realpath(homedir)
        else:
            homeless = True
    else:
        homeless = True

    # First check to see if the homedir really is a homedir and if not, treat it as
    # a search string.
    if homeless is True:
        keyterms.append(homedir)
        c.home_dir = None
    else:
        pass

for keyterm in keyterms:
    if keyterm.count("@@") == 2 and keyterm.startswith("@@") is True:
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
    elif keyterm.count("@@") == 1 and keyterm.startswith("@@") is True:
        ksearch.append("@{0}@@@protonmail.com".format(keyterm[1:]))
        ksearch.append("@{0}@@@protonmail.ch".format(keyterm[1:]))
        ksearch.append("@{0}@@@pm.me".format(keyterm[1:]))
    elif keyterm.count("@@") == 0:
        ksearch.append("@{0}@@@protonmail.com".format(keyterm))
        ksearch.append("@{0}@@@protonmail.ch".format(keyterm))
        ksearch.append("@{0}@@@pm.me".format(keyterm))
    elif keyterm.count("@@") == 2 and keyterm.startswith("@@") is False:
        uidlist = keyterm.split("@@")
        for uid in uidlist:
            ksearch.append("@{0}@@@protonmail.com".format(uid))
            ksearch.append("@{0}@@@protonmail.ch".format(uid))
            ksearch.append("@{0}@@@pm.me".format(uid))
    elif keyterm.count("@@") > 2:
        uidlist = keyterm.split("@@")
        for uid in uidlist:
            ksearch.append("@{0}@@@protonmail.com".format(uid))
            ksearch.append("@{0}@@@protonmail.ch".format(uid))
            ksearch.append("@{0}@@@pm.me".format(uid))
    else:
        ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: @{0}@",format(k))
try:
keys = server.search(k)
if isinstance(keys, list) is True:
    for key in keys:
        allkeys.append(key)
        try:
            import_result = c.key_import(key.key_blob)
        except Exception as e:
            import_result = c.key_import(key.key)
        else:
            paradox.append(keys)
            import_result = None
        except Exception as e:
            import_result = None
        results.append(import_result)

for result in results:
    if result is not None and hasattr(result, "considered") is False:
        print("@{0}@ for @{1}@".format(result.decode(), k))
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""
        The total number of keys considered for import was: @0@

        With UIDs wholly or partially matching the following string:

        @1@

        Number of keys revoked: @2@
        Number of new signatures: @3@
        Number of new subkeys: @4@
        Number of new user IDs: @5@
        Number of new secret keys: @6@
        Number of unchanged keys: @7@

        The key IDs for all considered keys were:
        """.format(num_keys, k, new_revs, new_sigs, new_subs, new_uids, new_scrt, nochange))
        for i in range(num_keys):
            print(result.imports[i].fpr)
        print(""
        elif result is None:
            pass
Exporting keys remains a reasonably simple task, but has been separated into three different functions for the OpenPGP cryptographic engine. Two of those functions are for exporting public keys and the third is for exporting secret keys.

There are two methods of exporting public keys, both of which are very similar to the other. The default method, `@samp{key_export()}`, will export a public key or keys matching a specified pattern as normal. The alternative, the `@samp{key_export_minimal()}` method, will do the same thing except producing a minimised output with extra signatures and third party signatures or certifications removed.

```python
import gpg
import os.path
import sys

print("This script exports one or more public keys."
      
      
      c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
```


logrus = input("Enter the UID matching the key(s) to export: ")
homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
logrus = input("Enter the UID matching the key(s) to export: ")
homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("~"):    
    if os.path.exists(os.path.expanduser(homedir)) is True:    
        c.home_dir = os.path.expanduser(homedir)    
    else:    
        pass    
elif os.path.exists(homedir) is True:    
    c.home_dir = homedir    
else:    
    pass

try:    
    result = c.key_export(pattern=logrus)    
except:    
    result = c.key_export(pattern=None)

if result is not None:    
    with open(keyfile, "wb") as f:    
        f.write(result)    
else:    
    pass

It should be noted that the result will only return @samp{None} when a search pattern has been entered, but has not matched any keys. When the search pattern itself is set to @samp{None} this triggers the exporting of the entire public keybox.

@example
import gpg
import os.path
import sys

print("%% This script exports one or more public keys in minimised form. ")

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
homedir = sys.argv[3]
eelif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
eelif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
eelse:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("-"):
    if os.path.exists(os.path.expanduser(homedir)) is True:
        c.home_dir = os.path.expanduser(homedir)
    else:
        pass
elsie os.path.exists(homedir) is True:
    c.home_dir = homedir
else:
    pass

try:
    result = c.key_export_minimal(pattern=logrus)
except:
    result = c.key_export_minimal(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
else:
    pass
@end example

@node Exporting secret keys
@subsection Exporting secret keys

Exporting secret keys is, functionally, very similar to exporting public keys; save for the invocation of @samp{pinentry} via @samp{gpg-agent} in order to securely enter the key's passphrase and authorise the export.

The following example exports the secret key to a file which is then set with the same permissions as the output files created by the command line secret key export options.

@example
import gpg
import os
import os.path
import sys

print('This script exports one or more secret keys.

The gpg-agent and pinentry are invoked to authorise the export.

**

```python

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if len(homedir) == 0:
    homedir = None
elif homedir.startswith("~"):
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = os.path.realpath(homedir)

if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass
```
if homedir is not None:
    c.home_dir = homedir
else:
    pass

try:
    result = c.key_export_secret(pattern=logrus)
except:
    result = c.key_export_secret(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
        os.chmod(keyfile, 0o600)
else:
    pass
@end example

Alternatively the approach of the following script can be used. This longer example saves the exported secret key(s) in files in the GnuPG home directory, in addition to setting the file permissions as only readable and writable by the user. It also exports the secret key(s) twice in order to output both GPG binary (@samp{.gpg}) and ASCII armoured (@samp{.asc}) files.

@example
import gpg
import os
import os.path
import subprocess
import sys

print(""
This script exports one or more secret keys as both ASCII armoured and binary file formats, saved in files within the user's GPG home directory.

The gpg-agent and pinentry are invoked to authorise the export.
"")

if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-dirs homedir"
else:
    gpgconfcmd = "gpgconf --list-dirs homedir"

a = gpg.Context(armor=True)
b = gpg.Context()
c = gpg.Context()
if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the filename to save the secret key to: ")
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if len(homedir) == 0:
    homedir = None
elif homedir.startswith("~"):
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = os.path.realpath(homedir)

if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass

if homedir is not None:
    c.home_dir = homedir
else:
    pass

if c.home_dir is not None:
    if c.home_dir.endswith("/"):
        gpgfile = "@{0}@{1}.gpg".format(c.home_dir, keyfile)
        ascfile = "@{0}@{1}.asc".format(c.home_dir, keyfile)
    else:
        gpgfile = "@{0}/@{1}.gpg".format(c.home_dir, keyfile)
ascfile = "@{0@}/@{1@}.asc".format(c.home_dir, keyfile)
else:
    if os.path.exists(os.environ["GNUPGHOME"]) is True:
        hd = os.environ["GNUPGHOME"]
    else:
        try:
            hd = subprocess.getoutput(gpgconfcmd)
        except:
            process = subprocess.Popen(gpgconfcmd.split(),
                                         stdout=subprocess.PIPE)
            procom = process.communicate()
            if sys.version_info[0] == 2:
                hd = procom[0].strip()
            else:
                hd = procom[0].decode().strip()
        gpgfile = "@{0@}/@{1@}.gpg".format(hd, keyfile)
        ascfile = "@{0@}/@{1@}.asc".format(hd, keyfile)
        try:
            a_result = a.key_export_secret(pattern=logrus)
            b_result = b.key_export_secret(pattern=logrus)
        except:
            a_result = a.key_export_secret(pattern=None)
            b_result = b.key_export_secret(pattern=None)
        if a_result is not None:
            with open(ascfile, "wb") as f:
                f.write(a_result)
            os.chmod(ascfile, 0o600)
        else:
            pass
        if b_result is not None:
            with open(gpgfile, "wb") as f:
                f.write(b_result)
            os.chmod(gpgfile, 0o600)
        else:
            pass
@end example

@node Sending public keys to the SKS Keyservers
@subsection Sending public keys to the SKS Keyservers

As with the previous section on importing keys, the @samp{hkp4py} module adds another option with exporting keys in order to send them to the public keyservers.

The following example demonstrates how this may be done.
import gpg
import hkp4py
import os.path
import sys

print(""
This script sends one or more public keys to the SKS keyservers and is
essentially a slight variation on the export-key.py script.
"")

c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://hkps.pool.sks-keyservers.net")

if len(sys.argv) > 2:
    logrus = " ".join(sys.argv[1:])
elif len(sys.argv) == 2:
    logrus = sys.argv[1]
else:
    logrus = input("Enter the UID matching the key(s) to send: ")

if len(logrus) > 0:
    try:
        export_result = c.key_export(pattern=logrus)
    except Exception as e:
        print(e)
        export_result = None
    else:
        export_result = c.key_export(pattern=None)

if export_result is not None:
    try:
        send_result = server.add(export_result)
    except:
        send_result = server.add(export_result.decode())
    if send_result is not None:
        print(send_result)
    else:
        pass
except Exception as e:
    print(e)
else:
    pass
@end example

An expanded version of this script with additional functions for
specifying an alternative homedir location is in the examples
directory as @samp{send-key-to-keyserver.py}.

The @samp{hkp4py} module appears to handle both string and byte literal text
data equally well, but the GPGME bindings deal primarily with byte
literal data only and so this script sends in that format first, then
tries the string literal form.

@node Basic Functions
@chapter Basic Functions

The most frequently called features of any cryptographic library will
be the most fundamental tasks for encryption software. In this
section we will look at how to programmatically encrypt data, decrypt
it, sign it and verify signatures.

@menu
* Encryption::
* Decryption::
* Signing text and files::
* Signature verification::
@end menu

@node Encryption
@section Encryption

Encrypting is very straightforward. In the first example below the
message, @samp{text}, is encrypted to a single recipient's key. In the
second example the message will be encrypted to multiple recipients.

@menu
* Encrypting to one key::
* Encrypting to multiple keys::
@end menu

@node Encrypting to one key
@subsection Encrypting to one key

Once the the Context is set the main issues with encrypting data is
essentially reduced to key selection and the keyword arguments
specified in the @samp{gpg.Context().encrypt()} method.

Those keyword arguments are: @samp{recipients}, a list of keys encrypted to
(covered in greater detail in the following section); @samp{sign}, whether
or not to sign the plaintext data, see subsequent sections on signing
and verifying signatures below (defaults to @samp{True}); @samp{sink}, to write
results or partial results to a secure sink instead of returning it
(defaults to @samp{None}); @samp{passphrase}, only used when utilising symmetric
encryption (defaults to @samp{None}); @samp{always_trust}, used to override the
trust model settings for recipient keys (defaults to @samp{False});
@samp{add_encrypt_to}, utilises any preconfigured @samp{encrypt-to} or
@samp{default-key} settings in the user's @samp{gpg.conf} file (defaults to
@samp{False}); @samp{prepare}, prepare for encryption (defaults to @samp{False});
@samp{expect_sign}, prepare for signing (defaults to @samp{False}); @samp{compress},
compresses the plaintext prior to encryption (defaults to @samp{True})).

@example
import gpg

a_key = "0x12345678DEADBEEF"
text = b"""Some text to test with.

Since the text in this case must be bytes, it is most likely that
the input form will be a separate file which is opened with "rb"
as this is the simplest method of obtaining the correct data format.

===

c = gpg.Context(armor=True)
rkey = list(c.keylist(pattern=a_key, secret=False))
ciphertext, result, sign_result = c.encrypt(text, recipients=rkey, sign=False)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
@end example

Though this is even more likely to be used like this; with the
plaintext input read from a file, the recipient keys used for
encryption regardless of key trust status and the encrypted output
also encrypted to any preconfigured keys set in the @samp{gpg.conf} file:

@example
import gpg

a_key = "0x12345678DEADBEEF"

with open("secret_plans.txt", "rb") as afile:
    text = afile.read()

c = gpg.Context(armor=True)
rkey = list(c.keylist(pattern=a_key, secret=False))
ciphertext, result, sign_result = c.encrypt(text, recipients=rkey, sign=True,
    always_trust=True,
    add_encrypt_to=True)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
If the `recipients` parameter is empty then the plaintext is encrypted symmetrically. If no `passphrase` is supplied as a parameter or via a callback registered with the `Context()` then an out-of-band prompt for the passphrase via pinentry will be invoked.

Encrypting to multiple keys

Encrypted to multiple keys essentially just expands upon the key selection process and the recipients from the previous examples.

The following example encrypts a message (`text`) to everyone with an email address on the `gnupg.org` domain, footnote{You probably don't really want to do this. Searching the keyservers for "gnupg.org" produces over 400 results, the majority of which aren't actually at the gnupg.org domain, but just included a comment regarding the project in their key somewhere.) but does `encrypt` to a default key or other key which is configured to normally encrypt to.

```python
import gpg

text = b"Oh look, another test message.
The same rules apply as with the previous example and more likely than not, the message will actually be drawn from reading the contents of a file or, maybe, from entering data at an input() prompt.

Since the text in this case must be bytes, it is most likely that the input form will be a separate file which is opened with "rb" as this is the simplest method of obtaining the correct data format.

```
c = gpg.Context(armor=True)
rpattern = list(c.keylist(pattern="*@gnupg.org", secret=False))
logrus = []

for i in range(len(rpattern)):
    if rpattern[i].can_encrypt == 1:
        logrus.append(rpattern[i])

ciphertext, result, sign_result = c.encrypt(text, recipients=logrus, sign=False, always_trust=True)```
with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
@end example

All it would take to change the above example to sign the message and also encrypt the message to any configured default keys would be to change the @samp{c.encrypt} line to this:

@example
ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
    always_trust=True,
    add_encrypt_to=True)
@end example

The only keyword arguments requiring modification are those for which the default values are changing. The default value of @samp{sign} is @samp{True}, the default of @samp{always_trust} is @samp{False}, the default of @samp{add_encrypt_to} is @samp{False}.

If @samp{always_trust} is not set to @samp{True} and any of the recipient keys are not trusted (e.g. not signed or locally signed) then the encryption will raise an error. It is possible to mitigate this somewhat with something more like this:

@example
import gpg

with open("secret_plans.txt.asc", "rb") as afile:
    text = afile.read()

c = gpg.Context(armor=True)
rpattern = list(c.keylist(pattern="@@gnupg.org", secret=False))
logrus = []

for i in range(len(rpattern)):
    if rpattern[i].can_encrypt == 1:
        logrus.append(rpattern[i])

try:
    ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
        always_trust=True,
        add_encrypt_to=True)
except gpg.errors.InvalidRecipients as e:
    for i in range(len(e.recipients)):
        for n in range(len(logrus)):
            if logrus[n].fpr == e.recipients[i].fpr:
                logrus.remove(logrus[n])
        else:
try:
ciphertext, result, sign_result = c.encrypt(text, recipients=logrus, add_encrypt_to=True)
with open("secret_plans.txt.asc", "wb") as afile:
afile.write(ciphertext)
except:
    pass
@end example

This will attempt to encrypt to all the keys searched for, then remove invalid recipients if it fails and try again.

@node Decryption
@section Decryption

Decrypting something encrypted to a key in one's secret keyring is fairly straightforward.

In this example code, however, preconfiguring either `@samp{gpg.Context()}` or `@samp{gpg.core.Context()}` as `@samp{c}` is unnecessary because there is no need to modify the Context prior to conducting the decryption and since the Context is only used once, setting it to `@samp{c}` simply adds lines for no gain.

@example
import gpg
ciphertext = input("Enter path and filename of encrypted file: ")
newfile = input("Enter path and filename of file to save decrypted data to: ")

with open(ciphertext, "rb") as cfile:
    try:
        plaintext, result, verify_result = gpg.Context().decrypt(cfile)
    except gpg.errors.GPGMEError as e:
        plaintext = None
        print(e)

if plaintext is not None:
    with open(newfile, "wb") as nfile:
        nfile.write(plaintext)
else:
    pass
@end example

The data available in `@samp{plaintext}` in this example is the decrypted content as a byte object, the recipient key IDs and algorithms in
@samp{result} and the results of verifying any signatures of the data in
@samp{verify_result}.

If @samp{gpg.Context().decrypt(cfile, verify=False)} is called instead,
then @samp{verify_result} will be returned as @samp{None} and the rest remains
as described here.

@node Signing text and files
@section Signing text and files

The following sections demonstrate how to specify keys to sign with.

@menu
* Signing key selection::
* Normal or default signing messages or files::
* Detached signing messages and files::
* Clearsigning messages or text::
@end menu

@node Signing key selection
@subsection Signing key selection

By default GPGME and the Python bindings will use the default key
configured for the user invoking the GPGME API. If there is no
default key specified and there is more than one secret key available
it may be necessary to specify the key or keys with which to sign
messages and files.

@example
import gpg

logrus = input("Enter the email address or string to match signing keys to: ")
hancock = gpg.Context().keylist(pattern=logrus, secret=True)
sig_src = list(hancock)
@end example

The signing examples in the following sections include the explicitly
designated @samp{signers} parameter in two of the five examples; once where
the resulting signature would be ASCII armoured and once where it
would not be armoured.

While it would be possible to enter a key ID or fingerprint here to
match a specific key, it is not possible to enter two fingerprints and
match two keys since the pattern expects a string, bytes or None and
not a list. A string with two fingerprints won't match any single
key.

@node Normal or default signing messages or files
The normal or default signing process is essentially the same as is most often invoked when also encrypting a message or file. So when the encryption component is not utilised, the result is to produce an encoded and signed output which may or may not be ASCII armoured and which may or may not also be compressed.

By default compression will be used unless GnuPG detects that the plaintext is already compressed. ASCII armouring will be determined according to the value of `gpg.Context().armor`.

The compression algorithm is selected in much the same way as the symmetric encryption algorithm or the hash digest algorithm is when multiple keys are involved: from the preferences saved into the key itself or by comparison with the preferences with all other keys involved.

```python
import gpg
text0 = "Declaration of ... something.

text = text0.encode()

c = gpg.Context(armor=True, signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
@example
import gpg
text0 = """Declaration of ... something.

text = text0.encode()

c = gpg.Context(armor=True, signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
@end example
```

Though everything in this example is accurate, it is more likely that reading the input data from another file and writing the result to a new file will be performed more like the way it is done in the next example. Even if the output format is ASCII armoured.

```python
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.sig", "wb") as afile:
```
Detached signatures will often be needed in programmatic uses of GPGME, either for signing files (e.g. tarballs of code releases) or as a component of message signing (e.g. PGP/MIME encoded email).

```python
import gpg
text0 = """Declaration of ... something.
"

text = text0.encode()

c = gpg.Context(armor=True)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())

@end example

As with normal signatures, detached signatures are best handled as byte literals, even when the output is ASCII armoured.

```python
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context(signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.sig", "wb") as afile:
    afile.write(signed_data)

@end example

Though PGP/in-line messages are no longer encouraged in favour of PGP/MIME, there is still sometimes value in utilising in-line signatures. This is where clear-signed messages or text is of value.
@example
import gpg

text0 = """"""""Declaration of ... something.

====
text = text0.encode()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.CLEAR)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
@end example

In spite of the appearance of a clear-signed message, the data handled by GPGME in signing it must still be byte literals.

@example
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.CLEAR)

with open("/path/to/statement.txt.asc", "wb") as afile:
    afile.write(signed_data)
@end example

@node Signature verification
@section Signature verification

Essentially there are two principal methods of verification of a signature. The first of these is for use with the normal or default signing method and for clear-signed messages. The second is for use with files and data with detached signatures.

The following example is intended for use with the default signing method where the file was not ASCII armoured:

@example
import gpg
import time

filename = "statement.txt"
gpg_file = "statement.txt.gpg"
c = gpg.Context()

try:
    data, result = c.verify(open(gpg_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print('''Good signature from:
@ {0@}'''
            with key @ {1@}
            made at @ {2@}
            {'''formatted(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
                time.ctime(sign.timestamp))''}
else:
    pass
@end example

Whereas this next example, which is almost identical would work with normal ASCII armoured files and with clear-signed files:

@example
import gpg
import time

filename = "statement.txt"
asc_file = "statement.txt.asc"

c = gpg.Context()

try:
    data, result = c.verify(open(asc_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print('''Good signature from:
@ {0@}'''
            with key @ {1@}
In both of the previous examples it is also possible to compare the original data that was signed against the signed data in @samp{data} to see if it matches with something like this:

@example
with open(filename, "rb") as afile:
    text = afile.read()

if text == data:
    print("Good signature.")
else:
    pass
@end example

The following two examples, however, deal with detached signatures. With his method of verification the data that was signed does not get returned since it is already being explicitly referenced in the first argument of @samp{c.verify}. So @samp{data} is @samp{None} and only the information in @samp{result} is available.

@example
import gpg
import time

filename = "statement.txt"
sig_file = "statement.txt.sig"

c = gpg.Context()

try:
    data, result = c.verify(open(filename), open(sig_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
@{0@}")
with key @1@
made at @2@

```python
""".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
    time.ctime(sign.timestamp)))
else:
    pass
@end example

@example
import gpg
import time

data, result = c.verify(open(filename), open(asc_file))
verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("""Good signature from:
{0} with key {1} made at {2}
""".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
    time.ctime(sign.timestamp)))
else:
    pass
@end example

@node Creating keys and subkeys
@chapter Creating keys and subkeys

The one thing, aside from GnuPG itself, that GPGME depends on, of course, is the keys themselves. So it is necessary to be able to generate them and modify them by adding subkeys, revoking or disabling them, sometimes deleting them and doing the same for user IDs.

In the following examples a key will be created for the world's greatest secret agent, Danger Mouse. Since Danger Mouse is a secret agent he needs to be able to protect information to @samp{SECRET} level
clearance, so his keys will be 3072-bit keys.

The pre-configured @samp{gpg.conf} file which sets cipher, digest and other preferences contains the following configuration parameters:

@example
expert
allow-freeform-uid
allow-secret-key-import
trust-model tofu+pgp
tofu-default-policy unknown
enable-large-rsa
enable-dsa2
cert-digest-algo SHA512
default-preference-list TWOFISH CAMELLIA256 AES256 CAMELLIA192 AES192 CAMELLIA128 AES BLOWFISH IDEA CAST5 3DES SHA512 SHA384 SHA256 SHA224 RIPEMD160 SHA1 ZLIB BZIP2 ZIP Uncompressed
personal-cipher-preferences TWOFISH CAMELLIA256 AES256 CAMELLIA192 AES192 CAMELLIA128 AES BLOWFISH IDEA CAST5 3DES
personal-digest-preferences SHA512 SHA384 SHA256 SHA224 RIPEMD160 SHA1
personal-compress-preferences ZLIB BZIP2 ZIP Uncompressed
@end example

@menu
* Primary key::
* Subkeys::
* User IDs::
* Key certification::
@end menu

@node Primary key
@section Primary key

Generating a primary key uses the @samp{create_key} method in a Context. It contains multiple arguments and keyword arguments, including:
@samp{userid}, @samp{algorithm}, @samp{expires_in}, @samp{expires}, @samp{sign}, @samp{encrypt},
@samp{certify}, @samp{authenticate}, @samp{passphrase} and @samp{force}. The defaults for all of those except @samp{userid}, @samp{algorithm}, @samp{expires_in}, @samp{expires} and @samp{passphrase} is @samp{False}. The defaults for @samp{algorithm} and @samp{passphrase} is @samp{None}. The default for @samp{expires_in} is @samp{0}. The default for @samp{expires} is @samp{True}. There is no default for @samp{userid}.

If @samp{passphrase} is left as @samp{None} then the key will not be generated with a passphrase, if @samp{passphrase} is set to a string then that will be the passphrase and if @samp{passphrase} is set to @samp{True} then gpg-agent will launch pinentry to prompt for a passphrase. For the sake of convenience, these examples will keep @samp{passphrase} set to @samp{None}.
import gpg

c = gpg.Context()

c.home_dir = "~/gnupg-dm"
userid = "Danger Mouse <dm@@secret.example.net>"

dmkey = c.create_key(userid, algorithm="rsa3072", expires_in=31536000,
   sign=True, certify=True)

One thing to note here is the use of setting the @samp{c.home_dir} parameter. This enables generating the key or keys in a different location. In this case to keep the new key data created for this example in a separate location rather than adding it to existing and active key store data. As with the default directory, @samp{~/gnupg}, any temporary or separate directory needs the permissions set to only permit access by the directory owner. On posix systems this means setting the directory permissions to 700.

The @samp{temp-homedir-config.py} script in the HOWTO examples directory will create an alternative homedir with these configuration options already set and the correct directory and file permissions.

The successful generation of the key can be confirmed via the returned @samp{GenkeyResult} object, which includes the following data:

@example
print("Fingerprint: @{0@}
Primary Key:  @{1@}
Public Key:  @{2@}
Secret Key:  @{3@}
Sub Key:  @{4@}
User IDs:  @{5@}
".format(dmkey.fpr, dmkey.primary, dmkey.pubkey, dmkey.seckey, dmkey.sub,
   dmkey.uid))
@end example

Alternatively the information can be confirmed using the command line program:

@example
bash-4.4$ gpg --homedir ~/gnupg-dm -K
~/.gnupg-dm/pubring.kbx
----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]

sec  rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
As with generating keys manually, to preconfigure expanded preferences for the cipher, digest and compression algorithms, the `gpg.conf` file must contain those details in the home directory in which the new key is being generated. I used a cut down version of my own `gpg.conf` file in order to be able to generate this:

```bash
bash-4.4$ gpg --homedir ~/.gnupg-dm --edit-key 177B7C25DB99745EE2EE13ED026D2F19E99E63AA showpref
quit
Secret key is available.
```

```
sec rsa3072/026D2F19E99E63AA
    trust: ultimate validity: ultimate
[ultimate] (1). Danger Mouse <dm@@secret.example.net>
```

```
[ultimate] (1). Danger Mouse <dm@@secret.example.net>
  Cipher: TWOFISH, CAMELLIA256, AES256, CAMELLIA192, AES192, CAMELLIA128, AES, BLOWFISH, IDEA, CAST5, 3DES
  Digest: SHA512, SHA384, SHA256, SHA224, RIPEMD160, SHA1
  Compression: ZLIB, BZIP2, ZIP, Uncompressed
  Features: MDC, Keyserver no-modify
```

Adding subkeys to a primary key is fairly similar to creating the primary key with the `create_subkey` method. Most of the arguments are the same, but not quite all. Instead of the `userid` argument there is now a `key` argument for selecting which primary key to add the subkey to.

In the following example an encryption subkey will be added to the primary key. Since Danger Mouse is a security conscious secret agent, this subkey will only be valid for about six months, half the length of the primary key.

```bash
bash-4.4$
@end example

@node Subkeys
@section Subkeys

Adding subkeys to a primary key is fairly similar to creating the primary key with the `create_subkey` method. Most of the arguments are the same, but not quite all. Instead of the `userid` argument there is now a `key` argument for selecting which primary key to add the subkey to.

In the following example an encryption subkey will be added to the primary key. Since Danger Mouse is a security conscious secret agent, this subkey will only be valid for about six months, half the length of the primary key.

```bash
import gpg
```

```bash
bash-4.4$
@end example
```
c = gpg.Context()
c.home_dir = "~/.gnupg-dm"

key = c.get_key(dmkey.fpr, secret=True)
dmsub = c.create_subkey(key, algorithm="rsa3072", expires_in=15768000,
                 encrypt=True)
@end example

As with the primary key, the results here can be checked with:

@example
print(""
Fingerprint:  @{0@}
Primary Key:  @{1@}
Public Key:  @{2@}
Secret Key:  @{3@}
Sub Key:  @{4@}
User IDs:  @{5@}
""".format(dmsub.fpr, dmsub.primary, dmsub.pubkey, dmsub.seckey, dmsub.sub,
             dmsub.uid))
@end example

As well as on the command line with:

@example
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
~/.gnupg-dm/pubring.kbx
-------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid           [ultimate] Danger Mouse <dm@@secret.example.net>
ssb  rsa3072 2018-03-15 [E] [expires: 2018-09-13]

bash-4.4$
@end example

@node User IDs
@section User IDs

@menu
* Adding User IDs::
* Revoking User IDs::
@end menu

@node Adding User IDs
@section Adding User IDs

By comparison to creating primary keys and subkeys, adding a new user ID to an existing key is much simpler. The method used to do this is @samp{key_add_uid} and the only arguments it takes are for the @samp{key} and the new @samp{uid}.

@example
import gpg

c = gpg.Context()
c.home_dir = "~/gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
uid = "Danger Mouse <danger.mouse@@secret.example.net>"

c.key_add_uid(key, uid)
@end example

Unsurprisingly the result of this is:

@example
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
~/gnupg-dm/pubring.kbx
----------------------
sec rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
  177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid [ultimate] Danger Mouse <danger.mouse@@secret.example.net>
uid [ultimate] Danger Mouse <dm@@secret.example.net>
ssb rsa3072 2018-03-15 [E] [expires: 2018-09-13]

bash-4.4$
@end example

@node Revoking User IDs
@subsection Revoking User IDs
Revoking a user ID is a fairly similar process, except that it uses the @samp{key_revoke_uid} method.

@example
import gpg

c = gpg.Context()
c.home_dir = "~/gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
uid = "Danger Mouse <danger.mouse@@secret.example.net>"
c.key_revoke_uid(key, uid)
@end example

@node Key certification
@section Key certification

Since key certification is more frequently referred to as key signing, the method used to perform this function is @samp{key_sign}.

The @samp{key_sign} method takes four arguments: @samp{key}, @samp{uids}, @samp{expires_in} and @samp{local}. The default value of @samp{uids} is @samp{None} and which results in all user IDs being selected. The default value of both @samp{expires_in} and @samp{local} is @samp{False}; which results in the signature never expiring and being able to be exported.

The @samp{key} is the key being signed rather than the key doing the signing. To change the key doing the signing refer to the signing key selection above for signing messages and files.

If the @samp{uids} value is not @samp{None} then it must either be a string to match a single user ID or a list of strings to match multiple user IDs. In this case the matching of those strings must be precise and it is case sensitive.

To sign Danger Mouse’s key for just the initial user ID with a signature which will last a little over a month, do this:

@example
import gpg

c = gpg.Context()
uid = "Danger Mouse <dm@@secret.example.net>"

# dmfpr is the key's fingerprint
# secret=True means that the key is secret
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)
@end example

@menu
* Verifying key certifications::
@end menu

@node Verifying key certifications
@subsection Verifying key certifications

@example
import gpg

c = gpg.Context()
uid = "Danger Mouse <dm@@secret.example.net>"

# dmfpr is the key's fingerprint
# secret=True means that the key is secret
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)
@end example

@menu
* Verifying key certifications::
@end menu

@node Verifying key certifications
@subsection Verifying key certifications

@example
import gpg

c = gpg.Context()
uid = "Danger Mouse <dm@@secret.example.net>"

# dmfpr is the key's fingerprint
# secret=True means that the key is secret
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)
@end example

@menu
* Verifying key certifications::
@end menu

@node Verifying key certifications
@subsection Verifying key certifications

@example
import gpg

c = gpg.Context()
uid = "Danger Mouse <dm@@secret.example.net>"

# dmfpr is the key's fingerprint
# secret=True means that the key is secret
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)
@end example

@menu
* Verifying key certifications::
@end menu

@node Verifying key certifications
@subsection Verifying key certifications

@example
import gpg

c = gpg.Context()
uid = "Danger Mouse <dm@@secret.example.net>"

# dmfpr is the key's fingerprint
# secret=True means that the key is secret
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)
@end example

@menu
* Verifying key certifications::
@end menu

@node Verifying key certifications
@subsection Verifying key certifications

@example
import gpg

c = gpg.Context()
uid = "Danger Mouse <dm@@secret.example.net>"

# dmfpr is the key's fingerprint
# secret=True means that the key is secret
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)
@end example

@menu
* Verifying key certifications::
@end menu

@node Verifying key certifications
@subsection Verifying key certifications

@example
import gpg

c = gpg.Context()
uid = "Danger Mouse <dm@@secret.example.net>"

# dmfpr is the key's fingerprint
# secret=True means that the key is secret
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)
@end example

@menu
* Verifying key certifications::
@end menu

@node Verifying key certifications
@subsection Verifying key certifications

@example
import gpg

c = gpg.Context()
uid = "Danger Mouse <dm@@secret.example.net>"

# dmfpr is the key's fingerprint
# secret=True means that the key is secret
key = c.get_key(dmfpr, secret=True)
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@end example

@menu
* Verifying key certifications::
@end menu

@node Verifying key certifications
@subsection Verifying key certifications

@example
import gpg

c = gpg.Context()
import time
c = gpg.Context()
dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
keys = list(c.keylist(pattern=dmuid, mode=gpg.constants.keylist.mode.SIGS))
key = keys[0]

for user in key.uids:
    for sig in user.signatures:
        print("0x@{0@}",format(sig.keyid), ",", time.ctime(sig.timestamp), ",", sig.uid)
@end example

Which for Danger Mouse displays the following:

@example
0x92E3F6115435C65A  Thu Mar 15 13:17:44 2018  Danger Mouse <dm@@secret.example.net>
0x321E4E2373590E5D  Mon Nov 26 12:46:05 2018  Ben McGinnes <ben@@adversary.org>
@end example

The two key signatures listed are for the self-certification of Danger
Mouse's key made when the key was created in March, 2018; and the
second is a signature made by the author and set to expire at the end
of the year. Note that the second signature was made with the
following code (including the preceding code to display the output of
the certifications or key signatures):

@example
import gpg
import math
import pendulum
import time

hd = "/home/dm/.gnupg"
c = gpg.Context()
d = gpg.Context(home_dir=hd)
dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
dmuid = "Danger Mouse <dm@@secret.example.net>"
dkeys = list(c.keylist(pattern=dmuid))
dmkey = dkeys[0]
c.key_import(d.key_export(pattern=None))

tp = pendulum.period(pendulum.now(tz="local"), pendulum.datetime(2019, 1, 1))
ts = tp.total_seconds()
total_secs = math.ceil(ts)
c.key_sign(dmkey, uids=dmuid, expires_in=total_secs)

d.key_import(c.key_export(pattern=dmuid))
keys = list(c.keylist(pattern=dmuid, mode=gpg.constants.keylist.mode.SIGS))
key = keys[0]

for user in key.uids:
    for sig in user.signatures:
        print("0x@{0}@".format(sig.keyid), ",", time.ctime(sig.timestamp), ",", sig.uid)
@end example

Note that this final code block includes the use of a module which is
@emph{not} part of Python's standard library, the @uref{https://pendulum.eustace.io/, pendulum module}. Unlike
the standard datetime module, pendulum makes working with dates and
times significantly easier in Python; just as the requests module
makes working with HTTP and HTTPS easier than the builtin modules do.

Though neither requests nor pendulum are required modules for using
the GPGME Python bindings, they are both highly recommended more
generally.

@node Advanced or Experimental Use Cases
@chapter Advanced or Experimental Use Cases

@end menu

* C plus Python plus SWIG plus Cython::
@end end menu

@node C plus Python plus SWIG plus Cython
@section C plus Python plus SWIG plus Cython

In spite of the apparent incongruence of using Python bindings to a C
interface only to generate more C from the Python; it is in fact quite
possible to use the GPGME bindings with @uref{http://docs.cython.org/en/latest/index.html, Cython}. Though in
many cases
the benefits may not be obvious since the most computationally
intensive work never leaves the level of the C code with which GPGME
itself is interacting with.

Nevertheless, there are some situations where the benefits are
demonstrable. One of the better and easier examples being the one of
the early examples in this HOWTO, the @ref{Counting keys, , key counting} code. Running that
example as an executable Python script, @samp{keycount.py} (available in
the @samp{examples/howto/} directory), will take a noticeable amount of time
to run on most systems where the public keybox or keyring contains a
few thousand public keys.

Earlier in the evening, prior to starting this section, I ran that
script on my laptop; as I tend to do periodically and timed it using
@example
bash-4.4$ time keycount.py

Number of secret keys: 23
Number of public keys: 12112

real 11m52.945s
user 0m0.913s
sys 0m0.752s

bash-4.4$
@end example

Sometime after that I imported another key and followed it with a little test of Cython. This test was kept fairly basic, essentially lifting the material from the @uref{http://docs.cython.org/en/latest/src/tutorial/cython_tutorial.html, Cython Basic Tutorial} to demonstrate compiling Python code to C. The first step was to take the example key counting code quoted previously, essentially from the importing of the @samp{gpg} module to the end of the script:

@example
import gpg
c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)
seclist = list(seckeys)
secnum = len(seclist)
publist = list(pubkeys)
pubnum = len(publist)

print(''
    Number of secret keys: @0@
    Number of public keys: @1@
''
    .format(secnum, pubnum))
@end example

Save that into a file called @samp{keycount.pyx} and then create a @samp{setup.py} file which contains this:

@example
from distutils.core import setup
from Cython.Build import cythonize

setup(  
    ext_modules = cythonize("keycount.pyx")
)
@end example

Compile it:
@example
bash-4.4$ python setup.py build_ext --inplace
bash-4.4$
@end example

Then run it in a similar manner to @samp{keycount.py}:
@example
bash-4.4$ time python3.7 -c "import keycount"
Number of secret keys: 23
Number of public keys: 12113

real 6m47.905s
user 0m0.785s
sys 0m0.331s
bash-4.4$
@end example

Cython turned @samp{keycount.pyx} into an 81KB @samp{keycount.o} file in the @samp{build/} directory, a 24KB @samp{keycount.cpython-37m-darwin.so} file to be imported into Python 3.7 and a 113KB @samp{keycount.c} generated C source code file of nearly three thousand lines. Quite a bit bigger than the 314 bytes of the @samp{keycount.pyx} file or the full 1,452 bytes of the full executable @samp{keycount.py} example script.

On the other hand it ran in nearly half the time; taking 6 minutes and 47.905 seconds to run. As opposed to the 11 minutes and 52.945 seconds which the CPython script alone took.

The @samp{keycount.pyx} and @samp{setup.py} files used to generate this example have been added to the @samp{examples/howto/advanced/cython/} directory

The example versions include some additional options to annotate the existing code and to detect Cython’s use. The latter comes from the @uref{http://docs.cython.org/en/latest/src/tutorial/pure.html#magic-attributes-within-the-pxd, Magic Attributes} section of the Cython documentation.
Most of the things in the following sections are here simply because there was no better place to put them, even though some are only peripherally related to the GPGME Python bindings. Some are also workarounds for functions not integrated with GPGME as yet. This is especially true of the first of these, dealing with Group lines.

@menu
* Group lines::
* Keyserver access for Python::
* GPGME version checking::
@end menu

@node Group lines
@section Group lines

There is not yet an easy way to access groups configured in the gpg.conf file from within GPGME. As a consequence these central groupings of keys cannot be shared amongst multiple programs, such as MUAs readily.

The following code, however, provides a work-around for obtaining this information in Python.

@example
import subprocess
import sys

if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-options gpg"
else:
    gpgconfcmd = "gpgconf --list-options gpg"

process = subprocess.Popen(gpgconfcmd.split(), stdout=subprocess.PIPE)
procom = process.communicate()

if sys.version_info[0] == 2:
    lines = procom[0].splitlines()
else:
    lines = procom[0].decode().splitlines()

for line in lines:
    if line.startswith("group") is True:
        break
The result of that code is that `group_lines` is a list of lists where `group_lines[i][0]` is the name of the group and `group_lines[i][1]` is the key IDs of the group as a string.

The `group_lists` result is very similar in that it is a list of lists. The first part, `group_lists[i][0]` matches `group_lines[i][0]` as the name of the group, but `group_lists[i][1]` is the key IDs of the group as a list.

A demonstration of using the `groups.py` module is also available in the form of the executable `mutt-groups.py` script. This second script reads all the group entries in a user's `gpg.conf` file and converts them into crypt-hooks suitable for use with the Mutt and Neomutt mail clients.

Since it rewrites the `hkp` protocol prefix as `http` and `hkps` as `https`, the module is able to be used even with servers which do not support the full scope of keyserver functions. Such as with ProtonMail servers. This also means that restricted servers which only advertise either HTTP or HTTPS end points and not HKP or HKPS end points must still be identified as as HKP or HKPS within the Python Code. The `hkp4py` module will rewrite these appropriately when the connection is made to the server. It also works quite readily when incorporated into a `C plus Python plus SWIG plus Cython` generated and compiled version of any code.
The hkp4py module returns key data via requests as string literals (@samp{r.text}) instead of byte literals (@samp{r.content}). This means that the retruned key data must be encoded to UTF-8 when importing that key material using a @samp{gpg.Context().key_import()} method. For this reason an alternative method has been added to the @samp{search} function of @samp{hkp4py.KeyServer()} which returns the key in the correct format as expected by @samp{key_import}. When importing using this module, it is now possible to import with this:

@example
for key in keys:
    if key.revoked is False:
        gpg.Context().key_import(key.key_blob)
    else:
        pass
@end example

Without that recent addition it would have been necessary to encode the contents of each @samp{hkp4py.KeyServer().search()[i].key} in @samp{hkp4py.KeyServer().search()} before trying to import it.

An example of this is included in the @ref{Importing keys, , Importing Keys} section of this HOWTO and the corresponding executable version of that example is available in the @samp{lang/python/examples/howto} directory as normal; the executable version is the @samp{import-keys-hkp.py} file.

For various reasons it may be necessary to check which version of GPGME the bindings have been built against; including whether a minimum required version of GPGME is in use.

For the most part the @samp{gpg.version.versionstr} and @samp{gpg.version.versionlist} methods have been quite sufficient. The former returns the same string as @samp{gpgme-config --version}, while the latter returns the major, minor and patch values in a list.

To check if the installed bindings have actually been built against
the current installed libgpgme version, this check can be performed:

```python
@example
import gpg
import subprocess
import sys

gpgme_version_call = subprocess.Popen(['gpgme-config', '--version'],
    stdout=subprocess.PIPE,
    stderr=subprocess.PIPE)
gpgme_version_str = gpgme_version_call.communicate()

if sys.version_info[0] == 2:
    gpgme_version = gpgme_version_str[0].strip()
elif sys.version_info[0] >= 3:
    gpgme_version = gpgme_version_str[0].decode().strip()
else:
    gpgme_version = None

if gpgme_version is not None:
    if gpgme_version == gpg.version.versionstr:
        print("The GPGME Python bindings match libgpgme.")
    else:
        print("The GPGME Python bindings do NOT match libgpgme.")
else:
    print("Upgrade Python and reinstall the GPGME Python bindings.")
@end example
```

For many developers, however, the preferred checking means checking for a minimum version or point release. This is now readily available via the `gpg.version.versionintlist` method (added in version `1.12.1-beta79`). It is also now possible to easily check whether the installed GPGME Python bindings were built from a development or beta branch of the GPGME source code.

The following code demonstrates how both of those methods may be used:

```python
@example
import gpg

try:
    if gpg.version.is_beta is True:
        print("The installed GPGME Python bindings were built from beta code.")
    else:
        print("The installed GPGME Python bindings are a released version.")
except Exception as e:
    print(e)
```
try:
    if gpg.version.versionintlist[0] == 1:
        if gpg.version.versionintlist[1] == 12:
            if gpg.version.versionintlist[2] == 1:
                print("This is the minimum version for using versionintlist.")
            elif gpg.version.versionintlist[2] > 1:
                print("The versionintlist method is available.")
            else:
                pass
        elif gpg.version.versionintlist[1] > 12:
            print("The versionintlist method is available.")
        else:
            pass
    elif gpg.version.versionintlist[0] > 1:
        print("The versionintlist method is available.")
    else:
        pass
except Exception as e:
    print(e)
@end example

The points where @samp{pass} is used in the above example will most likely also produce an @samp{Exception} error since those results should only occur in versions which do not have the @samp{gpgme.version.is_beta} and @samp{gpgme.version.versionintlist} methods available.

@node Copyright and Licensing
@chapter Copyright and Licensing

@menu
* Copyright::
* Draft Editions of this HOWTO::
* License GPL compatible::
@end menu

@node Copyright
@section Copyright

Copyright  The GnuPG Project, 2018.

@node Draft Editions of this HOWTO
@section Draft Editions of this HOWTO

Draft editions of this HOWTO may be periodically available directly from the author at any of the following URLs:

@itemize
@item
These draft versions have been generated from this document via GNU Emacs to \samp{.texi} and GNU Texinfo to HTML. Though it is likely that the specific file version used will be on the same server with the generated output formats. Occasionally I may include the Org mode generated XHTML versions:

That XHTML version, however, is exported in a way which inherits a colour scheme from the author's Emacs theme (which is a higher contrast version of \href{http://kippura.org/zenburnpage/}{Zenburn} ported by Holomorph). So it's fine for people who prefer dark themed web pages, but not so great for everyone else.

The GNU Texinfo and reStructured Text versions ship with the software, while the GNU Emacs Info version is generated from the Texinfo version using GNU Texinfo or GNU Makeinfo. The Texinfo format is generated from the original Org mode source file in Org mode itself either within GNU Emacs or via the command line by invoking Emacs in batch mode:
The reStructuredText format is also generated from the Org mode source file, except it is generated using @uref{https://pandoc.org, Pandoc} with either of the following commands (depending on the filename):

@example
pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto.org
pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto
@end example

Note that the Org mode source files are identified as such via a mode line at the top of each file and have had their @samp {.org} file extensions dropped in order to make scripted generation of output formats easier and not require renaming files post-conversion.

Due to a bug in Org mode's texinfo conversion method, the recommended steps for generating the Texinfo files for all the files in the @samp {lang/python/doc/src/} directory are as follows:

@example
for x in * ; do
  emacs $x --batch -f org-texinfo-export-to-texinfo --kill
  cat $x.texi | sed -e 's/@@documentencoding UTF-8/@@documentencoding utf-8/g' > ../texinfo/$x.texi
  pandoc -f org -t rst+smart -o ../rst/$x.rst $x
done ;
rm -fv *.texi
cd ../texinfo
mkdir info
mkdir html
for x in *.texi ; do
  makeinfo -v $x
  makeinfo --html --no-split $x
done ;
mv *.info info/
mv *.html html/
@end example

This code snippet includes the generation of the reStructuredText files and would be expected to be run from the @samp {doc/src/} directory containing the Org mode source files. It also assumes that the commands are being run on POSIX compliant systems with basic tools like sed, the Bourne shell and GNU Emacs @footnote{Okay, Emacs might not necessarily qualify as a basic tool, but it is common enough that having it installed on a system isn't too great an expectation, nor is it difficult to add to most POSIX systems, even if the users of those systems do not personally use it.} available. The code snippet also includes the steps for generating the Emacs Info files and HTML files from the Texinfo files. Using reStructuredText files with Sphinx is best left for the documentation of that project.
In addition to these there is a significantly less frequently updated version as a HTML source files, which can be found in an alternative branch of the GPGME git repository.

Various generated output formats may occasionally be found in subdirectories of the directory. In particular within the directories and the directory contains output files generated with Sphinx and may include a considerable number of its possible output formats, but there are no guarantees as to how recent these are or even if they are present.

These draft editions are not official documents and the version of documentation in the master branch or which ships with released versions is the only official documentation. Nevertheless, these draft editions may occasionally be of use by providing more accessible web versions which are updated between releases. They are provided on the understanding that they may contain errors or may contain content subject to change prior to an official release.

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@by
* What Was New

| Version:        | 0.0.1                                    |
| GPGME Version:  | 1.13.0                                   |
| Author:         | Ben McGinnes <ben@gnupg.org>             |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language:       | Australian English, British English      |
| xml:lang:       | en-AU, en-GB, en                         |

The following are all the past /What's New/ sections for the Python Bindings HOWTO and other documentation.

** What Was New in GPGME 1120

The most obviously new point for those reading this guide is this section on other new things, but that's hardly important. Not given all the other things which spurred the need for adding this section and its subsections.

*** New in GPGME 1120

There have been quite a number of additions to GPGME and the Python bindings to it since the last release of GPGME with versions 1.11.0 and 1.11.1 in April, 2018.

The bullet points of new additions are:

- an expanded section on [[file:gpgme-python-howto#installation][installing]] and [[file:gpgme-python-howto#snafu][troubleshooting]] the Python bindings.
- The release of Python 3.7.0; which appears to be working just fine with our bindings, in spite of intermittent reports of problems for many other Python projects with that new release.
- Python 3.7 has been moved to the head of the specified python versions list in the build process.
- In order to fix some other issues, there are certain underlying functions which are more exposed through the [file:gpgme-python-howto#howto-get-context][gpg.Context()], but ongoing documentation ought to clarify that or otherwise provide the best means of using the bindings. Some additions to =gpg.core= and the =Context()=, however, were intended (see below).
- Continuing work in identifying and confirming the cause of oft-reported [file:gpgme-python-howto#snafu-runtime-not-funtime][problems installing the Python bindings on Windows].
- GSOC: Google's Surreptitiously Ordered Conscription ... erm ... oh, right; Google's Summer of Code. Though there were two hopeful candidates this year; only one ended up involved with the GnuPG Project directly, the other concentrated on an unrelated third party project with closer ties to one of the GNU/Linux distributions than to the GnuPG Project. Thus the Python bindings benefited from GSOC participant Jacob Adams, who added the key_import function; building on prior work by Tobias Mueller.
- Several new methods functions were added to the gpg.Context(), including: [file:gpgme-python-howto#howto-import-key][key_import], [file:gpgme-python-howto#howto-export-key][key_export], [file:gpgme-python-howto#howto-export-public-key][key_export_minimal] and [file:gpgme-python-howto#howto-export-secret-key][key_export_secret].
- Importing and exporting examples include versions integrated with Marcel Fest's recently released [[https://github.com/Selfnet/hkp4py][HKP for Python]] module. Some [file:gpgme-python-howto#hkp4py][additional notes on this module] are included at the end of the HOWTO.
- Instructions for dealing with semi-walled garden implementations like ProtonMail are also included. This is intended to make things a little easier when communicating with users of ProtonMail's services and should not be construed as an endorsement of said service. The GnuPG Project neither favours, nor disfavours ProtonMail and the majority of this deals with interacting with the ProtonMail keyservers.
- Semi-formalised the location where [file:gpgme-python-howto#draft-editions][draft versions] of this HOWTO may periodically be accessible. This is both for the reference of others and testing the publishing of the document itself. Renamed this file at around the same time.
- The Texinfo documentation build configuration has been replicated from the parent project in order to make to maintain consistency with that project (and actually ship with each release).
- a reStructuredText (=.rst=) version is also generated for Python developers more used to and comfortable with that format as it is the standard Python documentation format and Python developers may wish to use it with Sphinx. Please note that there has been no testing of the reStructuredText version with Sphinx at all. The reST file was generated by the simple expedient of using [[https://pandoc.org/][Pandoc]].
- Added a new section for [file:gpgme-python-howto#advanced-use][advanced or experimental use].
- Began the advanced use cases with [file:gpgme-python-howto#cython][a section] on using the module with
- Added a number of new scripts to the `example/howto/` directory; some of which may be in advance of their planned sections of the HOWTO (and some are just there because it seemed like a good idea at the time).
- Cleaned up a lot of things under the hood.

Deutsches Forschungsnetz-DFN-PCA1.0,U%DFN Top Level Certification Authority1!0*H
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.3922 wso2-carbon-event-application-deployer 5.1.42

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1.3923 curl 7.52.1-5+deb9u10

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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/**
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
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* <p>
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 * length of the message body or the whole message.
 * <p>
 * [LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 * lengthFieldOffset   = 0
 * lengthFieldLength   = 2
 * lengthAdjustment    = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * </pre>
 *
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * ------------------------+------------------------
 * | Length | Actual Content |----->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
 * ------------------------+------------------------
 * </pre>
 *
 * <h3>2 bytes length field at offset 0, strip header</h3>
 *<br/>

*/

/*
 */

/*
 */

/*
 * A decoder that splits the received [ByteBuf]s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
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 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment  = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * </pre>
 *
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * ------------------------+------------------------
 * | Length | Actual Content |----->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
 * ------------------------+------------------------
 * </pre>
 *
 * <h3>2 bytes length field at offset 0, strip header</h3>
 *<br/>

*/
Because we can get the length of the content by calling
[@link ByteBuf#readableBytes()], you might want to strip the length
field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we
specified `<tt>2</tt>`, that is same with the length of the length field, to
strip the first two bytes.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 2 (= the length of the Length field)
```

**BEFORE DECODE** (14 bytes) | **AFTER DECODE** (12 bytes)
--- | ---
| Length | Actual Content | Actual Content |
| 0x000C | "HELLO, WORLD" | "HELLO, WORLD" |

```
BEFORE DECODE (14 bytes) | AFTER DECODE (14 bytes)
--- | ---
| Length | Actual Content | Actual Content |
| 0x000E | "HELLO, WORLD" | "HELLO, WORLD" |
```

**BEFORE DECODE** (14 bytes) | **AFTER DECODE** (14 bytes)
--- | ---
| Length | Actual Content | Actual Content |
| 0x000E | "HELLO, WORLD" | "HELLO, WORLD" |

**In most cases, the length field represents the length of the message body**
only, as shown in the previous examples. However, in some protocols, the
length field represents the length of the whole message, including the
message header. In such a case, we specify a non-zero
lengthAdjustment`. Because the length value in this example message
is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`
as `<tt>lengthAdjustment</tt>` for compensation.

```
lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment  = -2 (= the length of the Length field)
initialBytesToStrip = 0
```

**BEFORE DECODE** (14 bytes) | **AFTER DECODE** (14 bytes)
--- | ---
| Length | Actual Content | Actual Content |
| 0x000E | "HELLO, WORLD" | "HELLO, WORLD" |
```
BEFORE DECODE (14 bytes) | AFTER DECODE (14 bytes)
--- | ---
| Length | Actual Content | Actual Content |
| 0x000E | "HELLO, WORLD" | "HELLO, WORLD" |
```

**The following message is a simple variation of the first example. An extra
header value is prepended to the message. `lengthAdjustment` is zero
again because the decoder always takes the length of the prepended data into
account during frame length calculation.**

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0
```

**BEFORE DECODE** (14 bytes) | **AFTER DECODE** (14 bytes)
--- | ---
| Length | Actual Content | Actual Content |
| 0x000E | "HELLO, WORLD" | "HELLO, WORLD" |
```
BEFORE DECODE (14 bytes) | AFTER DECODE (14 bytes)
--- | ---
| Length | Actual Content | Actual Content |
| 0x000E | "HELLO, WORLD" | "HELLO, WORLD" |
```
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive lengthAdjustment so that the decoder counts the extra
* header into the frame length calculation.
* 
* lengthFieldOffset = 0
* lengthFieldLength = 3
* lengthAdjustment = 2 (= the length of Header 1)
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive lengthAdjustment so that the decoder counts the extra
* header into the frame length calculation.
* 
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* lengthAdjustment = 1 (= the length of HDR2)
* initialBytesToStrip = 3 (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------------------------+ +----------------------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------------------------+ +----------------------------------+
* </pre>

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.<br>
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
* </pre>

* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +----------------------------------+ +----------------------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------------------------+ +----------------------------------+
* </pre>

* @see LengthFieldPrepender
*/

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jar/io/netty/handler/codec/LineBasedFrameDecoder.java
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jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
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jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
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jar/io/netty/handler/codec/MessageToByteEncoder.java
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jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
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jar/io/netty/handler/codec/serialization/ClassResolver.java
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jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
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jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
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jar/io/netty/handler/codec/string/package-info.java
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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java

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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
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 */

/**
 * Enumeration of supported Base64 dialects.
 *<p>
 * The internal lookup tables in this class has been derived from
 *<a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
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  jar/io/netty/handler/codec/compression/Bzip2Constants.java
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  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
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  jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
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  jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java

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1.3929 systemd-shim v250

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1.3932 zstd-jni 1.4.9-1

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Manifest-Version: 1.0
Automatic-Module-Name: com.github.luben.zstd_jni
Bnd-LastModified: 1615191527618
Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.
Bundle-License: https://opensource.org/licenses/BSD-2-Clause;description=BSD 2-Clause License
Bundle-ManifestVersion: 2
Bundle-Name: zstd-jni
Bundle-NativeCode: aix/ppc64/libzstd-jni.so;osname=AIX;processor=ppc64 , darwin/x86_64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=x86_64, darwin/aarch64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/libzstd-jni.so;osname=FreeBSD;processor=amd64, freebsd/i386/libzstd-jni.so;osname=FreeBSD;processor=i386 , linux/aarch64/libzstd-jni.so;osname=Linux;processor=aarch64, linux/amd64/libzstd-jni.so;osname=Linux;processor=amd64, linux/arm/libzstd-jni.so;osname=Linux;processor=arm, linux/i386/libzstd-jni.so;osname=Linux;processor=i386, linux/mips64/libzstd-jni.so;osname=Linux;processor=mips64, linux/ppc64/libzstd-jni.so;osname=Linux;processor=ppc64, linux/ppc64le/libzstd-jni.so;osname=Linux;processor=ppc64le, linux/s390x/libzstd-jni.so;osname=Linux;processor=s390x, win/amd64/libzstd-jni.dll;osname=Win32;processor=amd64, win/x86/libzstd-jni.dll;osname=Win32;processor=x86
Bundle-SymbolicName: com.github.luben.zstd-jni
Bundle-Vendor: com.github.luben
Bundle-Version: 1.4.9.1
Created-By: 1.8.0_275 (Debian)
Export-Package: com.github.luben.zstd;version="1.4.9.1",com.github.luben.zstd.util;version="1.4.9.1"
Implementation-Title: zstd-jni
Implementation-Vendor: com.github.luben
Implementation-Vendor-Id: com.github.luben
Implementation-Version: 1.4.9-1
Import-Package: org.osgi.framework;resolution=optional
Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.ppc64,linux.ppc64le,linux.mips64,linux.s390x,aix.ppc64,darwin.x86_64, darwin.aarch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Specification-Title: zstd-jni
Specification-Vendor: com.github.luben
Specification-Version: 1.4.9-1
Tool: Bnd-4.0.0.201805111645

Found in path(s):
* /opt/cola/permits/1176808707_1624967190.04/0/zstd-jni-1-4-9-1-jar/META-INF/MANIFEST.MF

1.3933 wso2-carbon-logging-view-ui 4.6.49
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1.3936 kerberos 1.18.2

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
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lib/libgss/g_inquire_cred.c
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.3947 minimal-json 0.9.2

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1.3949 python-dateutil 2.6.1
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1.3954 go-uber-org-multierr 1.1.0

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1.3955 wso2-carbon-governance-generic

4.7.27

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1.3956 function.prototype.name 1.1.5

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1.3957 @babel/types 7.18.7

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1.3958 python-configobj 5.0.6-2
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1.3959 plexus-interpolation 1.15
1.3960 ampersand-collection 2.0.2
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1.3961 libxfixes 5.0.3-1
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1.3962 bindings 1.3.1
1.3962.1 Available under license :

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node-bindings

============

### Helper module for loading your native module's .node file

This is a helper module for authors of Node.js native addon modules. It is basically the "swiss army knife" of `require()`ing your native module's `.node` file.

Throughout the course of Node's native addon history, addons have ended up being compiled in a variety of different places, depending on which build tool and which version of node was used. To make matters worse, now the _gyp_ build tool can produce either a _Release_ or _Debug_ build, each being built into different locations.

This module checks _all_ the possible locations that a native addon would be built at, and returns the first one that loads successfully.

Installation
Install with `npm`:

```bash
$ npm install bindings
```

Or add it to the "dependencies" section of your `package.json` file.

Example
-------

`require()`ing the proper bindings file for the current node version, platform and architecture is as simple as:

```js
var bindings = require('bindings')('binding.node')

// Use your bindings defined in your C files
bindings.your_c_function()
```

Nice Error Output
-----------------

When the `.node` file could not be loaded, `node-bindings` throws an Error with a nice error message telling you exactly what was tried. You can also check the `err.tries` Array property.

```javascript
Error: Could not load the bindings file. Tried:
/Users/nrajlich/ref/build/binding.node
/Users/nrajlich/ref/build/Debug/binding.node
/Users/nrajlich/ref/build/Release/binding.node
/Users/nrajlich/ref/out/Debug/binding.node
/Users/nrajlich/ref/Debug/binding.node
/Users/nrajlich/ref/out/Release/binding.node
/Users/nrajlich/ref/Release/binding.node
/Users/nrajlich/ref/build/default/binding.node
/Users/nrajlich/ref/compiled/0.8.2/darwin/x64/binding.node
  at bindings (/Users/nrajlich/ref/node_modules/bindings/bindings.js:84:13)
  at Object.<anonymous> (/Users/nrajlich/ref/lib/ref.js:5:47)
  at Module._compile (module.js:449:26)
  at Object.Module._extensions..js (module.js:467:10)
  at Module.load (module.js:356:32)
```
The searching for the `.node` file will originate from the first directory in which a `package.json` file is found.

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Found in path(s):
* /opt/cola/permits/1229324351_1645823786.34/0/bindings-1-3-1-1-tgz/package/README.md

1.3963 go-flags 1.3.0

1.3963.1 Available under license:

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1.3964 wso2-securevault 1.0.0-wso2v2
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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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* Copyright 1997 Christopher Evans (cevans@poppybank.com)
* Basic encoding and decoding of Macintosh files to the
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* ----------------------------------------------------------------------
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* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthol leonardr@netcom.com)

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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1.3966 strip-bom 3.0.0
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1.3967 uid-number 0.0.6

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1.3968 geronimo-stax-api 1.0.1.wso2v2

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1.3969 slf4j 2.0.0-alpha1

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  jar/org/apache/log4j/xml/DOMConfigurator.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/jar/org/apache/log4j/Level.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/spi/OptionHandler.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/spi/Filter.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/spi/LoggerRepository.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/LogManager.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
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  jar/org/apache/log4j/MDC.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/PropertyConfigurator.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/Spi.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/Category.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/Priority.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/FileManager.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/LogOutputStream.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/LogAppender.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/LogManager.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/LoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/LogListener.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/Category.java
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* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/LogListener.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-
  jar/org/apache/log4j/LoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/RollingFileAppender.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/AppenderSkeleton.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/SimpleLayout.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/Layout.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/Appender.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/Log4jLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/ConsoleAppender.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/PatternLayout.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/Logger.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/spi/LoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/spi/NDC.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/spi/helpers/LogLog.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/spi/ErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/spi/LoggingEvent.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/WriterAppender.java

1.3970 pg-connection-string 2.1.0

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1.3971 p-locate 2.0.0

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1.3972 @babel/helper-validator-identifier

7.18.6

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1.3973 wso2-carbon-event-stream-ui 5.1.42

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* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

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* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/DoNotCall.java
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 * /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/RestrictedApi.java
 * /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/MustBeClosed.java
 * /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CompatibleWith.java
 * /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/DoNotMock.java
 * /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/FormatMethod.java
 * /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/FormatString.java

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I did for the openldap server as long as this is consistent with the openldap license. Please forward this email to Kurt so he does the appropriate changes to the files to reflect this.

Regards, Juan

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* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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Regards, Kurt

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1.3983 wso2-carbon-event-processor-manager-commons 5.1.42

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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========

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* /opt/cola/permits/1110631614_1612120636.87/0/fis-components-lodash.isarray-3-0-4-0-gbfe7f4f-1-tar-gz/fis-components-lodash.isarray-e18427d/index.js

Jackson-dataformat-cbor 2.8.10

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Author: Gary.Pennington@uk.sun.com

hash.c: chained hash tables

Reference: Your favorite introductory book on algorithms

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1.3996 array-equal 1.0.0

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1.3997 leveldb 6.11.4

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1.3998 github.com/chartmuseum/storage

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goproperties - properties file decoder for Go

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- Axiom API (http://ws.apache.org/commons/axiom/modules/axiom-api)
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  jar/org/antlr/v4/runtime/ParserInterpreter.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/InterpreterRuleContext.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/tree/pattern/TokenTagToken.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
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* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/tree/pattern/Chunk.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/tree/pattern/ParseTreePatternMatcher.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
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* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/antlr/v4/runtime/tree/Trees.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/antlr/v4/runtime/atan/PredictionMode.java
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* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/antlr/v4/runtime/tree/gui/BasicFontMetrics.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/antlr/v4/runtime/tree/gui/PostScriptDocument.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/antlr/v4/runtime/atan/LoopEndState.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
jar/org/antlr/v4/runtime/tree/RuleNode.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/org/antlr/v4/runtime/misc/IntSet.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/org/antlr/v4/runtime/misc/TestRig.java
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* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/org/antlr/v4/runtime/dfa/LexerDFASerializer.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/org/antlr/v4/runtime/BufferedTokenStream.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/org/antlr/v4/runtime/ANTLRInputStream.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/org/antlr/v4/runtime/DefaultErrorStrategy.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/org/antlr/v4/runtime/ATNConfigSet.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/org/antlr/v4/runtime/AntLRInputStream.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/org/antlr/v4/runtime/tree/SyntaxTree.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/org/antlr/v4/runtime/misc/TestRig.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-jar/org/antlr/v4/runtime/OrderedATNConfigSet.java
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* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/atn/LexerPopModeAction.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/atn/LexerModeAction.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/atn/ATNType.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/atn/LexerSkipAction.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/atn/LexerMoreAction.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/atn/ProfilingATNSimulator.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
  jar/org/antlr/v4/runtime/atn/LexerIndexedCustomAction.java
* /opt/cola/permits/1151707552_1617966519.69/0/antlr4-runtime-4-5-sources-1-
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.4017 grpc-gateway 1.9.5

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  - Provide alternative text
  - Are described in the surrounding text
- Images of text are not used (such as with code fragments)
- Links provide descriptive text about the target (not _click here_)
- Tables:
  - Include a caption
  - Contain headings
  - Provide a logical reading order
  - Don’t contain empty cells
- Color is not used as the only visual means to convey information (not _check the green text_)

.Example image caption and description
Operators within the Strimzi architecture

Example table headings

File connectors

<table>
<thead>
<tr>
<th>File Connector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FileStreamSourceConnector</td>
<td>Transfers data to your Kafka cluster from a file (the source).</td>
</tr>
</tbody>
</table>

[contributing]

== Contributing to the documentation

Once you have your local repository set up and have up to date copies of upstream content you need to follow these steps to contribute to the documentation.

Procedure

. Open your terminal
. `cd` to the directory where your documentation resides
. Checkout the main branch
  +
  [source]
  ----
  $ git checkout main
  ----
. Update your local repository and fork with the upstream content
  +
  [source]
  ----
  $ git pull upstream main
  $ git push origin main --force
  ----
. Create a new branch for your work (using the issue number is helpful)
  +
  [source,options="nowrap",subs="+quotes"]
  ----
  $ git checkout -b <branch-name>
Make your edits in the editor of your choice
Save your changes locally
Build your documentation to verify that there are no build errors and that everything looks right
This can be done with the Make tooling
If you are creating new files, add the files to the repository

$ git status
$ git add <file-name>

Commit your changes
$ git commit -a -s -m "<message>"

Note that the project requires all commits to be signed off, indicating that you certify the changes with the developer certificate of origin (DCO).

Push your changes to your fork
$ git push origin HEAD

If the update is rejected because the commit is behind, merge your changes
$ git pull upstream main
$ git push -f origin HEAD

Visit your fork on GitHub
Click *Compare & pull request*
If a SME review is needed:
Add *SME Review Needed* label.
When SME review is complete, remove *SME Review Completed* label and go to step 16.
Add *Peer Review Needed* label and assign a Reviewer.
When peer review has been completed, the reviewer deletes the *Peer Review Needed* label and adds the *Peer Review Done* label.
When *Peer Review Done* label has been added:
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1.4024 docbook-xml 4.5-8

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<!-- File dbhierx.mod ..................................................... -->

<!-- ...................................................................... -->
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review in a comment.
to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbhier PUBLIC
 "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.2//EN"
 "dbhierx.mod">
%dbhier;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">
```

```xml
<!-- Entities for module inclusions ................................. -->

<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">
```

```xml
<!-- Entities for element classes ..................................... -->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">

<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">

<!ENTITY % local.book.class "">
<!ENTITY % book.class "book %local.book.class;">

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">

<!ENTITY % local.index.class "">
<!ENTITY % index.class "index|setindex %local.index.class;">

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">

<!ENTITY % local.section.class "">
<!ENTITY % section.class "section %local.section.class;">

<!ENTITY % local.nav.class "">
<!ENTITY % nav.class "toc|lot|index|glossary|bibliography"
<!-- Redeclaration placeholder ................................................. -->

<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<![%dbhier.redecl.module;]
<!-- Defining rdbhier here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier "">
%rdbhier;
<!--end of dbhier.redecl.module--> ]>

<!-- Entities for element mixtures ...................................... -->

<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|%ndxterm.class; |beginpage
   %forms.hook;
%local.divcomponent.mix;">

<!ENTITY % local.refcomponent.mix "">
<!ENTITY % refcomponent.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|%ndxterm.class; |beginpage
%local.refcomponent.mix;">

<!ENTITY % local.indexdivcomponent.mix "">
<!ENTITY % indexdivcomponent.mix
"itemizedlist|orderedlist|variablelist|simplelist
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|anchor|remark
<!-- Contents: IDs of the ToC, LoTs, Prefaces, Parts, Chapters, Appendixes, References, Glossary, Bibliography, and indexes comprising the Book, in the order of their appearance -->

<!-- Dedication, ToC, and LoT ............................................. -->
<!ENTITY % toc.element "INCLUDE">  
<![%toc.element;[  
<ELEMENT toc %ho; (beginpage?,  
(%bookcomponent.title.content;)?,  
tocfront*,  
(tocpart | tocchap)*, tocback*)>  
<!--end of toc.element-->]]> 

<!ENTITY % toc.attlist "INCLUDE">  
<![%toc.attlist;[  
<!ATTLIST toc  
%pagenum.attrib;  
%common.attrib;  
%toc.role.attrib;  
%local.toc.attrib;  
>  
<!--end of toc.attlist-->]]>  
<!--end of toc.module-->]]>

<!ENTITY % tocfront.module "INCLUDE">  
<![%tocfront.module;[  
<!ENTITY % local.tocfront.attrib "">  
<!ENTITY % tocfront.role.attrib "%role.attrib;">  

<!ENTITY % tocfront.element "INCLUDE">  
<![%tocfront.element;[  
<!ELEMENT tocfront %ho; (%para.char.mix;)*>  
<!--end of tocfront.element-->]]>  

<!-- to element that this entry represents -->

<!ENTITY % tocfront.attlist "INCLUDE">  
<![%tocfront.attlist;[  
<!ATTLIST tocfront  
%label.attrib;  
%linkend.attrib;%pagenum.attrib;  
%common.attrib;  
%tocfront.role.attrib;  
%local.tocfront.attrib;  
>  
<!--end of tocfront.attlist-->]]>  
<!--end of tocfront.module-->]]>

<!ENTITY % tocentry.module "INCLUDE">  
<![%tocentry.module;[  
<!ENTITY % local.tocentry.attrib "">  
<!ENTITY % tocentry.role.attrib "%role.attrib;">  

<!ENTITY % tocentry.element "INCLUDE">  
<![%tocentry.element;[  
<!ELEMENT tocentry %ho; (%para.char.mix;)*>  
<!--end of tocentry.element-->]]>  

<!-- to element that this entry represents -->
<!ENTITY % lot.role.attrib "%role.attrib;">

<!ENTITY % lot.element "INCLUDE">
<![[%lot.element;[
<!ELEMENT lot %ho; (beginpage?, (%bookcomponent.title.content;)?, lotentry*)>
<!--end of lot.element-->]]>

<!ENTITY % lot.attlist "INCLUDE">
<![[%lot.attlist;[
<!ATTLIST lot
%label.attrib;
%common.attrib;
%lot.role.attrib;
%local.lot.attrib;
>
<!--end of lot.attlist-->]]>
<!--end of lot.module-->]]>

<!ENTITY % lotentry.module "INCLUDE">
<![[%lotentry.module;[
<!ENTITY % local.lotentry.attrib "">
<!ENTITY % lotentry.role.attrib "%role.attrib;">

<!ENTITY % lotentry.element "INCLUDE">
<![[%lotentry.element;[
<!ELEMENT lotentry %ho; (%para.char.mix;)*>
<!--end of lotentry.element-->]]>

<!-- SrcCredit: Information about the source of the entry, as for a list of illustrations -->
<!-- linkend: to element that this entry represents-->
<!ENTITY % lotentry.attlist "INCLUDE">
<![[%lotentry.attlist;[
<!ATTLIST lotentry
%linkend.attrib;
%pagenum.attrib;
srccreditCDATA#IMPLIED
%common.attrib;
%lotentry.role.attrib;
%local.lotentry.attrib;
>
<!--end of lotentry.attlist-->]]>
<!--end of lotentry.module-->]]>

<!-- Appendix, Chapter, Part, Preface, Reference, PartIntro .......... -->
<!-- End of module -->}
An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book. -->

Class: Indicates the type of a particular article; all articles have the same structure and general purpose. No default. -->

ParentBook: ID of the enclosing Book -->

|class(journalarticle
|productsheet
|whitepaper
|techreport
|specification
|faq)#IMPLIED
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-4.5.c31424/docbook-4.3/calstblx.dtd

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<!-- ...................................................................... -->
<!-- DocBook notations module V4.5 ........................................ -->
<!-- File dbnotnx.mod ..................................................... -->
<!-- File dbnotnx.mod ..................................................... -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbnotnx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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-->
<!-- This module contains the notation declarations used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook Notations V4.5//EN"
"dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.
-->

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class
"BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
| EPS | EQN | FAX | GIF | GIF87a | GIF89a
| JPG | JPEG | IGES | PCX
| PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
| SVG | PDF | SWF
| linespecific
%local.notation.class;">n
<!NOTATION BMPPUBLIC
"+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFFSYSTEM "DITROFF">
<!NOTATION DVISYSTEM "DVI">
<!NOTATION EPSPUBLIC
<!NOTATION EQNSYSTEM "EQN">
<!NOTATION FAXPUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untiled Raster//EN">
<!NOTATION GIFSYSTEM "GIF">
<!NOTATION GIF87a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN">
<!NOTATION GIF89a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPGSYSTEM "JPG">
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<!-- This module contains the definitions for elements that are isomorphic to the HTML elements. One could argue we should instead have based ourselves on the XHTML Table Module, but the HTML one is more like what browsers are likely to accept today and users are likely to use.

This module has been developed for use with the DocBook V4.3 "union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % htmltbl PUBLIC
   "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.3//EN"
   "htmltblx.mod">
%htmltbl;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- XHTML Tables -->

<!ENTITY % html.coreattrs "id ID #IMPLIED
class CDATA #IMPLIED
style CDATA #IMPLIED
title CDATA #IMPLIED">

<!-- Does not contain lang or dir because they are in %common.attribs -->

<!ENTITY % i18n
"xml:lang NMTOKEN #IMPLIED"
>
<!ENTITY % events "onclick CDATA #IMPLIED
ondblclick CDATA #IMPLIED
onmousedown CDATA #IMPLIED
onmouseup CDATA #IMPLIED
onmouseover CDATA #IMPLIED
onmousemove CDATA #IMPLIED
onmouseout CDATA #IMPLIED
onkeydown CDATA #IMPLIED
onkeyup CDATA #IMPLIED"
>
<!ENTITY % attrs "%html.coreattrs; %i18n; %events;">

<!ENTITY % cellhalign "align (left|center|right|justify|char) #IMPLIED
char CDATA #IMPLIED
charoff CDATA #IMPLIED"
>

<!ENTITY % cellvalign "valign (top|middle|bottom|baseline) #IMPLIED"
>

<!ELEMENT colgroup (col)*>
<!ELEMENT col EMPTY>
<!ELEMENT tr (th|td)+>
<!ELEMENT th (%para.char.mix; | %tabentry.mix;)*>
<!ELEMENT td (%para.char.mix; | %tabentry.mix;)*>

<!ATTLIST colgroup %attrs;
span CDATA "1"
width CDATA #IMPLIED
%cellhalign;
%cellvalign;
>

<!ATTLIST col %attrs;
span CDATA "1"
width CDATA #IMPLIED
%cellhalign;
%cellvalign;
&gt;

<!ATTLIST tr
%attrs;
%cellhalign;
%cellvalign;
bgccolor CDATA #IMPLIED
&gt;

<!ATTLIST th
%attrs;
abbr CDATA #IMPLIED
axis CDATA #IMPLIED
headers IDREFS #IMPLIED
scope (row|col|rowgroup|colgroup) #IMPLIED
rowspan CDATA "1"
colspan CDATA "1"
%cellhalign;
%cellvalign;
nowrap (nowrap) #IMPLIED
bgcolor CDATA #IMPLIED
width CDATA #IMPLIED
height CDATA #IMPLIED
&gt;

<!ATTLIST td
%attrs;
abbr CDATA #IMPLIED
axis CDATA #IMPLIED
headers IDREFS #IMPLIED
scope (row|col|rowgroup|colgroup) #IMPLIED
rowspan CDATA "1"
colspan CDATA "1"
%cellhalign;
%cellvalign;
nowrap (nowrap) #IMPLIED
bgcolor CDATA #IMPLIED
width CDATA #IMPLIED
height CDATA #IMPLIED
&gt;

<!-- ============================================================== -->
<!-- Set up to read in the CALS model configured to merge with the XHTML table model -->
<!-- ============================================================== -->

<!ENTITY % tables.role.attrib "%role.attrib;">
Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook. In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook XML Character Entities V4.1.2//EN"
dbcentx.mod>
%dbcent;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->

<!-- ...................................................................... -->

<!ENTITY % ISOamsa.module "INCLUDE">
<![%ISOamsa.module;[
<!ENTITY % ISOamsa PUBLIC
ent/iso-amsa.ent">
%ISOamsa;
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![%ISOamsb.module;[
<!ENTITY % ISOamsb PUBLIC
ent/iso-amsb.ent">
%ISOamsb;
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![%ISOamsc.module;[
<!ENTITY % ISOamsc PUBLIC
ent/iso-amsc.ent">
%ISOamsc;
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-4.5.c31424/docbook-4.5/calstblx.dtd

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<!-- ...................................................................... -->
<!-- DocBook XML information pool module V4.2 ............................. -->
<!-- File dbpoolx.mod ..................................................... -->

$Id: dbpoolx.mod,v 1.46 2002/07/17 15:26:16 nwalsh Exp $

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<!-- -->

<!-- ................................................................. -->
<!-- This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation. -->

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.2//EN"
"dbpoolx.mod">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->

<!-- General-purpose semantics entities -->

```xml
<!ENTITY % yesorno.attvals"CDATA">```

<!-- Entities for module inclusions -->

```xml
<!ENTITY % dbpool.redecl.module "IGNORE">```

<!-- Entities for element classes and mixtures -->

```xml
<!ENTITY % local.ndxterm.class "">```

<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->

```xml
<!ENTITY % local.ndxterm "">```
```xml
<!ENTITY % ndxterm.class
```
"indexterm %local.ndxterm.class;">

<!-- Object-level classes ................................................. -->

<!ENTITY % local.list.class "">
<!ENTITY % list.class
"calloutlist|glosslist|itemizedlist|orderedlist|segmentedlist
|simplelist|variablelist %local.list.class;">

<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"caution!important|note|tip|warning %local.admon.class;">

<!ENTITY % local.linespecific.class "">
<!ENTITY % linespecific.class
"literallayout|programlisting|programlistingco|screen
|screenco|screenshot %local.linespecific.class;">

<!ENTITY % local.method.synop.class "">
<!ENTITY % method.synop.class
"constructorsynopsis
 |destructorsynopsis
 |methodsynopsis %local.method.synop.class;">

<!ENTITY % local.synop.class "">
<!ENTITY % synop.class
"synopsis|cmdsynopsis|funcsynopsis
 |classsynopsis|fieldsynopsis
 |%method.synop.class; %local.synop.class;">

<!ENTITY % local.para.class "">
<!ENTITY % para.class
"formalpara|para|simpara %local.para.class;">

<!ENTITY % local.informal.class "">
<!ENTITY % informal.class
"address|blockquote
 |graphic|graphicco|mediaobject|mediaobjectco
 |informalequation
 |informalexample
 |informalfigure
 |informaltable %local.informal.class;">

<!ENTITY % local.formal.class "">
<!ENTITY % formal.class
"equation|example|figure|table %local.formal.class;">

<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
Footnote mixture  X  X  X  X  X
Example mixture    X  X  X  X  X
Highlights mixture  X  X  X
Paragraph mixture   X  X  X  X
Admonition mixture   X  X  X  X  X  b  c
Figure mixture      X  X  X
Table entry mixture X  X  X  X  d
Glossary def mixture X  X  X  X  X  e
Legal notice mixture X  X  X  X  f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->

<!ENTITY % local.component.mix">
<!ENTITY % component.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|%ndxterm.class; |beginpage
%local.component.mix;">

<!ENTITY % local.sidebar.mix">
<!ENTITY % sidebar.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;|procedure
|%genobj.class;
|%ndxterm.class; |beginpage
%local.sidebar.mix;">

<!ENTITY % local.qandaset.mix">
<!ENTITY % qandaset.mix
"%list.class; |%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;|procedure
|%genobj.class;
|%ndxterm.class;
%local.qandaset.mix;">
a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forminlines.hook "">
<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|%inlineobj.char.class;
|%synop.class;
|%ndxterm.class; |beginpage
 |%forminlines.hook;
|local.para.char.mix;">

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|%inlineobj.char.class;
|%ndxterm.class;
|local.title.char.mix;">

<!ENTITY % local.ndxterm.char.mix "">
<!ENTITY % ndxterm.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
<!-- Arch: Computer or chip architecture to which element applies; no default -->

<!ENTITY % arch.attrib "archCDATA#IMPLIED">

<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib "conditionCDATA#IMPLIED">

<!-- Conformance: Standards conformance characteristics -->

<!ENTITY % conformance.attrib "conformanceNM_TOKENS#IMPLIED">

<!-- OS: Operating system to which element applies; no default -->

<!ENTITY % os.attrib "osCDATA#IMPLIED">

<!-- Revision: Editorial revision to which element belongs; no default -->

<!ENTITY % revision.attrib "revisionCDATA#IMPLIED">

<!-- Security: Security classification; no default -->

<!ENTITY % security.attrib "securityCDATA#IMPLIED">

<!-- UserLevel: Level of user experience to which element applies; no default -->

<!ENTITY % userlevel.attrib "userlevelCDATA#IMPLIED">

<!-- Vendor: Computer vendor to which element applies; no default -->

<!ENTITY % vendor.attrib "vendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib
"%arch.attrib;
  %condition.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
  %security.attrib;
%userlevel.attrib;
%vendor.attrib;
%local.effectivity.attrib;">

<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib
"id		ID		#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib
"idID#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib
"langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib
"remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->

<!ENTITY % role.attrib
"roleCDATA#IMPLIED">

<!-- XRefLabel: Alternate labeling string for XRef text generation; -->
The bibliographic elements are typically used in the document.
hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->

<!ENTITY % local.person.ident.mix "">
<!ENTITY % person.ident.mix
"honorific|firstname|surname|lineage|othername|affiliation
|authorblurb|contrib %local.person.ident.mix;">

<!ENTITY % local.bibliocomponent.mix "">
<!ENTITY % bibliocomponent.mix
"abbrev|abstract|address|artpagenums|author
|authorgroup|authorinitials|bibliomisc|biblioset
|collab|configgroup|contractnum|contractsponsor
|copyright|corpauteur|corpname|date|edition
|editor|invpartnumber|isbn|issn|issuenum|organisation
|biblioid|citebiblioid|bibliosource|biorelationship|bibliocoverage
|othercredit|pagenums|printhistory|productname
|productnumber|pubdate|publisher|publishername
|pubsnumber|releaseinfo|revhistory|seriesvolnums
|subtitle|title|titleabbrev|volumenum|citetitle
|personname|%person.ident.mix;
|%ndxterm.class;
%local.bibliocomponent.mix;">

<!-- I don't think this is well placed, but it needs to be here because of -->
<!-- the reference to bibliocomponent.mix -->
<!ENTITY % local.info.class "">
<!ENTITY % info.class
"graphic | mediaobject | legalnotice | modespec
| subjectset | keywordset | itemset | %bibliocomponent.mix;
%local.info.class;">

<!ENTITY % biblioentry.module "INCLUDE">
<![%biblioentry.module;]
<!ENTITY % local.biblioentry.attrib "">
<!ENTITY % biblioentry.role.attrib " %role.attrib;">

<!ENTITY % biblioentry.element "INCLUDE">
<![%biblioentry.element;]
<!ELEMENT biblioentry %ho; ((articleinfo | (%bibliocomponent.mix;))+)
%ubiq.exclusion;>
<!--end of biblioentry.element-->

<!ENTITY % biblioentry.attlist "INCLUDE">
<![%biblioentry.attlist;]
<!ATTLIST biblioentry
%common.attrib;>
<!-- Subject, Keyword, and ITermSet elements ......................... -->

<!ENTITY % subjectset.content.module "INCLUDE">
<![%subjectset.content.module;]
<!ENTITY % subjectset.module "INCLUDE">
<![%subjectset.module;]
<!ENTITY % local.subjectset.attrib "">
<!ENTITY % subjectset.role.attrib "%role.attrib;">}

<!ENTITY % subjectset.element "INCLUDE">
<![%subjectset.element;]
<!ELEMENT subjectset %ho; (subject+)>
<!-- Scheme: Controlled vocabulary employed in SubjectTerms -->

<!ENTITY % subjectset.attlist "INCLUDE">
<![%subjectset.attlist;]
<!ATTLIST subjectset
schemeNMTOKEN#IMPLIED
%common.attrib;
%subjectset.role.attrib;
%local.subjectset.attrib;>

<!-- ...................................................................... -->
<!-- Subject, Keyword, and ITermSet elements .............................. -->

<!ENTITY % subjectset.content.module "INCLUDE">
<![%subjectset.content.module;]
<!ENTITY % subjectset.module "INCLUDE">
<![%subjectset.module;]
<!ENTITY % local.subjectset.attrib "">
<!ENTITY % subjectset.role.attrib "%role.attrib;">}

<!ENTITY % subjectset.element "INCLUDE">
<![%subjectset.element;]
<!ELEMENT subjectset %ho; (subject+)>
<!-- Scheme: Controlled vocabulary employed in SubjectTerms -->

<!ENTITY % subjectset.attlist "INCLUDE">
<![%subjectset.attlist;]
<!ATTLIST subjectset
schemeNMTOKEN#IMPLIED
%common.attrib;
%subjectset.role.attrib;
%local.subjectset.attrib;>
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 40282
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

<!-- Procedure ........................ -->

<!-- Procedure ......................... -->
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 40296
<!-- Lists -->
<!ENTITY % glosslist.module "INCLUDE">
<!ENTITY % empty %glosslist.module;
<!-- Lists -->
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<!ENTITY % glosslist.attlist "INCLUDE">
<!--end of glosslist.attlist-->
<!ENTITY % glossentry.content.module "INCLUDE">
<!ENTITY % glossentry.module "INCLUDE">
<!ENTITY % glossentry.role.attrib "%role.attrib;">
<!ENTITY % glossentry.element "INCLUDE">
<!ENTITY % glossentry.attlist "INCLUDE">
<!ATTLIST glossentry
sortas CDATA #IMPLIED
<!ELEMENT glossentry %ho; (glossterm, acronym?, abbrev?,
(ndxterm.class;)*,
revhistory?, (glosssee|glossdef+)>)
<!--end of glossentry.element-->
<!-- SortAs: String by which the GlossEntry is to be sorted
(alphabetized) in lieu of its proper content -->
<!ENTITY % glossentry.attlist "INCLUDE">
<!ATTLIST glossentry
sortasCDATA#IMPLIED
%common.attrib;
%glossentry.role.attrib;
%local.glossentry.attrib;
>
<!--end of glossentry.attlist-->
<!--end of glossentry.module-->

<!-- GlossTerm (defined in the Inlines section, below)--> 
ENTITY % glossdef.module "INCLUDE"
<![%glossdef.module;]
ENTITY % local.glossdef.attrib ""
ENTITY % glossdef.role.attrib "%role.attrib;"

ENTITY % glossdef.element "INCLUDE"
<![%glossdef.element;]
ELEMENT glossdef %ho; (%glossdef.mix;+, glossseealso*)
<!--end of glossdef.element-->

ENTITY % glossdef.attlist "INCLUDE"
<![%glossdef.attlist;]
ATTLIST glossdef
subjectCDATA#IMPLIED
%common.attrib;
glossdef.role.attrib;
glossdef.attlist;
>
<!--end of glossdef.attlist-->
<!--end of glossdef.module-->

ENTITY % glosssee.module "INCLUDE"
<![%glosssee.module;]
ENTITY % local.glosssee.attrib ""
ENTITY % glosssee.role.attrib "%role.attrib;"

ENTITY % glosssee.element "INCLUDE"
<![%glosssee.element;]
ELEMENT glosssee %ho; (%para.char.mix;*)
<!--end of glosssee.element-->

ENTITY % glosssee.attlist "INCLUDE"
<![%glosssee.attlist;]

<!-- Subject: List of subjects; keywords for the definition -->

<!-- OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSee -->

ENTITY % glosssee.attlist "INCLUDE"
<!!-- Spacing: Whether the vertical space in the list should be compressed -->
<!!-- Mark: Keyword, e.g., bullet, dash, checkbox, none; list of keywords and defaults are implementation specific -->

<!ENTITY % itemizedlist.attlist "INCLUDE">
<![[%itemizedlist.attlist;]
<!ATTLIST itemizedlist		spacing	(normal
|compact)#IMPLIED
%mark.attrib;
%common.attrib;
%itemizedlist.role.attrib;
%local.itemizedlist.attrib;
>]
<!--end of itemizedlist.attlist-->]
<!--end of itemizedlist.module-->]]>

<!ENTITY % orderedlist.module "INCLUDE">
<![%orderedlist.module;]
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">

<!ENTITY % orderedlist.element "INCLUDE">
<![%orderedlist.element;]
<!ELEMENT orderedlist %ho; (blockinfo?, (%formalobject.title.content;)?,
(%listpreamble.mix;)*, listitem+)>]
<!--end of orderedlist.element-->]]>

<!!-- Numeration: Style of ListItem numbered; default is expected to be Arabic -->
<!!-- InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b) -->
<!!-- Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues) -->
<!!-- Spacing: Whether the vertical space in the list should be compressed -->

<!ENTITY % orderedlist.attlist "INCLUDE">
<![%orderedlist.attlist;]
<!ATTLIST orderedlist
numeration(arabic

---
Override: Indicates the mark to be used for this ListItem instead of the default mark or the mark specified by the Mark attribute on the enclosing ItemizedList -->

SegmentedList .................... -->

SegmentedList Content Module
<!-- SimpleList ........................ -->

<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "include">
<![%simplelist.attlist;[
<!ATTLIST simplelist
columnsCDATA#IMPLIED
type(inline
|vert
|horiz)"vert"
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>]
<!--end of simplelist.attlist-->]]>
<!--end of simplelist.module-->]]>

<!ENTITY % member.module "include">
<![%member.module;[
<!ENTITY % local.member.attrib "">
<!ENTITY % member.role.attrib "%role.attrib;">]
<!ENTITY % member.element "include">
<![%member.element;[
<!ELEMENT member %ho; (%para.char.mix;)*>
<!--end of member.element-->]]>

<!ENTITY % member.attlist "include">
<![%member.attlist;[
<!ATTLIST member
%common.attrib;
%member.role.attrib;
%local.member.attrib;
>]
<!--end of member.attlist-->]]>
<!--end of member.module-->]]>
<!--end of simplelist.content.module-->]]>

<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "include">
<![%variablelist.content.module;[
<!ENTITY % variablelist.module "include">
<!ENTITY % local.areaspec.attrib "">
<!ENTITY % areaspec.role.attrib "%role.attrib;"> 

<!ENTITY % areaspec.element "INCLUDE"> 
<![%areaspec.element;[ 
<!ELEMENT areaspec %ho; ((area|areaset)+)> 
<!--end of areaspec.element-->]]>

<!-- Units: global unit of measure in which coordinates in this spec are expressed: 

- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes) 

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content 

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content 

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines) 

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword 

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) --> 
<!-- OtherUnits: User-defined units -->

</%areaspec.element;>
%local.areaspec.attrib;
>
<!-- end of areaspec.attlist-->
<!-- end of areaspec.module-->

<!ENTITY % area.module "INCLUDE">
<![%area.module;]
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;">

<!ENTITY % area.element "INCLUDE">
<![%area.element;]
<!ELEMENT area %ho; EMPTY>
<!-- end of area.element-->

<!-- bug number/symbol override or initialization -->
<!-- to any related information -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSet and AreaSpec -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % area.attlist "INCLUDE">
<![%area.attlist;[
<!ATTLIST area
%label.attrib;
%linkends.attrib;
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)##IMPLIED
otherunitsNMTOKEN##IMPLIED
coordsCDATA##REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>
<!-- end of area.attlist-->]]>
<!-- end of area.module-->]]>

<!ENTITY % areaset.module "INCLUDE">
<![%areaset.module;[
<!ENTITY % local.areaset.attrib "">
<!ENTITY % areaset.role.attrib "%role.attrib;">

<!ENTITY % areaset.element "INCLUDE">
<![%areaset.element;]
<!-- Tables ................................... -->

<!-- Choose a table model. CALS or OASIS XML Exchange -->

<!-- Add label and role attributes to table and informaltable -->

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). -->

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % local.informatable.attrib "">

<!ENTITY % informatable.element "INCLUDE">
<![%informatable.element;]
<!ELEMENT informaltable %ho; (blockinfo?, textobject*, (graphic+|mediaobject+|tgroup+))>
<!--end of informaltable.element-->]

<!ENTITY % informatable.attlist "INCLUDE">
<![%informatable.attlist;]
<!ATTLIST informaltable
frame(top
|bottom
|topbot
|all
|sides
|none)#IMPLIED
colsep%yesorno.attvals;#IMPLIED
rowsep%yesorno.attvals;#IMPLIED
%common.table.attribs;
%dbl.table.att;
%local.informatable.attrib;
>}
<!--end of informaltable.attlist-->
<!--end of informaltable.module-->

<!ENTITY % synopsis.module "INCLUDE">
<![%synopsis.module;]
<!ENTITY % local.synopsis.attrib "">
<!ENTITY % synopsis.role.attrib "%role.attrib;">  
<!ENTITY % synopsis.element "INCLUDE">
<![%synopsis.element;>
<!ELEMENT synopsis %ho; (%para.char.mix;|graphic|mediaobject|co|coref|textobject|lineannotation)*>
<!--end of synopsis.element-->]
>
<!ENTITY % synopsis.attlist "INCLUDE">
<!ATTLIST synopsis
%label.attrib;
%linespecific.attrib;
%common.attrib;
%synopsis.role.attrib;
%local.synopsis.attrib;
>
<!--end of synopsis.attlist-->
]
>}

<!-- LineAnnotation (defined in the Inlines section, below)-->}
<!--end of synopsis.module-->

<!-- CmdSynopsis ...................... -->

<!ENTITY % cmdsynopsis.content.module "INCLUDE">
<!ATTLIST cmdsynopsis
%label.attrib;
sepchar	CDATA	" 
cmdlength	CDATA	#IMPLIED
%common.attrib;
%camsynthesis.role.attrib;
%local.cmdsynopsis.attrib;
>
<!--end of cmdsynopsis.attlist-->
]
>}

<!-- Sepchar: Character that should separate command and all
top-level arguments; alternate value might be e.g., &Delta; -->

<!ENTITY % cmdsynopsis.attlist "INCLUDE">
<!ATTLIST cmdsynopsis
%label.attrib;
sepcharCDATA" "
cmdlengthCDATA#IMPLIED
%common.attrib;
%camsynthesis.role.attrib;
%local.cmdsynopsis.attrib;
>
<!--end of cmdsynopsis.attlist-->
]
>}

<!ELEMENT cmdsynopsis %ho; ((command | arg | group | sbr)+, synopfragment*)>
<!--end of cmdsynopsis.element-->
>
<!-- Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 40333 -->
The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies.
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 40372

%local.othercredit.attrib;
>
<![--end of othercredit.attlist-->]]>
<![--(see "Personal identity elements" for %person.ident.mix;)-->
<![--end of othercredit.module-->]]>

<![-- PageNums ......................... -->

<![ENTITY % pagenums.module "INCLUDE">
<![%pagenums.module;]
<![ENTITY % local.pagenums.attrib "">
<![ENTITY % pagenums.role.attrib "%role.attrib;">

<![ENTITY % pagenums.element "INCLUDE">
<![%pagenums.element;]
<![ELEMENT pagenums %ho; (%docinfo.char.mix;)*>
<![--end of pagenums.element-->]]>

<![ENTITY % pagenums.attlist "INCLUDE">
<![]%pagenums.attlist;]
<![ATTLIST pagenums
%common.attrib;
%pagenums.role.attrib;
%local.pagenums.attrib;
>
<![--end of pagenums.attlist-->]]>
<![--end of pagenums.module-->]]>

<![-- Personal identity elements ...... -->

<![-- These elements are used only within Author, Editor, and OtherCredit. -->

<![ENTITY % person.ident.module "INCLUDE">
<![%person.ident.module;]
<![ENTITY % contrib.module "INCLUDE">
<![%contrib.module;]
<![ENTITY % local.contrib.attrib "">
<![ENTITY % contrib.role.attrib "%role.attrib;">

<![ENTITY % contrib.element "INCLUDE">
<![%contrib.element;]
<![ELEMENT contrib %ho; (%docinfo.char.mix;)*>
<![--end of contrib.element-->]]>

<![ENTITY % contrib.attlist "INCLUDE">
<![%contrib.attlist;]
<![ATTLIST contrib

%local.contrib.attrib;
>
<![--end of contrib.attlist-->]]>
<![--end of contrib.module-->]]>

[^local.contrib.attrib;]
>
<!DOCTYPE html>
<html><head></head><body>

</body></html>
<ENTITY % errortype.module "INCLUDE">
<![%errortype.module;]
<ENTITY % local.errortype.attrib "">
<ENTITY % errortype.role.attrib "%role.attrib;">

<ENTITY % errortype.element "INCLUDE">
<![%errortype.element;]
<ELEMENT errortype %ho; (%smallcptr.char.mix;)>*
<!--end of errortype.element-->
]]>

<ENTITY % errortype.attlist "INCLUDE">
<![%errortype.attlist;]
<!ATTLIST errortype
  %common.attrib;
  %errortype.role.attrib;
  %local.errortype.attrib;
>
<!--end of errortype.attlist-->
]]>
<!--end of errortype.module-->
]]>

<ENTITY % filename.module "INCLUDE">
<![%filename.module;]
<ENTITY % local.filename.attrib "">
<ENTITY % filename.role.attrib "%role.attrib;">

<ENTITY % filename.element "INCLUDE">
<![%filename.element;]
<ELEMENT filename %ho; (%cptr.char.mix;)>*
<!--end of filename.element-->
]]>
<!-- Class: Type of filename the element names; no default -->
<!-- Path: Search path (possibly system-specific) in which file can be found -->

<ENTITY % filename.attlist "INCLUDE">
<![%filename.attlist;]
<!ATTLIST filename
class(headerfile
  |partition
  |devicefile
  |libraryfile
  |directory
  |extension
  |symlink) #IMPLIED
pathCDATA#IMPLIED
%moreinfo.attrib;
%common.attrib;
<!ENTITY % interface.role.attrib "INCLUDE">
<!--end of interface.role.attrib-->
<!--end of interface.attlist-->
<!ENTITY % local.interface.attrib "INCLUDE">
<!--end of local.interface.attrib-->
<!--end of interface.module-->

<!ENTITY % keycap.role.attrib "INCLUDE">
<!--end of keycap.role.attrib-->
<!--end of keycap.attlist-->
<!--end of keycap.module-->

<!ENTITY % local.keycap.attrib "INCLUDE">
<!--end of local.keycap.attrib-->
<!--end of keycap.element-->
<!--end of keycap.module-->

<!ENTITY % keycap.module "INCLUDE">
<!--end of keycap.module-->

<!ENTITY % keycap.role.attrib "INCLUDE">
<!--end of keycap.role.attrib-->
<!--end of keycap.attlist-->
<!--end of keycap.module-->

<!ENTITY % keycap.element "INCLUDE">
<!--end of keycap.element-->
<!--end of keycap.attlist-->
<!--end of keycap.module-->

<!ENTITY % keycode.role.attrib "INCLUDE">
<!--end of keycode.role.attrib-->
<!--end of keycode.attlist-->
<!--end of keycode.module-->

<!ENTITY % keycode.module "INCLUDE">
<!--end of keycode.module-->

<!ENTITY % keycode.element "INCLUDE">
<!--end of keycode.element-->
<!--end of keycode.attlist-->
<!--end of keycode.module-->

<!ENTITY % keycombo.module "INCLUDE">
<!--end of keycombo.module-->

<!ENTITY % moreinfo.attrib "INCLUDE">
<!--end of moreinfo.attrib-->
<!--end of keycode.attribute-->
<!--end of keycode.module-->

<!ENTITY % common.attrib "INCLUDE">
<!--end of common.attrib-->
<!--end of keycode.attribute-->
<!--end of keycode.module-->

<!ATTLIST keycap
%role.attrib;
%local.keycap.attrib;
%common.attrib;
%keycap.role.attrib;
%local.keycap.attrib;
>
<!--end of keycap.attribute-->
<!--end of keycap.module-->

<!ATTLIST keycode
%role.attrib;
%local.keycode.attrib;
%common.attrib;
%keycode.role.attrib;
%local.keycode.attrib;
>
<!--end of keycode.attribute-->
<!--end of keycode.module-->

<!ATTLIST keycombo
%role.attrib;
%local.keycombo.attrib;
%common.attrib;
%keycombo.role.attrib;
%local.keycombo.attrib;
>
<!-- Class: Type of information the element represents; no default -->

<!ENTITY % replaceable.attlist "INCLUDE">
<![%replaceable.attlist;[  
<!ATTLIST replaceable  
class(command  
|function  
|option  
|parameter)#IMPLIED  
%common.attrib;  
%replaceable.role.attrib;  
%local.replaceable.attrib;  
>  
<!--end of replaceable.attlist-->]]>
<!--end of replaceable.module-->]]>

<!ENTITY % returnvalue.module "INCLUDE">
<![%returnvalue.module;[  
<!ENTITY % local.returnvalue.attrib "">
<!ENTITY % returnvalue.role.attrib "%role.attrib;">  

<!ENTITY % returnvalue.element "INCLUDE">
<![%returnvalue.element;[  
<!ELEMENT returnvalue %ho; (%smallcptr.char.mix;)*>  
<!--end of returnvalue.element-->]]>

<!ENTITY % returnvalue.attlist "INCLUDE">
<![%returnvalue.attlist;[  
<!ATTLIST returnvalue  
%common.attrib;  
%returnvalue.role.attrib;  
%local.returnvalue.attrib;  
>  
<!--end of returnvalue.attlist-->]]>
<!--end of returnvalue.module-->]]>

<!ENTITY % sgmltag.module "INCLUDE">
<![%sgmltag.module;[  
<!ENTITY % local.sgmltag.attrib "">
<!ENTITY % sgmltag.role.attrib "%role.attrib;">  

<!ENTITY % sgmltag.element "INCLUDE">
<![%sgmltag.element;[  
<!ELEMENT sgmltag %ho; (%smallcptr.char.mix;)*>  
<!--end of sgmltag.element-->]]>
Pubwork: Genre of published work cited; no default -->
IndexTerms appear in the text flow for generating or linking an index. -->

Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) -->

Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) -->

Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges -->

StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm -->

Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs -->
"fourteen" for an element containing "14" -->

<!ENTITY % secondary.attlist "INCLUDE">
<![CDATA[%secondary.attlist;]][[CDATA[
<!ATTLIST secondary
sortas CDATA #IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>]]>

<!ENTITY % tertiary.attlist "INCLUDE">
<![CDATA[%tertiary.attlist;]][[CDATA[
<!ATTLIST tertiary
sortas CDATA #IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>]]>

<!ENTITY % seeseealso.module "INCLUDE">
<![CDATA[%seeseealso.module;]][[CDATA[
<!ENTITY % local.seeseealso.attrib "";
<!ENTITY % seeseealso.role.attrib "%role.attrib;";]]>

<!ENTITY % see.element "INCLUDE">
<![CDATA[%see.element;]][[CDATA[
<!ELEMENT see (ndxterm.char.mix;)*
>]]>

<!ENTITY % see.attlist "INCLUDE">
<![CDATA[%see.attlist;]][[CDATA[
<!ATTLIST see
%common.attrib;
%seeseealso.role.attrib;
%local.seeseealso.attrib;]]>
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-4.5.c31424/docbook-4.2/dbpoolx.mod

No license file was found, but licenses were detected in source scan.

---


$Id: dbpoolx.mod 6340 2006-10-03 13:23:24Z nwalsh$

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If you modify the DocBook XML DTD in any way, except for declaring and
referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->
<!-- This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation. This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.5//EN"
"dbpoolx.mod">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...................................................................... -->
<!-- Forms entities ....................................................... -->
<!-- These PEs provide the hook by which the forms module can be inserted into the DTD. -->

```xml
<!ENTITY % forminlines.hook "">
<!ENTITY % forms.hook "">
```
<!ENTITY % local.link.char.class "">
<!ENTITY % link.char.class "link|olink|ulink %local.link.char.class;"> 

<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % ebnf.inline.hook "">

<!ENTITY % local.tech.char.class "">
<!ENTITY % tech.char.class "action|application 
 |classname|methodname|interfacename|exceptionname
 |ooclass|ointerface|ooexception
 |package
 |command|computeroutput

|database|email|envar|errorcode|errorname|errortype|errortext|filename
|function|guibutton|guiicon|guilabel|guimenu|guimenuitem
|guimenu|hardware|interface|keycap
|keycode|keycombo|keysym|literal|code|constant|markup|medialabel
|menuchoice|mousebutton|option|optional|parameter
|prompt|property|replaceable|returnvalue|sgmltag|structfield
|structname|symbol|systemitem|uri|token|type|userinput|varname
%ebnf.inline.hook;
%local.tech.char.class;">

<!ENTITY % local.base.char.class "">
<!ENTITY % base.char.class "anchor %local.base.char.class;"> 

<!ENTITY % local.docinfo.char.class "">
<!ENTITY % docinfo.char.class "author|authorinitials|corpauthor|corpcredit|modespec|othercredit
|productname|productnumber|revhistory
%local.docinfo.char.class;">

<!ENTITY % local.other.char.class "">
<!ENTITY % other.char.class "remark|subscript|superscript %local.other.char.class;">

<!ENTITY % local.inlineobj.char.class "">
<!ENTITY % inlineobj.char.class "inlinegraphic|linenemediobject|inlineequation %local.inlineobj.char.class;"> 

<!-- ................................................................. -->
<!-- Entities for content models .................................. -->

<!ENTITY % formalobject.title.content "title, titleabbrev">
<!-- Redeclaration placeholder ............................................ -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![%dbpool.redecl.module:]
<!-- Defining rdbpool here makes some buggy XML parsers happy. -->
<!ENTITY % rdbpool "">
%rdbpool;
<!--end of dbpool.redecl.module-->]

<!-- Object-level mixtures ................................................ -->

<!-- Object-level mixtures ................................................ -->

</!
<!ENTITY % local.component.mix">
<!ENTITY % component.mix
"%list.class;%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;%compound.class;
%genobj.class;%descobj.class;
%ndxterm.class; beginpage
%forms.hook;
%local.component.mix;">
a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

-->

<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix "">

<!.--
#PCD xref word link cptr base dnfo othr inob (synop)
para.char.mix   X  X  X  X  X  X  X  X
title.char.mix  X  X  X  X  X  X  X  X
ndxterm.char.mix X  X  X  X  X  X  X  X  a
cptr.char.mix   X  X  X  X  X  a
smallcptr.char.mix X  b  a
word.char.mix   X  c  X  X  X  a
docinfo.char.mix X  d  X  b  X  a

-->

<!ENTITY % local.parachar.mix "">
<!ENTITY % parachar.mix "

---
"#PCDATA
| acronym| emphasis| trademark
| %link.char.class;
| %base.char.class;
| %other.char.class;| inlinemediaobject
| %ndxterm.class; | beginpage
%local.word.char.mix;"> 
   <!--ENTITY % local.docinfo.char.mix ""-->
<!--ENTITY % docinfo.char.mix ""#PCDATA
| %link.char.class;
| emphasis| trademark
| replaceable
| %other.char.class;| inlinemediaobject
| %ndxterm.class;
%local.docinfo.char.mix;"> 
   <!--ENTITY % bibliocomponent.mix (see Bibliographic section, below)-->
   <!--ENTITY % person.ident.mix (see Bibliographic section, below)-->

   <!-- Entities for attributes and attribute components .................. -->
   <!-- Effectivity attributes ................................................ -->

   <!-- Arch: Computer or chip architecture to which element applies; no default -->

   <!--ENTITY % arch.attrib "archCDATA#IMPLIED">
   <!-- Condition: General-purpose effectivity attribute -->

   <!--ENTITY % condition.attrib "conditionCDATA#IMPLIED">
   <!-- Conformance: Standards conformance characteristics -->

   <!--ENTITY % conformance.attrib "conformanceNMTOKENS#IMPLIED"> 
   <!-- OS: Operating system to which element applies; no default -->

   <!--ENTITY % os.attrib "osCDATA#IMPLIED">
<!-- Revision: Editorial revision to which element belongs; no default -->

<!ENTITY % revision.attrib
"revisionCDATA#IMPLIED">

<!-- Security: Security classification; no default -->

<!ENTITY % security.attrib
"securityCDATA#IMPLIED">

<!-- UserLevel: Level of user experience to which element applies; no default -->

<!ENTITY % userlevel.attrib
"userlevelCDATA#IMPLIED">

<!-- Vendor: Computer vendor to which element applies; no default -->

<!ENTITY % vendor.attrib
"vendorCDATA#IMPLIED">

<!-- Wordsize: Computer word size (32 bit, 64 bit, etc.); no default -->

<!ENTITY % wordsize.attrib
"wordsizeCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">

<!ENTITY % effectivity.attrib
"%arch.attrib;
 %condition.attrib;
 %conformance.attrib;
 %os.attrib;
 %revision.attrib;
 %security.attrib;
 %userlevel.attrib;
 %vendor.attrib;
 %wordsize.attrib;
 %local.effectivity.attrib;">

<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib
"idID#IMPLIED"
<!-- Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter -->

<!ENTITY % label.attrib "labelCDATA#IMPLIED">

<!-- xml:space: whitespace treatment -->

<!ENTITY % xml-space.attrib "xml:space(preserve)#IMPLIED">

<!-- Format: whether element is assumed to contain significant white space -->

<!ENTITY % linespecific.attrib "formatNOTATION(linespecific)'linespecific'
%xml-space.attrib;
linenumbering(numbered|unnumbered)#IMPLIED
continuation(continues|restarts)#IMPLIED
startinglinenumberCDATA#IMPLIED
languageCDATA#IMPLIED">

<!-- Linkend: link to related information; no default -->

<!ENTITY % linkend.attrib "linkendIDREF#IMPLIED">

<!-- Linkend: required link to related information -->

<!ENTITY % linkendreq.attrib "linkendIDREF#REQUIRED">

<!-- Linkends: link to one or more sets of related information; no default -->
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->
<!ENTITY % subject.module "INCLUDE">
<![subject.module;]
<!ENTITY % local.subject.attrib "">
<!ENTITY % subject.role.attrib "%role.attrib;">

<!ENTITY % subject.element "INCLUDE">
<![subject.element;]
<!--doc:One of a group of terms describing the subject matter of a document.-->
<!ELEMENT subject %ho; (subjectterm+)>  
<!--end of subject.element-->]]>

<!-- Weight: Ranking of this group of SubjectTerms relative to others, 0 is low, no highest value specified -->

<!ENTITY % subject.attlist "INCLUDE">
<![subject.attlist;[
<!ATTLIST subject weight CDATA #IMPLIED %common.attrib;
%subject.role.attrib;
%local.subject.attrib;
>  
<!--end of subject.attlist-->]]>
<!--end of subject.module-->]]>

<!ENTITY % subjectterm.module "INCLUDE">
<![subjectterm.module;]
<!ENTITY % local.subjectterm.attrib "">
<!ENTITY % subjectterm.role.attrib "%role.attrib;"> 

<!ENTITY % subjectterm.element "INCLUDE">
<![subjectterm.element;[
<!--doc:A term in a group of terms describing the subject matter of a document.-->
<!ELEMENT subjectterm %ho; (#PCDATA)>  
<!--end of subjectterm.element-->]]>

<!ENTITY % subjectterm.attlist "INCLUDE">
<![subjectterm.attlist;[
<!ATTLIST subjectterm %common.attrib;
%subjectterm.role.attrib;
%local.subjectterm.attrib;
>  
<!--end of subjectterm.attlist-->]]>
<!--end of subjectterm.module-->]]>
<!--doc:A detailed set of messages, usually error messages.--> <!--end of msgset.element-->

<!--end of msgset.attlist-->

<!--end of msgentry.module-->

<!--end of simplemsgentry.module-->
<!ENTITY % listitem.module "INCLUDE">
<![%listitem.module;]
<!ENTITY % local.listitem.attrib ">
<!ENTITY % listitem.role.attrib "%role.attrib;">

<!ENTITY % listitem.element "INCLUDE">
<![%listitem.element;]
<!doc:A wrapper for the elements of a list item.-->
<!ELEMENT listitem %ho; ((%component.mix;)+)>
<!end of listitem.element-->

<!-- Override: Indicates the mark to be used for this ListItem
instead of the default mark or the mark specified by
the Mark attribute on the enclosing ItemizedList -->

<!ENTITY % listitem.attlist "INCLUDE">
<![%listitem.attlist;]
<!ATTLIST listitem
overrideCDATA#IMPLIED
%common.attrib;
%listitem.role.attrib;
%local.listitem.attrib;
>
<!end of listitem.attlist-->

<!-- SegmentedList .................... -->
<!ENTITY % segmentedlist.content.module "INCLUDE">
<![%segmentedlist.content.module;]
<!ENTITY % segmentedlist.module "INCLUDE">
<![%segmentedlist.module;]
<!ENTITY % local.segmentedlist.attrib ">
<!ENTITY % segmentedlist.role.attrib "%role.attrib;">

<!ENTITY % segmentedlist.element "INCLUDE">
<![%segmentedlist.element;]
<!doc:A segmented list, a list of sets of elements.-->
<!ELEMENT segmentedlist %ho; (%formalobject.title.content;?,
   segtitle+,
   seglistitem+)>
<!end of segmentedlist.element-->

<!ENTITY % segmentedlist.attlist "INCLUDE">
<![%segmentedlist.attlist;]
<!ATTLIST segmentedlist

<!ENTITY % areaspec.content.module "INCLUDED">
<![!%areaspec.content.module;]
<!ENTITY % areaspec.module "INCLUDED">
<![!%areaspec.module;]
<!ENTITY % local.areaspec.attrib "">
<!ENTITY % areaspec.role.attrib "%role.attrib;">

<!ENTITY % areaspec.element "INCLUDED">
<![!%areaspec.element;]
<!--doc:A collection of regions in a graphic or code example.-->
<!ELEMENT areaspec %ho; ((area|areaset)+)>
<!--end of areaspec.element-->]]>

<!- Units: global unit of measure in which coordinates in
this spec are expressed: 

- CALSPair "x1.y1 x2,y2": lower-left and upper-right
coordinates in a rectangle describing repro area in which
graphic is placed, where X and Y dimensions are each some
number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number
at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline
to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending
points of area in "linespecific" content that starts at
first position and ends at second position (including the
beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute
to get implementation-specific keyword

The default is implementation-specific; usually dependent on
the parent element (GraphicCO gets CALSPair, ProgramListingCO
and ScreenCO get LineColumn) -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDED">
<![!%areaspec.attlist;]
<!ATTLIST areaspec
units(calspair
|linecolumn
|linerange

<!-- doc:A set of related areas in a graphic or code example. -->
<!ELEMENT areaset %ho; (area+)>
<!-- end of areaset.element-->

<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec -->

<!-- doc:A literal listing of all or part of a program. -->
<!ELEMENT programlisting %ho; (%para.char.mix;|co|coref|lineannotation|textobject)>
<!-- Equations ........................ -->

<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<!--ENTITY % equation.content "(alt?, (graphic+mediaobject+mathphrase+))"-->
<!--ENTITY % inlineequation.content "(alt?, (graphic+inlinemediaobject+mathphrase+))"-->

<!--ENTITY % equation.module "INCLUDE"-->
<%equation.module;{
<ENTITY % local.equation.attrib "";
<ENTITY % equation.role.attrib "%role.attrib;";

<ENTITY % equation.element "INCLUDE"-->
<%equation.element;{
<!--doc:A displayed mathematical equation.-->
<!--ELEMENT equation %ho; (blockinfo?, (%formalobject.title.content;)?, informalaequation | %equation.content;+)
<!--end of equation.element-->
]]>

<!ELEMENT mediaobjectco %ho; (areaspec, imageobject, calloutlist*)>
<!--end of mediaobjectco.element-->
]]>

<!ENTITY % local.imageobjectco.attrib "">
<!ENTITY % imageobjectco.role.attrib "%role.attrib;">
<!ENTITY % imageobjectco.element "INCLUDE">
<%imageobjectco.element;{
<!--doc:A wrapper for an image object with callouts.-->
<!--ELEMENT imageobjectco %ho; (areaspec, imageobject, calloutlist*)
<!--end of imageobjectco.element-->
]]>

<!ENTITY % imageobjectco.attlist "INCLUDE">
<%imageobjectco.attlist;{
<!ATTLIST mediaobjectco %common.attrib;
%mediaobjectco.role.attrib;
%local.mediaobjectco.attrib;

<!--end of mediaobjectco.attlist-->
]]>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<!--doc:A mathematical phrase, an expression that can be represented with ordinary text and a small amount of markup.-->

<!ELEMENT mathphrase %ho; (#PCDATA|subscript|superscript|emphasis)>
<!-- Tables ........................... -->
<!ENTITY % table.module "INCLUDE">
<![%table.module;[

<!-- Choose a table model. CALS or OASIS XML Exchange -->
<!ENTITY % cals.table.module "INCLUDE">
<![%cals.table.module;[
<!ENTITY % exchange.table.module "IGNORE">
]]>
<!ENTITY % exchange.table.module "INCLUDE">

<!-- Do we allow the HTML table model as well? -->
<!ENTITY % allow.html.tables "INCLUDE">
<![%allow.html.tables;[

<!-- xhtmltbl.mod defines HTML tables and sets parameter entities so that, when the CALS table module is read, we end up allowing any table to be CALS or HTML. i.e. This include must come first! -->
<!-- ============================================================== -->
<!ENTITY % htmltbl PUBLIC "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.5//EN" "htmltblx.mod"> %htmltbl;  
<!-- ============================================================== -->

<!ENTITY % tables.role.attrib "%role.attrib;"> 

<![%cals.table.module;[
<!-- Add label and role attributes to table and informaltable -->
<!ENTITY % bodyatt "floatstyle CDATA #IMPLIED rowheader(firstcol|norowheader)#IMPLIED %label.attrib;">

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). -->
<!ENTITY % secur "%common.attrib; %tables.role.attrib;">
<!ENTITY % arg.module "INCLUDE">
<![%arg.module;[
<!ENTITY % local.arg.attrib "">
<!ENTITY % arg.role.attrib "%role.attrib;">  

<!ENTITY % arg.element "INCLUDE">
<![%arg.element;[
<!doc:An argument in a CmdSynopsis.-->
<!ELEMENT arg %ho; (#PCDATA 
| arg 
| group 
| option 
| synopfragmentref 
| replaceable 
| sbr)*>  
<!--end of arg.element-->]]>

<!-- Choice: Whether Arg must be supplied: Opt (optional to supply, e.g. [arg]; the default), Req (required to supply, e.g. {arg}), or Plain (required to supply, e.g. arg) -->
<!-- Rep: whether Arg is repeatable: Norepeat (e.g. arg without ellipsis; the default), or Repeat (e.g. arg...) -->

<!ENTITY % arg.attlist "INCLUDE">
<![%arg.attlist;[
<!ATTLIST arg 
choice(opt 
| req 
|plain)opt' 
rep(norepeat 
|repeat)'norepeat' 
%common.attrib; 
%arg.role.attrib; 
%local.arg.attrib; >  
<!--end of arg.attlist-->]]>  
<!--end of arg.module-->]]> 

<!ENTITY % group.module "INCLUDE">
<![%group.module;[

<!ENTITY % local.group.attrib "">
<!ENTITY % group.role.attrib "%role.attrib;">  

<!ENTITY % group.element "INCLUDE">
<![%group.element;[}
<!--doc:A group of elements in a CmdSynopsis.-->
<!ELEMENT group %ho; ((arg | group | option | synopfragmentref | replaceable | sbr)+)>
<!!--end of group.element-->

<!-- Choice: Whether Group must be supplied: Opt (optional to supply, e.g. [g1|g2|g3]; the default), Req (required to supply, e.g. {g1|g2|g3}), Plain (required to supply, e.g. g1|g2|g3), OptMult (can supply zero or more, e.g. [[g1|g2|g3]], or ReqMult (must supply one or more, e.g. { {g1|g2|g3} }) -->
<!-- Rep: whether Group is repeatable: Norepeat (e.g. group without ellipsis; the default), or Repeat (e.g. group...) -->

<!ENTITY % group.attlist "INCLUDE">
<![%group.attlist;]
<!ATTLIST group choice(opt | req | plain) 'opt' rep(norepeat | repeat)'norepeat'
%common.attrib;
%group.role.attrib;
%local.group.attrib;
>
<!--end of group.attlist-->
<!--end of group.module-->

<!ENTITY % sbr.module "INCLUDE">
<![%sbr.module;]
<!ENTITY % local.sbr.attrib "">
<!-- Synopsis break -->
<!ENTITY % sbr.role.attrib "%role.attrib;">  

<!ENTITY % sbr.element "INCLUDE">
<![%sbr.element;]
<!--doc:An explicit line break in a command synopsis.-->
<!ELEMENT sbr %ho; EMPTY>
<!--end of sbr.element-->

<!ENTITY % sbr.attlist "INCLUDE">
<![%sbr.attlist;]
<!ATTLIST sbr %common.attrib; %sbr.role.attrib; %local.sbr.attrib;
<!-- Processing assumes that only one Parameter will appear in a ParamDef, and that FuncParams will be used at most once, for providing information on the "inner parameters" for parameters that are pointers to functions. -->

<!ENTITY % paramdef.module "INCLUDE">
<![%paramdef.module;[
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "%role.attrib;">

<!ENTITY % paramdef.element "INCLUDE">
<![%paramdef.element;[
<!--doc:Information about a function parameter in a programming language.-->
<!ELEMENT paramdef %ho; (#PCDATA
  | initializer
  | replaceable
  | parameter
  | funcparams)*>
</!--end of paramdef.element-->]]>

<!ENTITY % paramdef.attlist "INCLUDE">
<![%paramdef.attlist;[
<!ATTLIST paramdef
  choice(opt | req)#IMPLIED
  %common.attrib;
  %paramdef.role.attrib;
  %local.paramdef.attrib;
  >
</!--end of paramdef.attlist-->]]>

<!ENTITY % funcparams.module "INCLUDE">
<![%funcparams.module;[
<!ENTITY % local.funcparams.attrib "">
<!ENTITY % funcparams.role.attrib "%role.attrib;">

<!ENTITY % funcparams.element "INCLUDE">
<![%funcparams.element;[
<!--doc:Parameters for a function referenced through a function pointer in a synopsis.-->
<!ELEMENT funcparams %ho; (%cptr.char.mix;)*>
</!--end of funcparams.element-->]]>

<!ENTITY % funcparams.attlist "INCLUDE">
<!ENTITY % constructorsynopsis.element "INCLUDE">
<![%constructorsynopsis.element;]
<!--doc:A syntax summary for a constructor.-->
<!ELEMENT constructorsynopsis %ho; (modifier*,
  methodname?,
  (methodparam+|void?),
  exceptionname*)>
<!--end of constructorsynopsis.element-->

<!ENTITY % constructorsynopsis.attlist "INCLUDE">
<![%constructorsynopsis.attlist;]
<!--end of constructorsynopsis.module-->

<!ENTITY % destructorsynopsis.module "INCLUDE">
<![%destructorsynopsis.module;]
<!--doc:A syntax summary for a destructor.-->
<!ELEMENT destructorsynopsis %ho; (modifier*,
  methodname?,
  (methodparam+|void?),
  exceptionname*)>
<!--end of destructorsynopsis.element-->

<!ENTITY % destructorsynopsis.attlist "INCLUDE">
<![%destructorsynopsis.attlist;]
<!--end of destructorsynopsis.module-->

<!ENTITY % methodsynopsis.module "INCLUDE">
<![%methodsynopsis.module;]
<!ENTITY % postcode.attlist "INCLUDE">
<![%postcode.attlist:[
<!ATTLIST postcode
%common.attrib;
%postcode.role.attrib;
%local.postcode.attrib;
>
<!--end of postcode.attlist-->]]>
<!--end of postcode.module-->]]>

<!ENTITY % city.module "INCLUDE">
<![%city.module:]>
<!ENTITY % local.city.attrib "">
<!ENTITY % city.role.attrib "%role.attrib;">

<!ENTITY % city.element "INCLUDE">
<![%city.element:]>
<!doc:The name of a city in an address.-->
<!ELEMENT city %ho; (%docinfo.char.mix;)*>
<!--end of city.element-->]]>

<!ENTITY % city.attlist "INCLUDE">
<![%city.attlist:[
<!ATTLIST city
%common.attrib;
%city.role.attrib;
%local.city.attrib;
>
<!--end of city.attlist-->]]>
<!--end of city.module-->]]>

<!ENTITY % state.module "INCLUDE">
<![%state.module:]>
<!ENTITY % local.state.attrib "">
<!ENTITY % state.role.attrib "%role.attrib;">

<!ENTITY % state.element "INCLUDE">
<![%state.element:]>
<!doc:A state or province in an address.-->
<!ELEMENT state %ho; (%docinfo.char.mix;)*>
<!--end of state.element-->]]>

<!ENTITY % state.attlist "INCLUDE">
<![%state.attlist:[
<!ATTLIST state
%common.attrib;
%state.role.attrib;
<!ENTITY % jobtitle.element "INCLUDE">
<![%jobtitle.element:
<!!--doc:The title of an individual in an organization.-->
<!ELEMENT jobtitle %ho; (%docinfo.char.mix;)*>
<!!--end of jobtitle.element-->]]>

<!ENTITY % jobtitle.attlist "INCLUDE">
<![%jobtitle.attlist:
<!ATTLIST jobtitle
%common.attrib;
%jobtitle.role.attrib;
%local.jobtitle.attrib;
>
<!!--end of jobtitle.attlist-->]]>
<!-- OrgName (defined elsewhere in this section)-->
class(graphicdesigner
|productioneditor
|copyeditor
|technicaleditor
|translator
|other)#IMPLIED
%common.attrib;
%corperedit.role.attrib;
%local.corperedit.attrib;
>
<!-- end of corperedit.attlist-->]]>
<!-- end of corperedit.module-->]]>

<!-- CorpName ......................... -->

<!ENTITY % corpname.module "INCLUDE">
<![%corpname.module;]
<!ENTITY % local.corpname.attrib "">

<!ENTITY % corpname.element "INCLUDE">
<![%corpname.element;]
<!--doc:The name of a corporation.-->
<!ELEMENT corpname %ho; (%docinfo.char.mix;)*>
<!-- end of corpname.element-->]]>
<!ENTITY % corpname.role.attrib "%role.attrib;">

<!ENTITY % corpname.attlist "INCLUDE">
<![%corpname.attlist;]
<!ATTLIST corpname
%common.attrib;
%corpname.role.attrib;
%local.corpname.attrib;
>
<!-- end of corpname.attlist-->]]>
<!-- end of corpname.module-->]]>

<!-- Date ......................... -->

<!ENTITY % date.module "INCLUDE">
<![%date.module;]
<!ENTITY % local.date.attrib "">
<!ENTITY % date.role.attrib "%role.attrib;">

<!ENTITY % date.element "INCLUDE">
<![%date.element;]
<!--doc:The date of publication or revision of a document.-->
<!ELEMENT date %ho; (%docinfo.char.mix;)*>
<!-- end of date.element-->]]>
<ENTITY % classname.element "INCLUDE">
<![%classname.element:]
<!--doc:The name of a class, in the object-oriented programming sense.-->
<!ELEMENT classname %ho; (%smallcptr.char.mix;)*>
<!--end of classname.element-->
</ENTITY % classname.element-->
</ENTITY % classname.attlist "INCLUDE">
<![%classname.attlist:[
<!ATTLIST classname
%common.attrib;
%classname.role.attrib;
%local.classname.attrib;
>
<!--end of classname.attlist-->
</ENTITY % classname.module-->
</ENTITY % package.module "INCLUDE">
<![%package.module:[
<!ENTITY % local.package.attrib ""
<!ENTITY % package.role.attrib "%role.attrib;">
<!--end of package.module-->
</ENTITY % package.element "INCLUDE">
<![%package.element:]
<!--doc:A package.-->
<!ELEMENT package %ho; (%smallcptr.char.mix;)*>
<!--end of package.element-->
</ENTITY % package.attlist "INCLUDE">
<![%package.attlist:[
<!ATTLIST package
%common.attrib;
%package.role.attrib;
%local.package.attrib;
>
<!--end of package.attlist-->
</ENTITY % package.module-->
</ENTITY % co.module "INCLUDE">
<![%co.module:[
<!ENTITY % local.co.attrib ""
<!-- CO is a callout area of the LineColumn unit type (a single character position); the position is directly indicated by the location of CO. -->
<!ENTITY % co.role.attrib "%role.attrib;">
<!--end of co.module-->
</ENTITY % co.element "INCLUDE">
<![%co.element:]
<!--doc:The location of a callout embedded in text.-->
<!ELEMENT co %ho; EMPTY>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head></head>
<body>

<!-- Entity Definition for Software Environment Variable -->
<ENTITY %envar.element "INCLUDE">
  <!ATTLIST envar
    %common.attrib;
    %envar.role.attrib;
    %local.envar.attrib;
  >
  <!-- doc: A software environment variable. -->
  <!ELEMENT envar %ho; (%smallcptr.char.mix;)*>
  <!-- end of envar.element -->
</ENTITY>

<!-- Entity Definition for Error Code -->
<ENTITY %errorcode.element "INCLUDE">
  <!ATTLIST errorcode
    %moreinfo.attrib;
    %common.attrib;
    %errorcode.role.attrib;
  >
  <!-- doc: An error code. -->
  <!ELEMENT errorcode %ho; (%smallcptr.char.mix;)*>
  <!-- end of errorcode.element -->
</ENTITY>
</body>
</html>
<!ELEMENT option %ho; (%cptr.char.mix;)*>
<!--end of option.element-->]]>

<!ENTITY % option.attlist "INCLUDE">
<![%option.attlist;[
<!ATTLIST option
%common.attrib;
%option.role.attrib;
%local.option.attrib;
> 
<!--end of option.attlist-->]]>
<!--end of option.module-->]]>

<!ENTITY % optional.module "INCLUDE">
<![%optional.module;[
<!ENTITY % local.optional.attrib "">
<!ENTITY % optional.role.attrib "%role.attrib;">

<!ENTITY % optional.element "INCLUDE">
<![%optional.element;[
<!--doc:Optional information.-->
<!ELEMENT optional %ho; (%cptr.char.mix;)*>
<!--end of optional.element-->]]>
<!--end of optional.module-->]]>

<!ENTITY % optional.attlist "INCLUDE">
<![%optional.attlist;[
<!ATTLIST optional
%common.attrib;
%optional.role.attrib;
%local.optional.attrib;
> 
<!--end of optional.attlist-->]]>
<!--end of optional.module-->]]>

<!ENTITY % parameter.module "INCLUDE">
<![%parameter.module;[
<!ENTITY % local.parameter.attrib "">
<!ENTITY % parameter.role.attrib "%role.attrib;">

<!ENTITY % parameter.element "INCLUDE">
<![%parameter.element;[
<!--doc:A value or a symbolic reference to a value.-->
<!ELEMENT parameter %ho; (%cptr.char.mix;)*>
<!--end of parameter.element-->]]>
<!-- Class: Type of the Parameter; no default -->
<!ENTITY % local.returnvalue.attrib "">
<!ENTITY % returnvalue.role.attrib "%role.attrib;">

<!ENTITY % returnvalue.element "INCLUDE">
<![%returnvalue.element;>
<!--doc:The value returned by a function.-->
<!ELEMENT returnvalue %ho; (%smallcptr.char.mix;)*>
<!--end of returnvalue.element-->
]>]
</![%returnvalue.element;->]]>

<!ENTITY % returnvalue.attlist "INCLUDE">
<![%returnvalue.attlist;>
<!ATTLIST returnvalue
%common.attrib;
%returnvalue.role.attrib;
%local.returnvalue.attrib;
>
<!--end of returnvalue.attlist-->
]>]
</![%returnvalue.attlist;->]]>

<!ENTITY % sgmltag.module "INCLUDE">
<![%sgmltag.module;>
<!ENTITY % local.sgmltag.attrib "">
<!ENTITY % sgmltag.role.attrib "%role.attrib;">

<!ENTITY % sgmltag.element "INCLUDE">
<![%sgmltag.element;>
<!--doc:A component of SGML markup.-->
<!ELEMENT sgmltag %ho; (%smallcptr.char.mix;)*>
<!--end of sgmltag.element-->
]>]
</![%sgmltag.element;->]]>

<!-- Class: Type of SGML construct the element names; no default -->

<!ENTITY % sgmltag.attlist "INCLUDE">
<![%sgmltag.attlist;>
<!ATTLIST sgmltag
class (attribute
|attvalue
|element
|endtag
|emptytag
|genentity
|numcharref
|paramentity
|pi
|xmlpi
|starttag
|sgmlcomment

---
<!-- TYPE: Type of URI; no default -->

<!ENTITY % uri.element "INCLUDE">
<![%uri.element;]
<!--doc:A Uniform Resource Identifier.-->
<!ELEMENT uri %ho; (%smallcptr.char.mix;)*>
<![--end of uri.element-->]]>

<!-- Type: Type of URI; no default -->

<!ENTITY % uri.attlist "INCLUDE">
<![%uri.attlist;]
<!ATTLIST uri
typeCDATA#IMPLIED
%common.attrib;
%uri.role.attrib;
%local.uri.attrib;
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 40594
A cross reference to another part of the document.

A cross reference to a bibliographic entry.
<!ENTITY % beginpage.module "INCLUDE">
<![%beginpage.module;[%beginpage.attlist "INCLUDE"
<!\[%beginpage.attlist;
<!ATTLIST beginpage
%pagenum.attrib;
%common.attrib;
%beginpage.role.attrib;
%local.beginpage.attrib;
>
<![!-- PageNum: Number of page that begins at this point --]>

<!ENTITY % indexterm.content.module "INCLUDE">
<![%indexterm.content.module;[%indexterm.module "INCLUDE"
<![%indexterm.module;[%local.indexterm.attrib ""
<!ENTITY % indexterm.role.attrib "%role.attrib;">
<!ENTITY % indexterm.attrib "INCLUDE">
<![%indexterm.attrib;]
<!ELEMENT indexterm %ho; EMPTY>
<![!-- IndexTerms appear in the text flow for generating or linking an index. --]>

<!ENTITY % indexterm.element "INCLUDE">
<![%indexterm.element;]
<!ELEMENT indexterm %ho; (primary?, ((secondary, ((tertiary, (see|seealso+)?) | see | seealso+)?) | see | seealso+)?)
%ubiq.exclusion;>
<![!-- Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) --]>
<![!-- Significance: Whether this IndexTerm is the most pertinent --]>
of its series (Preferred) or not (Normal, the default) -->
<!-- Class: Indicates type of IndexTerm; default is Singular, 
or EndOfRange if StartRef is supplied; StartOfRange value 
must be supplied explicitly on starts of ranges -->
<!-- StartRef: ID of the IndexTerm that starts the indexing 
range ended by this IndexTerm -->
<!-- Zone: IDs of the elements to which the IndexTerm applies, 
and indicates that the IndexTerm applies to those entire 
elements rather than the point at which the IndexTerm 
occurs -->

<!ENTITY % indexterm.attlist "INCLUDE">
<![endif]>
<!ATTLIST indexterm
%pagenum.attrib;
scope(all
|global
|local)#IMPLIED
significance(preferred
|normal)"normal"
class(singular
|startofrange
|endofrange)#IMPLIED
startrefIDREF#IMPLIED
zoneIDREFS#IMPLIED
typeCDATA#IMPLIED
%common.attrib;
%indexterm.role.attrib;
%local.indexterm.attrib;
>
<!--end of indexterm.attlist-->
<!end of indexterm.module-->
 <![endif]>
<!ENTITY % primsecter.module "INCLUDE">
<![endif]>
<![if !defined(primsecter.role.attrib)>
<!ENTITY % local.primsecter.attrib "">
<!ENTITY % primsecter.role.attrib "%role.attrib;">  
<!ENTITY % primsector.attrib """

<!ENTITY % primary.element "INCLUDE">
<![endif]>
<![if !defined(primary.element-->
<!DOCTYPE...>
<!DOCTYPE...>
Permission to use, copy, modify and distribute the DocBook XML DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.3//EN"
"dbpoolx.mod">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!ENTITY % yesorno.attvals"CDATA">
```

```xml
<!ENTITY % dbpool.redecl.module "IGNORE">
```

```xml
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">
```

```xml
<!ENTITY % local.list.class "">
<!ENTITY % list.class
"calloutlist|glosslist|itemizedlist|orderedlist|segmentedlist |
simplelist|variablelist %local.list.class;">
```

```xml
<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"caution|important|note|tip|warning %local.admon.class;">
```

```xml
<!ENTITY % local.linespecific.class "">
<!ENTITY % linespecific.class
"literallayout|programlisting|programlistingco|screen |
screencol|screenshot %local.linespecific.class;">
```
<!ENTITY % local.method.synop.class "">
<!ENTITY % method.synop.class "constructorsynopsis | destructorsynopsis | methodsynopsis %local.method.synop.class;">

<!ENTITY % local.synop.class "">
<!ENTITY % synop.class "synopsis|cmdsynopsis|funcsynopsis | classsynopsis|fieldsynopsis | %method.synop.class; %local.synop.class;">

<!ENTITY % local.para.class "">
<!ENTITY % para.class "formalpara|para|simpara %local.para.class;">

<!ENTITY % local.informal.class "">
<!ENTITY % informal.class "address|blockquote | graphic|graphicco|mediaobject|mediaobjectco | informalequation | informalexample | informalfigure | informaltable %local.informal.class;">

<!ENTITY % local.formal.class "">
<!ENTITY % formal.class "equation|example|figure|table %local.formal.class;">

<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % ebnf.block.hook "">

<!ENTITY % local.compound.class "">
<!ENTITY % compound.class "msgset|procedure|sidebar|qandaset|task | %ebnf.block.hook; %local.compound.class;">

<!ENTITY % local.genobj.class "">
<!ENTITY % genobj.class "anchor|bridgehead|remark|highlights | %local.genobj.class;">

<!ENTITY % local.descobj.class "">
<!ENTITY % descobj.class "abstract|authorblurb|epigraph | %local.descobj.class;" >
<table>
<thead>
<tr>
<th>Object mixture</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sidebar mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>a</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Footnote mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Example mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highlights mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paragraph mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Admonition mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>b</td>
<td>c</td>
<td></td>
</tr>
<tr>
<td>Figure mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table entry mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>d</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glossary def mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>e</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Legal notice mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>f</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.
<!ENTITY % highlights.exclusion "-(%ubiq.mix;|%formal.class;)">
<!ENTITY % admon.exclusion "-(%admon.class;)">
<!ENTITY % formal.exclusion "-(%formal.class;)">
<!ENTITY % acronym.exclusion "-(acronym)">
<!ENTITY % beginpage.exclusion "-(beginpage)">
<!ENTITY % ndxterm.exclusion "-(%ndxterm.class;)">
<!ENTITY % blockquote.exclusion "-(epigraph)">
<!ENTITY % remark.exclusion "-(remark|%ubiq.mix;)">
<!ENTITY % glossterm.exclusion "-(glossterm)">
<!ENTITY % links.exclusion "-(link|olink|ulink|xref)">
]]> <!-- sgml.features -->

<!-- not [sgml.features] -->
<!ENTITY % local.ubiq.mix "">
<!ENTITY % ubiq.mix "">

<!ENTITY % ubiq.exclusion "">
<!ENTITY % ubiq.inclusion "">

<!ENTITY % footnote.exclusion "">
<!ENTITY % highlights.exclusion "">
<!ENTITY % admon.exclusion "">
<!ENTITY % formal.exclusion "">
<!ENTITY % acronym.exclusion "">
<!ENTITY % beginpage.exclusion "">
<!ENTITY % ndxterm.exclusion "">
<!ENTITY % blockquote.exclusion "">
<!ENTITY % remark.exclusion "">
<!ENTITY % glossterm.exclusion "">
<!ENTITY % links.exclusion "">
<!- ] not sgml.features -->

<!-
#PCD xref word link cptr base dafo othr inob (synop)
para.char.mix   X X X X X X X X X
title.char.mix  X X X X X X X X X
ndxterm.char.mix X X X X X X X a

cptr.char.mix   X X X X X a

cptr.char.mix   X X X X X a

cptr.char.mix   X X X X X a

cptr.char.mix   X X X X X a

cptr.char.mix   X X X X X a

a. Just InlineGraphic; no InLineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

-->
<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forminlines.hook "">

<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|%inlineobj.char.class;
|%synop.class;
|%ndxterm.class; |beginpage
    %forminlines.hook;
%local.para.char.mix;">

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|%inlineobj.char.class;
|%ndxterm.class;
%local.title.char.mix;">

<!ENTITY % local.ndxterm.char.mix "">
<!ENTITY % ndxterm.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|%inlineobj.char.class;
|%ndxterm.class;
%local.ndxterm.char.mix;">

<!ENTITY % local.cptr.char.mix "">
<!ENTITY % cptr.char.mix
"#PCDATA
|%link.char.class;|%tech.char.class;
|%base.char.class;
|%other.char.class;|%inlinegraphic|inlinemediaobject
|%ndxterm.class; |beginpage
%local.cptr.char.mix;">

<!ENTITY % local.smallcptr.char.mix "">
<!ENTITY % smallcptr.char.mix
"#PCDATA
|replaceable
<!ENTITY % arch.attrib "archCDATA#IMPLIED">

<!ENTITY % condition.attrib "conditionCDATA#IMPLIED">

<!ENTITY % conformance.attrib "conformanceNMTOKENS#IMPLIED">
The bibliographic elements are typically used in the document.
hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->

<!ENTITY % local.person.ident.mix "">
<!ENTITY % person.ident.mix
"honorific|firstname|surname|lineage|othername|affiliation
|authorblurb|contrib %local.person.ident.mix;">

<!ENTITY % local.bibliocomponent.mix "">
<!ENTITY % bibliocomponent.mix
"abbrev|abstract|address|artpagenums|author
|authorgroup|authorinitials|bibliomisc|biblioset
|collab|confgroup|contractnum|contractsponsor
|copyright|corpauthor|corpname|corpcredit|date|edition
|editor|invpartnumber|isbn|issn|issuenum|orgname
|biblioid|citebiblioid|bibliosource|bibliorelation|bibliocoverage
|othercredit|pagenums|printhistory|productname
|productnumber|pubdate|publisher|publishername
|pubsnumber|releaseinfo|revhistory|seriesvolnums
|subtitle|title|titleabbrev|volumenum|citetitle
|personname|person.ident.mix;
|%ndxterm.class;
%local.bibliocomponent.mix;">

<!-- I don't think this is well placed, but it needs to be here because of -->
<!-- the reference to bibliocomponent.mix -->
<!ENTITY % local.info.class "">
<!ENTITY % info.class
"graphic | mediaobject | legalnotice | modespec
| subjectset | keywordset | itemset | %bibliocomponent.mix;
| %local.info.class;">

<!ENTITY % biblioentry.module "INCLUDE">
<![biblioentry.module;]
<!ENTITY % local.biblioentry.attrib "">
<!ENTITY % biblioentry.role.attrib "%role.attrib;">

<!ENTITY % biblioentry.element "INCLUDE">
<![biblioentry.element;]
<!ELEMENT biblioentry %ho; ((articleinfo | (%bibliocomponent.mix;))+)
%ubiq.exclusion;>
<!--end of biblioentry.element-->

<!ENTITY % biblioentry.attlist "INCLUDE">
<![biblioentry.attlist;]
<!ATTLIST biblioentry %common.attrib;>
<!ENTITY % biblioset.module "INCLUDE">
<![%biblioset.module;]
<!ENTITY % local.biblioset.attrib "">
<!ENTITY % biblioset.role.attrib "%role.attrib;">

<!ENTITY % biblioset.element "INCLUDE">
<![%biblioset.element;]
<!ELEMENT biblioset %ho; ((%bibliocomponent.mix;)+)
  %ubiq.exclusion;>
<![--end of biblioset.element-->]]>

<!-- Relation: Relationship of elements contained within BiblioSet -->

<!ENTITY % biblioset.attlist "INCLUDE">
<![%biblioset.attlist;]
<!ATTLIST biblioset
  relation CDATA #IMPLIED
  %common.attrib;
  %biblioset.role.attrib;
  %local.biblioset.attrib;
  >
<![--end of biblioset.attlist-->]]>
<![--end of biblioset.module-->]]>

<!ENTITY % bibliomset.module "INCLUDE">
<![%bibliomset.module;]
<!ENTITY % bibliomset.role.attrib "%role.attrib;">
<!ENTITY % local.bibliomset.attrib "">

<!ENTITY % bibliomset.element "INCLUDE">
<![%bibliomset.element;]
<!ELEMENT bibliomset %ho; (#PCDATA | %bibliocomponent.mix; | bibliomset)*
  %ubiq.exclusion;>
<![--end of bibliomset.element-->]]>

<!-- Relation: Relationship of elements contained within BiblioMSet -->

<!ENTITY % bibliomset.attlist "INCLUDE">
<![%bibliomset.attlist;]
<!ATTLIST bibliomset
  relation CDATA #IMPLIED
  %common.attrib;
  %bibliomset.role.attrib;
  %local.bibliomset.attrib;
  >
<![--end of bibliomset.attlist-->]]>
<!-- ...................................................................... -->
<!-- Subject, Keyword, and ITermSet elements .............................. -->

<!-- Scheme: Controlled vocabulary employed in SubjectTerms -->

<!-- Entity % subjectset.content.module "INCLUDE" -->
<!-- Entity % subjectset.module; -->
<!-- Entity % subjectset.module "INCLUDE" -->
<!-- Entity % subjectset.module; -->
<!-- Entity % local.subjectset.attrib "" -->
<!-- Entity % subjectset.role.attrib "%role.attrib;" -->

<!-- Entity % subjectset.element "INCLUDE" -->
<!-- Entity % subjectset.element; -->
<!-- Entity subjectset %ho; (subject+) -->
<!-- !-- end of subjectset.element-- >]]>

<!-- Entity % subjectset.attlist "INCLUDE" -->
<!-- Entity % subjectset.attlist; -->
<!-- ATTLIST subjectset schemeNMTOKEN#IMPLIED
%common.attrib;
%subjectset.role.attrib;
%local.subjectset.attrib; -->

<!-- Entity % bibliomisc.module "INCLUDE" -->
<!-- Entity % bibliomisc.module; -->
<!-- Entity % local.bibliomisc.attrib "" -->
<!-- Entity % bibliomisc.role.attrib "%role.attrib;" -->

<!-- Entity % bibliomisc.element "INCLUDE" -->
<!-- Entity % bibliomisc.element; -->
<!-- ELEMENT bibliom %ho; (%para.char.mix;)* -->
<!-- !-- end of bibliomisc.element-- >]]>

<!-- Entity % bibliomisc.attlist "INCLUDE" -->
<!-- Entity % bibliomisc.attlist; -->
<!-- ATTLIST bibliomisc %common.attrib;
%bibliomisc.role.attrib;
%local.bibliomisc.attrib; -->

<!-- Entity % bibliomisc.role.attrib "%role.attrib;" -->

<!-- Entity % local.bibliomisc.attrib "" -->

<!-- Entity % bibliomisc.element "INCLUDE" -->
<!-- Entity % bibliomisc.element; -->
<!-- ELEMENT bibliomisc %ho; (%para.char.mix;)* -->
<!-- !-- end of bibliomisc.element-- >]]>
<!-- Weight: Ranking of this group of SubjectTerms relative to others, 0 is low, no highest value specified -->

<!ENTITY % subject.attlist "INCLUDE">
<![%subject.attlist;]
<!ATTLIST subject
weightCDATA#IMPLIED
%common.attrib;
%subject.role.attrib;
%local.subject.attrib;
>
<![!--end of subject.attlist-->]]>
<![!--end of subject.module-->]]>

<!ENTITY % subjectterm.attlist "INCLUDE">
<![%subjectterm.attlist;]
<!ATTLIST subjectterm
%common.attrib;
%subjectterm.role.attrib;
%local.subjectterm.attrib;
>
<![!--end of subjectterm.attlist-->]]>
<![!--end of subjectterm.module-->]]>

<!ENTITY % subjectterm.element "INCLUDE">
<![%subjectterm.element;]
<!ELEMENT subjectterm %ho; (#PCDATA)
<![!--end of subjectterm.element-->]]>
<![!--end of subjectterm.module-->]]>

<!ENTITY % subjectterm.termlist "INCLUDE">
<![%subjectterm.termlist;]
<!ATTLIST subjectterm
%common.attrib;
%subjectterm.role.attrib;
%local.subjectterm.attrib;
>
<![!--end of subjectterm.termlist-->]]>
<![!--end of subjectterm.module-->]]>
%msgmain.role.attrib;
%local.msgmain.attrib;
>
<![--end of msgmain.attlist-->]]>
<![--end of msgmain.module-->]]>

<![ENTITY % msgsub.module "INCLUDE">
<![%msgsub.module:[]
<![ENTITY % local.msgsub.attrib ""]>
<![ENTITY % msgsub.role.attrib "%role.attrib;"> 

<![ENTITY % msgsub.element "INCLUDE">
<![%msgsub.element:[]
<![ELEMENT msgsub %ho; (title?, msgtext)> 
<![--end of msgsub.element-->]]>

<![ENTITY % msgsub.attlist "INCLUDE"> 
<![%msgsub.attlist:[]
<![ATTLIST msgsub
%common.attrib;
%msgsub.role.attrib;
%local.msgsub.attrib;
>
<![--end of msgsub.attlist-->]]>
<![--end of msgsub.module-->]]>

<![ENTITY % msgrel.module "INCLUDE"> 
<![%msgrel.module:[]
<![ENTITY % local.msgrel.attrib ""]>
<![ENTITY % msgrel.role.attrib "%role.attrib;"> 

<![ENTITY % msgrel.element "INCLUDE"> 
<![%msgrel.element:[]
<![ELEMENT msgrel %ho; (title?, msgtext)> 
<![--end of msgrel.element-->]]>

<![ENTITY % msgrel.attlist "INCLUDE"> 
<![%msgrel.attlist:[]
<![ATTLIST msgrel
%common.attrib;
%msgrel.role.attrib;
%local.msgrel.attrib;
>
<![--end of msgrel.attlist-->]]>
<![--end of msgrel.module-->]]>

<![-- MsgText (defined in the Inlines section, below)-->
<!ENTITY % answer.attlist "INCLUDE">  
<![ %answer.attlist; [ <![ %common.attrib; %answer.role.attrib; %local.answer.attrib; > <!--end of answer.attlist--> ]]> <!--end of answer.module--> ]]>  

<!ENTITY % label.module "INCLUDE">  
<![ %label.module; [ <![ %local.label.attrib ""]> <!ENTITY % label.role.attrib "%role.attrib;"> <![ ENTITY % label.element "INCLUDE">  
<![ %label.element; [ <![ ELEMENT label %ho; (%word.char.mix;)*]> <!--end of label.element--> ]]> <!--end of label.module--> ]]>  

<!ENTITY % label.attlist "INCLUDE">  
<![ %label.attlist; [ <!ATTLIST label %common.attrib; %label.role.attrib; %local.label.attrib; > <!--end of label.attlist--> ]]> <!--end of label.module--> ]]>  

<!ENTITY % procedure.content.module "INCLUDE">  
<![ %procedure.content.module; ]]>  

<!ENTITY % procedure.module "INCLUDE">  
<![ %procedure.module; ]]>  

<!ENTITY % local.procedure.attrib ""> <!ENTITY % procedure.role.attrib "%role.attrib;">  

<!ENTITY % procedure.element "INCLUDE">  
<![ %procedure.element; [ ELEMENT procedure %ho; (blockinfo?, (%formalobject.title.content;)?, (%component.mix;)*, step+)]> <!--end of procedure.element--> ]]>  

<-- Procedure ......................... -->  

<!ENTITY % procedure.content.module "INCLUDE">  
<![ %procedure.content.module; ]]>  

<!ENTITY % procedure.module "INCLUDE">  
<![ %procedure.module; ]]>  

<!ENTITY % local.procedure.attrib ""> <!ENTITY % procedure.role.attrib "%role.attrib;">  

<!ENTITY % procedure.element "INCLUDE">  
<![ %procedure.element; [ ELEMENT procedure %ho; (blockinfo?, (%formalobject.title.content;)?, (%component.mix;)*, step+)]> <!--end of procedure.element--> ]]>
<!-- Renderas: Indicates the format in which the BridgeHead should appear -->

<!ENTITY % bridgehead.attlist "INCLUDE">
<![<!%bridgehead.attlist;[
<!ELEMENT bridgehead
renderas(other
|sect1
|sect2
|sect3
|sect4
|sect5)#IMPLIED
%common.attrib;
%bridgehead.role.attrib;
%local.bridgehead.attrib;
>]
<!--end of bridgehead.attlist-->]]>
<!--end of bridgehead.module-->]]>

<!ENTITY % remark.module "INCLUDE">
<![<!%remark.module;[
<!ENTITY % local.remark.attrib "">
<!ENTITY % remark.role.attrib "%role.attrib;">

<!ENTITY % remark.element "INCLUDE">
<![<!%remark.element;[
<!ELEMENT remark %ho; (%para.char.mix;)*
%remark.exclusion;>
<!--end of remark.element-->]]>

<!ENTITY % remark.attlist "INCLUDE">
<![<!%remark.attlist;[}
<!ATTLIST remark
%common.attrib;
<!ATTLIST glossseealso othertermIDREF#IMPLIED %common.attrib; %glossseealso.role.attrib; %local.glossseealso.attrib; >
<!--end of glossseealso.attrib-->]]>
<!--end of glossseealso.module-->]]>
<!--end of glossentry.content.module-->]]>

<!ENTITY % itemizedlist.module "INCLUDE">
<![%itemizedlist.module;]
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % itemizedlist.role.attrib "%role.attrib;">

<!ENTITY % itemizedlist.element "INCLUDE">
<![%itemizedlist.element;]
<!ELEMENT itemizedlist %ho; (blockinfo?, (%formalobject.title.content;)?, (%listpreamble.mix;)*, listitem+)>

<!--end of itemizedlist.element-->

<!ENTITY % itemizedlist.attlist "INCLUDE">
<![%itemizedlist.attlist;]
<!ATTLIST itemizedlist_spacing(normal |compact)#IMPLIED %mark.attrib; %common.attrib; %itemizedlist.role.attrib; %local.itemizedlist.attrib; >
<!--end of itemizedlist.attlist-->]]>
<!--end of itemizedlist.module-->]]>

<!ENTITY % orderedlist.module "INCLUDE">
<![%orderedlist.module;]
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">

<!ENTITY % orderedlist.element "INCLUDE">

<!ENTITY % orderedlist.attlist "INCLUDE">
<![%orderedlist.attlist;]
<!ATTLIST orderedlist_spacing(normal |compact)#IMPLIED %mark.attrib; %common.attrib; %orderedlist.role.attrib; %local.orderedlist.attrib; >
<!--end of orderedlist.attlist-->]]>
<!--end of orderedlist.module-->]]>

<!-- Spacing: Whether the vertical space in the list should be compressed -->
<!-- Mark: Keyword, e.g., bullet, dash, checkbox, none; list of keywords and defaults are implementation specific -->
<!DOCTYPE formalobject SYSTEM "%formalobject.dtd;">
<!DOCTYPE blockinfo SYSTEM "%blockinfo.dtd;">
<!DOCTYPE listinfo SYSTEM "%listinfo.dtd;">
<!DOCTYPE iteminfo SYSTEM "%iteminfo.dtd;">
<!DOCTYPE simpleinfo SYSTEM "%simpleinfo.dtd;">
<!DOCTYPE mixedinfo SYSTEM "%mixedinfo.dtd;">
<!DOCTYPE textinfo SYSTEM "%textinfo.dtd;">
<!DOCTYPE functioninfo SYSTEM "%functioninfo.dtd;">
<!DOCTYPE formalobjectinfo SYSTEM "%formalobjectinfo.dtd;">
<!DOCTYPE blockinfoinfo SYSTEM "%blockinfoinfo.dtd;">
<!DOCTYPE listinfoinfo SYSTEM "%listinfoinfo.dtd;">
<!DOCTYPE iteminfoinfo SYSTEM "%iteminfoinfo.dtd;">
<!DOCTYPE simpleinfoinfo SYSTEM "%simpleinfoinfo.dtd;">
<!DOCTYPE mixedinfoinfo SYSTEM "%mixedinfoinfo.dtd;">
<!DOCTYPE textinfoinfo SYSTEM "%textinfoinfo.dtd;">
<!DOCTYPE functioninfoinfo SYSTEM "%functioninfoinfo.dtd;">
<!DOCTYPE simplelist SYSTEM "%simplelist.dtd;">
<!DOCTYPE formallist SYSTEM "%formallist.dtd;">
<!DOCTYPE blocklist SYSTEM "%blocklist.dtd;">
<!DOCTYPE listlist SYSTEM "%listlist.dtd;">
<!DOCTYPE itemlist SYSTEM "%itemlist.dtd;">
<!DOCTYPE simpleitem SYSTEM "%simpleitem.dtd;">
<!DOCTYPE formalitem SYSTEM "%formalitem.dtd;">
<!DOCTYPE blockitem SYSTEM "%blockitem.dtd;">
<!DOCTYPE listitem SYSTEM "%listitem.dtd;">
<!DOCTYPE itemitem SYSTEM "%itemitem.dtd;">
<!DOCTYPE iteminfolist SYSTEM "%iteminfolist.dtd;">
<!DOCTYPE simpleinfolist SYSTEM "%simpleinfolist.dtd;">
<!DOCTYPE formalinfolist SYSTEM "%formalinfolist.dtd;">
<!DOCTYPE blockinfolist SYSTEM "%blockinfolist.dtd;">
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<!DOCTYPE formalinfolist SYSTEM "%formalinfolist.dtd;">
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<!DOCTYPE iteminfolist SYSTEM "%iteminfolist.dtd;">
<!DOCTYPE simpleinfolist SYSTEM "%simpleinfolist.dtd;">
<!DOCTYPE formalinfolist SYSTEM "%formalinfolist.dtd;">
<!DOCTYPE blockinfolist SYSTEM "%blockinfolist.dtd;">
<!DOCTYPE listinfolist SYSTEM "%listinfolist.dtd;">
<!DOCTYPE iteminfolist SYSTEM "%iteminfolist.dtd;">
%common.attrib;
%seg.role.attrib;
%local.seg.attrib;
>
<!--end of seg.attlist-->]]>
<!--end of seg.module-->>]]>
<!--end of segmentedlist.content.module-->>]]>

<!-- SimpleList ....................... -->

<!DOCTYPE % simplelist.content.module "INCLUDE">
<![%simplelist.content.module;[
<!DOCTYPE % simplelist.module "INCLUDE">
<![%simplelist.module;[
<!ENTITY % local.simplelist.attrib "">
<!ENTITY % simplelist.role.attrib "%role.attrib;">>

<!ENTITY % simplelist.element "INCLUDE">
<![%simplelist.element;[
<!ELEMENT simplelist %ho; (member+)>]

<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be
formatted: Inline (members separated with commas etc.
inline), Vert (top to bottom in n Columns), or Horiz (in
the direction of text flow) in n Columns. If Column
is 1 or implied, Type=Vert and Type=Horiz give the same
results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![%simplelist.attlist;[
<!ATTLIST simplelist
columnsCDATA#IMPLIED
type(inline
|vert
|horiz)"vert"
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;>

<!--end of simplelist.attlist-->]]>
<!--end of simplelist.module-->>]]>

<!ENTITY % member.module "INCLUDE">
<![%member.module;[
<!ENTITY % local.member.attrib "">
<!-- VariableList ..................... -->

<!-- TermLength: Length beyond which the presentation engine
may consider the Term too long and select an alternate
presentation of the Term and, or, its associated ListItem. -->

<!-- VariableList ..................... -->
<!-- Examples etc. .................... -->

<!ENTITY % example.module "INCLUDE">
<![example.module;[
<!ENTITY % local.example.attrib "">
<!ENTITY % example.role.attrib "%role.attrib;">  
<!ENTITY % example.element "INCLUDE">
<![example.element;[
<!ELEMENT example %ho; (blockinfo?, (%formalobject.title.content;), (%example.mix;)+)  
%formal.exclusion;>  
<!--end of example.element-->]]>

<!ENTITY % example.attlist "INCLUDE">
<![example.attlist;[
<!ATTLIST example  
floatstyleCDATA#IMPLIED  
%label.attrib;  
%width.attrib;  
%common.attrib;  
%example.role.attrib;  
%local.example.attrib;  
>  
<!--end of example.attlist-->]]>

<!ENTITY % informalexample.module "INCLUDE">
<![informalexample.module;[
<!ENTITY % local.informalexample.attrib "">
<!ENTITY % informalexample.role.attrib "%role.attrib;">  
<!ENTITY % informalexample.element "INCLUDE">
<![informalexample.element;[
<!ELEMENT informalexample %ho; (blockinfo?, (%example.mix;)+)>  
<!--end of informalexample.element-->]]>

<!ENTITY % informalexample.attlist "INCLUDE">
<![informalexample.attlist;[
<!ATTLIST informalexample  
floatstyleCDATA#IMPLIED  
%width.attrib;  
%common.attrib;  
%informalexample.role.attrib;  
%local.informalexample.attrib;  
>  
<!--end of informalexample.attlist-->]]>

<!--end of example.module-->

<!--end of informalexample.module-->
- CALSPair "x1.y1 x2.y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content
- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->
<!- OtherUnits: User-defined units -->

<!-- bug number/symbol override or initialization -->
<!-- to any related information -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSet and AreaSpec -->
<!- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDE">
<![%areaspec.attlist;[
<!ATTLIST areaspec
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>
<!-end of areaspec.attlist-->]]>
<!-end of areaspec.module-->]]>

<!-- end of areaspec.attlist-->

<!ENTITY % area.module "INCLUDE">
<![%area.module;[
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;">

<!ENTITY % area.element "INCLUDE">
<![%area.element;[
<!ELEMENT area %ho; EMPTY>
<!-end of area.element-->]]>

<!- bug number/symbol override or initialization -->
<!- to any related information -->
<!- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSet and AreaSpec -->
<!- OtherUnits: User-defined units -->

<!ENTITY % area.attlist "INCLUDE">
<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec -->

<!-- Entity % areaset.module "INCLUDE" -->
<!-- Entity % areaset.module:[] -->
<!-- Entity % local.areaset.attrib "" -->
<!-- Entity % areaset.role.attrib "%role.attrib;" -->

<!-- Entity % areaset.element "INCLUDE" -->
<!-- Entity % areaset.element:[] -->
<!-- Element areaset %ho; (area+)> -->
<!-- Entity % areaset.element -->

<!-- Entity % areaset.attlist "INCLUDE" -->
<!-- Entity % areaset.attlist:[] -->
<!-- Entity % areaset.role.attrib; units(calspair | linecolumn | linerange | linecolumnpair | other)#IMPLIED otherunitsNMTOKEN#IMPLIED coordsCDATA#IMPLIED %idreq.common.attrib; %areaset.role.attrib; %local.areaset.attrib; -->
<!-- Equations ......................... -->

<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<!ENTITY % equation.content "(alt?, (graphic+|mediaobject+))">
<!ENTITY % inlineequation.content "(alt?, (graphic+|inlinemediaobject+))">

<!ENTITY % equation.module "INCLUDE">
<![ %equation.module; ]>
<!ENTITY % local.equation.attrib "">
<!ENTITY % equation.role.attrib "%role.attrib;">

<!ENTITY % equation.element "INCLUDE">
<![ %equation.element; ]>
<!ENTITY %ho; (blockinfo?, (%formalobject.title.content;)?, (informalequation | %equation.content;))>
<!ENTITY %equation.content;">

<!ENTITY % equation.attlist "INCLUDE">
<![ %equation.attlist; ]>
<!ENTITY floatstyleCDATA#IMPLIED
%label.attrib;
%common.attrib;-->
<!ENTITY % tbl.colspec.att "%common.attrib;">
<!ENTITY % tbl.tbody.att "%common.attrib;">
<!ENTITY % tbl.thead.att "%common.attrib;">
<!ENTITY % tbl.row.att "%common.attrib;">
<!ENTITY % tbl.entry.att "%common.attrib;">

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl
"(blockinfo?, (%formalobject.title.content;), (%ndxterm.class;)*,
textobject*,
   (graphic+|mediaobject+|tgroup+))">

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "(%para.char.mix; | %tabentry.mix;)*">

<!-- Reference OASIS Exchange Table Model -->
<!ENTITY % tablemodel PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
"soextblx.dtd">
]
%
tablemodel;

<!--end of table.module-->
]]>

<!-- Note that InformalTable is dependent on some of the entity
   declarations that customize Table. -->

<!ENTITY % local.informaltable.attrib "">

<!-- the following entity may have been declared by the XHTML table module -->
<!ENTITY % informal.tbl.table.mdl "textobject*, (graphic+|mediaobject+|tgroup+)">

<!ENTITY % informaltable.element "INCLUDE">
<![%informaltable.element:]

<!-- Frame, Colsep, and Rowsep must be repeated because
they are not in entities in the table module. -->
<!-- includes TabStyle, ToCentry, ShortEntry,
Orient, PgWide -->
<![%informaltable.element:]

<!-- includes common attributes -->
%common.attrib;
%conftitle.role.attrib;
%local.conftitle.attrib;
>
<!--end of conftitle.attlist-->]]>
<!--end of conftitle.module-->]]>

<!ENTITY % confnum.module "INCLUDE">
<![%confnum.module;]
<!ENTITY % local.confnum.attrib "">
<!ENTITY % confnum.role.attrib "%role.attrib;">

<!ENTITY % confnum.element "INCLUDE">
<![%confnum.element;]
<!ELEMENT confnum %ho; (%docinfo.char.mix;)*>
<!--end of confnum.element-->]]>

<!ENTITY % confnum.attlist "INCLUDE">
<![%confnum.attlist;]
<!ATTLIST confnum
%common.attrib;
%confnum.role.attrib;
%local.confnum.attrib;
>
<!--end of confnum.attlist-->]]>
<!--end of confnum.module-->]]>

<!-- Address (defined elsewhere in this section)-->]]>

<!ENTITY % confsponsor.module "INCLUDE">
<![%confsponsor.module;]
<!ENTITY % local.confsponsor.attrib "">
<!ENTITY % confsponsor.role.attrib "%role.attrib;">

<!ENTITY % confsponsor.element "INCLUDE">
<![%confsponsor.element;]
<!ELEMENT confsponsor %ho; (%docinfo.char.mix;)*>
<!--end of confsponsor.element-->]]>

<!ENTITY % confsponsor.attlist "INCLUDE">
<![%confsponsor.attlist;]
<!ATTLIST confsponsor
%common.attrib;
%confsponsor.role.attrib;
%local.confsponsor.attrib;
>
<!--end of confsponsor.attlist-->]]>
<!--end of confsponsor.module-->]]>
<!ENTITY % productname.module "INCLUDE">
<![%productname.module:]
<!ENTITY % local.productname.attrib "">
<!ENTITY % productname.role.attrib "%role.attrib;">

<!ENTITY % productname.element "INCLUDE">
<![%productname.element:]
<!ELEMENT productname %ho; (%para.char.mix;)*>
<!end of productname.element-->]]>

<!-- Class: More precisely identifies the item the element names -->

<!ENTITY % productname.attlist "INCLUDE">
<![%productname.attlist:]
<!ATTLIST productname
class(service
|trade
|registered
|copyright|trade')
%common.attrib;
%productname.role.attrib;
%local.productname.attrib;
>
<!end of productname.attlist--]]>
<!end of productname.module--]]>

<!-- ProductNumber .................... -->

<!ENTITY % productnumber.module "INCLUDE">
<![%productnumber.module:]
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role.attrib "%role.attrib;">

<!ENTITY % productnumber.element "INCLUDE">
<![%productnumber.element:]
<!ELEMENT productnumber %ho; (%docinfo.char.mix;)*>
<!end of productnumber.element-->]]>

<!-- ProductNumber .................... -->

<!ENTITY % productnumber.attlist "INCLUDE">
<![%productnumber.attlist:]
<!ATTLIST productnumber
%common.attrib;
%productnumber.role.attrib;
%local.productnumber.attrib;
>
<!end of productnumber.attlist--]]>
<!end of productnumber.module--]]>
%local.seriesvolnums.attrib;
>
<!--end of seriesvolnums.attlist-->]]>
<!--end of seriesvolnums.module-->]]>

<!-- VolumeNum ......................... -->

<!--ENTITY % volumenum.module "INCLUDE">
<![%volumenum.module;]
<!--ENTITY % local.volumenum.attrib "">
<!--ENTITY % volumenum.role.attrib "%role.attrib;">}

<!--ENTITY % volumenum.element "INCLUDE">
<![%volumenum.element;]
<!--ELEMENT volumenum %ho; (%docinfo.char.mix;)*>
<![!--end of volumenum.element-->]]>

<!--ENTITY % volumenum.attlist "INCLUDE">
<![%volumenum.attlist;[
<!ATTLIST volumenum
%common.attrib;
%volumenum.role.attrib;
%local.volumenum.attrib;
>
<![!--end of volumenum.attlist-->]]>
<![!--end of volumenum.module-->]]>

<![!-- ... -->

<![!--end of docinfo.content.module-->]]>

<![!-- ... -->

<![!-- Inline, link, and ubiquitous elements ......................... -->

<![!-- ... -->

<![!-- Technical and computer terms ..................................... -->

<!--ENTITY % accel.module "INCLUDE">
<![%accel.module;]
<!--ENTITY % local.accel.attrib "">
<!--ENTITY % accel.role.attrib "%role.attrib;">}

<!--ENTITY % accel.element "INCLUDE">
<![%accel.element;]
<!--ELEMENT accel %ho; (%smallcptr.char.mix;)*>
<![!--end of accel.element-->]]>

<!--ENTITY % accel.attlist "INCLUDE">
<![%accel.attlist;]
<!ENTITY % local.keycombo.attrib "">
<!ENTITY % keycombo.role.attrib "%role.attrib;">

<!ENTITY % keycombo.element "INCLUDE">
<![[%keycombo.element;]
<ELEMENT keycombo %ho; (keycap|keycombo|keysym|mousebutton)+>
<![!--end of keycombo.element--]]>

<!ENTITY % keycombo.attlist "INCLUDE">
<![[%keycombo.attlist;[
<!ATTLIST keycombo
%keyaction.attrib;
%moreinfo.attrib;
%common.attrib;
%keycombo.role.attrib;
%local.keycombo.attrib;
>]
<![!--end of keycombo.attlist-->]]>
<![!--end of keycombo.module-->]]

<!ENTITY % keysym.module "INCLUDE">
<![[%keysym.module;[
<!ENTITY % local.keysym.attrib "">
<!ENTITY % keysysm.role.attrib "%role.attrib;">

<!ENTITY % keysym.element "INCLUDE">
<![[%keysym.element;[
<ELEMENT keysym %ho; (%smallcptr.char.mix;)*>
<![!--end of keysym.element--]]>

<!ENTITY % keysym.attlist "INCLUDE">
<![[%keysym.attlist;[
<!ATTLIST keysym
%common.attrib;
%keysysm.role.attrib;
%local.keysym.attrib;
>]
<![!--end of keysym.attlist-->]]>
<![!--end of keysym.module-->]]

<!ENTITY % lineannotation.module "INCLUDE">
<![[%lineannotation.module;[
<!ENTITY % local.lineannotation.attrib "">
<!ENTITY % lineannotation.role.attrib "%role.attrib;">

<!ENTITY % lineannotation.element "INCLUDE">
<![[%lineannotation.element;[
<ELEMENT lineannotation %ho; (%para.char.mix;)*>
<!ENTITY % local.mousebutton.attrib "">
<!ENTITY % mousebutton.role.attrib "%role.attrib;">

<!ENTITY % mousebutton.element "INCLUDE">
<!--end of mousebutton.element-->

<!ENTITY % mousebutton.attlist "INCLUDE">
<!--end of mousebutton.attlist-->

<!ENTITY % msgtext.module "INCLUDE">
<!--end of msgtext.module-->

<!ENTITY % local.msgtext.attrib "">
<!ENTITY % msgtext.role.attrib "%role.attrib;">

<!ENTITY % msgtext.element "INCLUDE">
<!--end of msgtext.element-->

<!ENTITY % msgtext.attlist "INCLUDE">
<!--end of msgtext.attlist-->

<!ENTITY % option.module "INCLUDE">
<!--end of option.module-->

<!ENTITY % local.option.attrib "">
<!ENTITY % option.role.attrib "%role.attrib;">

<!ENTITY % option.element "INCLUDE">
<!--end of option.element-->

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<!-- Class: Type of the Parameter; no default -->

<!-- Entity: Parameter for the Module -->
<!ENTITY % parameter.module "INCLUDE">
<![%parameter.module;[
<!ENTITY % local.parameter.attrib """>
<!ENTITY % parameter.role.attrib "%role.attrib;">
<!ENTITY % returnvalue.attlist "INCLUDE">
<!ATTLIST returnvalue
%common.attrib;
%returnvalue.role.attrib;
%local.returnvalue.attrib;
>
<!--end of returnvalue.attlist-->
<!--end of returnvalue.module-->]

<!ENTITY % sgmltag.module "INCLUDE">
<!ATTLIST sgmltag
%local.sgmltag.attrib "%role.attrib;">

<!ENTITY % sgmltag.element "INCLUDE">
<!ELEMENT sgmltag %ho; (%smallcptr.char.mix;)*>

<!ENTITY % sgmltag.attlist "INCLUDE">
<!ATTLIST sgmltag
class (attribute
|attvalue
|element
|endtag
|emptytag
|genentity
|numcharref
|paramentity
|pi
|xmlpi
|starttag
|sgmlcomment
|prefix
|namespace
|localname)#IMPLIED
namespaceCDATA#IMPLIED
%common.attrib;
%smltag.role.attrib;
%local.sgmltag.attrib;
>
<!--end of sgmltag.attlist-->
<!--end of sgmltag.module-->]>

<!-- Class: Type of SGML construct the element names; no default -->

<!ENTITY % sgmltag.attlist "INCLUDE">
<!ATTLIST sgmltag
%common.attrib;
%smltag.role.attrib;
%local.sgmltag.attrib;
>
<!--end of sgmltag.attlist-->]>

<!ENTITY % returnvalue.attlist "INCLUDE">
<!ATTLIST returnvalue
%common.attrib;
%returnvalue.role.attrib;
%local.returnvalue.attrib;
>
<!--end of returnvalue.attlist-->
<!--end of returnvalue.module-->]>

<!ENTITY % sgmltag.module "INCLUDE">
<!ATTLIST sgmltag
%local.sgmltag.attrib "%role.attrib;">

<!ENTITY % sgmltag.element "INCLUDE">
<!ELEMENT sgmltag %ho; (%smallcptr.char.mix;)*>

<!ENTITY % sgmltag.attlist "INCLUDE">
<!ATTLIST sgmltag
class (attribute
|attvalue
|element
|endtag
|emptytag
|genentity
|numcharref
|paramentity
|pi
|xmlpi
|starttag
|sgmlcomment
|prefix
|namespace
|localname)#IMPLIED
namespaceCDATA#IMPLIED
%common.attrib;
%smltag.role.attrib;
%local.sgmltag.attrib;
>
<!--end of sgmltag.attlist-->
<!--end of sgmltag.module-->]>

<!-- Class: Type of SGML construct the element names; no default -->
<ENTITY % manvolnum.module "INCLUDE">
<![%manvolnum.module;]
<ENTITY % local.manvolnum.attrib "">
<ENTITY % namvolnum.role.attrib "%role.attrib;">

<ENTITY % manvolnum.element "INCLUDE">
<![%manvolnum.element;]
<ELEMENT manvolnum %ho; (%word.char.mix;)*>
<!--end of manvolnum.element-->]]>
</ENTITY % manvolnum.attlist "INCLUDE">
<![%manvolnum.attlist;]
<ATTLIST manvolnum %common.attrib;>
%namvolnum.role.attrib;
%local.manvolnum.attrib;
>
<!--end of manvolnum.attlist-->]]>
</ENTITY % citetitle.module "INCLUDE">
<![%citetitle.module;]
<ENTITY % local.citetitle.attrib "">
<ENTITY % citetitle.role.attrib "%role.attrib;">

<ENTITY % citetitle.element "INCLUDE">
<![%citetitle.element;]
<ELEMENT citetitle %ho; (%para.char.mix;)*>
<!--end of citetitle.element-->]]>
</ENTITY % citetitle.attlist "INCLUDE">
<![%citetitle.attlist;]
<ATTLIST citetitle pubwork(article
|book
|chapter

<!-- Pubwork: Genre of published work cited; no default -->

<!-- Entity declarations for refentrytitle module -->

<!-- Entity declarations for manvolnum module -->

<!-- Entity declarations for citetitle module -->
<!-- Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) -->
<!-- Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) -->
<!-- Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges -->
<!-- StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm -->
<!-- Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs -->

<![<!ENTITY % indexterm.attlist "INCLUDE">]><![<!ENTITY % indexterm.attlist;[<!ATTLIST indexterm %pagenum.attrib; scope(all |global |local)#IMPLIED significance(preferred |normal)"normal" class(singular |startofrange |endofrange)#IMPLIED startrefIDREF#IMPLIED zoneIDREFS#IMPLIED typeCDATA#IMPLIED %common.attrib; %indexterm.role.attrib; %local.indexterm.attrib;]> <![<!ENTITY % indexterm.module "INCLUDE">]> <![<!ENTITY % indexterm.module;[<!ENTITY % local.primsector.attrib ""> <!ENTITY % primsector.role.attrib "%role.attrib;"> <![<!ENTITY % primary.element "INCLUDE">]> <![<!ENTITY % primary.element;[<!ELEMENT primary %ndxterm.char.mix;>*]>
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-
  4.5.c31424/docbook-4.3/dbpoolx.mod
No license file was found, but licenses were detected in source scan.

<!-- End of DocBook XML information pool module V4.3 ...................... -->
<!-- ................................................................. -->
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This module contains the entity declarations for the standard ISO entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.3//EN"
"dbcentx.mod"> %dbcent;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
<!-[.-.------------------------------------------------------------------>

<![%sgml.features;[

<!ENTITY % ISOamsa.module "INCLUDE">
<![%ISOamsa.module; [
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![%ISOamsb.module; [
<!ENTITY % ISOamsb PUBLIC
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![%ISOamsc.module; [
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![%ISOamsn.module; [
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN">
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![%ISOamso.module; [
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN">
<!--end of ISOamso.module-->]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![%ISOamsr.module; [
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN">
<!--end of ISOamsr.module-->]]>

<!ENTITY % ISObox.module "INCLUDE">
<![%ISObox.module; [
<!ENTITY % ISObox PUBLIC
"ISO 8879:1986//ENTITIES Box and Line Drawing//EN">
<!--end of ISObox.module-->]]>

<!ENTITY % ISOcyr1.module "INCLUDE">
<![%ISOcyr1.module; [
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook notations module V4.2 ........................................ -->
<!-- File dbnotnx.mod ..................................................... -->


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-->

<!-- ...................................................................... -->

<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-/OASIS//ENTITIES DocBook Notations V4.2//EN"
"dbnotnx.mod">

%dbnotn;
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->
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entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbcent PUBLIC
"-/OASIS//ENTITIES DocBook Character Entities V4.5//EN"
"dbcentx.mod">
%dbcent;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!ENTITY % ISOamsa.module "INCLUDE">
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!ENTITY % ISOamsb.module "INCLUDE">
<!ENTITY % ISOamsb PUBLIC
<!ENTITY % ISOamsc.module "INCLUDE">
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!ENTITY % ISOamsn.module "INCLUDE">
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN">
<!ENTITY % ISOamso.module "INCLUDE">
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN">
```

...
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$Id: docbookx.dtd,v 1.21 2004/03/31 10:59:14 nwalsh Exp $

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-
4.5.c31424/docbook-4.5/dbcentx.mod

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<!-- ................................................................. -->
<!-- DocBook XML information pool module V4.1.2 .................. -->
<!-- File dbpoolx.mod ................................................. -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh and the Organization for the Advancement
of Structured Information Standards (OASIS).

$Id: dbpoolx.mod,v 1.19 2000/08/27 15:12:42 nwalsh Exp $

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<!-- ................................................................. -->

<!-- This module contains the definitions for the objects, inline
elements, and so on that are available to be used as the main
content of DocBook documents. Some elements are useful for general
publishing, and others are useful specifically for computer
documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the
driver file or other high-level module. This entity is
referenced in the NOTATION attributes for the graphic-related and
ModeSpec elements.

- It assumes that an appropriately parameterized table module is
available for use with the table-related elements.
In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.1.2//EN"
"dbpoolx.mod">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!-- General-purpose semantics entities ................................... -->
<!ENTITY % yesorno.attvals"CDATA">
<!-- Entities for module inclusions ....................................... -->
<!ENTITY % dbpool.redecl.module "IGNORE">
<!-- Entities for element classes and mixtures ............................ -->
<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">
<!-- Object-level classes ................................................. -->
<!ENTITY % local.list.class "">
<!ENTITY % list.class
"calloutlist|glosslist|itemizedlist|orderedlist|segmentedlist
|simplelist|variablelist %local.list.class;">
<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"caution|important|note|tip|warning %local.admon.class;">
<!ENTITY % local.linespecific.class "">
<!ENTITY % linespecific.class
"literallayout|programlisting|programlistingco|screen"
<!-- Redeclaration placeholder ............................................ -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<!-- Defining rdbpool here makes some buggy XML parsers happy. -->
<!ENTITY % rdbpool "">

<!--end of dbpool.redecl.module-->

<!-- Object-level mixtures ................................................ -->

<!-

list admn line synp para infm form cmpd gen desc
Component mixture   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X
Sidebar mixture     X   X   X   X   X   X   X   a   X
Footnote mixture    X   X   X   X   X
Example mixture     X   X   X   X   X
Highlights mixture  X   X   X
Paragraph mixture   X   X   X   X
Admonition mixture  X   X   X   X   X   X   b   c
Figure mixture      X   X   X   X
Table entry mixture X   X   X   X   d
Glossary def mixture X   X   X   X   X   e
Legal notice mixture X   X   X   X   f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.
-->

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix
"%list.class;%admon.class;"
<!-- Role is included explicitly on each element -->

<!ENTITY % common.attrib
  "%id.attrib;
  %lang.attrib;
  %remap.attrib;
  %xreflabel.attrib;
  %revisionflag.attrib;
  %effectivity.attrib;
  %local.common.attrib;"
>

<!-- Role is included explicitly on each element -->

<!ENTITY % idreq.common.attrib
  "%idreq.attrib;
  %lang.attrib;
  %remap.attrib;
  %xreflabel.attrib;
  %revisionflag.attrib;
  %effectivity.attrib;
  %local.common.attrib;"
>

<!-- Semi-common attributes and other attribute entities ................. -->

<!ENTITY % local.graphics.attrib "">

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!ENTITY % graphics.attrib
  "entityref ENTITY #IMPLIED
  fileref CDATA #IMPLIED
  format(%notation.class;) #IMPLIED"
<!ENTITY % local.keyaction.attrib "">

<!ENTITY % local.graphics.attrib "">

<!ENTITY % local.keyaction.attrib "">

<!ENTITY % labelattrib "labelCDATA#IMPLIED">

<!ENTITY % linespecific.attrib "formatNOTATION
(linespecific)'linespecific'
linenumbering(numbered|unnumbered) #IMPLIED">
<ENTITY % subtitle.module "INCLUDE">
<![%subtitle.module:]]>
<ENTITY % local.subtitle.attrib "">
<ENTITY % subtitle.role.attrib "%role.attrib;">

<ENTITY % subtitle.element "INCLUDE">
<![%subtitle.element:]]>
<ELEMENT subtitle (%title.char.mix;)*>
<![--end of subtitle.element-->]]>

<ENTITY % subtitle.attlist "INCLUDE">
<![%subtitle.attlist:]]>
<ATTLIST subtitle
%common.attrib;
%subtitle.role.attrib;
%local.subtitle.attrib;
>
<![--end of subtitle.attlist-->]]>
<![--end of subtitle.module-->]]>

<!-- .............................................................. -->
<!-- Bibliographic entities and elements ......................... -->

<!-- The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->

<ENTITY % local.person.ident.mix "">
<ENTITY % person.ident.mix
"honorific|firstname|surname|lineage|othername|affiliation |authorblurb|contrib %local.person.ident.mix;">

<ENTITY % local.bibliocomponent.mix "">
<ENTITY % bibliocomponent.mix
"abbrev|abstract|address|artpagenums|author |authorgroup|authorinitials|bibliomisc|biblioset |collab|configroup|contractnum|contractsponsor |copyright|corpauthor|corpname|date|edition |editor|invpartnumber|isbn|issn|issuenum|orgname |othercredit|pagenums|printhistory|productname |productnumber|pubdate|publisher|publishername |pubsnumber|releaseinfo|revhistory|seriesvolnums |subtitle|title|titleabbrev|volumenum|citetitle |%person.ident.mix;
%ndxterm.class;
Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 40814
<!ENTITY % qandset.role.attrib "%role.attrib;">  
<!ENTITY % qandset.element "INCLUDE">  
<![ %qandset.element; [  
<!ELEMENT qandaset ((%formalobject.title.content;)?,  
(%qandaset.mix;)*,  
(qandadiv+|qandaentry+))>  
<![--end of qandset.element-->]]>  

<![ %qandset.attlist "INCLUDE">  
<![ %qandset.attlist; [  
<![ ATTLIST qandaset  
defaultlabel(qanda|number|none) #IMPLIED  
%common.attrib;  
%qandset.role.attrib;  
%local.qandset.attrib;>  
<![--end of qandset.attlist-->]]>  
<![--end of qandset.module-->]]>  

<![ %qandadiv.module "INCLUDE">  
<![ %qandadiv.module; [  
<![ !ENTITY % local.qandadiv.attrib "">  
<![ !ENTITY % qandadiv.role.attrib "%role.attrib;">  

<![ !ENTITY % qandadiv.element "INCLUDE">  
<![ %qandadiv.element; [  
<![ ELEMENT qandadiv ((%formalobject.title.content;)?,  
(%qandaset.mix;)*,  
(qandadiv+|qandaentry+))>  
<![--end of qandadiv.element-->]]>  

<![ !ENTITY % qandadiv.attlist "INCLUDE">  
<![ %qandadiv.attlist; [  
<![ !ATTLIST qandadiv  
%common.attrib;  
%qandadiv.role.attrib;  
%local.qandadiv.attrib;>  
<![--end of qandadiv.attlist-->]]>  
<![--end of qandadiv.module-->]]>  

<![ !ENTITY % qandaentry.module "INCLUDE">  
<![ %qandaentry.module; [  
<![ !ENTITY % local.qandaentry.attrib "">  
<![ !ENTITY % qandaentry.role.attrib "%role.attrib;">  

<![ !ENTITY % qandaentry.element "INCLUDE">  
<![ %qandaentry.element; [  
<![ ELEMENT qandaentry (revhistory?, question, answer*)>
<!ENTITY % glossentry.content.module "INCLUDE">
<![%glossentry.content.module;]
<!ENTITY % glossentry.module "INCLUDE">
<![%glossentry.module;]
<!ENTITY % local.glossentry.attrib "">
<!ENTITY % glossentry.role.attrib "%role.attrib;">
<!ENTITY % glossentry.element "INCLUDE">
<![%glossentry.element;]
<!ELEMENT glossentry (glossterm, acronym?, abbrev?, (%ndxterm.class;)*, revhistory?, (glosssee|glossdef+)>
<![--end of glossentry.element--]]>

<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib " -->
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib " -->
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<!ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib " -->
<!ENTITY % glosslist.role.attrib "%role.attrib;">
<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element--]>
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %commonattrib; %glosslist.roleattrib; %localglosslistattrib; >
<![--end of glosslistattlist-->]]>
<![--end of adonmodule-->]]>
<![-- ..................... -->
<![-- Lists .................... -->

<![-- GlossList ............... -->

<![ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<![ENTITY % local.glosslist.attrib "">
<![ENTITY % glosslist.role.attrib "%role.attrib;">
<![ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<![ELEMENT glosslist (glossentry+)>
<![--end of glosslist.element-->]]>
<![ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<![ATTLIST glosslist %common.attrib; %glosslist.role.attrib; %local.glosslist.attrib; >
<![--end of glosslist.attlist--]>
<![ENTITY % glosslist.content.module "INCLUDE">
<![%glosslist.content.module;]
<![ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<![ENTITY % local.glosslist.attrib "">
<![ENTITY % glosslist.role.attrib "%role.attrib;">
<![ENTITY % glossentry.content.module "INCLUDE">
<![%glossentry.content.module;]
<![ENTITY % glossentry.module "INCLUDE">
<![%glossentry.module;]
<![ENTITY % local.glossentry.attrib " -->
<![ENTITY % glossentry.role.attrib "%role.attrib;">
<![ENTITY % glossentry.element "INCLUDE">
<![%glossentry.element;]
<![ELEMENT glossentry (glossterm, acronym?, abbrev?, (%ndxterm.class;)*, revhistory?, (glosssee|glossdef+)>
<![--end of glossentry.element--]>

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<!-- SortAs: String by which the GlossEntry is to be sorted (alphabetized) in lieu of its proper content -->

<!--end of glossentry.attlist-->
<!--end of glossentry.module-->

<!-- GlossTerm (defined in the Inlines section, below)-->  
<!--end of glossdef.attlist-->
<!--end of glossdef.module-->

<!-- Subject: List of subjects; keywords for the definition -->

<!--end of glossdef.attlist-->
<!--end of glossdef.module-->

<!--glosssee module-->

<!-- Glosssee (defined in the Inlines section, below)-->
<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![%simplelist.attlist:]
<!ATTLIST simplelist columnsCDATA#IMPLIED
type(inline
|vert
|horiz)"vert"
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<!--end of simplelist.attlist-->]]>
<!--end of simplelist.module-->]]>

<!ENTITY % member.module "INCLUDE">
<![%member.module:]
<!ENTITY % local.member.attrib "">
<!ENTITY % member.role.attrib "%role.attrib;"> 
<!ENTITY % member.element "INCLUDE">
<![%member.element:]
<!ELEMENT member (%para.char.mix;)*
> 
<!--end of member.element-->]]>
<!--end of simplelist.content.module-->]]>
<!ENTITY % areaspec.content.module "INCLUDE">
<![%areaspec.content.module;[
<!ENTITY % areaspec.module "INCLUDE">
<![%areaspec.module;[
<!ENTITY % local.areaspec.attrib "">
<!ENTITY % areaspec.role.attrib ">%role.attrib;">
<!ENTITY % areaspec.element "INCLUDE">
<![%areaspec.element;[
<!ELEMENT areaspec ((area|areaset)+)
<!--end of areaspec.element-->]]>  
<!-- Units: global unit of measure in which coordinates in this spec are expressed: -->
- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)
- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content
- LineRange "startline endline": whole lines from startline to endline in "linespecific" content
- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)
- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword
The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDE">
<![%areaspec.attlist;[
<!ATTLIST areaspec units(calspair linecolumn linerrage linecolumnpair other)#IMPLIED
<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSpec -->

<!--end of areaset.element-->

<!--end of areaset.attlist-->

<!--end of programlisting.element-->

<!--end of programlisting.attlist-->

```xml
<!ENTITY % areaelement "INCLUDE">
<![<!ELEMENT areaelement (area+)>
<!!--- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSpec -->

<!ENTITY % areaset.element "INCLUDE">
<![<!ELEMENT areaset (area+)>
<!!--- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSpec -->

<!ENTITY % areaset.attlist "INCLUDE">
<![<!ATTLIST areaset
%label.attrib;
units(calspair
|linelabel
|linememo
|linenote
|linenote
|other)#IMPLIED
otherunits#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%area.set.role.attrib;
%local.area.set.attrib;
>
<!!--- end of areaset.attlist-->
<!!--- end of areaset.module-->
<!!--- end of areaspec.content.module-->

<!ENTITY % programlisting.module "INCLUDE">
<![<!ENTITY % local.programlisting.attrib "">
<!ENTITY % programlisting.role.attrib "%role.attrib;"> 

<!ENTITY % programlisting.element "INCLUDE">
<![<!ELEMENT programlisting (%para.char.mix; | co | lineannotation)*>
<!!--- end of programlisting.element-->

<!ENTITY % programlisting.attlist "INCLUDE">
<![<!ATTLIST programlisting
%width.attrib;
%linespecific.attrib;
%common.attrib;
%programlisting.role.attrib;
%local.programlisting.attrib;]>
```
&lt;!ENTITY % mediaobjectco.element "INCLUDE"&gt;
&lt;[ %mediaobjectco.element; [
&lt;ELEMENT mediaobjectco (objectinfo?, imageobjectco,
   (imageobjectco|textobject)*)&gt;
&lt;!--end of mediaobjectco.element-->]]]&gt;

&lt;!ENTITY % mediaobjectco.attlist "INCLUDE"&gt;
&lt;[ %mediaobjectco.attlist; [
&lt;!ATTLIST mediaobjectco
   %common.attrib;
   %mediaobjectco.role.attrib;
   %local.mediaobjectco.attrib;
   &gt;
&lt;!--end of mediaobjectco.attlist-->]]]&gt;

&lt;!ENTITY % imageobjectco.module "INCLUDE"&gt;
&lt;[ %imageobjectco.module; [
&lt;ENTITY % local.imageobjectco.attrib ""&gt;
&lt;ENTITY % imageobjectco.role.attrib "%role.attrib;"&gt;

&lt;!ENTITY % imageobjectco.element "INCLUDE"&gt;
&lt;[ %imageobjectco.element; [
&lt;ELEMENT imageobjectco (areaspec, imageobject, calloutlist*)&gt;
&lt;!--end of imageobjectco.element-->]]]&gt;

&lt;!ENTITY % imageobjectco.attlist "INCLUDE"&gt;
&lt;[ %imageobjectco.attlist; [
&lt;!ATTLIST imageobjectco
   %common.attrib;
   %imageobjectco.role.attrib;
   %local.imageobjectco.attrib;
   &gt;
&lt;!--end of imageobjectco.attlist-->]]]&gt;

&lt;!-- Equations ...................... --&gt;

&lt;!-- This PE provides a mechanism for replacing equation content, --&gt;
&lt;!-- perhaps adding a new or different model (e.g., MathML) --&gt;
&lt;!ENTITY % equation.content "(alt?, (graphic+|mediaobject+))"&gt;
&lt;ENTITY % inlineequation.content "(alt?, (graphic+|linemediaobject+))"&gt;

&lt;!ENTITY % equation.module "INCLUDE"&gt;
&lt;[ %equation.module; [
&lt;ENTITY % local.equation.attrib ""&gt;
&lt;ENTITY % equation.role.attrib "%role.attrib;"&gt;
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 40863
<!ENTITY % local.sbr.attrib "">
<!-- Synopsis break -->
<!ENTITY % sbr.role.attrib "%role.attrib;">

<!ENTITY % sbr.element "INCLUDE">
<![sbr.element;[
<!ELEMENT sbr EMPTY>
<!!--end of sbr.element-->]]>

<!ENTITY % sbr.attlist "INCLUDE">
<![sbr.attlist;[
!ATTLIST sbr
%common.attrib;
%sbr.role.attrib;
%local.sbr.attrib;
>]
<!!--end of sbr.attlist-->]]>

<!ENTITY % synopfragmentref.module "INCLUDE">
<![synopfragmentref.module;[
<!ENTITY % local.synopfragmentref.attrib "">
<!ENTITY % synopfragmentref.role.attrib "%role.attrib;">

<!ENTITY % synopfragmentref.element "INCLUDE">
<![synopfragmentref.element;[
<!ELEMENT synopfragmentref (#PCDATA)>
<!!--end of synopfragmentref.element-->]]>

<!-- to SynopFragment of complex synopsis material for separate referencing -->

<!ENTITY % synopfragmentref.atlist "INCLUDE">
<![synopfragmentref.atlist;[
!ATTLIST synopfragmentref
%linkendreq.attrib;%common.attrib;
%synopfragmentref.role.attrib;
%local.synopfragmentref.attrib;
>]
<!!--end of synopfragmentref.atlist-->]]>

<!ENTITY % synopfragment.module "INCLUDE">
<![synopfragment.module;[
<!ENTITY % local.synopfragment.attrib "">
<!ENTITY % synopfragment.role.attrib "%role.attrib;">
%local.funcparams.attrib;
>
<!--end of funcparams.attlist-->]]>
<!--end of funcparams.module--]]>

<!-- LineAnnotation (defined in the Inlines section, below)-->
<!-- Replaceable (defined in the Inlines section, below)-->
<!-- Function (defined in the Inlines section, below)-->
<!-- Parameter (defined in the Inlines section, below)-->
<!--end of funcsynopsis.content.module--]]>

<!-- ClassSynopsis ..................... -->

<!--ENTITY % classsynopsis.content.module "INCLUDE">  
<!--[%classsynopsis.content.module:]

<!--ENTITY % classsynopsis.module "INCLUDE">  
<!--[%classsynopsis.module:]
 <!--ENTITY % local.classsynopsis.attrib ""->  
 <!--ENTITY % classsynopsis.role.attrib "%role.attrib;"->

<!--ENTITY % classsynopsis.element "INCLUDE">  
<!--[%classsynopsis.element:]
  <!--ELEMENT classsynopsis ((ooclass|oointerface|ooexception)+,  
  (classsynopsisinfo  
   [fieldsynopsis[%method.synop.class;]*])>  
<!--end of classsynopsis.element--]]>

<!--ENTITY % classsynopsis.atlist "INCLUDE">  
<!--[%classsynopsis.atlist:]
  <!--ATTLIST classsynopsis  
   %common.attrib;  
   %classsynopsis.role.attrib;  
   %local.classsynopsis.attrib;  
   languageCDATA#IMPLIED  
   class(class|interface)|class"class"  
>  
<!--end of classsynopsis.atlist--]]>
<!--end of classsynopsis.module--]]>

<!--ENTITY % classsynopsisinfo.module "INCLUDE">  
<!--[%classsynopsisinfo.module:]
  <!--ENTITY % local.classsynopsisinfo.attrib ""->  
  <!--ENTITY % classsynopsisinfo.role.attrib "%role.attrib;"->

<!--ENTITY % classsynopsisinfo.element "INCLUDE">  
<!--[%classsynopsisinfo.element:]
  <!--ELEMENT classsynopsisinfo (%cptr.char.mix; | lineannotation)*>
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 40897
<!-- ModeSpec .......................... -->

<!ENTITY % modespec.module "INCLUDE">
<![%modespec.module:]
<!ENTITY % local.modespec.attrib "">
<!ENTITY % modespec.role.attrib "%role.attrib;">  

<!ENTITY % modespec.element "INCLUDE">
<![%modespec.element:]
<!ELEMENT modespec (%docinfo.char.mix;)*>
<![--end of modespec.element-->]]>

<!-- Application: Type of action required for completion of the links to which the ModeSpec is relevant (e.g., retrieval query) -->

<!ENTITY % modespec.attlist "INCLUDE">
<![%modespec.attlist:]
<!ATTLIST modespec
application NOTATION (%notation.class;) #IMPLIED
%common.attrib;
%modespec.role.attrib;
%local.modespec.attrib;
>
<![--end of modespec.attlist-->]]>

<![--end of modespec.module-->]]>

<!-- OrgName .......................... -->

<!ENTITY % orgname.module "INCLUDE">
<![%orgname.module:]
<!ENTITY % local.orgname.attrib "">
<!ENTITY % orgname.role.attrib "%role.attrib;">  

<!ENTITY % orgname.element "INCLUDE">
<![%orgname.element:]
<!ELEMENT orgname (%docinfo.char.mix;)*>
<!-- SeriesVolNums ................-->

<!ENTITY % seriesvolnums.module "INCLUDE">
<![%seriesvolnums.module;[  
<!ENTITY % local.seriesvolnums.attrib "">
<!ENTITY % seriesvolnums.role.attrib "%role.attrib;">

<!ENTITY % seriesvolnums.element "INCLUDE">
<![%seriesvolnums.element;[  
<!ELEMENT seriesvolnums (%docinfo.char.mix;)*>
<!--end of seriesvolnums.element-->
]]>

<!ENTITY % seriesvolnums.attlist "INCLUDE">
<![%seriesvolnums.attlist;[  
<!ATTLIST seriesvolnums  
%common.attrib;  
%seriesvolnums.role.attrib;  
%local.seriesvolnums.attrib;  
>  
<!--end of seriesvolnums.attlist-->]]>
<!-- VolumeNum ..................... -->

<!ENTITY % volumenum.module "INCLUDE">
<![%volumenum.module;[  
<!ENTITY % local.volumenum.attrib "">
<!ENTITY % volumenum.role.attrib "%role.attrib;">

<!ENTITY % volumenum.element "INCLUDE">
<![%volumenum.element;[  
<!ELEMENT volumenum (%docinfo.char.mix;)*>
<!--end of volumenum.element-->
]]>

<!ENTITY % volumenum.attlist "INCLUDE">
<![%volumenum.attlist;[  
<!ATTLIST volumenum  
%common.attrib;  
%volumenum.role.attrib;  
%local.volumenum.attrib;  
>  
<!--end of volumenum.attlist-->]]>
<!-- ................................-->

<!--end of docinfo.content.module-->]]>

---

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<!-- CO is a callout area of the LineColumn unit type (a single character position); the position is directly indicated by the location of CO. -->
<!ENTITY % filename.module "INCLUDE">
<![%filename.module;]
<!ENTITY % local.filename.attrib "">
<!ENTITY % filename.role.attrib "%role.attrib;">

<!ENTITY % filename.element "INCLUDE">
<![%filename.element;]
<!ELEMENT filename (%smallcptr.char.mix;)*>
<!--end of filename.element-->

<!ENTITY % filename.attlist "INCLUDE">
<![%filename.attlist;]
<!ATTLIST filename
class(headerfile | devicefile | libraryfile | directory | symlink) #IMPLIED
path CDATA #IMPLIED
%moreinfo.attrib;
%common.attrib;
%filename.role.attrib;
%local.filename.attrib;
>
<!--end of filename.attlist-->

<!ENTITY % function.module "INCLUDE">
<![%function.module;]
<!ENTITY % local.function.attrib "">
<!ENTITY % function.role.attrib "%role.attrib;">

<!ENTITY % function.element "INCLUDE">
<![%function.element;]
<!ELEMENT function (%cptr.char.mix;)*>
<!--end of function.element-->

<!ENTITY % function.attlist "INCLUDE">
<![%function.attlist;]
<!ATTLIST function
<!ENTITY % local.userinput.attrib "">
<!ENTITY % userinput.role.attrib "%role.attrib;">

<!ENTITY % userinput.element "INCLUDE">
<![%userinput.element;]
<!ELEMENT userinput (%cptr.char.mix;)*>
<!--end of userinput.element-->]

<!ENTITY % userinput.attlist "INCLUDE">
<![%userinput.attlist;]
<!ATTLIST userinput
%moreinfo.attrib;
%common.attrib;
%userinput.role.attrib;
%local.userinput.attrib;
>
<!--end of userinput.attlist-->]]>
<!--end of userinput.module-->]]>

<!-- General words and phrases ............................................ -->

<!ENTITY % abbrev.module "INCLUDE">
<![%abbrev.module;]
<!ENTITY % local.abbrev.attrib "">
<!ENTITY % abbrev.role.attrib "%role.attrib;">

<!ENTITY % abbrev.element "INCLUDE">
<![%abbrev.element;]
<!ELEMENT abbrev (%word.char.mix;)*>
<!--end of abbrev.element-->]]>

<!ENTITY % abbrev.attlist "INCLUDE">
<![%abbrev.attlist;]
<!ATTLIST abbrev
%common.attrib;
%abbrev.role.attrib;
%local.abbrev.attrib;
>
<!--end of abbrev.attlist-->]]>
<!--end of abbrev.module-->]]>

<!ENTITY % acronym.module "INCLUDE">
<![%acronym.module;]
<!ENTITY % local.acronym.attrib "">
<!ENTITY % acronym.role.attrib "%role.attrib;">

<!ENTITY % acronym.element "INCLUDE">
<![%acronym.element;]
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 40938
<!ENTITY % wordasword.element "INCLUDE">
<![CDATA[
<!ELEMENT wordasword (%word.char.mix;)*>
<!--end of wordasword.element-->
]]>

<!ENTITY % wordasword.attlist "INCLUDE">
<![CDATA[
<!ATTLIST wordasword
%common.attrib;
%wordasword.role.attrib;
%local.wordasword.attrib;
>
<!--end of wordasword.attlist-->
]]>

<!ENTITY % link.module "INCLUDE">
<![CDATA[
<!ELEMENT link (%para.char.mix;)*>
<!--end of link.element-->
]]>

<!ENTITY % link.attlist "INCLUDE">
<![CDATA[
<!ATTLIST link
endterm IDREF #IMPLIED
%linkendreq.attrib; type CDATA #IMPLIED
%common.attrib;
]]>
Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 40949
range ended by this IndexTerm -->
<!-- Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs -->

<!ENTITY % indexterm.attlist "INCLUDE">
<![%indexterm.attlist;]
<!ATTLIST indexterm
%pagenum.attrib;
scope(all
|global
|local)#IMPLIED
significance(preferred
|normal)"normal"
class(singular
|startofrange
|endofrange)#IMPLIED
startref#IDREF#IMPLIED
zoneIDREFS#IMPLIED
%common.attrib;
%indexterm.role.attrib;
%local.indexterm.attrib;
>
<!--end of indexterm.attlist-->]]>
<!--end of indexterm.module-->]]>

<!ENTITY % primsecter.module "INCLUDE">
<![%primsecter.module;]
<!ENTITY % local.primsecter.attrib "">
<!ENTITY % primsecter.role.attrib "%role.attrib;">
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-4.5.c31424/docbook-4.1.2/dbpoolx.mod

No license file was found, but licenses were detected in source scan.

DOD//DTD Table Model 951010//EN"

$Id: calstblx.dtd,v 1.6 2000/05/18 19:40:49 nwalsh Exp $

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declaration that uses the public identifier shown below:

<!--
<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook XML Notations V4.0//EN"
"dbnotnx.mod">
%dbnotn;
-->

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class
"BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
| EPS | EQN | FAX | GIF | GIF87a | GIF89a
| JPG | JPEG | IGES | PCX
| PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
| linespecific
%local.notation.class;">

<!NOTATION BMPPUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFFSYSTEM "DITROFF">
<!NOTATION DVISYSTEM "DVI">
<!NOTATION EPSPUBLIC
<!NOTATION EQNSYSTEM "EQN">
<!NOTATION FAXPUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untitled Raster//EN">
<!NOTATION GIFSYSTEM "GIF">
<!NOTATION GIF87a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN">
<!NOTATION GIF89a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPGSYSTEM "JPG">
<!NOTATION JPEGSYSTEM "JPG">
<!NOTATION IGESPUBLIC
<!NOTATION PCXPUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN">
<!NOTATION PICSYSTEM "PIC">
<!NOTATION PNG SYSTEM "http://www.w3.org/TR/REC-png"
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-4.5.c31424/docbook-4.0/ dbnotnx.mod

No license file was found, but licenses were detected in source scan.

$Id: dbhierx.mod,v 1.7 2000/05/18 19:40:49 nwalsh Exp $

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If you modify the DocBook XML DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.
<!-- ...................................................................... -->

<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles. -->

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC "-//OASIS//ELEMENTS DocBook XML Document Hierarchy V4.0//EN" "dbhierx.mod"> %dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...................................................................... -->

<!ENTITY % dbhier.redecl.module "IGNORE">  
<!ENTITY % dbhier.redecl2.module "IGNORE">  

<!-- Entities for module inclusions ....................................... -->

<!ENTITY % local.appendix.class "%">  
<!ENTITY % appendix.class"appendix %local.appendix.class;">  

<!ENTITY % local.article.class "%">  
<!ENTITY % article.class"article %local.article.class;">  

<!ENTITY % local.book.class "%">  
<!ENTITY % book.class"book %local.book.class;">  

<!ENTITY % local.chapter.class "%">  
<!ENTITY % chapter.class"chapter %local.chapter.class;">
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma
<ENTITY % sectioninfo.attlist "INCLUDE">
<![ %sectioninfo.attlist; [ 
<!ATTLIST sectioninfo
%common.attrib;
%sectioninfo.role.attrib;
%local.sectioninfo.attrib;
> 
<!--end of sectioninfo.attlist-->]]>
<!--end of sectioninfo.module-->]]>
<!--end of section.content.module-->]]>

<!-- ............................................................... -->
<!-- Sect1, Sect2, Sect3, Sect4, Sect5 .................................... -->

<ENTITY % sect1.module "INCLUDE">
<![%sect1.module;]
<!ENTITY % local.sect1.attrib "">
<!ENTITY % sect1.role.attrib "%role.attrib;">

<ENTITY % sect1.element "INCLUDE">
<![%sect1.element;]
<!ELEMENT sect1 (sect1info?, (%sect.title.content;), (%nav.class;)*, 
((%divcomponent.mix;)+,
((%refentry.class;)* | sect2* | simplesect*)
| (%refentry.class;)+ | sect2+ | simplesect+), (%nav.class;)*)>
<!--end of sect1.element-->]]>

<!-- Renderas: Indicates the format in which the heading should appear -->

<!ENTITY % sect1.attlist "INCLUDE">
<![ %sect1.attlist; [ 
<!ATTLIST sect1 renderas(sect2 |sect3 |sect4 
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect1.role.attrib;
%local.sect1.attrib;
> 
<!--end of sect1.attlist-->]]>
<!--end of sect1.module-->]]>
%common.attrib;
%simplesect.role.attrib;
%local.simplesect.attrib;
>
<!--end of simplesect.attlist-->]]>
<!--end of simplesect.module-->]]>

<!-- ... -->
<!-- Bibliography ......................................................... -->
<!ENTITY % bibliography.content.module "INCLUDE">
<!ENTITY % bibliography.content.module;[>
<!ENTITY % bibliography.module "INCLUDE">
<!ENTITY % local.bibliography.attrib "">
<!ENTITY % bibliography.role.attrib "%role.attrib;">

<!ENTITY % bibliography.element "INCLUDE">
<!ENTITY % bibliography.element;[>
<!ELEMENT bibliography (bibliographyinfo?,
  (%bookcomponent.title.content;)?,
  (%component.mix;)*,
  (bibliodiv+ | (biblioentry|bibliomixed)+))>
<!--end of bibliography.element-->]

<!ENTITY % bibliography.attlist "INCLUDE">
<!ENTITY % bibliography.attlist;[>
<!ATTLIST bibliography
  %status.attrib;
  %common.attrib;
  %bibliography.role.attrib;
  %local.bibliography.attrib;
>
<!--end of bibliography.attlist-->]]>
<!--end of bibliography.module-->]]>

<!ENTITY % bibliodiv.module "INCLUDE">
<!ENTITY % bibliodiv.module;[>
<!ENTITY % local.bibliodiv.attrib "">
<!ENTITY % bibliodiv.role.attrib "%role.attrib;">

<!ENTITY % bibliodiv.element "INCLUDE">
<!ENTITY % bibliodiv.element;[>
<!ELEMENT bibliodiv ((%sect.title.content;)?, (%component.mix;)*,
  (biblioentry|bibliomixed)+)>
<!--end of bibliodiv.element-->]]>

<!ENTITY % bibliodiv.attlist "INCLUDE">

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 40986
<!ENTITY % setindex.attlist "INCLUDE">
<![.%setindex.attlist;]
<!ELEMENT setindex %common.attrib; %indexes.role.attrib; %local.indexes.attrib;>
<!ATTLIST setindex %common.attrib; %indexes.role.attrib; %local.indexes.attrib;>
<!--end of setindex.attlist-->
<!--end of indexes.module-->

<!ENTITY % indexdiv.module "INCLUDE">
<![.%indexdiv.module;]

<!-- SegmentedList in this content is useful for marking up permuted indices. -->

<!ENTITY % local.indexdiv.attrib "">
<!ENTITY % indexdiv.role.attrib "%role.attrib;"> 

<!ENTITY % indexdiv.element "INCLUDE">
<![.%indexdiv.element;]
<!ELEMENT indexdiv (%sect.title.content;? ((%indexdivcomponent.mix;)*, (indexentry+ | segmentedlist)))*>
<!--end of indexdiv.element-->

<!ENTITY % indexdiv.attlist "INCLUDE">
<![.%indexdiv.attlist;]
<!ATTLIST indexdiv %common.attrib; %indexdiv.role.attrib; %local.indexdiv.attrib;>
<!--end of indexdiv.attlist-->
<!--end of indexdiv.module-->

<!ENTITY % indexentry.module "INCLUDE">
<![.%indexentry.module;]
<!-- Index entries appear in the index, not the text. -->

<!ENTITY % local.indexentry.attrib "">
<!ENTITY % indexentry.role.attrib "%role.attrib;"> 

<!ENTITY % indexentry.element "INCLUDE">
<![.%indexentry.element;]
<!ELEMENT indexentry (primaryie, (seeie|seealsoie)*, (secondaryie, (seeie|seealsoie|tertiaryie)*))>
<!--end of indexentry.element-->

<!-- Class: Freely assignable parameter; no default -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 40995</title>
</head>
<body>

</body>
</html>
The %nav.class; entity now allows ToC; ToCchap will be allowed instead.
RefEntry will be removed from the main content of Article.

-->

<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">

<!ENTITY % article.element "INCLUDE">
<![article.element[
<!ELEMENT article ((%div.title.content;)?, articleinfo?, tocchap?, lot*,
(%bookcomponent.content;),
((%nav.class;) | (%appendix.class;) | ackno)*)>
<!--end of article.element-->]]>

<!-- Class: Indicates the type of a particular article;
all articles have the same structure and general purpose.
No default. -->
<!-- ParentBook: ID of the enclosing Book -->

<!ENTITY % article.attlist "INCLUDE">
<![article.attlist[
<!ATTLIST article
class(journalarticle
|productsheet
|whitepaper
|techreport
|specification
|faq)#IMPLIED
parentbookIDREF#IMPLIED
%status.attrib;
%common.attrib;
%article.role.attrib;
%local.article.attrib;
>]
<!--end of article.attlist-->]]>
<!--end of article.module-->]]>

<!-- End of DocBook XML document hierarchy module V4.0 .................... -->
<!-- ...................................................................... -->

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-
4.5.c31424/docbook-4.0/dbhierx.mod

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This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.
In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.4//EN"
"dbpoolx.mod">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!-- Forms entities ....................................................... -->
<!ENTITY % forminlines.hook "">
<!ENTITY % forms.hook "">

<!-- General-purpose semantics entities ................................... -->
<!ENTITY % yesorno.attvals"CDATA">

<!-- Entities for module inclusions ....................................... -->
<!ENTITY % dbpool.redecl.module "IGNORE">

<!-- Entities for element classes and mixtures ............................ -->
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">}

<!-- Object-level classes ................................................. -->
<!ENTITY % local.list.class "">
<!ENTITY % list.class
"calloutlist|glosslist|bibliolist|itemizedlist|orderedlist|segmentedlist|
simplelist|variablelist %local.list.class;">}

<!ENTITY % local.admon.class "">
a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix "%
%list.class;%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;%compound.class;
%genobj.class;%descobj.class;
%ndxterm.class; beginpage
%forms.hook;
 %local.component.mix;">

<!ENTITY % local.sidebar.mix "">
<!ENTITY % sidebar.mix "%
%list.class;%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;procedure
%genobj.class;
%ndxterm.class; beginpage
%forms.hook;
 %local.sidebar.mix;">

<!ENTITY % local.qandaset.mix "">
<!ENTITY % qandaset.mix "%
%list.class;       %admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;procedure
%genobj.class;
%ndxterm.class;
%forms.hook;
 %local.qandaset.mix;">

<!ENTITY % local.revdescription.mix "">
<!ENTITY % revdescription.mix "%
%list.class;       %admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;procedure
<!-- Entities for attributes and attribute components ................. -->

<!-- Effectivity attributes .............................................. -->

<!-- Arch: Computer or chip architecture to which element applies; no default -->
<!ENTITY % arch.attrib "archCDATA#IMPLIED">

<!ENTITY % condition.attrib "conditionCDATA#IMPLIED">

<!ENTITY % conformance.attrib "conformanceNMTOKENS#IMPLIED">

<!ENTITY % os.attrib "osCDATA#IMPLIED">

<!ENTITY % revision.attrib "revisionCDATA#IMPLIED">

<!ENTITY % security.attrib "securityCDATA#IMPLIED">

<!ENTITY % userlevel.attrib "userlevelCDATA#IMPLIED">

<!ENTITY % vendor.attrib "vendorCDATA#IMPLIED">

<!ENTITY % wordsize.attrib "wordsizeCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib "">
"%arch.attrib;
  %condition.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
  %security.attrib;
%userlevel.attrib;
%vendor.attrib;
%wordsize.attrib;
%local.effectivity.attrib;"
>
</!-- Common attributes .................................................... -->

</!-- Id: Unique identifier of element; no default -->

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

</!-- Remap: Previous role of element before conversion; no default -->

</!-- Role: New role of element in local environment; no default -->

</!-- XRefLabel: Alternate labeling string for XRef text generation;
default is usually title or other appropriate label text already
contained in element -->

<!ENTITY % xreflabel.attrib
"xreflabelCDATA#IMPLIED">

<!-- RevisionFlag: Revision status of element; default is that element
wasn't revised -->

<!ENTITY % revisionflag.attrib
"revisionflag(changed
|added
|deleted
|off)#IMPLIED">

<!ENTITY % local.common.attrib "">

<!-- dir: Bidirectional override -->

<!ENTITY % dir.attrib
"dir(ltr
|rtl
|lro
|rlo)#IMPLIED">

<!-- xml:base: base URI -->

<![%sgml.features;[
 <!ENTITY % xml-base.attrib "">
 ]]><!ENTITY % xml-base.attrib
"xml:baseCDATA#IMPLIED">

<!-- Role is included explicitly on each element -->

<!ENTITY % common.attrib
"%id.attrib;
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%dir.attrib;
%xml-base.attrib;
%local.common.attrib;" 
>
<!-- Role is included explicitly on each element -->

<!ENTITY % idreq.common.attrib
"%idreq.attrib;
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%dir.attrib;
%xml-base.attrib;
%local.common.attrib;"
>

<!-- Semi-common attributes and other attribute entities .................. -->

<!ENTITY % local.graphics.attrib "">

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!ENTITY % graphics.attrib " 
entityrefENTITY#IMPLIED 
filerefCDATA#IMPLIED 
format(%notation.class;)#IMPLIED 
srccreditCDATA#IMPLIED 
widthCDATA#IMPLIED 
contentwidthCDATA#IMPLIED 
depthCDATA#IMPLIED 
contentdepthCDATA#IMPLIED 
align(left |
|right |
|center)#IMPLIED 
valign(top |
|middle |
|bottom)#IMPLIED 
scaleCDATA#IMPLIED
scalefit%yesorno.attribs;
#IMPLIED
%local.graphics.attrib;
>

<!ENTITY % local.keyaction.attrib "">
<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!ENTITY % keyaction.attrib " action(click|double-click|press|seq|simul|other)#IMPLIED otheractionCDATA#IMPLIED %local.keyaction.attrib;">

<!-- Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter -->
<!ENTITY % label.attrib "labelCDATA#IMPLIED">

<!-- xml:space: whitespace treatment -->
<![sgml.features;
  <!ENTITY % xml-space.attrib "">
  ]>
<!ENTITY % xml-space.attrib "xml:space(preserve)#IMPLIED">

<!-- Format: whether element is assumed to contain significant white space -->
<!ENTITY % linespecific.attrib "formatNOTATION (linespecific) xml-space.attrib linенumbering(numbered|unnumbered) #IMPLIED"
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below.
<!ENTITY % bridgehead.module "INCLUDE">
<!ENTITY % bridgehead.element "INCLUDE">
<!ENTITY % bridgehead.attlist "INCLUDE">
<!ENTITY % remark.module "INCLUDE">
<!ENTITY % remark.element "INCLUDE">

<!-- Renderas: Indicates the format in which the BridgeHead should appear -->
<!DOCTYPE html>
<html><head></head><body><pre>%common.attrib;
%glosslist.role.attrib;
%local.glosslist.attrib;
>&gt;
<![endif]--&gt;[endif]--&gt;]]&gt;
<![endif]--&gt;[endif]--&gt;]]&gt;

<!--end of glosslist.attlist--]
]]&gt;
<!--end of glosslist.module--]
]]&gt;

<!ENTITY % glossentry.content.module "INCLUDE">
<![%glossentry.content.module;]
<!ENTITY % glossentry.module "INCLUDE">
<![%glossentry.module;]
<!ENTITY % local.glossentry.attrib "">
<!ENTITY % glossentry.role.attrib "%role.attrib:"">

<!ENTITY % glossentry.element "INCLUDE">
<![%glossentry.element;]
<!ELEMENT glossentry %ho; (glossterm, acronym?, abbrev?,
(NDXTERM.class:)*,
revhistory?, (glosssee|glossdef+))>
<![endif]--&gt;[endif]--&gt;]]&gt;

<!--SortAs: String by which the GlossEntry is to be sorted
(alphabetized) in lieu of its proper content--&gt;

<![endif]--&gt;[endif]--&gt;]]&gt;
<![endif]--&gt;[endif]--&gt;]]&gt;

<!--GlossTerm (defined in the Inlines section, below)--&gt;
<![endif]--&gt;[endif]--&gt;]]&gt;
<![endif]--&gt;[endif]--&gt;]]&gt;

<!--Subject: List of subjects; keywords for the definition--&gt;
<![endif]--&gt;[endif]--&gt;]]&gt;
<![endif]--&gt;[endif]--&gt;]]&gt;
</pre></body></html>
<!-- OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSeeAlso -->

<!ENTITY % glossseealso.attlist "INCLUDE">
<![[%glossseealso.attlist;
<!ATTLIST glossseealso
othertermIDREF#IMPLIED
%common.attrib;
%glossseealso.role.attrib;
%local.glossseealso.attrib;
>
<!--end of glossseealso.attlist-->]]>
<!--end of glossseealso.module-->]]>
<!--end of glossentry.content.module-->]]>

<!-- ItemizedList and OrderedList ..... -->

<!ENTITY % itemizedlist.module "INCLUDE">
<![[%itemizedlist.module;
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % itemizedlist.role.attrib "%role.attrib;">
Columns: The number of columns the array should contain -->
Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

Columns: The number of columns the array should contain -->
Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->
%callout.role.attrib;
%local.callout.attrib;
>
<!-- end of callout.attlist-->
<!-- end of callout.module-->
<!-- end of calloutlist.content.module-->

<!-- Examples etc. ................. -->

<!ENTITY % example.module "INCLUDE">
<!%example.module;[
<!ENTITY % local.example.attrib "">
<!ENTITY % example.role.attrib "%role.attrib;">

<!ENTITY % example.element "INCLUDE">
<!%example.element;[
<!ELEMENT example %ho; (blockinfo?, (%formalobject.title.content;), (%example.mix;)+)
%formal.exclusion;>
<!--end of example.element-->
]

<!ENTITY % example.attlist "INCLUDE">
<!%example.attlist;[

<!ENTITY % informalexample.module "INCLUDE">
<!%informalexample.module;[
<!ENTITY % local.informalexample.attrib "">
<!ENTITY % informalexample.role.attrib "%role.attrib;">

<!ENTITY % informalexample.element "INCLUDE">
<!%informalexample.element;[
<!ELEMENT informalexample %ho; (blockinfo?, (%formalobject.title.content;), (%example.mix;)+)
%formal.exclusion;>
<!--end of informalexample.element-->
]

<!ENTITY % informalexample.attlist "INCLUDE">
<!%informalexample.attlist;[
Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which
graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->

<!-- OtherUnits: User-defined units -->

<!--ENTITY % areaspec.attlist "INCLUDE">  
<![%areaspec.attlist;]
<!ATTLIST areaspec units(calspair |linecolumn |linerange |linecolumnpair |other)#IMPLIED  
otherunitsNMTOKEN#IMPLIED  
%common.attrib;  
%areaspec.role.attrib;  
%local.areaspec.attrib;  
>  
<!--end of areaspec.attlist-->]]>
<!--end of areaspec.module-->]]>

<!--ENTITY % area.module "INCLUDE">  
<![%area.module;]
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;">

<!--ENTITY % area.element "INCLUDE">  
<![%area.element;]
<!ELEMENT area %ho; EMPTY>
<!--end of area.element-->]]>
<!-- bug number/symbol override or initialization -->
<!-- to any related information -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSet and AreaSpec -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % area.attlist "INCLUDE">
<![%area.attlist;[
<!ATTLIST area
%label.attrib;
%linkends.attrib;
units(calspair
|linecolumn
|linerange
|linenumberpair
|other)#IMPLIED
otherunitsNM_TOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>  
<!--end of area.attlist-->]]>
<!--end of area.module-->]]>

<!ENTITY % areaset.module "INCLUDE">
<![%areaset.module;[
<!ENTITY % local.areaset.attrib "">
<!ENTITY % areaset.role.attrib "%role.attrib;">  

<!ENTITY % areaset.element "INCLUDE">
<![%areaset.element;[
<!ELEMENT areaset %ho; (area+)>  
<!--end of areaset.element-->]]>

<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec -->
<!ELEMENT mediaobject %ho; (objectinfo?,
   (%mediaobject.mix;)+,
   caption?)>
<!end of mediaobject.element-->]]>

<!ENTITY % mediaobject.attlist "INCLUDE">
<!ATTLIST mediaobject
   %common.attrib;
   %mediaobject.role.attrib;
   %local.mediaobject.attrib;
>
<!end of mediaobject.attlist-->]]>
<!end of mediaobject.module-->]]>

<!ENTITY % inlinemediaobject.module "INCLUDE">
<!ENTITY % local.inlinemediaobject.attrib "">
<!ENTITY % inlinemediaobject.role.attrib "%role.attrib;"> 

<!ENTITY % inlinemediaobject.element "INCLUDE">
<!ELEMENT inlinemediaobject %ho; (objectinfo?,
   (%mediaobject.mix;)+)>
<!end of inlinemediaobject.element-->]]>
<!ENTITY % inlinemediaobject.attlist "INCLUDE">
<!ATTLIST inlinemediaobject
   %common.attrib;
   %inlinemediaobject.role.attrib;
   %local.inlinemediaobject.attrib;
>
<!end of inlinemediaobject.attlist-->]]>
<!end of inlinemediaobject.module-->]]>

<!ENTITY % videoobject.module "INCLUDE">
<!ENTITY % local.videoobject.attrib "">
<!ENTITY % videoobject.role.attrib "%role.attrib;"> 

<!ENTITY % videoobject.element "INCLUDE">
<!ELEMENT videoobject %ho; (objectinfo?, videodata)>
<!end of videoobject.element-->]]>

<!ENTITY % videoobject.attlist "INCLUDE">
<!ATTLIST videoobject
   %common.attrib;
   %videoobject.role.attrib;
>
<!end of videoobject.attlist-->]]>
<!-- Tables ......................... -->

<!-- Do we allow the HTML table model as well? -->

<!-- xhtmltbl.mod defines HTML tables and sets parameter entities so that, when the CALS table module is read, we end up allowing any table to be CALS or HTML. -->
%local.common.attrib;
%caption.role.attrib;
%atts;
align(top|bottom|left|right)#IMPLIED
%local.caption.attrib;
">
]]>
<!ENTITY % caption.attlist.content "
%common.attrib;
%caption.role.attrib;
%local.caption.attrib;
">
<!ATTLIST caption %caption.attlist.content;>
<![-end of caption.attlist-->]]>
<![-end of caption.module-->]]>

<![-- .......................................................... -->
<![-- Synopses .................................................... -->

<![-- Synopsis ........................................ -->

<!ENTITY % synopsis.module "INCLUDE">
<![%synopsis.module;]
<!ENTITY % local.synopsis.attrib "">
<!ENTITY % synopsis.role.attrib "%role.attrib;">  

<!ENTITY % synopsis.element "INCLUDE">
<![%synopsis.element;]
<!ELEMENT synopsis %ho; (%para.char.mix;|graphic|mediaobject|co|coref|textobject|lineannotation)*>
<![--end of synopsis.element-->]]>

<!ENTITY % synopsis.attlist "INCLUDE">
<![%synopsis.attlist;]
<!ATTLIST synopsis
%label.attrib;
%linespecific.attrib;
%common.attrib;
%synopsis.role.attrib;
%local.synopsis.attrib;
>
<![--end of synopsis.attlist-->]]>

<![-- LineAnnotation (defined in the Inlines section, below)-->
<![--end of synopsis.module-->]]>

<![-- CmdSynopsis ................. -->
<!DOCTYPE %arg.attlist "INCLUDE">
<![%arg.attlist;]
<!ATTLIST arg
choice(opt
|req
|plain)'opt'
rep(norepeat
|repeat)'norepeat'
%common.attrib;
%arg.role.attrib;
%local.arg.attrib;
>
<!--end of arg.attlist-->]]>
<!--end of arg.module-->]]>

<!ENTITY % group.module "INCLUDE">
<![%group.module;]
<!ENTITY % local.group.attrib "">
<!ENTITY % group.role.attrib "%role.attrib;"> 

<!ENTITY % group.element "INCLUDE">
<![%group.element;]
<!ELEMENT group %ho; ((arg | group | option | synopfragmentref
 | replaceable | sbr)+)> 
<!--end of group.element-->]]>

<!ATTLIST group
choice(opt
|req
|plain)'opt'
rep(norepeat
|repeat)'norepeat'
%common.attrib;
%arg.role.attrib;
%local.arg.attrib;
>
<!--end of arg.module-->]]>

<!-- Choice: Whether Group must be supplied: Opt (optional to supply, e.g. [g1|g2|g3]; the default), Req (required to supply, e.g. {g1|g2|g3}), Plain (required to supply, e.g. g1|g2|g3), OptMult (can supply zero or more, e.g. [[g1|g2|g3]], or ReqMult (must supply one or more, e.g. {{g1|g2|g3}}) -->
<!-- Rep: whether Group is repeatable: Norepeat (e.g. group without ellipsis; the default), or Repeat (e.g. group...) -->}
<!ATTLIST funcsynopsis
%label.attrib;
%common.attrib;
%funcsynopsis.role.attrib;
%local.funcsynopsis.attrib;
>
<!--end of funcsynopsis.attlist-->
<!--end of funcsynopsis.module-->

<!--end of funcsynopsis.attlist-->
<!--end of funcsynopsis.module-->

<!ENTITY % funcsynopsisinfo.module "INCLUDE">
<![funcsynopsisinfo.module:]
<!ENTITY % local.funcsynopsisinfo.attrib "">
<!ENTITY % funcsynopsisinfo.role.attrib "%role.attrib;">

<!ENTITY % funcsynopsisinfo.element "INCLUDE">
<![funcsynopsisinfo.element:]
<!ELEMENT funcsynopsisinfo %ho; (%cptr.char.mix;|textobject|lineannotation)*>
<!--end of funcsynopsisinfo.element-->

<!ENTITY % funcsynopsisinfo.attlist "INCLUDE">
<![funcsynopsisinfo.attlist:]
<!ATTLIST funcsynopsisinfo
%linespecific.attrib;
%common.attrib;
%funcsynopsisinfo.role.attrib;
%local.funcsynopsisinfo.attrib;
>
<!--end of funcsynopsisinfo.attlist-->
<!--end of funcsynopsisinfo.module-->

<!ENTITY % funcprototype.module "INCLUDE">
<![funcprototype.module:]
<!ENTITY % local.funcprototype.attrib "">
<!ENTITY % funcprototype.role.attrib "%role.attrib;">

<!ENTITY % funcprototype.element "INCLUDE">
<![funcprototype.element:]
<!ELEMENT funcprototype %ho; (modifier*,
    funcdef,
    (void|varargs)(paramdef+, varargs?),
    modifier*)>

<!--end of funcprototype.element-->

<!ENTITY % funcprototype.attlist "INCLUDE">
<![funcprototype.attlist:]
<!ATTLIST funcprototype
%common.attrib;
Processing assumes that only one Parameter will appear in a ParamDef, and that FuncParams will be used at most once, for providing information on the "inner parameters" for parameters that are pointers to functions. -->
<!ENTITY % modifier.role.attrib "%role.attrib;">  
<!ENTITY % modifier.element "INCLUDE">  
<![%modifier.element;[  
<!ELEMENT modifier %ho; (%smallcptr.char.mix;)*]>  
<!!--end of modifier.element-->]]>  

<!ENTITY % modifier.attlist "INCLUDE">  
<![%modifier.attlist;[  
<!ATTLIST modifier  
%common.attrib;  
%modifier.role.attrib;  
%local.modifier.attrib;  
>  
<!!--end of modifier.attlist-->]]>  
<!!--end of modifier.module-->]]>  

<!ENTITY % interfacename.module "INCLUDE">  
<![%interfacename.module;[  
<!ENTITY % local.interfacename.attrib ">">  
<!ENTITY % interfacename.role.attrib "%role.attrib;">  

<!ENTITY % interfacename.element "INCLUDE">  
<![%interfacename.element;[  
<!ELEMENT interfacename %ho; (%cptr.char.mix;)*]>  
<!!--end of interfacename.element-->]]>  

<!ENTITY % interfacename.attlist "INCLUDE">  
<![%interfacename.attlist;[  
<!ATTLIST interfacename  
%common.attrib;  
%interfacename.role.attrib;  
%local.interfacename.attrib;  
>  
<!!--end of interfacename.attlist-->]]>  
<!!--end of interfacename.module-->]]>  

<!ENTITY % exceptionname.module "INCLUDE">  
<![%exceptionname.module;[  
<!ENTITY % local.exceptionname.attrib "">">  
<!ENTITY % exceptionname.role.attrib "%role.attrib;">  

<!ENTITY % exceptionname.element "INCLUDE">  
<![%exceptionname.element;[  
<!ELEMENT exceptionname %ho; (%smallcptr.char.mix;)*]>  
<!!--end of exceptionname.element-->]]>  

<!ENTITY % exceptionname.attlist "INCLUDE">
The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies.
<!-- ProductName ...................... -->

<!ENTITY % productname.module "INCLUDE">
<!ENTITY % local.productname.attrib "">
<!ENTITY % productname.role.attrib "%role.attrib;">  

<!ENTITY % productname.element "INCLUDE">
<!ENTITY % productname.attlist "INCLUDE">
<!ATTLIST productname  
class(service | trade | registered | copyright)'trade'  
%common.attrib;  
%productname.role.attrib;  
%local.productname.attrib;  
>  
<!-- ProductName ...................... -->

<!-- Class: More precisely identifies the item the element names -->

<!ENTITY % productnumber.module "INCLUDE">
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role.attrib "%role.attrib;">  

<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST productname class(service | trade | registered | copyright)'trade'  
%common.attrib;  
%productname.role.attrib;  
%local.productname.attrib;  
>  
<!-- ProductNumber .................... -->

<!ENTITY % productnumber.module "INCLUDE">
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role.attrib "%role.attrib;">  

<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.element:}  
<!ELEMENT productnumber %ho; (%docinfo.char.mix;)*>
%common.attrib;
%computeroutput.role.attrib;
%local.computeroutput.attrib;
>
<!--end of computeroutput.attlist-->]]>
<!--end of computeroutput.module-->]]>

<!--ENTITY % database.module "INCLUDE">  
<![%database.module;]  
<!--ENTITY % local.database.attrib "">  
<!--ENTITY % database.role.attrib "%role.attrib;">  

<!--ENTITY % database.element "INCLUDE">  
<![%database.element;]  
<!--ELEMENT database %ho; (%cptr.char.mix;)*>  
<!--end of database.element-->]]>

<!-- Class: Type of database the element names; no default -->

<!--ENTITY % database.attlist "INCLUDE">  
<![%database.attlist;]  
<!--ATTLIST database  
class (name |table  
|field  
|key1  
|key2  
|record  
|index  
|view  
|primarykey  
|secondarykey  
|foreignkey  
|altkey  
|procedure  
|datatype  
|constraint  
|rule  
|user  
|group)#IMPLIED  
%moreinfo.attrib;
%common.attrib;
%database.role.attrib;
%local.database.attrib;
>
<!--end of database.attlist-->]]>
<!--end of database.module-->]]>
otherfunctionCDATA#IMPLIED
%moreinfo.attrib;
%common.attrib;
%keycap.role.attrib;
%local.keycap.attrib;
>
<!--end of keycap.attlist-->]]>
<!--end of keycap.module-->]]>

<!ENTITY % keycode.module "INCLUDE">
<![%keycode.module]:
<!ENTITY % local.keycode.attrib "">
<!ENTITY % keycode.role.attrib "%role.attrib;"> 

<!ENTITY % keycode.element "INCLUDE">
<![%keycode.element]:
<!ELEMENT keycode %ho; (%smallcptr.char.mix;)*>

<!ENTITY % keycode.attlist "INCLUDE">
<![%keycode.attlist]:
<!ATTLIST keycode
%common.attrib;
%keycode.role.attrib;
%local.keycode.attrib;
>
<!--end of keycode.attlist-->]]>
<!--end of keycode.module-->]]>

<!ENTITY % keycombo.module "INCLUDE">
<![%keycombo.module]:
<!ENTITY % local.keycombo.attrib "">
<!ENTITY % keycombo.role.attrib "%role.attrib;"> 

<!ENTITY % keycombo.element "INCLUDE">
<![%keycombo.element]:
<!ELEMENT keycombo %ho; ((keycap|keycombo|keysym|mousebutton)+)

<!ENTITY % key combo.attlist "INCLUDE">
<![%keycombo.attlist]:
<!ATTLIST keycombo
%keyaction.attrib;
%moreinfo.attrib;
%common.attrib;
%keycombo.role.attrib;
%local.keycombo.attrib;
>

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 41142
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 41159
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 41161
<!-- TargetDocEnt: Name of an entity to be the target of the link -->
<!-- LinkMode: ID of a ModeSpec containing instructions for
operating on the entity named by TargetDocEnt -->
<!-- LocalInfo: Information that may be passed to ModeSpec -->
<!-- Type: Freely assignable parameter -->

<!ENTITY % olink.attlist "INCLUDE">
<![%oolink.attlist;]
<!ATTLIST olink
targetdocentENTITY #IMPLIED
linkmodeIDREF#IMPLIED
localinfo CDATA#IMPLIED
typeCDATA#IMPLIED
targetdocCDATA#IMPLIED
targetptrCDATA#IMPLIED
xrefstyleCDATA#IMPLIED
%common.attrib;
%oolink.role.attrib;
%local.oolink.attrib;
>
<!--end of olink.attlist-->
</<!--end of olink.module-->

<!ENTITY % ulink.module "INCLUDE">
<![%oulink.module;]
<!ENTITY % local.ulink.attrib "">
<!ENTITY % ulink.role.attrib "%role.attrib;">
"fourteen" for an element containing "14" -->

<!ENTITY % tertiary.attlist "INCLUDE">
<![%tertiary.attlist;[
<!ATTLIST tertiary
sortasCDATA#IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>]
<!--end of tertiary.attlist-->]]>

<!ENTITY % seeseealso.module "INCLUDE">
<![%seeseealso.module;[
<!ENTITY % local.seeseealso.attrib "">
<!ENTITY % seeseealso.role.attrib "%role.attrib;">

<!ENTITY % see.element "INCLUDE">
<![%see.element;[
<!ELEMENT see %ho; (%ndxterm.char.mix;)*>
<!--end of see.element-->]]>

<!ENTITY % see.attlist "INCLUDE">
<![%see.attlist;[
<!ATTLIST see
%common.attrib;
%seeseealso.role.attrib;
%local.seeseealso.attrib;
>]
<!--end of see.attlist-->]]>

<!ENTITY % seealso.element "INCLUDE">
<![%seealso.element;[
<!ELEMENT seealso %ho; (%ndxterm.char.mix;)*>
<!--end of seealso.element-->]]>

<!ENTITY % seealso.attlist "INCLUDE">
<![%seealso.attlist;[
<!ATTLIST seealso
%common.attrib;
%seeseealso.role.attrib;
%local.seeseealso.attrib;
>]
<!--end of seealso.attlist-->]]>

<!ENTITY % indexterm.content.module "INCLUDE">
<![%indexterm.content.module;[
<!ATTLIST indexterm
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>]
<!--end of indexterm.content.module-->]]>
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-4.5.c31424/docbook-4.2/docbookx.dtd
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook XML HTML Table Module V4.5 ................................... -->
<!-- File htmltblx.mod .................................................... -->

$Id: htmltblx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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-->
</!-- ................................................................. -->

<!-- This module contains the definitions for elements that are isomorphic to the HTML elements. One could argue we should instead have based ourselves on the XHTML Table Module, but the HTML one is more like what browsers are likely to accept today and users are likely to use. -->
This module has been developed for use with the DocBook V4.5 "union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```
<!ENTITY % htmltbl PUBLIC
"-//OASIS//ELEMENTS DocBook XML HTML Tables V4.5//EN"
"htmltblx.mod">
%htmltbl;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->
<!--doc:A group of columns in an HTML table.-->
<!ELEMENT colgroup %ho; (col)*>
<!--doc:Specifications for a column in an HTML table.-->
<!ELEMENT col %ho; EMPTY>
<!--doc:A row in an HTML table.-->
<!ELEMENT tr %ho;  (th|td)+>
<!--doc:A table header entry in an HTML table.-->
<!ELEMENT th %ho;  (%para.char.mix; | %tabentry.mix; | table | informaltable)*)
<!ELEMENT td %ho;  (%para.char.mix; | %tabentry.mix; | table | informaltable)*)

<!ATTLIST colgroup
%attrs;
  span       CDATA       "1"
  width      CDATA  #IMPLIED
  %cellhalign;
  %cellvalign;
>

<!ATTLIST col
%attrs;
  span       CDATA       "1"
  width      CDATA  #IMPLIED
  %cellhalign;
  %cellvalign;
>

<!ATTLIST tr
%attrs;
  %cellhalign;
  %cellvalign;
  bgcolor   CDATA        #IMPLIED
>

<!ENTITY % attrs  "%html.coreattrs; %i18n; %events;"

<!ENTITY % cellhalign
"align      (left|center|right|justify|char) #IMPLIED
char       CDATA    #IMPLIED
charoff    CDATA       #IMPLIED"
>

<!ENTITY % cellvalign
"valign     (top|middle|bottom|baseline) #IMPLIED"
>

<!--doc:A group of columns in an HTML table.-->
<!ELEMENT colgroup %ho; (col)*>
<!--doc:Specifications for a column in an HTML table.-->
<!ELEMENT col %ho; EMPTY>
<!--doc:A row in an HTML table.-->
<!--doc:A table row entry in an HTML table.-->
<!ELEMENT th %ho;  (%para.char.mix; | %tabentry.mix; | table | informaltable)*)
<!--doc:A table entry in an HTML table.-->
<!ELEMENT td %ho;  (%para.char.mix; | %tabentry.mix; | table | informaltable)*)

<!ATTLIST colgroup
%attrs;
  span       CDATA       "1"
  width      CDATA  #IMPLIED
  %cellhalign;
  %cellvalign;
>

<!ATTLIST col
%attrs;
  span       CDATA       "1"
  width      CDATA  #IMPLIED
  %cellhalign;
  %cellvalign;
>

<!ATTLIST tr
%attrs;
  %cellhalign;
  %cellvalign;
  bgcolor   CDATA        #IMPLIED
>
<!-- Set up to read in the CALS model configured to merge with the XHTML table model -->

<!ENTITY % tables.role.attrib "%role.attrib;">

<!-- Add label and role attributes to table and informaltable -->

<!ENTITY % bodyatt "
  floatstyle CDATA #IMPLIED
  rowheader (firstcol|norowheader) #IMPLIED
  %label.attrib;" >

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row,
   EntryTbl, and Entry (and InformalTable element). -->
<!-- Content model for Table (that also allows HTML tables) -->
<!ENTITY % tbl.table.mdl
"((blockinfo?,
   (%formalobject.title.content;),
   (%ndxterm.class;)*,
   textobject*,
   (graphic+|mediaobject+|tgroup+)
   |(caption, (col*|colgroup*), thead?, tfoot?, (tbody+|tr+)))">

<!-- Attributes for Table (including HTML ones) -->
<!-- N.B. rules = (none | groups | rows | cols | all) but it can't be spec'd -->
<!-- that way because 'all' already occurs in a different enumeration in -->
<!-- CALS tables (frame). -->

<!ENTITY % tbl.table.att
'tabstyle CDATA #IMPLIED
tocentry %yesorno.attvals; #IMPLIED
shortentry %yesorno.attvals; #IMPLIED
orient (port|land) #IMPLIED
pgwide %yesorno.attvals; #IMPLIED
summary CDATA #IMPLIED
width CDATA #IMPLIED
border CDATA #IMPLIED
rules CDATA#IMPLIED
cellsspacing CDATA #IMPLIED
cellpadding CDATA #IMPLIED
align (left|center|right) #IMPLIED
bgcolor CDATA #IMPLIED
Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->
<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.2//EN"
"dbcentx.mod">
%dbcent;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->  

<!-- ...................................................................... -->

<![%sgml.features;[

<!ENTITY % ISOamsa.module "INCLUDE">
<![%ISOamsa.module; [ 
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![%ISOamsc.module; [ 
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![%ISOamsn.module; [ 
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN">
<!--end of ISOamsn.module-->]]>
warranty.

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<!-- ............................................................... -->

<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook Document Hierarchy V4.3//EN"
"dbhierx.mod">
%dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ............................................................... -->

<!-- Entities for module inclusions ................................-->

<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- Entities for element classes .....................................-->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">  
<!ENTITY % local.article.class "">  
<!ENTITY % article.class "article %local.article.class;">  

<!ENTITY % local.book.class "">  
<!ENTITY % book.class "book %local.book.class;">  

<!ENTITY % local.chapter.class "">  
<!ENTITY % chapter.class "chapter %local.chapter.class;">  

<!ENTITY % local.index.class "">  
<!ENTITY % index.class "index|setindex %local.index.class;">  

<!ENTITY % local.refentry.class "">  
<!ENTITY % refentry.class "refentry %local.refentry.class;">  

<!ENTITY % local.section.class "">  
<!ENTITY % section.class "section %local.section.class;">  

<!ENTITY % local.nav.class "">  
<!ENTITY % nav.class "toc|lot|index|glossary|bibliography %local.nav.class;">  

<!-- Redeclaration placeholder ............................................ -->

<!-- For redeclaring entities that are declared after this point while 
retaining their references to the entities that are declared before 
this point -->

<![%dbhier.redecl.module;[
  <!-- Defining rdbhier here makes some buggy XML parsers happy. -->
  <!ENTITY % rdbhier "">  
  %rdbhier;
  <!--end of dbhier.redecl.module-->]]>

<!-- ...................................................................... -->

<!-- Entities for element mixtures ........................................ -->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forms.hook "">  

<!ENTITY % local.divcomponent.mix "">  
<!ENTITY % divcomponent.mix "":%list.class;%admon.class;
 |%linespecific.class;%synop.class;
 |%para.class;%informal.class;
<!-- to element that this entry represents -->

<!ENTITY % toback.attlist "INCLUDE">
<![|%tocback.attlist;[
<!ATTLIST toback
%label.attrib;
%linkend.attrib;%pagenum.attrib;
%common.attrib;
%toback.role.attrib;
%local.toback.attrib;
>]
<!--end of toback.attlist-->]]>
<!--end of toback.module-->]]>
<!--end of toc.content.module-->]]>

<!ENTITY % lot.content.module "INCLUDE">
<![|%lot.content.module;[
<!ENTITY % lot.module "INCLUDE">
<![|%lot.module;[
<!ENTITY % local.lot.attrib "">
<!ENTITY % lot.role.attrib "%role.attrib;">

<!ENTITY % lot.element "INCLUDE">
<![|%lot.element;[
<!ELEMENT lot %ho; (beginpage?, (%bookcomponent.title.content;)?, lotentry*)>
<!--end of lot.element-->]]>

<!ENTITY % lot.attlist "INCLUDE">
<![|%lot.attlist;[
<!ATTLIST lot
%label.attrib;
%common.attrib;
%lot.role.attrib;
%local.lot.attrib;
>]
<!--end of lot.attlist-->]]>
<!--end of lot.module-->]]>

<!ENTITY % lotentry.module "INCLUDE">
<![|%lotentry.module;[
<!ENTITY % local.lotentry.attrib "">
<!ENTITY % lotentry.role.attrib "%role.attrib;">

<!ENTITY % lotentry.element "INCLUDE">
<![|%lotentry.element;[
<!ELEMENT lotentry %ho; (%para.char.mix;)*>
An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book.
<ENTITY % article.element "INCLUDE">
<! [%article.element;[
<ELEMENT article %ho: ((%div.title.content;)?, articleinfo?, tocchap?, lot*,
( %bookcomponent.content;),
((%nav.class;); | (%appendix.class;); |ackno)*)
%ubi.q.inclusion;>}
<!!--end of article.element-->]]>

<!ENTITY % article.attlist "INCLUDE">
<! [%article.attlist;[
<!ATTLIST article
class(journalarticle
|productsheet
|whitepaper
|techreport
 |specification
|faq)#IMPLIED
parentbookIDREF#IMPLIED
%status.attrib;
%common.attrib;
%article.role.attrib;
%local.article.attrib;
>}
<!!--end of article.attlist-->]]>
<!!-- End of DocBook document hierarchy module V4.3 ...................... -->
<!!-- ...................................................................... -->

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-
4.5.c31424/docbook-4.3/dbhierx.mod
No license file was found, but licenses were detected in source scan.

<!!-- ...................................................................... -->
<!!-- DocBook XML HTML Table Module V4.4 ................................. -->
<!!-- File htmltblx.mod ................................................................. -->

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This module contains the definitions for elements that are isomorphic to the HTML elements. One could argue we should instead have based ourselves on the XHTML Table Module, but the HTML one is more likely what browsers are likely to accept today and users are likely to use.

This module has been developed for use with the DocBook V4.4 "union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

`<!ENTITY % htmltbl PUBLIC "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.4//EN" "htmltblx.mod"> %htmltbl;`

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

---
height CDATA #IMPLIED
>

<!-- Set up to read in the CALS model configured to merge with the XHTML table model -->

<!-- Add label and role attributes to Table and InformalTable -->

<!ENTITY % bodyatt "
floatstyle CDATA #IMPLIED
rowheader (firstcol|norowheader) #IMPLIED
%label.attrib;">

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). -->

<!ENTITY % secur "
class CDATA #IMPLIED
style CDATA #IMPLIED
title CDATA #IMPLIED
%i18n;
%events;
%tables.role.attrib;">

<!-- Attributes for Table (including HTML ones) -->

<!ENTITY % common.table.attribs "%bodyatt;
%secur;">

<!-- Content model for Table (that also allows HTML tables) -->

<!ENTITY % tbl.table.mdl "((blockinfo?,
    (%formalobject.title.content;),
    (%ndxterm.class;)*,
    textobject*,
    (graphic+|mediaobject+|tgroup+))
| (caption, (col*|colgroup*), thead?, tfoot?, (tbody+|tr+))">

<!ENTITY % informal.tbl.table.mdl "(textobject*,
    (graphic+|mediaobject+|tgroup+))
| ((col*|colgroup*), thead?, tfoot?, (tbody+|tr+))">

<!-- Attributes for Table (including HTML ones) -->
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<!ENTITY % dbcent PUBLIC "-//OASIS//ENTITIES DocBook Character Entities V4.4//EN" "dbcentx.mod"> %dbcent;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
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<!-- ...................................................................... -->
<!-- DocBook notations module V4.4 ........................................ -->
<!-- File dbnotnx.mod ..................................................... -->

$Id: dbnotnx.mod,v 1.31 2005/01/27 13:52:00 nwalsh Exp$

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<!-- ...................................................................... -->
<!-- This module contains the notation declarations used by DocBook. -->

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-/OASIS//ENTITIES DocBook Notations V4.4//EN"
"dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-4.5.c31424/docbook-4.4/dbnotnx.mod
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See also http://docbook.org/specs/

$Id: docbookx.dtd,v 1.31 2005/01/27 13:52:36 nwalsh Exp$

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* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-4.5.c31424/docbook-4.4/docbookx.dtd
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* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-4.5.c31424/docbook-4.1.2/docbookx.dtd
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<!-- ...................................................................... -->
<!-- DocBook XML document hierarchy module V4.1.2 ......................... -->
<!-- File dbhierx.mod .............................................................. -->


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<!-- ...................................................................... -->
<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- ...................................................................... -->
<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook XML Document Hierarchy V4.1.2//EN"
"dbhierx.mod"> %dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...................................................................... -->
<!-- Entities for element classes ......................................... -->

<!ENTITY % dbhier.decl.module "IGNORE">  
<!ENTITY % dbhier.decl2.module "IGNORE">

<!-- ...................................................................... -->
<!-- Entities for element classes ......................................... -->

<!ENTITY % local.appendix.class "">  
<!ENTITY % appendix.class "appendix %local.appendix.class;">  

<!ENTITY % local.article.class "">  
<!ENTITY % article.class "article %local.article.class;">  

<!ENTITY % local.book.class "">  
<!ENTITY % book.class "book %local.book.class;">
<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">

<!ENTITY % local.index.class "">
<!ENTITY % index.class "index|setindex %local.index.class;">

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">

<!ENTITY % local.nav.class "">
<!ENTITY % nav.class "toc|lot|index|glossary|bibliography
%local.nav.class;">

<!-- Redeclaration placeholder ............................................ -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![%dbhier.redecl.module;[
<!-- Defining rdbhier here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier "">
%rdbhier;
<![!--end of dbhier.redecl.module-->]]>

<!-- Entities for element mixtures ........................................ -->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forms.hook "">

<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|%ndxterm.class; |beginpage
%forms.hook;
%local.divcomponent.mix;">

<!ENTITY % local.refcomponent.mix "">
<!ENTITY % refcomponent.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
<!ATTLIST set
fpiCDATA#IMPLIED
%status.attrib;
%common.attrib;
%set.role.attrib;
%local.set.attrib;
>
<!--end of set.attlist-->
<!--end of set.module-->

<!ENTITY % setinfo.module "INCLUDE">
<![%setinfo.module;]
<!ENTITY % local.setinfo.attrib "">
<!ENTITY % setinfo.role.attrib "%role.attrib;"><ENTITY % setinfo.element "INCLUDE">
<![%setinfo.element;]
<!ELEMENT setinfo ((graphic | mediaobject
   | legalnotice | modespec | subjectset
   | keywordset | itemset | %bibliocomponent.mix;)+)
   <!--end of setinfo.element-->
]

<!-- Contents: IDs of the ToC, Books, and SetIndex that comprise
the set, in the order of their appearance -->

<!ENTITY % setinfo.attlist "INCLUDE">
<![%setinfo.attlist;[
<!ATTLIST setinfo
contentsIDREFS#IMPLIED
%common.attrib;
%setinfo.role.attrib;
%local.setinfo.attrib;
>
<!--end of setinfo.attlist-->
<!--end of setinfo.module-->
<!--end of set.content.module-->

<!-- .......................................................... -->
<!-- Book and BookInfo ........................................ -->

<!ENTITY % book.content.module "INCLUDE">
<![%book.content.module;[
<!ENTITY % book.module "INCLUDE">
<![%book.module;[

<!ENTITY % local.book.attrib "">
<!ENTITY % book.role.attrib "%role.attrib;">
contentsIDREFS#IMPLIED
%common.attrib;
%bookinfo.role.attrib;
%local.bookinfo.attrib;
>
<!--end of bookinfo.attlist-->
<!--end of bookinfo.attribute-->
<!--end of bookinfo.module-->
<!--end of book.content.module-->

<!-- ...................................................................... -->
<!-- Dedication, ToC, and LoT ............................................. -->
<!ENTITY % dedication.module "INCLUDE">
<![ %dedication.module;[
<!ENTITY % local.dedication.attrib "">
<!ENTITY % dedication.role.attrib "%role.attrib;">

<!ENTITY % dedication.element "INCLUDE">
<![ %dedication.element;[
<!ELEMENT dedication ((%sect.title.content;)?, (%legalnotice.mix;)+)>
<!--end of dedication.element-->
]

<!ENTITY % dedication.attlist "INCLUDE">
<![ %dedication.attlist;[
<!ATTLIST dedication
%status.attrib;
%common.attrib;
%dedication.role.attrib;
%local.dedication.attrib;
>
<!--end of dedication.attlist-->
<!--end of dedication.module-->

<!ENTITY % colophon.module "INCLUDE">
<![ %colophon.module;[
<!ENTITY % local.colophon.attrib "">
<!ENTITY % colophon.role.attrib "%role.attrib;">

<!ENTITY % colophon.element "INCLUDE">
<![ %colophon.element;[
<!ELEMENT colophon ((%sect.title.content;)?, (%textobject.mix;)+)>
<!--end of colophon.element-->
]

<!ENTITY % colophon.attlist "INCLUDE">
<![ %colophon.attlist;[
<!ATTLIST colophon
%status.attrib;
%common.attrib;
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 41274
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In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC "-//OASIS//ENTITIES DocBook Notations V4.3//EN" "dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
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DOD//DTD Table Model 951010//EN"


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DOD//DTD Table Model 951010//EN"

$Id: calstblx.dtd,v 1.10 2000/08/27 15:12:41 nwalsh Exp $

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This module contains the entity declarations for the standard ISO entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```
<!ENTITY % dbcent PUBLIC "-//OASIS//ENTITIES DocBook XML Character Entities V4.0//EN" "dbcentx.mod">
%dbcent;
```

See the documentation for detailed information on the parameter...
entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ................................................................. -->

<!ENTITY % ISOamsa.module "INCLUDE">
<![%ISOamsa.module;]
<!ENTITY % ISOamsa PUBLIC
"ent/iso-amsa.ent">
%ISOamsa;
<!--end of ISOamsa.module-->
]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![%ISOamsb.module;]
<!ENTITY % ISOamsb PUBLIC
"ent/iso-amsb.ent">
%ISOamsb;
<!--end of ISOamsb.module-->
]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![%ISOamsc.module;]
<!ENTITY % ISOamsc PUBLIC
"ent/iso-amsc.ent">
%ISOamsc;
<!--end of ISOamsc.module-->
]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![%ISOamsn.module;]
<!ENTITY % ISOamsn PUBLIC
"ent/iso-amsn.ent">
%ISOamsn;
<!--end of ISOamsn.module-->
]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![%ISOamso.module;]
<!ENTITY % ISOamso PUBLIC
"ent/iso-amso.ent">
%ISOamso;
<!--end of ISOamso.module-->
]]>

<!ENTITY % ISOamsr.module "INCLUDE">
]]>
changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->
<!-- This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.0//EN"
"dbpoolx.mod">
%dbpool;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...................................................................... -->
<!-- General-purpose semantics entities ................................... -->

<!ENTITY % yesorno.attvals"CDATA">

<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbpool.redecl.module "IGNORE">

<!-- Entities for element classes and mixtures ......................... -->

Footnote mixture X X X X X
Example mixture X X X X X
Highlights mixture X X X
Paragraph mixture X X X X
Admonition mixture X X X X X b c
Figure mixture X X X
Table entry mixture X X X X d
Glossary def mixture X X X X X e
Legal notice mixture X X X X f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->

<!ENTITY % local.component.mix "">
<!ENTITY % local.sidebar.mix "">
<!ENTITY % local.qandaset.mix "">

<!ENTITY % qandaset.mix "">
"%list.class; |%admon.class; 
|%linespecific.class;|%synop.class; 
|%para.class;|%informal.class; 
|%formal.class;%compound.class; 
|%genobj.class;%descobj.class; 
|%ndxterm.class; |beginpage 
%local.qandaset.mix;">
a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

`%forminlines.hook``
<!-- Entities for attributes and attribute components ...................... -->

<!-- Effectivity attributes .................................................. -->

<!-- Arch: Computer or chip architecture to which element applies; no default -->

<!ENTITY % arch.attrib
"archCDATA#IMPLIED">

<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib
"conditionCDATA#IMPLIED">

<!-- Conformance: Standards conformance characteristics -->

<!ENTITY % conformance.attrib
"conformanceNMTOKENS#IMPLIED">

<!-- OS: Operating system to which element applies; no default -->

<!ENTITY % os.attrib
"osCDATA#IMPLIED">

<!-- Revision: Editorial revision to which element belongs; no default -->

<!ENTITY % revision.attrib
"revisionCDATA#IMPLIED">

<!-- Security: Security classification; no default -->

<!ENTITY % security.attrib
"securityCDATA#IMPLIED">

<!-- UserLevel: Level of user experience to which element applies; no default -->

<!ENTITY % userlevel.attrib
"userlevelCDATA#IMPLIED">

<!-- Vendor: Computer vendor to which element applies; no default -->

<!ENTITY % vendor.attrib
"vendorCDATA#IMPLIED"
<!ENTITY % vendor.attrib "vendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib "%arch.attrib;
  %condition.attrib;
  %conformance.attrib;
  %os.attrib;
  %revision.attrib;
    %security.attrib;
  %userlevel.attrib;
  %vendor.attrib;
  %local.effectivity.attrib;">

<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib "idID#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib "idID#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib "langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib "remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->

<!ENTITY % role.attrib -->
"roleCDATA#IMPLIED">

<!-- XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element -->

<!ENTITY % xreflabel.attrib "xreflabelCDATA#IMPLIED">

<!-- RevisionFlag: Revision status of element; default is that element wasn't revised -->

<!ENTITY % revisionflag.attrib "revisionflag(changed
|added
|deleted
|off)#IMPLIED">

<!ENTITY % local.common.attrib "">

<!-- Role is included explicitly on each element -->

<!ENTITY % common.attrib "%id.attrib;
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;">

<!-- Role is included explicitly on each element -->

<!ENTITY % idreq.common.attrib "%idreq.attrib;
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;">

<!-- Semi-common attributes and other attribute entities .................. -->
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information.
pool elements. See also the document information elements, below. -->

<!--FUTURE USE (V4.0):

-------------------------------
AuthorBlurb and Affiliation will be removed from %person.ident.mix; and a new
wrapper element created to allow association of those two elements with
Author name information.

-------------------------------
-->

<!ENTITY % local.person.ident.mix "">
<!ENTITY % person.ident.mix
"honorific|firstname|surname|lineage|othername|affiliation
|authorblurb|contrib %local.person.ident.mix;">
<ENTITY % bibliomisc.element "INCLUDE">
<![%bibliomisc.element;%]
<!ELEMENT bibliomisc (%para.char.mix;)*>
<!--end of bibliomisc.element-->
]

<!--end of bibliomisc.attlist-->
]

<!--end of bibliomisc.module-->
]

<!-- Subject, Keyword, and ITermSet elements ....................... -->

<!ENTITY % subjectset.content.module "INCLUDE">
<![%subjectset.content.module;%]
<!ENTITY % subjectset.module "INCLUDE">
<![%subjectset.module;%]
<!ENTITY % local.subjectset.attrib ">
<!ENTITY % subjectset.role.attrib ">%role.attrib;">

<!ENTITY % subjectset.element "INCLUDE">
<![%subjectset.element;%]
<!ELEMENT subjectset (subject+)>
<!--end of subjectset.element-->

<!-- Scheme: Controlled vocabulary employed in SubjectTerms -->

<!ENTITY % subjectset.attlist "INCLUDE">
<![%subjectset.attlist;%]
<!ATTLIST subjectset
schemeNMTOKEN#IMPLIED
%common.attrib;
%subjectset.role.attrib;
%local.subjectset.attrib;
>
<!--end of subjectset.attlist-->
<!--end of subjectset.module-->

<!ENTITY % subject.module "INCLUDE">
<![%subject.module;%]
<!ENTITY % local.subject.attrib ">
<!ENTITY % subject.role.attrib ">%role.attrib;"
<!-- Procedure ..................... -->

<!--end of procedure.element-->

<!--end of procedure.attlist-->

<!--end of step.module-->

<!-- Performance: Whether the Step must be performed -->
<!-- not #REQUIRED! -->

<!--end of step.attlist-->

<!--end of step.module-->

<!--end of step.role.attrib-->

<!--end of step.element-->

<!--end of step.attlist-->

<!--end of step.role.attrib-->

<!--end of step.module-->

<!--end of step.attriblist-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.attriblist-->

<!--end of procedure.element-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.element-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.element-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.element-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.element-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.element-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.element-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.element-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.element-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.element-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.element-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->

<!--end of procedure.module-->

<!--end of procedure.role.attrib-->

<!--end of procedure.attriblist-->
<!ENTITY % attribution.module "INCLUDE">
<!ENTITY % local.attribution.attrib "">
<!ENTITY % attribution.role.attrib "%role.attrib;"> 

<!ENTITY % attribution.element "INCLUDE">
<!ENTITY % attribution.attlist "INCLUDE">
<!ENTITY % bridgehead.module "INCLUDE">
<!ENTITY % local.bridgehead.attrib "">
<!ENTITY % bridgehead.role.attrib "%role.attrib;"> 

<!ENTITY % bridgehead.element "INCLUDE">
<!ENTITY % bridgehead.attlist "INCLUDE">
<!ATTLIST bridgehead 
renderas
|sect1

<![%attribution.element;]>
<![%attribution.attlist;]
<![%bridgehead.attlist;]
<![%bridgehead.element;]>

 <!-- Renderas: Indicates the format in which the BridgeHead should appear -->

<!-- --><![%bridgehead.attlist;]>
<![%bridgehead.element;]

<!-- Renderas: Indicates the format in which the BridgeHead should appear -->
</!--end of note.attlist-->]]>

</ENTITY % note.attlist "INCLUDE">
<![CDATA[
<!ATTLIST note
%common.attrib;
%admon.role.attrib;
%local.admon.attrib;
>
</!--end of note.attlist-->]]>

</ENTITY % tip.element "INCLUDE">
<![CDATA[
<!ATTLIST tip
%common.attrib;
%admon.role.attrib;
%local.admon.attrib;
>
</!--end of tip.element-->]]>

</ENTITY % tip.attlist "INCLUDE">
<![CDATA[
<!ATTLIST tip
%common.attrib;
%admon.role.attrib;
%local.admon.attrib;
>
</!--end of tip.attlist-->]]>

</ENTITY % warning.element "INCLUDE">
<![CDATA[
<!ATTLIST warning
%common.attrib;
%admon.role.attrib;
%local.admon.attrib;
>
</!--end of warning.element-->]]>

</ENTITY % warning.attlist "INCLUDE">
<![CDATA[
<!ATTLIST warning
%common.attrib;
%admon.role.attrib;
%local.admon.attrib;
>
</!--end of warning.attlist-->]]>

</!end of admon.module-->]]>

<![CDATA[-- ...................................................................... -->
<![CDATA[-- Lists ................................................................ -->
<![CDATA[-- GlossList ......................... -->

<![CDATA[-- ................................................................. -->
<![CDATA[-- Lists ....................................................... -->

<![CDATA[-- GlossList ......................... -->

<![CDATA[-- Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 41339 -->
<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">

<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!ELEMENT glosslist (glossentry+)>
<!--end of glosslist.element-->
]

<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib;
%glosslist.role.attrib;
%local.glosslist.attrib;
>
<!--end of glosslist.attlist-->
]
<!--end of glosslist.module-->
]

<!ENTITY % glossentry.content.module "INCLUDE">
<![%glossentry.content.module;]
<!ENTITY % glossentry.module "INCLUDE">
<![%glossentry.module;]
<!ENTITY % local.glossentry.attrib "">
<!ENTITY % glossentry.role.attrib "%role.attrib;">

<!ENTITY % glossentry.element "INCLUDE">
<![%glossentry.element;]
<!ELEMENT glossentry (glossterm, acronym?, abbrev?,
  (%ndxterm.class;)*,
  revhistory?, (glosssee|glossdef+))>
<!--end of glossentry.element-->
]

<!ENTITY % glossentry.attlist "INCLUDE">
<![%glossentry.attlist;]
<!ATTLIST glossentry
sortas CDATA #IMPLIED
%common.attrib;
%glossentry.role.attrib;
%local.glossentry.attrib;
>
<!--end of glossentry.attlist-->
]
<!--end of glossentry.module-->
]

<!-- SortAs: String by which the GlossEntry is to be sorted (alphabetized) in lieu of its proper content -->
GlossTerm will be excluded from itself. Also, GlossTerm *may* be split into an element that appears in a Glossary and an element that can appear in the main text.

The Subject attribute will be renamed Keyword.

Subject: List of subjects; keywords for the definition --
<!ENTITY % local.callout.attrib "">
<!ENTITY % callout.role.attrib "%role.attrib;">

<!ENTITY % callout.element "INCLUDE">
<![%callout.element;[
<!ELEMENT callout ((%component.mix;)+)>
<!--end of callout.element-->]]>

<!-- AreaRefs: IDs of one or more Areas or AreaSets described by this Callout -->

<![%callout.attlist;[
<!ATTLIST callout arearefs IDREFS#REQUIRED
%common.attrib;
%callout.role.attrib;
%local.callout.attrib;
>
<!--end of callout.attlist-->]]>

<!--end of calloutlist.content.module-->]]>

<!-- .............................................................. -->
<!-- Objects .............................................................. -->
<!-- Examples etc. ................. -->

<![%example.module;[
<!ENTITY % local.example.attrib "">
<!ENTITY % example.role.attrib "%role.attrib;">

<![%example.element;[
<!ELEMENT example ((%formalobject.title.content;), (%example.mix;)+)>
<!--end of example.element-->]]>

<![%example.attlist;[
<!ATTLIST example
%label.attrib;
%width.attrib;
%common.attrib;
%example.role.attrib;
%local.example.attrib;
>
<!DOCTYPE %areaspec.module:[
<!ENTITY % local.areaspec.attrib "">
<!ENTITY % areaspec.role.attrib "%role.attrib;"> 

<!ENTITY % areaspec.element "INCLUDE"> 
<![%areaspec.element:] [ 
<!ELEMENT areaspec ((area|areaset)+)> 
<!--end of areaspec.element-->]]>

<!-- Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDE"> 
<![%areaspec.attlist:] [ 
<!ATTLIST areaspec units (calspair | linecolumn | linerange | linecolumnpair | other) #IMPLIED 
otherunits NMTOKEN #IMPLIED 
%common.attrib; 
%areaspec.role.attrib;]
<!ELEMENT areaset (area+)>
<!-[end of areaset.element-->]]>

<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec -->

<!ENTITY % areaset.attlist "INCLUDE">
<![ atrlist;[
<!ATTLIST areaset
'label.attrib';
units(calspair
| linecolumn
| linerange
| linecolumnpair
| other)IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.areaset.attrib;
>
<![end of areaset.attlist-->]]>
<![end of areaset.module-->]]>
<![end of areaspec.content.module-->]]>

<!ENTITY % programlisting.module "INCLUDE">
<![ programlisting.module;[
<![ ENTITY % local.programlisting.attrib """>
<![ ENTITY % programlisting.role.attrib "%role.attrib;" >

<![ ENTITY % programlisting.element "INCLUDE">
<![ programlisting.element;[
<![ ELEMENT programlisting (%para.char.mix; | co | lineannotation)*>
<![end of programlisting.element-->]]>

<![ ENTITY % programlisting.attlist "INCLUDE">
<![ programlisting.attlist;[
<![ATTLIST programlisting
'width.attrib';
%linespecific.attrib;
%common.attrib;
%programlisting.role.attrib;
%local.programlisting.attrib;
>
<![end of programlisting.attlist-->]]>
<![end of programlisting.module-->]]>
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 41357
(imageobjectco|textobject*)>
<!--end of mediaobjectco.element-->]]>

<![ENTITY % mediaobjectco.atlist "INCLUDE">
<![mediaobjectco.atlist; [ 
<!ATTLIST mediaobjectco
%common.attrib; 
%mediaobjectco.role.attrib; 
%local.mediaobjectco.attrib; 
> 
<!--end of mediaobjectco.atlist-->]]>
<!--end of mediaobjectco.module-->]]>

<![ENTITY % imageobjectco.module "INCLUDE">
<![imageobjectco.module; [ 
<![ENTITY % local.imageobjectco.attrib "">
<![ENTITY % imageobjectco.role.attrib "%role.attrib;"> 

<![ENTITY % imageobjectco.element "INCLUDE">
<![imageobjectco.element; [ 
<!ELEMENT imageobjectco (areaspec, imageobject, calloutlist*)>
<!--end of imageobjectco.element-->]]>

<![ENTITY % imageobjectco.atlist "INCLUDE">
<![imageobjectco.atlist; [ 
<![ATTLIST imageobjectco
%common.attrib; 
%imageobjectco.role.attrib; 
%local.imageobjectco.attrib; 
> 
<!--end of imageobjectco.atlist-->]]>
<!--end of imageobjectco.module-->]]>
<!--end of mediaobject.content.module-->]]>

<!-- Equations ......................... -->

<![-- This PE provides a mechanism for replacing equation content, -->
<![-- perhaps adding a new or different model (e.g., MathML) -->
<![ENTITY % equation.content "(alt?, (graphic+|mediaobject+))"> 
<![ENTITY % inlineequation.content "(alt?, (graphic+|linemediaobject+))"> 

<![ENTITY % equation.module "INCLUDE">
<![%equation.module;[ 
<![ENTITY % local.equation.attrib "">
<![ENTITY % equation.role.attrib "%role.attrib;"> 

<![ENTITY % equation.element "INCLUDE">
<![%equation.element;]
<!ELEMENT equation ((%formalobject.title.content;)?, (informalequation | %equation.content;))>
<!ENTITY % equation.attlist "INCLUDE">
<![[%equation.attlist;]
<!ATTLIST equation
%label.attrib;
%common.attrib;
%equation.role.attrib;
%local.equation.attrib;
>
<![!--end of equation.attlist-->]]>
<![!--end of equation.module-->]]>

<!ENTITY % informalequation.module "INCLUDE">
<![[%informalequation.module;]
<!ENTITY % local.informalequation.attrib "">
<!ENTITY % informalequation.role.attrib "%role.attrib;"> 

<!ENTITY % informalequation.element "INCLUDE">
<![[%informalequation.element;]
<!ELEMENT informalequation (%equation.content;)
<![!--end of informalequation.element-->]]>
<![!--end of informalequation.module-->]]>

<!ENTITY % inlineequation.module "INCLUDE">
<![[%inlineequation.module;]
<!ENTITY % local.inlineequation.attrib "">
<!ENTITY % inlineequation.role.attrib "%role.attrib;"> 

<!ENTITY % inlineequation.element "INCLUDE">
<![[%inlineequation.element;]
<!ELEMENT inlineequation (%inlineequation.content;)
<![!--end of inlineequation.element-->]]>
<![!--end of inlineequation.module-->]]>
%common.attrib;
%inlineequation.role.attrib;
%local.inlineequation.attrib;
>
<!--end of inlineequation.attlist-->]]>
<!--end of inlineequation.module-->]]>

<!ENTITY % alt.module "INCLUDE">
<![alt.module:]
<!ENTITY % local.alt.attrib "">
<!ENTITY % alt.role.attrib "%role.attrib;">

<!ENTITY % alt.element "INCLUDE">
<![alt.element:]
<!ELEMENT alt (#PCDATA)>
<!--end of alt.element-->]]>

<!ENTITY % alt.attlist "INCLUDE">
<![alt.attlist:]
<!ENTITY % table.module "INCLUDE">
<![table.module:]
<!-- Choose a table model. CALS is off by default, so the default -->
<!-- is now the SGML Open Exchange table model. -->

<!ENTITY % cals.table.module "INCLUDE">
<![cals.table.module:]
<!ENTITY % exchange.table.module "IGNORE">
]]>
<!ENTITY % exchange.table.module "INCLUDE">

<!ENTITY % tables.role.attrib "%role.attrib;">

<![cals.table.module:]
<!-- Add label and role attributes to table and informaltable -->
<!ENTITY % bodyatt "%label.attrib;">

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row,
Synopsis .............................

<!ENTITY % synopsis.module "INCLUDE">
<!ENTITY % cmdsynopsis.content.module "INCLUDE">
<!ENTITY % cmdsynopsis.module "INCLUDE">

<!ATTLIST synopsis
%label.attrib;
%linespecific.attrib;
%common.attrib;
%synopsis.role.attrib;
%local.synopsis.attrib;
>
<!ATTLIST cmdsynopsis
%cmdattrib;
%local.cmdattrib;
%cmdsynopsis.role.attrib;>

<!ENTITY % cmdsynopsis.element "INCLUDE">
<!ENTITY % cmdsynopsis.role.attrib %role.attrib;>

<!ENTITY % cmdsynopsis.content.element "INCLUDE">
<!ENTITY % cmdsynopsis.element %cmdattrib;>
<!ENTITY % cmdsynopsis.role.attrib %role.attrib;>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>

<!ENTITY % cmdsynopsis.synopfragment "INCLUDE"/>
top-level arguments; alternate value might be e.g., &Delta; -->

<!ENTITY % cmdsynopsis.attlist "INCLUDE">
<![%cmdsynopsis.attlist;[
<!ATTLIST cmdsynopsis
%label.attrib;
sepcharCDATA" "
cmdlengthCDATA#IMPLIED
%common.attrib;
%cmdsynopsis.role.attrib;
%local.cmdsynopsis.attrib;
>
<!.--end of cmdsynopsis.attlist-->
<!.--end of cmdsynopsis.module-->
]
]
]
]

<!ENTITY % arg.module "INCLUDE">
<![%arg.module;[
<!ENTITY % local.arg.attrib "">
<!ENTITY % arg.role.attrib "%role.attrib;">  

<!ENTITY % arg.element "INCLUDE">
<![%arg.element;[
<!ELEMENT arg (#PCDATA
| arg
| group
| option
| synopfragmentref
| replaceable
| sbr)*>
<!.--end of arg.element-->

<!.-- Choice: Whether Arg must be supplied: Opt (optional to supply, e.g. [arg]; the default), Req (required to supply, e.g. {arg}), or Plain (required to supply, e.g. arg) -->
<!.-- Rep: whether Arg is repeatable: Norepeat (e.g. arg without ellipsis; the default), or Repeat (e.g. arg...) -->

<!ENTITY % arg.attlist "INCLUDE">
<![%arg.attlist;[
<!ATTLIST arg
choice(opt
| req
| plain)/opt'
rep(norepeat
| repeat)/norepeat'
%common.attrib;
<!-- Processing assumes that only one Parameter will appear in a
ParamDef, and that FuncParams will be used at most once, for
providing information on the "inner parameters" for parameters that
are pointers to functions. -->

<!ENTITY % paramdef.module "INCLUDE">
<![%paramdef.module;]
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "%role.attrib;">

<!ENTITY % paramdef.element "INCLUDE">
<![%paramdef.element;]
<!ELEMENT paramdef (#PCDATA
| replaceable
| parameter
| funcparams)*>
<!--end of paramdef.element-->]]>

<!ENTITY % paramdef.attlist "INCLUDE">
<![%paramdef.attlist;]
<!ATTLIST paramdef
%common.attrib;
%paramdef.role.attrib;
%local.paramdef.attrib;
>
<!--end of paramdef.attlist-->]]>

<!ENTITY % funcparams.module "INCLUDE">
<![%funcparams.module;]
<!ENTITY % local.funcparams.attrib "">
<!ENTITY % funcparams.role.attrib "%role.attrib;">

<!ENTITY % funcparams.element "INCLUDE">
<![%funcparams.element;]
<!ELEMENT funcparams (%cptr.char.mix;)*>
<!--end of funcparams.element-->]]>

<!ENTITY % funcparams.attlist "INCLUDE">
<![%funcparams.attlist;]
<!ATTLIST funcparams
%common.attrib;
%funcparams.role.attrib;
%local.funcparams.attrib;
>
<!--end of funcparams.attlist-->]]>
<!-- OrgName .......................... -->

<!ENTITY % orgname.module "INCLUDE">
<![%orgname.module;]
<!ENTITY % local.orgname.attrib "">
<!ENTITY % orgname.role.attrib "%role.attrib;"> 

<!ENTITY % orgname.element "INCLUDE">
<![%orgname.element;]
<!ELEMENT orgname (%docinfo.char.mix;)*>
<!--end of orgname.element-->]]>

<!ENTITY % orgname.attlist "INCLUDE">
<![%orgname.attlist;]
<!ATTLIST orgname
%common.attrib;
%orgname.role.attrib;
%local.orgname.attrib;
>
<!--end of orgname.attlist-->]]>
<!--end of orgname.module-->]]>

<!-- OtherCredit ...................... -->

<!ENTITY % othercredit.module "INCLUDE">
<![%othercredit.module;]
<!ATTLIST othercredit
%common.attrib;
%othercredit.role.attrib;
%local.othercredit.attrib;
>
<!--end of othercredit.attlist-->]]>
<!--end of othercredit.module-->]]>

<!ENTITY % local.othercredit.attrib "">
<!ENTITY % othercredit.role.attrib "%role.attrib;"> 

<!ENTITY % othercredit.element "INCLUDE">
<![%othercredit.element;]
<!ELEMENT othercredit (%person.ident.mix;)+>
<!--end of othercredit.element-->]]>

<!ENTITY % othercredit.attlist "INCLUDE">
<![%othercredit.attlist;]
<!ATTLIST othercredit
%common.attrib;
%othercredit.role.attrib;
%local.othercredit.attrib;
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 41407
%local.mousebutton.attrib;
>
<!--end of mousebutton.attlist-->]]>
<!--end of mousebutton.module-->]]>

<!ENTITY % msgtext.module "INCLUDE">
<![%msgtext.module;]]>
<!ENTITY % local.msgtext.attrib "">
<!ENTITY % msgtext.role.attrib "%role.attrib;"> 

<!--end of msgtext.element-->
]

<!ENTITY % msgtext.attlist "INCLUDE">
<![%msgtext.attlist;]]>
<!ATTLIST msgtext 
%common.attrib;
%msgtext.role.attrib;
%local.msgtext.attrib;
>
<!--end of msgtext.attlist-->]]>
<!--end of msgtext.module-->]]>

<!ENTITY % option.module "INCLUDE">
<![%option.module;]]>
<!ENTITY % local.option.attrib "">
<!ENTITY % option.role.attrib "%role.attrib;"> 

<!--end of option.element-->
]

<!ENTITY % option.attlist "INCLUDE">
<![%option.attlist;]]>
<!ATTLIST option 
%common.attrib;
%option.role.attrib;
%local.option.attrib;
>
<!--end of option.attlist-->]]>
<!--end of option.module-->]]>

<!ENTITY % optional.module "INCLUDE">
<![%optional.module;]]>
<!ENTITY % local.optional.attrib ""
<!ENTITY % optional.role.attrib "%role.attrib;"> 

<!ENTITY % optional.element "INCLUDE"> 
<![%optional.element;] 
<!ELEMENT optional (%cptr.char.mix;)*> 
<![--end of optional.element--]>]]>

<!ENTITY % optional.attlist "INCLUDE"> 
<![%optional.attlist;] 
<!ATTLIST optional 
%common.attrib; 
%optional.role.attrib; 
%local.optional.attrib; 
> 
<![--end of optional.attlist-->]]> 
<![--end of optional.module-->]]>

<!ENTITY % parameter.module "INCLUDE"> 
<![%parameter.module;] 
<!ENTITY % local.parameter.attrib ""> 
<!ENTITY % parameter.role.attrib "%role.attrib;"> 

<!ENTITY % parameter.element "INCLUDE"> 
<![%parameter.element;] 
<!ELEMENT parameter (%smallcptr.char.mix;)*> 
<![--end of parameter.element-->]]> 

<![!-- Class: Type of the Parameter; no default -->]

<!ENTITY % parameter.attlist "INCLUDE"> 
<![%parameter.attlist;] 
<!ATTLIST parameter 
class (command 
|function 
|option)#IMPLIED 
%moreinfo.attrib; 
%common.attrib; 
%parameter.role.attrib; 
%local.parameter.attrib; 
> 
<![--end of parameter.attlist-->]]> 
<![--end of parameter.module-->]]>

<!ENTITY % prompt.module "INCLUDE"> 
<![%prompt.module;] 
<!ENTITY % local.prompt.attrib ""> 
<!ENTITY % prompt.role.attrib "%role.attrib;">
<!-- Pubwork: Genre of published work cited; no default -->

 יהיה

 cc
db

 !--end of refentrytitle.module-->

 <!ENTITY % manvolnum.module "INCLUDE">
 <!--%manvolnum.module:[]
 <!ENTITY % local.manvolnum.attrib ""/>
 <!ENTITY % namvolnum.role.attrib "%role.attrib;">

 <!ENTITY % manvolnum.element "INCLUDE">
 <!--%manvolnum.element:[]
 <!ELEMENT manvolnum (%word.char.mix;)*> -->

 <!ENTITY % manvolnum.attlist "INCLUDE">
 <!--%manvolnum.attlist:[]
 <!ATTLIST manvolnum
 %common.attrib;
 %namvolnum.role.attrib;
 %local.manvolnum.attrib;
 > -->

 <!ENTITY % citetitle.module "INCLUDE">
 <!--%citetitle.module:[]
 <!ENTITY % local.citetitle.attrib ""/>
 <!ENTITY % citetitle.role.attrib "%role.attrib;">

 <!ENTITY % citetitle.element "INCLUDE">
 <!--%citetitle.element:[]
 <!ELEMENT citetitle (%para.char.mix;)*> -->

 <!ENTITY % citetitle.attlist "INCLUDE">
 <!--%citetitle.attlist:[]
 <!ATTLIST citetitle
 pubwork(article
 |book
 |chapter
 |part
 |refentry
 |section
 |journal
 |series
 |set
 |manuscript)#IMPLIED

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<ENTITY % link.module "INCLUDE">
<![%link.module;]
<ENTITY % local.link.attrib ""/>
<ENTITY % link.role.attrib "%role.attrib;">

<ENTITY % link.element "INCLUDE">
<![%link.element;]
<ENTITY % endterm.attrib "INCLUDE">
<ENTITY % endterm.req.attrib "INCLUDE">
<ENTITY % role.attrib "INCLUDE">
<ENTITY % common.attrib "INCLUDE">
<ENTITY % link.role.attrib "INCLUDE">
<ENTITY % local.link.attrib "INCLUDE">

<ENTITY % link.attlist "INCLUDE">
<![%link.attlist;]
<ATTLIST link
endtermIDREF#IMPLIED
%linkendreq.attrib;typeCDATA#IMPLIED
%common.attrib;
%link.role.attrib;
%local.link.attrib;
>
<ENTITY % olink.module "INCLUDE">
<![%mlink.module;]
<ENTITY % local.mlink.attrib ""/>
<ENTITY % mlink.role.attrib "%role.attrib;">

<ENTITY % mlink.element "INCLUDE">
<![%mlink.element;]
<ENTITY % olink.element "INCLUDE">
<![%mlink.element;]
<ENTITY % TargetDocEnt: Name of an entity to be the target of the link -->
<ENTITY % LinkMode: ID of a ModeSpec containing instructions for
No license file was found, but licenses were detected in source scan.

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This module depends on the DocBook information pool module. All
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In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook Document Hierarchy V4.4//EN"
"dbhierx.mod">
%dbhier;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.

-->

<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- Entities for element classes ......................................... -->
<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">

<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">

<!ENTITY % local.book.class "">
<!ENTITY % book.class "book %local.book.class;">

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">

<!ENTITY % local.index.class " ">
<!-- Redeclaration placeholder 2 .......................................... -->
<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![%dbhier.redecl2.module;[ -->
<!ENTITY % rdbhier2 "">
<!-- Defining rdbhier2 here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier2 "">

%rdbhier2;
The document contains a section on setinfo module and setinfo element, along with various entity declarations for attributes and elements. It appears to be part of a larger document template or stylesheet, possibly used in creating connected pharma content. The text suggests that the setinfo module and its elements are used to organize the contents of a set, likely for a connected pharma application. The code snippet includes comments and directives that are typical of document markup languages, such as SGML or XML.
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<ENTITY % sectioninfo.attlist "INCLUDE">
<![% sectioninfo.attlist; [
<!ATTLIST sectioninfo
%common.attrib;
%sectioninfo.role.attrib;
%local.sectioninfo.attrib;
]></ENTITY % sectioninfo.attlist--->]]>
</ENTITY % sectioninfo.module--->]]>
</ENTITY % sectioninfo.content.module--->]]>

</ENTITY % sect1.module "INCLUDE">
<![%sect1.module;[
<!ENTITY % local.sect1.attrib "">
<!ENTITY % sect1.role.attrib "%role.attrib;" >

</ENTITY % sect1.module "INCLUDE">
<![%sect1.module;[
<!ELEMENT sect1 %ho; (sect1info?, (%sect.title.content;), (%nav.class;)*,
((%divcomponent.mix;)+,
((%refentry.class;)* | sect2* | simplesect*) |
| (%refentry.class;)+ | sect2+ | simplesect+), (%nav.class;)*)
%ubiq.inclusion;>
</ENTITY % sect1.module--->]]>

</ENTITY % sect1.attlist "INCLUDE">
<![%sect1.attlist;[
<!ATTLIST sect1 renderas(sect2 |sect3 |sect4 |sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect1.role.attrib;
%local.sect1.attrib;
]></ENTITY % sect1.attlist--->]]>
</ENTITY % sect1.module--->]]>
<!ENTITY % sect3.attlist "INCLUDE">
<![%sect3.attlist;[
<!ATTLIST sect3
renderas(sect1
|sect2
|sect3
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect3.role.attrib;
%local.sect3.attrib;
>
<!--end of sect3.attlist-->]]>
<!--end of sect3.module-->]]>

<!ENTITY % sect4.module "INCLUDE">
<![%sect4.module;[
<!ENTITY % local.sect4.attrib "">
<!ENTITY % sect4.role.attrib "%role.attrib;">

<!ENTITY % sect4.element "INCLUDE">
<![%sect4.element;[
<!ELEMENT sect4 %ho; (sect4info?, (%sect.title.content;), (%nav.class;)*,
((%divcomponent.mix;)+,
((%refentry.class;)* | sect5* | simplesect*))
| (%refentry.class;)+ | sect5+ | simplesect+), (%nav.class;)*>
<!--end of sect4.element-->]]>

<!-- Renderas: Indicates the format in which the heading should appear -->

<!ENTITY % sect4.attlist "INCLUDE">
<![%sect4.attlist;[
<!ATTLIST sect4
renderas(sect1
|sect2
|sect3
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect4.role.attrib;
%local.sect4.attrib;
>
<!ENTITY % local.seealsoie.attrib "">
<!ENTITY % seealsoie.role.attrib "%role.attrib;">  
<!ENTITY % seealsoie.element "INCLUDE"/>
<![%seealsoie.element;[
  <!ELEMENT seealsoie %ho; (%ndxterm.char.mix;)*>
  <!--end of seealsoie.element-->
]]>

<!ENTITY % seealsoie.attlist "INCLUDE">  
<![%seealsoie.attlist;[
  <!ATTLIST seealsoie
    %linkends.attrib; %common.attrib;
    %seealsoie.role.attrib;
    %local.seealsoie.attrib;
    >
  <!--end of seealsoie.attlist-->
]]>

<!ENTITY % refentry.content.module "INCLUDE">  
<![%refentry.content.module;[
  <!ENTITY % refentry.module "INCLUDE">  
<![%refentry.module;[
  <!ENTITY % local.refentry.attrib "">
  <!ENTITY % refentry.role.attrib "%role.attrib;">  
<!ENTITY % refentry.element "INCLUDE">  
<![%refentry.element;[
  <!ELEMENT refentry %ho; (beginpage?,
    (%ndxterm.class;)*,
    refentryinfo?, refmeta?, (remark|%link.char.class;)*,
    refnamediv+, refsynopsisdiv?, (refsect1|refsection+))
  %ubiq.inclusion;>
  <!--end of refentry.element-->
]]>

<!ENTITY % refentry.attlist "INCLUDE">  
<![%refentry.attlist;[
  <!ATTLIST refentry
    %status.attrib;
    %common.attrib;
    %refentry.role.attrib;
    %local.refentry.attrib;
    >
  <!--end of refentry.attlist-->
]]>
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- Entities for element classes ......................................... -->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">
retaining their references to the entities that are declared before this point -->

<![%dbhier.redecl2.module;
<!.-- Defining rdbhier2 here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier2 "">
%rdbhier2;
<!.--end of dbhier.redecl2.module-->]]>

<!-- .......................................................... -->
<!-- Entities for content models ................................... -->

<!ENTITY % div.title.content
"title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.title.content
"title, subtitle?, titleabbrev?">

<!ENTITY % sect.title.content
"title, subtitle?, titleabbrev?">

<!ENTITY % refsect.title.content
"title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.content
"((%divcomponent.mix;)+,
(sect1*|(%refentry.class;)*|simplesect*[%section.class;])*%
| (sect1|(%refentry.class;)+|simplesect+[%section.class;]+")">

<!-- .......................................................... -->
<!-- Set and SetInfo ............................................... -->

<!ENTITY % set.content.module "INCLUDE">
<![%set.content.module;]
<!ENTITY % set.module "INCLUDE">
<![%set.module;]
<!ENTITY % local.set.attrib "%">
<!ENTITY % set.role.attrib "%role.attrib;">

<!ENTITY % set.element "INCLUDE">
<![%set.element;]
<!!--doc:A collection of books.-->
<!ELEMENT set %ho; ((%div.title.content;?), setinfo?, toc?, (set[%book.class;]+,
setindex?)
%ubiq.inclusion;>
<!.--end of set.element-->]]>

<!-- FPI: SGML formal public identifier -->
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<!DOCTYPE book SYSTEM "book.html">
<!ELEMENT book (%ho; (%div.title.content;)?, bookinfo?,
(declaration | toc | lot
| glossary | bibliography | preface
| %chapter.class; | reference | part
| %article.class;
| %appendix.class;
| %index.class;
| colophon)*)
%ubiq.inclusion;>
<!--end of book.element-->]]>

<!-- FPI: SGML formal public identifier -->

<!ENTITY % book.attlist "INCLUDE">
<![CDATA[
<!ATTLIST book fpi CDATA IMPLIED %label.attrib;
%status.attrib;
%common.attrib;
%book.role.attrib;
%local.book.attrib;
>]
<!--end of book.attlist--]]>

<!ENTITY % bookinfo.module "INCLUDE">
<![CDATA[
<!ENTITY % local.bookinfo.attrib "">
<!ENTITY % bookinfo.role.attrib "%role.attrib;">

<!ENTITY % bookinfo.element "INCLUDE">
<![CDATA[
<!ELEMENT bookinfo (%ho; (%info.class;)+)
%beginpage.exclusion;>
<![--end of bookinfo.element--]]>

<!-- Contents: IDs of the ToC, LoTs, Prefaces, Parts, Chapters,
Appendixes, References, Glossary, Bibliography, and indexes

"Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma  41507"
<!-- Note that Part was to have its content model reduced in V4.5. This change will not be made after all. -->

<!ENTITY % local.part.attrib "">
<!ENTITY % part.role.attrib "%role.attrib;">  

<!ENTITY % part.element "INCLUDE">  
<![part.element;]  
<!--doc:A division in a book.-->
<!ELEMENT part %ho; (beginpage?, partinfo?, (%bookcomponent.title.content;), partintro?, (partcontent.mix;)+)  
%ubiq.inclusion;>
<!--end of part.element-->]]>

<!ENTITY % part.attlist "INCLUDE">  
<![part.attlist;]  
<!ATTLIST part  
%label.attrib;  
%status.attrib;  
%common.attrib;  
%part.role.attrib;  
%local.part.attrib;  
>  
<!--end of part.attlist-->]]>
<!ELEMENT PartIntro (defined below)-->
<!--end of part.module-->]]>

<!ENTITY % preface.module "INCLUDE">  
<![preface.module;]  
<!ENTITY % local.preface.attrib "">
<!ENTITY % preface.role.attrib "%role.attrib;">  

<!ENTITY % preface.element "INCLUDE">  
<![preface.element;]  
<!--doc:Introductory matter preceding the first chapter of a book.-->
<!ELEMENT preface %ho; (beginpage?, prefaceinfo?, (%bookcomponent.title.content;), (%nav.class;)*, toccchap?, (%bookcomponent.content;), (%nav.class;)*)  
%ubiq.inclusion;>
<!--end of preface.element-->]]>

<!ENTITY % preface.attlist "INCLUDE">  
<![preface.attlist;]  

<!-- Renderas: Indicates the format in which the heading should appear -->

<!ENTITY % sect3.attlist "INCLUDE">
<![sect3.attlist;[sect1

<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "%role.attrib;">
%status.attrib;
%common.attrib;
%article.role.attrib;
%local.article.attrib;
>
<!-- end of article.attlist-->
<!-- end of article.module-->

<!-- End of DocBook document hierarchy module V4.5 ......................... -->
<!-- .......................................................... -->

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-4.5.c31424/docbook-4.5/dbhierx.mod
No license file was found, but licenses were detected in source scan.

<!-- .......................................................... -->
<!-- DocBook XML notations module V4.1.2 ..................................... -->
<!-- File dbnotnx.mod ...................................................... -->

    O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
    Corporation, Norman Walsh, and the Organization for the Advancement
    of Structured Information Standards (OASIS).

$Id: dbnotnx.mod,v 1.10 2000/08/27 15:12:42 nwalsh Exp $

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changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.

<!-- .......................................................... -->

<!-- This module contains the entity declarations for the standard ISO

---
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```
<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook XML Notations V4.1.2//EN"
"dbnotnx.mod">
%dbnotn;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```%local.notation.class;">
<!NOTATION BMP		PUBLIC
"/+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFFSYSTEM "DITROFF">
<!NOTATION DVISYSTEM "DVI">
<!NOTATION EPSPUBLIC
<!NOTATION EQNSYSTEM "EQN">
<!NOTATION FAXPUBLIC
"-/USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untitled Raster//EN">
<!NOTATION GIFSYSTEM "GIF">
<!NOTATION GIF87PUBLIC
"-/CompuServe//NOTATION Graphics Interchange Format 87a//EN">
<!NOTATION GIF89PUBLIC
"-/CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPGSYSTEM "JPG">
<!NOTATION JPEGSYSTEM "JPEG">
<!NOTATION IGESPUBLIC
<!NOTATION PCXPUBLIC
```

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035091363_1589232895.51/0/docbook-xml-4-5-orig-1-tar-gz/docbook-xml-4.5.c31424/docbook-4.1.2/dbnotnx.mod

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1.4025 xorg-x11-fonts 7.5-19.el8

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Juliusz Chroboczek
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This package was originally put together by Austin Donnelly <and1000@debian.org>, but is heavily based on bsdutils, originally put together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any problems or suggested additions or changes to Austin Donnelly.

Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for almost two years, before Tollef Fog Heen <tfheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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1.4027 aether-spi 1.7

1.4028 xerces-c 3.2.2+debian-1+deb10u1

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1.4029 p11-kit 0.23.3-2

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1.4030 jakarta-ws-rs-api 2.1.6
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1.4032 reflectasm 1.11.3

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 *
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1.4034 wso2-carbon-mediation-initializer-ui

4.6.105

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 */
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its [{@link ChannelPipeline}].
* </p>
* </h3>
* <p>
* [{@link ChannelHandler}] itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* </p>
* </h3>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* </p>
* </h3>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
* </p>
* </h3>
* <p>
* A [{@link ChannelHandler}] is provided with a [{@link ChannelHandlerContext}]
* object. A [{@link ChannelHandler}] is supposed to interact with the
* [{@link ChannelPipeline}] it belongs to via a context object. Using the
* context object, the [{@link ChannelHandler}] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using [{@link AttributeKey}]s) which is specific to the handler.
* </p>
* </h3>
* <p>
* A [{@link ChannelHandler}] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* </pre>
* </h3>
* <p>
* public interface Message { 

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* under the License.
* */
*/
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its [{@link ChannelPipeline}].
* </p>
* </h3>
* <p>
* [{@link ChannelHandler}] itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* </p>
* </h3>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* </p>
* </h3>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
* </p>
* </h3>
* <p>
* A [{@link ChannelHandler}] is provided with a [{@link ChannelHandlerContext}]
* object. A [{@link ChannelHandler}] is supposed to interact with the
* [{@link ChannelPipeline}] it belongs to via a context object. Using the
* context object, the [{@link ChannelHandler}] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using [{@link AttributeKey}]s) which is specific to the handler.
* </p>
* </h3>
* <p>
* A [{@link ChannelHandler}] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* </pre>
* </h3>
```java
* // your methods here
*
*
* public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
*     
*     private boolean loggedIn;
* }
*     
*     { @code @Override }
*     public void channelRead0(@link ChannelHandlerContext) ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ... 
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See ChannelInitializer#initChannel(Channel).
* public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
*     { @code @Override }
*     public void initChannel(@link Channel) channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* </pre>
*
* <h4>Using AttributeKeys</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use AttributeKeys which is provided by
* ChannelHandlerContext:
* <pre>
* public interface Message {
*     // your methods here
* }
```
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
    ...
}

Now that the state of the handler is attached to the ChannelHandlerContext, you can add the same handler instance to different pipelines:

public class DataServerInitializer extends ChannelInitializer<Channel> {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}

The @Sharable annotation

In the example above which used an AttributeKey, you might have noticed the @Sharable annotation.

If a ChannelHandler is annotated with the @Sharable annotation, it means you can create an instance of the handler just once and add it to one or more ChannelPipeline's multiple times without a race condition.
* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

* This annotation is provided for documentation purpose, just like the JCIP annotations.<a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">.

* Additional resources worth reading

* Please refer to the [@link ChannelHandler], and [@link ChannelPipeline] to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

*/

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* /opt/cola/permits/1257282430_1642795755.14/0/netty-transport-4-1-45-final-sources-
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  jar/io/netty/channel/ChannelInboundHandler.java
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  jar/io/netty/channel/ChannelInboundHandlerAdapter.java
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  jar/io/netty/channel/embedded/EmbeddedEventLoop.java
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* /opt/cola/permits/1257282430_1642795755.14/0/netty-transport-4-1-45-final-sources-jar/io.netty/channel/socket/InternetProtocolFamily.java
* /opt/cola/permits/1257282430_1642795755.14/0/netty-transport-4-1-45-final-sources-jar/io.netty/channel/AbstractServerChannel.java
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jar/io/netty/channel/oio/OioEventLoopGroup.java
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  jar/io/netty/channel/PendingWriteQueue.java
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* /opt/cola/permits/1257282430_1642795755.14/0/netty-transport-4-1-45-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
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* /opt/cola/permits/1257282430_1642795755.14/0/netty-transport-4-1-45-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1257282430_1642795755.14/0/netty-transport-4-1-45-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1257282430_1642795755.14/0/netty-transport-4-1-45-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java

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*/

Found in path(s):
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AlternativeLongOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParserState.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnconfiguredOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AbstractOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnrecognizedOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionArgumentConversionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/DateConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/RegexMatcher.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/MethodInvokingValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Reflection.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParser.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/Classes.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/UnavailableOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionDescriptor.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConversionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParser.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Reflection.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnavailableOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnrecognizedOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionalArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
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Found in path(s):
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/EnumConverter.java

1.4051 ignore 4.0.6

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1.4052 openresolv 3.10.0-r0

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1.4053 swagger-parser-v3 2.0.14

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public License getLicense(ObjectNode node, String location, ParseResult result) {

Found in path(s):
* /opt/cola/permits/1274596249_1645218328.27/0/swagger-parser-v3-2-0-14-sources-jar/io/swagger/v3/parser/util/OpenAPIDeserializer.java
1.4054 babel-helper-compilation-targets

7.18.2

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1.4055 safe-buffer 5.2.1

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1.4057 gnostic 0.1.0

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1.4058 go-openapi-spec 0.19.3

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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a/licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
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1.4071 npm-conf 1.1.3

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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 */

Found in path(s):
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-jar/com/networknt/schema/AnyOfValidator.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-jar/com/networknt/schema/MinLengthValidator.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-jar/com/networknt/schema/DependenciesValidator.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-jar/com/networknt/schema/BaseJsonValidator.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-jar/com/networknt/schema/PatternPropertiesValidator.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-jar/com/networknt/schema/MinLengthValidator.java

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jar/com/networknt/schema/MinPropertiesValidator.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/PatternValidator.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/UnionTypeValidator.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/ExclusiveMaximumValidator.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/JsonMetaSchema.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/OneOfValidator.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/ItemsValidator.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/uri/URISchemeFetcher.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/ValidatorTypeCode.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/ContainsValidator.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/RefValidator.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/MultipleOfValidator.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/uri/ClasspathURLFetcher.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/uri/URIFetcher.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
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* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
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* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/PropertiesValidator.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
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* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/AbstractKeyword.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/RequiredValidator.java
* /opt/cola/permissions/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
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jar/com/networknt/schema/MaxItemsValidator.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
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* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
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* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
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* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/ThresholdMixin.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/uri/URIFactory.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/FormatValidator.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/ErrorMessageType.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/uri/URLFactory.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/Keyword.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/AbstractJsonValidator.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/TypeFactory.java
* /opt/cola/permits/1274596213_1645218597.51/0/json-schema-validator-1-0-31-sources-
jar/com/networknt/schema/DateTimeValidator.java

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jar/com/networknt/schema/format/EmailValidator.java
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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

- Unix SMB/CIFS implementation.
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-
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Theodore Ts'o
23-June-2007
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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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DAMAGE.
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \\
`echo $(my_dir) | sed -e 's;lib/;;'" $(BSD_LIB) $(BSD_LIB))
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$($(INSTALL_PROGRAM) $(BSD_LIB) \\
$(DESTDIR)$BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01

// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])

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A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API
### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
=======================================================================
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.
SPDX license identifiers are valid license strings:

```javascript
var valid = require('validate-npm-package-license');
```

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>".
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```

SPDX expressions are valid, too ...
... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ],
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);```
If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

### 1.4099 lru-cache 5.1.1

**1.4099.1 Available under license:**

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### 1.4100 github.com/danielqsj/kafka_exporter

**v1.4.2**

**1.4100.1 Available under license:**

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1.4103 tar 1.29b-1.1

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This package is maintained for Debian by Bdale Garbee <bdale@gag.com>, and was built from the sources found at:


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* /opt/cola/permits/1139554105_1614660446.82/0/powermock-api-mockito2-2-0-2-sources-1-jar/org/powermock/api/mockito/internal/invocation/MockitoNewInvocationControl.java

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* /opt/cola/permits/1139554105_1614660446.82/0/powermock-api-mockito2-2-0-2-sources-1.jar/org/powermock/api/mockito/expectation/DefaultConstructorExpectationSetup.java

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* /opt/cola/permits/1139554105_1614660446.82/0/powermock-api-mockito2-2-0-2-sources-1.jar/org/powermock/api/mockito/invocation/MockitoMethodInvocationControl.java

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Received: from localhost (localhost [127.0.0.1])
by localhost (Postfix) with ESMTP id B8C814E4F
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
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X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
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Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-ID: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.060301201125.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: JIF3ZO9DeSEkJ2TcbHQhaXN11GRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:
X-UID: 44736
you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
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1.4109 go-humanize 1.0.0
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may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
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1.4118 kubernetes-client v5.12.0

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name: License

env:
MAVEN_ARGS: -B -C -V -ntp -Dhttp.keepAlive=false -e

on:
push:
  branches:
    - master
pull_request:

concurrency:
# Only run once for latest commit per ref and cancel other (previous) runs.
group: ci-license-kubernetes-client-{{ github.ref }}
cancel-in-progress: true

jobs:
license-check:
  name: License Check
  runs-on: ubuntu-latest
  steps:
    - name: Checkout
      uses: actions/checkout@v2.4.0
    - name: Setup Java 8
      uses: actions/setup-java@v2
      with:
        java-version: '8'
        distribution: 'temurin'
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/ServletContextCleaner.java

1.4125 go.universe.tf/metallb 0.12.1

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# Jackson JSON processor

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ispell-local-pdict: "ispell-dict"
End:

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1.4163 prepend-http 2.0.0

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  jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1151704951_1617968293.12/0/netty-handler-4-0-39-final-sources-2-
  jar/io/netty/handler/logging/LoggingHandler.java
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  jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/cola/permits/1151704951_1617968293.12/0/netty-handler-4-0-39-final-sources-2-
  jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1151704951_1617968293.12/0/netty-handler-4-0-39-final-sources-2-
  jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1151704951_1617968293.12/0/netty-handler-4-0-39-final-sources-2-
  jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1151704951_1617968293.12/0/netty-handler-4-0-39-final-sources-2-
  jar/io/netty/handler/timeout/IdleStateEvent.java
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  jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1151704951_1617968293.12/0/netty-handler-4-0-39-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslExtendedKeyMaterialManager.java
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  jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1151704951_1617968293.12/0/netty-handler-4-0-39-final-sources-2-
  jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1151704951_1617968293.12/0/netty-handler-4-0-39-final-sources-2-
  jar/io/netty/handler/flush/package-info.java
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Julian Seward, Cambridge, UK.
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The following artifacts are EPL.  
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.  
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api  
* javax.annotation:javax.annotation-api  
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html
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**OW2**

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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**Apache**

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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**MortBay**

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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**Mortbay**

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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1.4181 pcre 8.39 12
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* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-jar/org/springframework/beans/factory/support/BeanDefinition.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java

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  jar/org/springframework/beans/factory/access/BeanFactoryLocator.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
  jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
  jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
  jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
  jar/org/springframework/beans/PropertyEditorRegistrar.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
  jar/org/springframework/beans/propertyeditors/UUIDEditor.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
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* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
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* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
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jar/org/springframework/beans/factory/BeanIsAbstractException.java
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jar/org/springframework/beans/factory/BeanIsNotAFactoryException.java
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* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2- jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2- jar/org/springframework/beans/factory/xml/SimpleConstructorNamespaceHandler.java
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jar/org/springframework/beans/PropertyValuesEditor.java
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* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java
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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian’s start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

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1.4205 go-restful v3.7.0

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1.4206 babel-helper-compilation-targets

7.18.6

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1.4207 libffi 3.1 22.el8

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1.4208 object.values 1.1.5

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1.4209 @babel/helper-environment-visitor
7.18.6
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1.4210 isurl 1.0.0
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1.4211 wso2-carbon-messageflows-stub
4.6.49

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lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
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    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.4219 paranamer 2.7

1.4220 wso2-carbon-security-mgt-stub

5.12.153

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1.4223 free-type 2.8 14.el7

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1.4224 liggitt-tabwriter 0.0.0-20181228230101-89fcab3d43de

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1.4228 jackson 2.9.5

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1.4231 npm-cache-filename 1.0.2

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1.4233 is-boolean-object 1.1.2

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1.4234 wso2-carbon-identity-claim-metadata-mgt-ui 5.12.153

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1.4235 pyjwt 1.7.0

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import (  
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {  
    LicenseProps  
    VendorExtensible
}

type LicenseProps struct {  
    Name string `json:"name.omitempty"`  
    URL   string `json:"url.omitempty"`
}
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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package api

import (
    "io/ioutil"
    "strings"
    "time"
)
type License struct {
// The unique identifier of the license
LicenseID string `json:"license_id"`

// The customer ID associated with the license
CustomerID string `json:"customer_id"`

// If set, an identifier that should be used to lock the license to a
// particular site, cluster, etc.
InstallationID string `json:"installation_id"`

// The time at which the license was issued
IssueTime time.Time `json:"issue_time"`

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"`

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"`

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"`

// The product the license is valid for
Product string `json:"product"`

// License Specific Flags
Flags map[string]interface{} `json:"flags"`

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"`

// List of features enabled by the license
Features []string `json:"features"`
}

type LicenseReply struct {
Valid    bool
License  *License
Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
var reply LicenseReply
if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
    return nil, err
} else {

func op *Operator LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
return nil, err
}
defer resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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 */

package minio

import {
  "bytes"
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
// objectLegalHold struct {
// XMLNS string `xml:"xmlns,attr,omitempty"`
// XMLName xml.Name `xml:"LegalHold"
// Status LegalHoldStatus `xml:"Status,omitempty"
// }

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}
func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \%v", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }

    reqMetadata := requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
    }
// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName: bucketName,
        objectName: objectName,
        queryValues: urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}

lh := &objectLegalHold{}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil

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1.4243 get-caller-file 1.0.2

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* /opt/cola/permits/1151707024_1617966225.84/0/woodstox-core-asl-4-0-11-sources-5-jar/com/ctc/wstx/sax/SAXProperty.java

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Add licences to a directory files
-------------------------------

From this directory execute the command

````
```
add-licenses dir [exclude.txt]
```
1.4250 icu 60.3 2.el8_1
1.4250.1 Available under license :

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao
## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$SHELL -ec '$(GEN_DEPS.c) $< \n | sed \"s/(.*).o[ :]*/\1.o $@ : /g\" > $@; \n [ -s @$ ] \| rm -f $@'"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$SHELL -ec '$(GEN_DEPS.cc) $< \n | sed \"s/(.*).o[ :]*/\1.o $@ : /g\" > $@; \n [ -s @$ ] \| rm -f $@'"

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$RM $@ & & ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$RM $@ & & ln -s {*F},${(SO).$(SO_TARGET_VERSION)} $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymb

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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**1.4251 perl-text-tabs-wrap 2013.0523 395.el8**

**1.4251.1 Available under license:**
No license file was found, but licenses were detected in source scan.

```---
abstract: 'Expand tabs and do simple line wrapping'
author:
- 'David Muir Sharnoff <muir@idiom.org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-Tabs+Wrap
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  repository: http://github.com/muir/Text-Tabs-Wrap
version: 2013.0523

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1019676549_1591379882.87/0/perl-Text-Tabs+Wrap-2013.0523-395.el8.src.rpm-
cosi-expand-archive-WoUTJPer/Text-Tabs+Wrap-2013.0523.tar.gz-cosi-expand-archive-ZHll6Ysd/Text-
Tabs+Wrap-2013.0523/META.yml
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cosi-expand-archive-WoUTJPer/perl-Text-Tabs+Wrap.spec
```

**1.4252 wso2-carbon-privacy-forgetme-analytics-streams 1.1.21**
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.4260 prometheus-common 0.30.0

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1.4264 sorted-union-stream 2.1.3

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1.4265 wso2-carbon-andes-event-admin

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```cctest
DeluxePage.cobra

This is a continuation of the framework found in WebPages.cobra.
cobra -r=System.Web WebPages.cobra DeluxePage.cobra > deluxe.html
```

```cctest
class DeluxePage
inherits Page
```

DeluxePage adds these capabilities:

* A more sophisticated page structure with header, left sidebar, right
  sidebar, content well and footer. This more closely reflects the structure
  of typical web pages. All parts are optional.

* Word-wrapped output with a left and right margin and indent/dedent
  capability.

```cctest
test
dp = DeluxePage()
sw = StringWriter()
dp.writeHtml(sw)
```

```cctest
var _writer as DeluxeWriter?
```

```cctest
get rightHtmlSourceMargin as int
```

The HTML source code that is output is actually wrapped at a
right hand margin. This often makes it easier to read the
source.

```cctest
return 100
```

```cctest
def indent
```
```java
_def indent(s as String)

    While the name `writeLineAndIndent` is explicit, it's also annoyingly
    long. This shorter named method does the same thing.

    `writeLineAndIndent(s)`

def dedent

    While the name `dedentAndWriteLine` is explicit, it's also annoyingly
    long. This shorter named method does the same thing.

    `dedentAndWriteLine(s)`

def writeLineAndIndent(s as String)
    `writeLine(s)`
    `indent`

def dedentAndWriteLine(s as String)
    `dedent`
    `writeLine(s)`

def begin(name as String, tag as Object)
    `writeLine('<!-!- >> begin [name] -->')`
    `indent`
    `writeLine(['HtmlUtils.toHtml(tag)] \n')`
    `indent`

def end(name as String, tag as Object)
    `dedent`
    `didWrite = false`
    `if tag inherits String`
    `if not tag.startsWith('<')`
    `writeLine('</[tag]>')`
    `didWrite = true`
    `if not didWrite`
    `writeLine(['HtmlUtils.toHtml(tag)]')`
    `dedent`
    `writeLine('<!-!- << end [name] -->\n')`

    def writeHtml(tw as TextWriter)
    __writer = writer = DeluxeWriter(tw, .rightHtmlSourceMargin)
    try
```
base.writeHtml(writer)  # TODO: axe writer local and use ".writer to !" when it's available
finally
    _writer = nil

var _wholePageTableTag = Tag('table', 'class=wholePage border=0 cellpadding=0 cellspacing=0')
var _leftBarTdTag = Tag('td', 'class', 'leftBar', 'valign', 'top', 'width', 0)

get numCols as int
return 1 + if(.hasLeftBar,1,0) + if(.hasRightBar,1,0)

def writeBodyParts is override
    numCols = .numCols
    .indent
    .begin('whole page', _wholePageTableTag)
    if .hasPageHeader
        .writePageHeader
        .begin('page row', '<tr class=pageRow>')
        if .hasLeftBar
            .begin('left bar', _leftBarTdTag)
            .writeLine('<div class=leftBar>')
            .writeLeftBar
            .writeLine('</div>')
            .end('left bar', 'td')
        .begin('page content', '<td class=pageContent valign=top width=0> <div class=pageContent>')
        .writeContent
        .end('page content', '</div></td>')
        if .hasRightBar
            .begin('right bar', '<td class=rightBar valign=top width=0>')
        .writeRightBar
        .end('right bar', 'td')
    if .hasPageFooter
        .begin('page footer', '<tr class=pageFooter>')
        .indent('<td class=pageFooter colSpan=[numCols]>
        .writePageFooter
        .dedent("</td>\n")
        .end('page footer', 'tr')
        .end('page row', 'tr')
        .end('whole page', 'table')
        .dedent

def writePageHeader
    .begin('page header', '<tr class=pageHeader>')
    .indent('<td class=pageHeader colSpan=[.numCols]>
    .writePageHeader
    .dedent("</td>\n")
    .end('page header', 'tr')

    def innerWritePageHeader
.writeLine(htTitle)

def writeLeftBar
    pass

def writeRightBar
    pass

def writePageFooter
    .writeLine('Copyright &copy; [DateTime.now.year]. All Rights Reserved.\n')

get hasPageHeader as bool
return true

get hasLeftBar as bool
return true

get hasRightBar as bool
return true

get hasPageFooter as bool
return true

class MyPage
    inherits DeluxePage

    get styleSheetUrl as String is override
        return 'styles.css'

    def writeLeftBar is override
        .writeLine('<a href=nav1.html>Nav 1</a>

    def writeContent is override
        .writeLine('Added unit testing as a language level feature. You can now write test sections for methods, properties
        and classes. Because these unit tests can be specified next to what they actually test, they are more likely to be kept
        up to date. Also, because they are a natural part of the source code, they benefit from development environment
        features such as syntax highlighting and autocompletion. Finally, more programmers may be encouraged to write
        unit tests when it is this easy.\n\n    class DeluxeWriter
        inherits TextWriter
        ===
        Provides:
        * indented writing (useful for structured HTML pages)
* right margin (useful for yielding easy-to-read HTML)

Used internally by DeluxePage although you are free to use DeluxeWriter if you have a need for it.

```python

test
iw = DeluxeWriter(StringWriter())
assert iw.toString==", iw.toString
nl = iw.newLine
tab = ’ ’
iw.writeLine('one')
assert iw.toString==’one[nl]’, iw.toString
iw.indent
iw.writeLine('two')
assert iw.toString==’one[nl][tab]two[nl]’
iw.dedent
iw.writeLine('three')
assert iw.toString==’one[nl][tab]two[nl]three[nl]’

var _innerWriter as TextWriter
var _lastChar = ” # use a string because _innerWriter.NewLine is a string
var _indentString = ’ ’
var _indentLevel = 0
var _totalIndentString = ”
var _isWritingIndent = false
var _column = 1
var _rightMargin = 80

def init(tw as TextWriter)
  _innerWriter = tw
  
def init(tw as TextWriter, rightMargin as int)
  .init(tw)
  # TODO: require
  assert rightMargin>10
  _rightMargin = rightMargin
  
def indent
  _indentLevel += 1
  _setTotalIndentString()
  
def dedent
  _indentLevel -= 1
  _setTotalIndentString()
  
  pro indentString from var
```
Returns the string used for one level of indentation.
Default value is "\t".

get newLine2 as String
return '\n' # because NewLine is "$\n" but we don't require the \r

# *** Being a TextWriter ***

def write(value as char) is override
    if _isWritingIndent
        _innerWriter.write(value)
        _column += 1
        return
    if _lastChar==_innerWriter.newLine or _lastChar==.newLine2
        _column = 1
        _isWritingIndent = true
    try
        .write(_totalIndentString)
        _column += _totalIndentString.length
    finally
        _isWritingIndent = false
        _innerWriter.write(value)
        _column += 1
        _lastChar = value.toString
        if _column>_rightMargin and _lastChar==''
            # TODO: need a better word wrapping algorithm that doesn't allow words to poke out of the right hand margin
            # but this is good enough for now
            .write(_innerWriter.newLine)

def write(value as String) is override
    if _isWritingIndent
        _innerWriter.write(value)
    else
        base.write(value)

get encoding as Encoding? is override
return _innerWriter.encoding

def toString as String is override
return _innerWriter.toString

# *** Private Util ***

def _setTotalIndentString is protected
sb = StringBuilder()
for i = 0 .. _indentLevel
    sb.append(_indentString)
_totalIndentString = sb.toString

#class Program
#
#def main is shared
#p = MyPage()
#p.writeHtml(Console.out)

Found in path(s):
* /opt/cola/permits/1275718997_1646325227.61/0/cobra-0-7-0-tar-gz/Cobra-0.7.0/Reusables/DeluxePage.cobra
No license file was found, but licenses were detected in source scan.

The Cobra Programming Language
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Version........ 0.7
Release Date... 2007-01-26
Platform....... .NET 2.0 / Mono 1.2.6
Status......... beta
Home Page...... http://Cobra-Language.com/

The term "Cobra" is used herein to refer to "The Cobra Programming Language"

Cobra is a high-performance, rapid-development programming language.
It combines features from Python, C#, Objective-C, Eiffel and other languages
in order to boost developer productivity.

See also: http://Cobra-Language.com/docs/why/

Requirements
---------------------------------------------------------------
Windows, Mac or Linux.

Microsoft .NET 2.0 - Cobra can be used with or without the SDK installed.
-or-
Novell Mono 1.2.6

.NET: http://www.microsoft.com/downloads/
Mono: http://www.mono-project.com/
Installation

You can put Cobra wherever you like in your file system, however, if you are on a UNIX/POSIX-type system such as Linux, BSD or Mac, then you'll probably want to run the 'install' script. There is a comment block inside it with further instructions.

Running Cobra

On Windows:

To run:
   > path\to\cobra MyProgram.cobra
The source code extension is not required:
   > path\to\cobra MyProgram
To run again:
   > MyProgram.exe
To just compile:
   > path\to\cobra -c MyProgram
If cobra is in your path:
   > cobra MyProgram
To learn about all the options:
   > cobra -help

On Unix-like systems:

To run:
   $ cobra MyProgram.cobra
The source code extension is not required:
   $ cobra MyProgram
To run again:
   > mono MyProgram.exe
To just compile:
   > cobra -c MyProgram
To learn about all the options:
   > cobra -help

Learning

See http://Cobra-Language.com/docs/

Those docs are not currently included in this package, so you have to read them online.

And check out the HowTo and Samples subdirectories. You'll find these online,
and also in this package.

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Note: The source code is not actually provided yet as it needs to be cleaned up for various reasons (including that some of it is written in an older style of Cobra). The source code will be provided in February 2008.

Found in path(s):
* /opt/cola/permits/1275718997_1646325227.61/0/cobra-0.7.0-tar-gz/Cobra-0.7.0/ReadMe.text

1.4270 libpng 1.6.28 1+deb9u1
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---------------------------------------------------------------------------

pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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Protocol Buffers for Go with Gadgets

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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1.4275 go-openapi-spec 0.0.0-20160808142527-6aced65f8501

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package spec

import (  
"encoding/json"  
"testing"  
"
github.com/stretchr/testify/assert"
)

var license = License{  
LicenseProps: LicenseProps{Name: "the name", URL: "the url"},  
VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}
}

const licenseJSON = `  
"name": "the name",  
"url": "the url",  
"x-license": "custom term"  
`

func TestIntegrationLicense(t *testing.T) {

// const licenseYAML = "name: the name\nurl: the url\n"

b, err := json.MarshalIndent(license, "", "\t")
if assert.NoError(t, err) {
    assert.Equal(t, licenseJSON, string(b))
}
actual := License{ }
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
assert.EqualValues(t, license, actual)
}
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package spec

import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
    return err
}
return json.Unmarshal(data, &l.VendorExtensible)
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1.4278 go-openapi-swag 0.19.5

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@end example

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de) and Brian C. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@roucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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Version 2.1, February 1999

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemctl                          usr/bin/systemctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-inhibit                      usr/bin/systemd-inhibit
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-notify                      usr/bin/systemd-notify
usr/lib/udev/rules.d/50-udev-default.rules
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usr/lib/systemd/system/machine.slice
infra/systemd/systemd-journald.service.d/visible.conf
usr/lib/systemd/system/systemd-journald.service.d/visible.conf
infra/systemd/sysctl/inotify-user-instances.conf
etc/sysctl.d/inotify-user-instances.conf

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(include systemd-common)

infra/systemd/switchroot/sysinit.target
usr/lib/systemd/system/sysinit.target
infra/systemd/switchroot/systemd-journald.service
usr/lib/systemd/system/systemd-journald.service
infra/systemd/switchroot/systemd-timedated.service
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usr/lib/systemd/system/systemd-udevd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald-audit.socket
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#files related to nfs-statd.service
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/sbin/rpc.statd  usr/sbin/rpc.statd
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/sbin/sm-notify  usr/sbin/sm-notify
infra/systemd/nfs-statd.service  usr/lib/systemd/system/nfs-statd.service
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/sbin/nfsstat  usr/sbin/nfsstat

#files related to nfs-idmapd.service
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/sbin/rpc.idmapd  usr/sbin/rpc.idmapd
infra/systemd/var-lib-nfs-rpc_pipefs.mount  usr/lib/systemd/system/var-lib-nfs-rpc_pipefs.mount
# The directory for plugin is fix to usr/lib/libnfsidmap
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/${LIB}/libnfsidmap/nsswitch.so  usr/lib/libnfsidmap/nsswitch.so
linkfarm/$(SYSROOT){ARCH}{SDK}/etc/idmapd.conf  etc/idmapd.conf
infra/systemd/nfs-idmapd.service  usr/lib/systemd/system/nfs-idmapd.service

contrib/initscripts/binos/etc/$(NFS_VER)/nfs-utils.conf  etc/nfs-utils.conf

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(include all-common)

(include systemd)

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all
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linkfarm/$(SYSROOT){ARCH}{SDK}/usr/bin/dmesg  /sbin/dmesg
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/bin/kill  /bin/kill
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/bin/mount  /bin/mount
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/bin/umount  /bin/umount
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/bin/aggety  /sbin/aggety
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/bin/blockdev  /sbin/blockdev
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/sbin/cfdisk  /sbin/cfdisk
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/sbin/cfdisk  /sbin/cfdisk
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/sbin/ctrlaltdel  /sbin/ctrlaltdel
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/sbin/fsck  /sbin/fsck
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/sbin/fsck  /sbin/fsck
linkfarm/$(SYSROOT){ARCH}{SDK}/usr/sbin/fc  /sbin/hwclock
Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/util-linux

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# This file contains all needed files related to nfs server daemon.

infra/systemd/nfs-mountd.service                       usr/lib/systemd/system/nfs-mountd.service
infra/systemd/nfs-server.service                       usr/lib/systemd/system/nfs-server.service
infra/systemd/proc-fs-nfsd.mount                       usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/exportfs     usr/sbin/exportfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountd    usr/sbin/rpc.mountd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsd      usr/sbin/rpc.nfsd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rpcinfo       usr/bin/rpcinfo

(include nfs-common)
# The following kernel modules are needed when NFSV4 support is configured
# in kernel.
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-$(PLATFORM_SYSROOT)/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
$(PLATFORM_SYSROOT)/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-utils
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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcalc        usr/bin/ipcalc

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* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/ipcalc
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(include audit)
(include bash)
(include binutils)
(include bridge-utils)
(include busybox)
(include bzip2)
(include coreutils)
(include cpio)
(include dbus)
(include diffutils)
(include dosfstools)
(include e2fsprogs)
(include ethtool)
(include file)
(include filesystem)
(include findutils)
(include gawk)
(include glibc)
(include grep)
(include gzip)
(include initscripts)
(include ipcalc)
(include iproute2)
(include iptables)
(include iputils)
(include kexec-tools)
(include kmod)
(include less)
(include libcap)
(include ls/of)
(include modules)
(include ncurses)
(include netbase)
(include netcat)
(include netkit-telnet)
(include net-tools)
(include ${NFS_VER}/nfs-utils-client)
(include pciutils)
(include procps)
(include psmisc)
(include rpcbind)
(include sed)
(include shadow)
(include strace)
(include sysklogd)
(include systemd)
(include sysvinit)
(include tar)
(include tcpdump)
(include tftp-hpa)
(include traceroute)
(include util-linux)

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(include systemd-common)

:/opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all-common

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# This file contains all needed files related to nfs server daemon.

(include nfs-common)

# The following optional kernel modules are put here to allow forwarding
# compatible when NFSV4 support is configured in kernel.
# When nfsv4 is enabled in kernel, it brings in extra dependency for
# nfsv3 verver.
# so treat extra modules needed by nfsd.ko as optional since it depend on kernel
# configure.
#
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-`${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
-`${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv3/nfs-utils
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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.statd              usr/sbin/rpc.statd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sm-notify              usr/sbin/sm-notify
infra/systemd/nfs-statd.service                       usr/lib/systemd/system/nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/nfsstat                usr/sbin/nfsstat
contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf  etc/nfs-utils.conf

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv3/nfs-common
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(include all-common)

(include systemd-swrt)

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# This file is to store extra files needed to support NFSV4 client.
# linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs   usr/sbin/mount.nfs
Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-utils-client
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* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/audit
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.4289 rcrowley-go-metrics 0.0.0-
20201227073835-cf1acfcdf475
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1.4292 parse-headers 2.0.5
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs
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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user’s freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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<signature of Ty Coon>, 1 April 1989
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1.4301 bzip2 1.0.8

1.4302 my-scope-package-b 0.0.0

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.4312 write-file-atomic 2.4.1

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1.4313 rpm 4.14.3-14.el8_4

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Version 1.1

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is
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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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    Gnomovision version 69, Copyright (C) 19yy name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

    The hypothetical commands `show w' and `show c' should show the appropriate
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    be called something other than `show w' and `show c'; they could even be
    mouse-clicks or menu items--whatever suits your program.

    You should also get your employer (if you work as a programmer) or your
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    necessary.  Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

    This General Public License does not permit incorporating your program into
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The End

1.4329 spring-framework 4.3.14.RELEASE

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.4339 xorgproto 7.3.0-1

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* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/zip/Keep.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/zip/JSONzip.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/zip/PostMortem.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/zip/TrieKeep.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/zip/BitOutputStream.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/zip/Huff.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/zip/MapKeep.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/zip/BitInputStream.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/zip/Compressor.java

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* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/CDL.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/HTTPTokener.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/XML.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/XMLTokener.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/Cookie.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/HTTP.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/Property.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/CookieList.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/JSONTokener.java

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* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-jar/org/json/zip/Decompressor.java
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* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-
  jar/org/json/JSONObject.java
* /opt/ws_local/PERMITS_SQL/1007103057_1600266384.52/0/json-20140107-sources-
  jar/org/json/JSONArray.java

1.4344 e2fsprogs 2.1-1.44.5-1+deb10u3

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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--- tdbusa/tdb.c
+++ tdbusa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
/*
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
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Theodore Ts'o
23-June-2007

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@@$(INSTALL_PROGRAM) $(BSD_LIB) \\
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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    <signature of Ty Coon>, 1 April 1989
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1.4346 python-etcd 0.4.5

1.4346.1 Available under license :

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: python-etcd
Version: 0.4.5
Summary: A python client for etcd
Home-page: http://github.com/jplana/python-etcd
Author: Jose Plana
Author-email: jplana@gmail.com
License: MIT
Description: python-etcd documentation

A python client for Etcd https://github.com/coreos/etcd

Official documentation: http://python-etcd.readthedocs.org/

.. image:: https://travis-ci.org/jplana/python-etcd.png?branch=master
   :target: https://travis-ci.org/jplana/python-etcd
Installation
------------

Pre-requirements
~~~~~~~~~~~~~~~~

This version of python-etcd will only work correctly with the etcd server version 2.0.x or later. If you are running an older version of etcd, please use python-etcd 0.3.3 or earlier.

This client is known to work with python 2.7 and with python 3.3 or above. It is not tested or expected to work in more outdated versions of python.

Usage
-----

The basic methods of the client have changed compared to previous versions, to reflect the new API structure; however a compatibility layer has been maintained so that you don't necessarily need to rewrite all your existing code.

Create a client object
~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    import etcd

    client = etcd.Client() # this will create a client against etcd server running on localhost on port 4001
    client = etcd.Client(port=4002)
    client = etcd.Client(host='127.0.0.1', port=4003)
    client = etcd.Client(host=('127.0.0.1', 4001), ('127.0.0.1', 4002), ('127.0.0.1', 4003))
    client = etcd.Client(host='127.0.0.1', port=4003, allow_redirect=False) # wont let you run sensitive commands on non-leader machines, default is true

    # If you have defined a SRV record for _etcd._tcp.example.com pointing to the clients
    client = etcd.Client(srv_domain='example.com', protocol='https')

    # create a client against https://api.example.com:443/etcd
    client = etcd.Client(host='api.example.com', protocol='https', port=443, version_prefix='/etcd')

Write a key
.. code:: python

    client.write('/nodes/n1', 1)
    # with ttl
    client.write('/nodes/n2', 2, ttl=4)  # sets the ttl to 4 seconds
    client.set('/nodes/n2', 1)  # Equivalent, for compatibility reasons.

Read a key
~~~~~~~~~~

.. code:: python

    client.read('/nodes/n2').value
    client.read('/nodes', recursive = True) #get all the values of a directory, recursively.
    client.get('/nodes/n2').value

    # raises etcd.EtcdKeyNotFound when key not found
    try:
        client.read('/invalid/path')
    except etcd.EtcdKeyNotFound:
        # do something
        print "error"

Delete a key
~~~~~~~~~~~

.. code:: python

    client.delete('/nodes/n1')

Atomic Compare and Swap
~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    client.write('/nodes/n2', 2, prevValue = 4) # will set /nodes/n2 's value to 2 only if its previous value was 4
and
    client.write('/nodes/n2', 2, prevExist = False) # will set /nodes/n2 's value to 2 only if the key did not exist
before
    client.write('/nodes/n2', 2, prevIndex = 30) # will set /nodes/n2 's value to 2 only if the key was last modified
at index 30
    client.test_and_set('/nodes/n2', 2, 4) #equivalent to client.write('/nodes/n2', 2, prevValue = 4)

You can also atomically update a result:
result = client.read('/foo')
print(result.value) # bar
result.value += u'bar'
updated = client.update(result) # if any other client wrote '/foo' in the meantime this will fail
print(updated.value) # barbar

Watch a key
~~~~~~~~~~~

.. code:: python

    client.read('/nodes/n1', wait = True) # will wait till the key is changed, and return once its changed
    client.read('/nodes/n1', wait = True, timeout=30) # will wait till the key is changed, and return once its changed, or exit with an exception after 30 seconds.
    client.read('/nodes/n1', wait = True, waitIndex = 10) # get all changes on this key starting from index 10
    client.watch('/nodes/n1') # equivalent to client.read('/nodes/n1', wait = True)
    client.watch('/nodes/n1', index = 10)

Refreshing key TTL
~~~~~~~~~~~~~~~~~~

(Since etcd 2.3.0) Keys in etcd can be refreshed without notifying current watchers.

This can be achieved by setting the refresh to true when updating a TTL.

You cannot update the value of a key when refreshing it.

.. code:: python

    client.write('/nodes/n1', 'value', ttl=30)  # sets the ttl to 30 seconds
    client.refresh('/nodes/n1', ttl=600)  # refresh ttl to 600 seconds, without notifying current watchers

Locking module
~~~~~~~~~~~~~~

.. code:: python

    # Initialize the lock object:
    # NOTE: this does not acquire a lock yet
    client = etcd.Client()
    # Or you can custom lock prefix, default is '/_locks/' if you are using HEAD
    client = etcd.Client(lock_prefix='/my_etcd_root/_locks')
    lock = etcd.Lock(client, 'my_lock_name')

    # Use the lock object:
    lock.acquire(blocking=True, # will block until the lock is acquired
lock_ttl=None) # lock will live until we release it
lock.is_acquired # True
lock.acquire(lock_ttl=60) # renew a lock
lock.release() # release an existing lock
lock.is_acquired # False

# The lock object may also be used as a context manager:
client = etcd.Client()
with etcd.Lock(client, 'customer1') as my_lock:
    do_stuff()
    my_lock.is_acquired # True
    my_lock.acquire(lock_ttl=60)
    my_lock.is_acquired # False

Get machines in the cluster
~~~~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    client.machines

Get leader of the cluster
~~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    client.leader

Generate a sequential key in a directory
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    x = client.write("/dir/name", "value", append=True)
    print("generated key: " + x.key)
    print("stored value: " + x.value)

List contents of a directory
~~~~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    #stick a couple values in the directory
    client.write("/dir/name", "value1", append=True)
    client.write("/dir/name", "value2", append=True)

directory = client.get("/dir/name")
# loop through directory children
for result in directory.children:
    print(result.key + "": " + result.value)

# or just get the first child value
print(directory.children.next().value)

Development setup
-------------------

To create a buildout,

.. code:: bash

    $ python bootstrap.py
    $ bin/buildout

to test you should have etcd available in your system path:

.. code:: bash

    $ bin/test

to generate documentation,

.. code:: bash

    $ cd docs
    $ make

Release HOWTO
--------------

To make a release

1) Update release date/version in NEWS.txt and setup.py
2) Run 'python setup.py sdist'
3) Test the generated source distribution in dist/
4) Upload to PyPI: 'python setup.py sdist register upload'

News
====
0.4.5
-----

*Release date: 3-Mar-2017*
* Remove dnspython2/3 requirement
* Change property name setter in lock
* Fixed acl tests
* Added version/cluster_version properties to client
* Fixes in lock when used as context manager
* Fixed improper usage of urllib3 exceptions
* Minor fixes for error classes
* In lock return modifiedIndex to watch changes
* In lock fix context manager exception handling
* Improvements to the documentation
* Remove _base_uri only after refresh from cluster
* Avoid double update of _machines_cache

0.4.4
-----
*Release date: 10-Jan-2017*

* Fix some tests
* Use sys.version_info tuple, instead of named tuple
* Improve & fix documentation
* Fix python3 specific problem when blocking on contented lock
* Add refresh key method
* Add custom lock prefix support

0.4.3
-----
*Release date: 14-Dec-2015*

* Fix check for parameters in case of connection error
* Python 3.5 compatibility and general python3 cleanups
* Added authentication and module for managing ACLs
* Added srv record-based DNS discovery
* Fixed (again) logging of cluster id changes
* Fixed leader lookup
* Properly retry request on exception
* Client: clean up open connections when deleting

0.4.2
-----
*Release date: 8-Oct-2015*

* Fixed lock documentation
* Fixed lock sequences due to etcd 2.2 change
* Better exception management during response processing
* Fixed logging of cluster ID changes
* Fixed subtree results
* Do not check cluster ID if etcd responses don't contain the ID
* Added a cause to EtcdConnectionFailed

0.4.1
-----
*Release date: 1-Aug-2015*

* Added client-side leader election
* Added stats endpoints
* Added logging
* Better exception handling
* Check for cluster ID on each request
* Added etcd.Client.members and fixed etcd.Client.leader
* Removed locking and election etcd support
* Allow the use of etcd proxies with reconnections
* Implement pop: Remove key from etc and return the corresponding value.
* Eternal watcher can be now recursive
* Fix etcd.Client machines
* Do not send parameters with `None` value to etcd
* Support ttl=0 in write.
* Moved pyOpenSSL into test requirements.
* Always set certificate information so redirects from http to https work.

0.3.3
-----
*Release date: 12-Apr-2015*

* Forward leaves_only value in get_subtree() recursive calls
* Fix README prevExists->prevExist
* Added configurable version_prefix
* Added support for recursive watch
* Better error handling support (more detailed exceptions)
* Fixed some unreliable tests

0.3.2
-----
*Release date: 4-Aug-2014*

* Fixed generated documentation version.

0.3.1
-----
*Release date: 4-Aug-2014*

* Added consistent read option  
* Fixed timeout parameter in read()  
* Added atomic delete parameter support  
* Fixed delete behaviour  
* Added update method that allows atomic updated on results  
* Fixed checks on write()  
* Added leaves generator to EtcdResult and get_subtree for recursive fetch  
* Added etcd_index to EtcdResult  
* Changed eternal -> eternal  
* Updated urllib3 & pyOpenSSL libraries  
* Several performance fixes  
* Better parsing of etcd_index and raft_index  
* Removed duplicated tests  
* Added several integration and unit tests  
* Use etcd v0.3.0 in travis  
* Execute test using `python setup.py test` and nose

0.3.0
-----

*Release date: 18-Jan-2014*

* API v2 support  
* Python 3.3 compatibility

0.2.1
-----

*Release data: 30-Nov-2013*

* SSL support  
* Added support for subdirectories in results.  
* Improve test  
* Added support for reconnections, allowing death node tolerance.

0.2.0
-----

*Release date: 30-Sep-2013*

* Allow fetching of multiple keys (sub-nodes)
0.1

--

*Release date: 18-Sep-2013*

* Initial release

Keywords: etcd raft distributed log api client
Platform: UNKNOWN
Classifier: Topic :: System :: Distributed Computing
Classifier: Topic :: Software Development :: Libraries
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Database :: Front-Ends

Found in path(s):
* /opt/cola/permits/1112217808_1607049972.97/0/python-etcd-0-4-5-1-tar-gz/python-etcd-0.4.5/src/python_etcd.egg-info/PKG-INFO
* /opt/cola/permits/1112217808_1607049972.97/0/python-etcd-0-4-5-1-tar-gz/python-etcd-0.4.5/PKG-INFO
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from setuptools import setup, find_packages
import sys, os

here = os.path.abspath(os.path.dirname(__file__))
README = open(os.path.join(here, 'README.rst')).read()
NEWS = open(os.path.join(here, 'NEWS.txt')).read()

version = '0.4.5'

install_requires = [
    'urllib3>=1.7.1',
    'dnspython>=1.13.0'
]

test_requires = [
    'mock',
    'nose',
    'pyOpenSSL>=0.14'
]

setup(
    name='python-etcd',
    version=version,
    description="A python client for etcd",
    long_description=README + 

```
classifiers=[
    "Topic :: System :: Distributed Computing",
    "Topic :: Software Development :: Libraries",
    "License :: OSI Approved :: MIT License",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 3",
    "Topic :: Database :: Front-Ends",
],
keywords='etcd raft distributed log api client',
author='Jose Plana',
author_email='jplana@gmail.com',
url='http://github.com/jplana/python-etcd',
license='MIT',
packages=find_packages('src'),
package_dir = {'': 'src'},
include_package_data=True,
zip_safe=False,
install_requires=install_requires,
tests_require=test_requires,
test_suite='nose.collector',
)

Found in path(s):
* /opt/cola/permits/1112217808_1607049972.97/0/python-etcd-0-4-5-1-tar-gz/python-etcd-0.4.5/setup.py

1.4347 read-pkg-up 2.0.0
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1.4357 fs.realpath 1.0.0

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1.4372 python3-jwt 1.7.0-2

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1.4373 wso2-carbon-message-processor

4.6.105

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#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

------------------------------------------------------------------------

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* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/misc/ObjectEqualityComparator.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/misc/EqualityComparator.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/BaseErrorListener.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/ConsoleErrorListener.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/atn/RuleStopState.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/misc/MurmurHash.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/dfa/DFAState.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/RuntimeRecognitionException.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/atn/RuleStopState.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/atn/LexerATNConfig.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/dfa/DFASerializer.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/ATNConfigSet.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/atn/ActionTransition.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/dfa/ParsingErrorListener.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/dfa/DFASerializer.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/ATNConfigSet.java
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* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/tree/AbstractParseTreeVisitor.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5.jar/org/antlr/v4/runtime/misc/NotNull.java
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* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4.5.1-sources-5.jar/org/antlr/v4/runtime/tree/pattern/ParseTreePatternMatcher.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4.5.1-sources-5.jar/org/antlr/v4/runtime/tree/pattern/TagChunk.java
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* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5-jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5-jar/org/antlr/v4/runtime/InterpreterRuleContext.java
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* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5-jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5-jar/org/antlr/v4/runtime/ParserInterpreter.java
* /opt/cola/permits/1151707544_1617966982.98/0/antlr4-runtime-4-5-1-sources-5-jar/org/antlr/v4/runtime/tree/pattern/Chunk.java
1.4376 github.com/coreos/flannel 0.13.0-rc2

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//
// For more information: http://goo.gl/8us55a#licenseObject
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    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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* /opt/cola/permits/1136508406_1613775524.89/0/spring-expression-4-1-6-release-sources-1-jar/org/springframework/expression/ParseException.java
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.4382 go-playground-validator v10.10.0

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1.4385 jackson-databind 2.10.5.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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### 1.4386 slf4j-log4j 1.7.28

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* /opt/cola/permits/1248992132_1640639056.61/0/slf4j-log4j12-1-7-28-sources-jar/org/slf4j/impl/Log4jLoggerFactory.java
* /opt/cola/permits/1248992132_1640639056.61/0/slf4j-log4j12-1-7-28-sources-jar/org/slf4j/impl/StaticMDCBinder.java
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1.4395 debianutils 4.11.2

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</thead>
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<td>MIT, generally</td>
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<tr>
<td>Gallium code</td>
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include/GL/gl.h:

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include/GL/wglxext.h:

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1.4400 alpine-baselayout 3.1.0-r3

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1.4408 wso2-carbon-mediation-templates

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1.4412 wso2-carbon-metrics-das-reporter

1.2.3

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1.4413 netty-codec 4.1.68.Final

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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/protobuf/Varint32LengthFieldPrepender.java
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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/HeaderUtils.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
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  jar/io/netty/handler/codec/string/LineEncoder.java
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  jar/io/netty/handler/codec/DatagramPacketEncoder.java
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  jar/io/netty/handler/codec/DatagramPacketDecoder.java
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  jar/io/netty/handler/codec/compression/ByteBufChecksum.java
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/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
* The encoding and decoding algorithm in this class has been derived from
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/**
* Enumeration of supported Base64 dialects.
* </p>
* The internal lookup tables in this class has been derived from
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* Base64 Encoder/Decoder</a>.
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/**
* A decoder that splits the received ByteBufs dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* [LengthFieldBasedFrameDecoder] has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* 2 bytes length field at offset 0, do not strip header
*<h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is 12 (0x0C) which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
* </pre>

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +----------------+----------------+      +----------------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +----------------+----------------+      +----------------+----------------+
* </pre>
*
* 2 bytes length field at offset 0, strip header
*<h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* [ByteBuf#readableBytes()], you might want to strip the length
* field by specifying initialBytesToStrip. In this example, we
* specified 2, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)

* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+

* </pre>

* 2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message

* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero lengthAdjustment. Because the length value in this example message is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> as lengthAdjustment for compensation.

* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |

* </pre>

* 3 bytes length field at the end of 5 bytes header, do not strip header

* The following message is a simple variation of the first example. An extra header value is prepended to the message. lengthAdjustment is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +--------+----------------+      +--------+----------------+
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```
lengthFieldOffset   = 0
lengthFieldLength   = 3
lengthAdjustment    = 2 (= the length of Header 1)
initialBytesToStrip = 0
```

```
BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x000C   | 0xCAFE   | "HELLO, WORLD" |      | 0x000C   | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
lengthFieldOffset   = 1 (= the length of HDR1)
lengthFieldLength   = 2
lengthAdjustment    = 1 (= the length of HDR2)
initialBytesToStrip = 3 (= the length of HDR1 + LEN)
```

```
BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
+------+--------+------+----------------+      +------+----------------+
| HDR1 | Length  | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C  | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+------+--------+------+----------------+      +------+----------------+
```
2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message.

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into lengthAdjustment. Please note that we don't need to take the length ofHDR2 into account because the length field already includes the whole header length.

lengthFieldOffset = 1
lengthFieldLength = 2
lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
initialBytesToStrip = 3

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
+-----+--------+-----+----------------+----------+-----+----------------+
| HDR1 | Length | HDR2 | Actual Content | HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | 0xFE | "HELLO, WORLD" |
+-----+--------+-----+----------------+----------+-----+----------------+

@see LengthFieldPrepender

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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
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jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
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jar/io/netty/handler/codec/CodecException.java
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jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4.1-68-final-sources-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
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jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
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jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
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jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4.1-68-final-sources-
jar/io/netty/handler/codec/base64/Base64Encoder.java
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jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4.1-68-final-sources-
jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4.1-68-final-sources-
jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4.1-68-final-sources-
jar/io/netty/handler/codec/base64/package-info.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4.1-68-final-sources-
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4.1-68-final-sources-
jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4.1-68-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
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jar/io/netty/handler/codec/MessageToMessageEncoder.java
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jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
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jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4.1-68-final-sources-
jar/io/netty/handler/codec/serialization/UnsupportedMessageTypeException.java
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jar/io/netty/handler/codec/serialization/ObjectEncoder.java
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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java

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1.4426 resty wso2-apimcli-1.2.0

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means...
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
an application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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c) If distribution of the work is made by offering access to copy
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the
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## Installation

```
$ npm install only
```

## API

An array or space-delimited string may be given:

```js
```
```js
var obj = {
    name: 'tobi',
    last: 'holowaychuk',
    email: 'tobi@learnboost.com',
    _id: '12345'
};
```

var user = only(obj, 'name last email');
```

yields:

```js
```
```js
{
    name: 'tobi',
    last: 'holowaychuk',
    email: 'tobi@learnboost.com'
}
```

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* /opt/cola/permits/1237634391_1638828631.58/0/only-0-0-2-tgz/package/Readme.md

1.4447 readable-stream 3.4.0

1.4447.1 Available under license :

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1.4448 @jridgewell/sourcemap-codec 1.4.13

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1.4449 google-uuid 1.0.0

1.4449.1 Available under license:

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1.4450 x-crypto 1.15.10

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1.4451 libc 2.31-13+deb11u3

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Version 3.0, 18 August 2009

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>

1.4454 is-data-descriptor 1.0.0
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1.4457 mariadb 10.1.41-0+deb9u1

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'#----------------------------------------------------------------------------BS_STVARS_040_01#----------------------------------------------------------------------------'
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected

'#----------------------------------------------------------------------------BS_STVARS_040_02#----------------------------------------------------------------------------'
SET @GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected

'#----------------------------------------------------------------------------BS_STVARS_040_03#----------------------------------------------------------------------------'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

'#----------------------------------------------------------------------------BS_STVARS_040_04#----------------------------------------------------------------------------'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
SELECT COUNT(@@license);
COUNT(@@license)
1

SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1

SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

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Version 2, June 1991

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# Data Type: string
# Creation Date: 2008-02-07
# Author: Sharique Abdullah
# Description: Test Cases of Dynamic System Variable license that checks the behavior of this variable in the following ways
#   * Value Check
#   * Scope Check

--echo '#---------------------BS_STVARS_040_01----------------------#'
--echo '# Displaying default value#
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_02----------------------#'
--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '="/----------------------BS_STVARS_040_03----------------------="/'
# Check if the value in GLOBAL Table matches value in variable #
#=====================================================================
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '="/----------------------BS_STVARS_040_04----------------------="/'
# Check if accessing variable with and without GLOBAL point to same variable #
#=====================================================================
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '="/----------------------BS_STVARS_040_05----------------------="/'
# Check if license can be accessed with and without @@ sign #
#=====================================================================
SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'
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The Debian package of MySQL was first debianized on 1997-04-12 by Christian
Schwarz <schwarz@debian.org> and ist maintained since 1999-04-20 by
Christian Hammers <ch@debian.org>.

The MariaDB packages were initally made by http://ourdelta.org/, and
are now managed by the MariaDB development team,
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cmake-2.4.8/Utilities/cmtar/compat/gethostname.c:
cgethostname.c: minimal substitute for missing gethostname() function
created 2000-Mar-02 jmk
requires SVR4 uname() and -lc

by Jim Knoble
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cmake-2.4.8/Utilities/cmzlib/zlib.h:
 zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.1.4, March 11th, 2002

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cmake-2.4.8/Source/CTest/Curl/inet_pton.c:
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Sources for Time Zone and Daylight Saving Time Data
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Please send corrections to this web page to the time zone mailing list.

The tz database

The public-domain time zone database contains code and data that represent the history of local time for many representative locations around the globe. It is updated periodically to reflect changes made by political bodies to time zone boundaries, UTC offsets, and daylight-saving rules. This database (often called tz or zoneinfo) is used by several implementations, including the GNU C Library used in GNU/Linux, FreeBSD, NetBSD, OpenBSD, Cygwin, DJGPP, HP-UX, IRIX, Mac OS X, OpenVMS, Solaris, Tru64, and UnixWare.

Each location in the database represents a national region where all clocks keeping local time have agreed since 1970. Locations are identified by continent or ocean and then by the name of the location, which is typically the largest city within the region. For example, America/New_York represents most of the US eastern time zone; America/Phoenix represents most of Arizona, which uses mountain time without daylight saving time (DST); America/Detroit represents most of Michigan, which uses eastern time but with different DST rules in 1975; and other entries represent smaller regions like Starke County, Indiana, which switched from central to eastern time in 1991 and switched back in 2006. To use the database on an extended POSIX implementation set the TZ environment variable to the location's full name, e.g., TZ="America/New_York".

In the tz database's FTP distribution the code is in the file tzcodeC.tar.gz, where C is the code's version; similarly, the data are in tzdataD.tar.gz, where D is the data's version. The following shell commands download these files to a GNU/Linux or similar host; see the downloaded README file for what to do next.

```
wget 'ftp://elsie.nci.nih.gov/pub/tz*.tar.gz'
gzip -dc tzcode*.tar.gz | tar -xf -
gzip -dc tzdata*.tar.gz | tar -xf -
```

The code lets you compile the tz source files into machine-readable binary files, one for each location. It also lets you read a tz binary file and interpret time stamps for that location.

The data are by no means authoritative. If you find errors, please send changes to the time zone mailing list. You can also subscribe to the mailing list, retrieve the archive of old messages (in gzip compressed format), or retrieve archived older versions of code and data; there is also a smaller HTTP mirror.
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 * The code has been modified by Mikael Ronstroem to handle
 * calculating a hash value of a key that is always a multiple
 * of 4 bytes long. Word 0 of the calculated 4-word hash value
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 */

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backport-util-concurrent-2.2.jar
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jaxen-1.1.1.jar
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groovy-all-1.0.jar
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jsch-0.1.31.jar 
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bcprov-jdk15-132.jar

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wsdl4j-1.6.2.jar

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procfs provides functions to retrieve system, kernel and process
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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* DNS resolver (dirmngr/dns.c)


dns.c - Recursive, Reentrant DNS Resolver.

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1.4472 wso2-carbon-mediation-templates-common 4.6.105

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1.4473 glib 2.50.3 2+deb9u1

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and Dave Detlef (detlef@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.) Software License, Version 1.0

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
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entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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school, if any, to sign a "copyright disclaimer" for the library, if
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.4493 swagger-core 1.5.20

1.4494 npm-profile 4.0.4
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1.4495 x-text 0.3.3
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1.4496 connect-utils 0.4.164

1.4496.1 Available under license:

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1.4497 libffi-dev 3.4.2-r1

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.4513 perl-data-dumper 2.167-399.el8
1.4513.1 Available under license :
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From 9f3886c605086a67f0d92591f8e8de99bc1d9164 Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=20P=C3=ADsa=C5=99?= <ppisar@redhat.com>
Date: Thu, 11 May 2017 09:25:35 +0200
Subject: [PATCH] Upgrade to 2.167
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

Unbundled from perl-5.25.12.

Signed-off-by: Petr Písa <ppisar@redhat.com>
---
Changes |  14 ++++++
Dumper.pm | 47 ++++++++--------
Dumper.xs | 167 +++++++++++++++++++++++++++++++++++++++++++++---------------
t/bugs.t | 37 ++++++++++++-
t/deparse.t | 22 ++++-
5 files changed, 207 insertions(+), 80 deletions(-)

diff --git a/Changes b/Changes
index f9ea53f..a5430d5 100644
--- a/Changes
+++ b/Changes
@@ -6,6 +6,20 @@ Changes - public release history for Data::Dumper

=over 8

+=item 2.166 (Nov 29 2016)
+Reduce memory usage by not importing from Carp
+Reduce memory usage by removing unused overload require.
+
+=item 2.165 (Nov 20 2016)
+Remove impediment to compiling under C++11.
+
+=item 2.164 (Nov 12 2016)
+
+The XS implementation now handles the C<Deparse> option, so using it no
+longer forces use of the pure-Perl version.
+
=item 2.161 (Jul 11 2016)

Perl 5.12 fix/workaround until fixed PPPort release.
diff --git a/Dumper.pm b/Dumper.pm
index c71ad35..00f6326 100644
--- a/Dumper.pm
+++ b/Dumper.pm
@@ -10,16 +10,15 @@
package Data::Dumper;
BEGIN {
-    $VERSION = '2.161'; # Don't forget to set version and release
+    $VERSION = '2.167'; # Don't forget to set version and release
}               # date in POD below!
#$| = 1;

use 5.006_001;
require Exporter;
-require overload;

-use Carp;
+use Carp ();

BEGIN {
    @ISA = qw(Exporter);
@@ -70,7 +69,7 @@ $Maxrecurse = 1000      unless defined $Maxrecurse;
sub new {  
    my($c, $v, $n) = @_;
- croak "Usage: PACKAGE->new(ARRAYREF, [ARRAYREF])"
+ Carp::croak("Usage: PACKAGE->new(ARRAYREF, [ARRAYREF])")
    unless (defined($v) && (ref($v) eq 'ARRAY'));
$n = [] unless (defined($n) && (ref($n) eq 'ARRAY'));

@@ -170,11 +169,11 @@ sub Seen {
   $s->{seen}{$id} = [$k, $v];
 } else {
-           carp "Only refs supported, ignoring non-ref item \$$k";
+           Carp::carp("Only refs supported, ignoring non-ref item \$$k");
 } }
 } else {
-           carp "Value of ref must be defined; ignoring undefined item \$$k";
+           Carp::carp("Value of ref must be defined; ignoring undefined item \$$k");
 } }
 return $s;
@@ -195,7 +194,7 @@ sub Values {
          return $s;
 } else {
-      croak "Argument to Values, if provided, must be array ref";
+      Carp::croak("Argument to Values, if provided, must be array ref");
 } }
 } else {
@@ -214,7 +213,7 @@ sub Names {
          return $s;
 } else {
-      croak "Argument to Names, if provided, must be array ref";
+      Carp::croak("Argument to Names, if provided, must be array ref");
 } }
 } else {
@@ -227,7 +226,6 @@ sub DESTROY {}
 sub Dump {
   return &Dumpxs
    unless $Data::Dumper::Useperl || (ref($_[0]) && $_[0]->{useperl})
-    || $Data::Dumper::Deparse || (ref($_[0]) && $_[0]->{deparse})
+    || $Data::Dumper::Deparse || (ref($_[0]) && $_[0]->{deparse})

   # Use pure perl version on earlier releases on EBCDIC platforms
    || (! $IS_ASCII && $] lt 5.021_010);
@@ -439,7 +437,7 @@ sub _dump {
          if (ref($s->{sortkeys}) eq 'CODE') {
            $keys = $s->{sortkeys}($val);
+

unless (ref($keys) eq 'ARRAY') {
carp "Sortkeys subroutine did not return ARRAYREF";
Carp::carp("Sortkeys subroutine did not return ARRAYREF");
$keys = [];
}

}
@@ -487,16 +485,16 @@ sub _dump {
require B::Deparse;
my $sub = 'sub ' . (B::Deparse->new)->coderef2text($val);
$pad = $s->{sep} . $s->{pad} . $s->{apad} . $s->{xpad} x ($s->{level} - 1);
$sub =~ s/\n/$pad/gse;
+
$sub =~ s/\n/$pad/gs;
$out .= $sub;
}
else {
$out .= 'sub { "DUMMY" }';
carp "Encountered CODE ref, using dummy placeholder" if $s->{purity};
+
Carp::carp("Encountered CODE ref, using dummy placeholder") if $s->{purity};
}
}
else {
croak "Can't handle '$realtype' type";
+
Carp::croak("Can't handle '$realtype' type");
}
if ($realpack and !$no_bless) { # we have a blessed ref
@@ -1212,9 +1210,10 @@ $Data::Dumper::Deparse I<or> $I<OBJ>->Deparse(I<[NEWVAL]>)
Can be set to a boolean value to control whether code references are
turned into perl source code. If set to a true value, C<B::Deparse>
-will be used to get the source of the code reference. Using this option
-will force using the Perl implementation of the dumper, since the fast
-XSUB implementation doesn't support it.
+will be used to get the source of the code reference. In older versions,
+using this option imposed a significant performance penalty when dumping
+parts of a data structure other than code references, but that is no
+longer the case.
Caution : use this option only if you know that your coderefs will be
properly reconstructed by C<B::Deparse>.
@@ -1435,15 +1434,9 @@ the C<Deparse> flag), an anonymous subroutine that
contains the string '"DUMMY"' will be inserted in its place, and a warning
will be printed if C<Purity> is set. You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
-Someday, perl will have a switch to cache-on-demand the string
-representation of a compiled piece of code, I hope. If you have prior
-knowledge of all the code refs that your data structures are likely
-to have, you can use the C<Seen> method to pre-seed the internal reference

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-table and make the dumped output point to them, instead. See L</EXAMPLES>
-above.

-The C<Deparse> flag makes Dump() run slower, since the XSUB
-implementation does not support it.
+Even using the C<Deparse> flag will in some cases produce results that
+behave differently after being passed to C<eval>; see the documentation
+for L<B::Deparse>.

SCALAR objects have the weirdest looking C<bless> workaround.

@@ -1466,13 +1459,13 @@ be to use the C<Sortkeys> filter of Data::Dumper.

Gurusamy Sarathy        gsar@activestate.com

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=head1 VERSION

-Version 2.161  (July 11 2016)
+Version 2.167  (January 4 2017)

=head1 SEE ALSO

diff --git a/Dumper.xs b/Dumper.xs
index b22088f..0e7142e 100644
--- a/Dumper.xs
+++ b/Dumper.xs
@@ -63,6 +63,7 @@ typedef struct {
    I32 useqq;
    int use_sparse_seen_hash;
    int trailingcomma;
+    int deparse;
 } Style;
 static STRLEN num_q (const char *s, STRLEN slen);
@@ -369,7 +370,7 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
 UV k;

    if (do_utf8
-        && ! isASCII(*(U8*)s)
+        && ! isASCII(*s)
          /* Exclude non-ASCII low ordinal controls. This should be
             * optimized out by the compiler on ASCII platforms; if not
             * could wrap it in a #ifdef EBCDIC, but better to avoid
++ @ -387,11 +388,11 @@ esc_q_utf8(pTHX_SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
increment = (k == 0 & & *s != '\0') ? 1 : UTF8SKIP(s);

#if PERL_VERSION < 10
-   sprintf(r, "\x{"UVxf"}", k);
+   sprintf(r, "\x{" UVxf "}", k);
   r += strlen(r);
   /* my_sprintf is not supported by ppport.h */
#else
-   r = r + my_sprintf(r, "\x{"UVxf"}", k);
+   r = r + my_sprintf(r, "\x{" UVxf "}", k);
#endif
continue;
}
@@ -505,6 +506,53 @@ sv_x(pTHX_SV *sv, const char *str, STRLEN len, I32 n)
   return sv;
 }

+static SV *
+deparsed_output(pTHX_SV *val)
+{
+    SV *text;
+    int n;
+    dSP;
+
+    /* This is passed to load_module(), which decrements its ref count and
+     * modifies it (so we also can't reuse it below) */
+    SV *pkg = newSVpvs("B::Deparse");
+    load_module(PERL_LOADMOD_NOIMPORT, pkg, 0);
+
+    SAVETMPS;
+
+    PUSHMARK(SP);
+    mXPUSHs(newSVpvs("B::Deparse"));
+    PUTBACK;
+
+    n = call_method("new", G_SCALAR);
+    SPAGAIN;
+
+    if (n != 1) {
+        croak("B::Deparse->new returned \%d items, but expected exactly 1", n);
+    }
+
+    PUSHMARK(SP - n);
+    XPUSHs(val);
+    PUTBACK;
+

n = call_method("coderef2text", G_SCALAR);
SPAGAIN;

if (n != 1) {
    croak("$b_deparse->coderef2text returned %d items, but expected exactly 1", n);
}

text = POPs;
SvREFCNT_inc(text); /* the caller will mortalise this * /
FREETMPS;
PUTBACK;

return text;

/*
 * This ought to be split into smaller functions. (it is one long function since
 * it exactly parallels the perl version, which was one long thing for
 * seenhv,
       i = perl_call_method(SvPVX_const(style->freezer), G_EVAL|G_VOID|G_DISCARD);
       SPAGAIN;
       if (SvTRUE(ERRSV))
-warn("WARNING(Freezer method call failed): %SVf", ERRSV);
+warn("WARNING(Freezer method call failed): %" SVf, ERRSV);
        PUTBACK; FREETMPS; LEAVE;
}

ival = SvRV(val);
realtype = SvTYPE(ival);
#if defined DD_USE_OLD_ID_FORMAT
    idlen = my_snprintf(id, sizeof(id), "0x"UVxf, PTR2UV(ival));
#else
    id_buffer = PTR2UV(ival);
    idlen = sizeof(id_buffer);
#endif
    @@ -630,7 +678,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
-warn("ref name not found for %s", id);
+warn("ref name not found for 0x%" UVxf, PTR2UV(ival));
#endif
    return 0;
}
@@ -848,10 +896,10 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
                (void) sprintf(iname+ilen, "%"IVdf, (IV)iix);
+                (void) sprintf(iname+ilen, "%" IVdf, (IV)iix);
ilen = strlen(iname);
#endif
iname[ilen++] = ']'; iname[ilen] = '0';
    if (style->indent >= 3) {
@@ -886,7 +934,6 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
                STRLEN klen;
                SV *hval;
                AV *keys = NULL;
@@ -976,6 +1023,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
                STRLEN nticks = 0;
                SV* keysv;
                +                STRLEN klen;
                STRLEN keylen;
@@ -1029,7 +1077,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
                if (do_utf8 || style->useqq) {
                    STRLEN ocur = SvCUR(retval);
                    -                    nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
                    +                    klen = nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
                    nkey = SvPVX(retval) + ocur;
                }
                else {
@@ -1095,9 +1143,41 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
                                       SvREFCNT_dec(totpad);
                                    }
                                else if (realtype == SVt_PVCV) {
-                                sv_catpvs(retval, "sub { "DUMMY" }");

if (style->purity)
-warn("Encountered CODE ref, using dummy placeholder");
+ if (style->deparse) {
+     SV *deparsed = sv_2mortal(deparsed_output(aTHX_val));
+     SV *fullpad = sv_2mortal(newSVsv(style->sep));
+     const char *p;
+     STRLEN plen;
+     I32 i;
+
+     sv_catsv(fullpad, style->pad);
+     sv_catsv(fullpad, apad);
+     for (i = 0; i < level; i++) {
+         sv_catsv(fullpad, style->xpad);
+     }
+
+     sv_catpvs(retval, "sub ");
+     p = SvPV(deparsed, plen);
+     while (plen > 0) {
+         const char *nl = (const char *) memchr(p, '\n', plen);
+         if (!nl) {
+             sv_catpvn(retval, p, plen);
+             break;
+         }
+         else {
+             size_t n = nl - p;
+             sv_catpvn(retval, p, n);
+             sv_catsv(retval, fullpad);
+             p += n + 1;
+             plen -= n + 1;
+         }
+     }
+ } else {
+     sv_catpvs(retval, "sub \"DUMMY\" ");
+     if (style->purity)
+         warn("Encountered CODE ref, using dummy placeholder");
+ } }
} else {
    warn("cannot handle ref type %d", (int)realtype);
@@ -1144,7 +1224,7 @@ DD_dump(pTHX_SV *val, const char *name, STRLEN namelen, SV *retval, HV *
*seenhv,

if (namelen) {
    #ifdef DD_USE_OLD_ID_FORMAT
-    idlen = my_snprintf(id, sizeof(id), "0x%"UVxf, PTR2UV(val));
+    idlen = my_snprintf(id, sizeof(id), "0x%" UVxf, PTR2UV(val));
    #else

id_buffer = PTR2UV(val);
iden = sizeof(id_buffer);

@@ -1184,9 +1264,9 @@ DD_dump(pTHX_SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
    if (DD_is_integer(val)) {
        STRLEN len;
        if (SvIsUV(val))
-            len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" UVuf, SvUV(val));
+            len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" UVuf, SvUV(val));
        else
-            len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf, SvIV(val));
+            len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf, SvIV(val));
        if (SvPOK(val)) {
            /* Need to check to see if this is a string such as " 0".
             * I'm assuming from sprintf isn't going to clash with utf8. */
@@ -1412,53 +1492,55 @@ Data_Dumper_Dumpxs(href, ...)
            && (hv = (HV*)SvRV((SV*)href))
            && SvTYPE(hv) == SVt_PVHV){

-            if ((svp = hv_fetch(hv, "seen", 4, FALSE)) && SvROK(*svp))
+            if ((svp = hv_fetchs(hv, "seen", FALSE)) && SvROK(*svp))
                seenhv = (HV*)SvRV(*svp);
            else
                style.use_sparse_seen_hash = 1;
-            if ((svp = hv_fetch(hv, "noseen", 6, FALSE)))
+            if ((svp = hv_fetchs(hv, "noseen", FALSE)))
                style.use_sparse_seen_hash = (SvOK(*svp) && SvIV(*svp) != 0);
-            if ((svp = hv_fetch(hv, "todump", 6, FALSE)) && SvROK(*svp))
+            if ((svp = hv_fetchs(hv, "todump", FALSE)) && SvROK(*svp))
                todumpav = (AV*)SvRV(*svp);
-            if ((svp = hv_fetch(hv, "names", 5, FALSE)) && SvROK(*svp))
+            if ((svp = hv_fetchs(hv, "names", FALSE)) && SvROK(*svp))
                namesav = (AV*)SvRV(*svp);
-            if ((svp = hv_fetch(hv, "indent", 6, FALSE)))
+            if ((svp = hv_fetchs(hv, "indent", FALSE)))
                style.indent = SvIV(*svp);
-            if ((svp = hv_fetch(hv, "purity", 6, FALSE)))
+            if ((svp = hv_fetchs(hv, "purity", FALSE)))
                style.purity = SvIV(*svp);
-            if ((svp = hv_fetch(hv, "terse", 5, FALSE)))
+            if ((svp = hv_fetchs(hv, "terse", FALSE)))
                terse = SvTRUE(*svp);
-            if ((svp = hv_fetch(hv, "useqq", 5, FALSE)))
+            if ((svp = hv_fetchs(hv, "useqq", FALSE)))
                style.useqq = SvTRUE(*svp);
-            if ((svp = hv_fetch(hv, "pad", 3, FALSE)))
+            if ((svp = hv_fetchs(hv, "pad", FALSE)))
                style.pad = *svp;
-if ((svp = hv_fetch(hv, "xpad", 4, FALSE)))
+if ((svp = hv_fetchs(hv, "xpad", FALSE)))
    style.xpad = *svp;
-if ((svp = hv_fetch(hv, "apad", 4, FALSE)))
+if ((svp = hv_fetchs(hv, "apad", FALSE)))
    apad = *svp;
-if ((svp = hv_fetch(hv, "sep", 3, FALSE)))
+if ((svp = hv_fetchs(hv, "sep", FALSE)))
    style.sep = *svp;
-if ((svp = hv_fetch(hv, "pair", 4, FALSE)))
+if ((svp = hv_fetchs(hv, "pair", FALSE)))
    style.pair = *svp;
-if ((svp = hv_fetch(hv, "varname", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "varname", FALSE)))
    varname = *svp;
-if ((svp = hv_fetch(hv, "freezer", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "freezer", FALSE)))
    style.freezer = *svp;
-if ((svp = hv_fetch(hv, "toaster", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "toaster", FALSE)))
    style.toaster = *svp;
-if ((svp = hv_fetch(hv, "deepcopy", 8, FALSE)))
+if ((svp = hv_fetchs(hv, "deepcopy", FALSE)))
    style.deepcopy = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "quotekeys", 9, FALSE)))
+if ((svp = hv_fetchs(hv, "quotekeys", FALSE)))
    style.quotekeys = SvTRUE(*svp);
-    if ((svp = hv_fetch(hv, "trailingcomma", 13, FALSE)))
+    if ((svp = hv_fetchs(hv, "trailingcomma", FALSE)))
        style.trailingcomma = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "bless", 5, FALSE)))
+    if ((svp = hv_fetchs(hv, "deparse", FALSE)))
+        style.deparse = SvTRUE(*svp);
+    if ((svp = hv_fetchs(hv, "bless", FALSE)))
+        style.bless = *svp;
-if ((svp = hv_fetch(hv, "maxdepth", 8, FALSE)))
+if ((svp = hv_fetchs(hv, "maxdepth", FALSE)))
    style.maxdepth = SvIV(*svp);
-if ((svp = hv_fetch(hv, "maxrecurse", 10, FALSE)))
+if ((svp = hv_fetchs(hv, "maxrecurse", FALSE)))
    style.maxrecurse = SvIV(*svp);
-if ((svp = hv_fetch(hv, "sortkeys", 8, FALSE))) {
+    if ((svp = hv_fetchs(hv, "sortkeys", FALSE))) {
        SV *sv = *svp;
        if (! SvTRUE(sv))
            style.sortkeys = NULL;
@@ -1525,9 +1607,10 @@ Data_Dumper_Dumpxs(href, ...)
}

else {
  STREN nchars;
  -sv_setpvn(name, "$", 1);
  +sv_setpvs(name, "$")
  sv_catsv(name, varname);
  -nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf, (IV)(i+1));
  +nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf, (IV)(i+1));
  sv_catpvn(name, tmpbuf, nchars);
}

@@ -1575,7 +1658,7 @@ Data_Dumper_Dumpxs(href, ...)
sv_catpvs(retval, ",");
    sv_catsv(retval, style.sep);
  }
-   sv_setpvn(valstr, "", 0);
+   SvPVCLEAR(valstr);
if (gimme == G_ARRAY) {
XPUSHs(sv_2mortal(retval));
if (i < imax) /* not the last time thro ? */
diff --git a/t/bugs.t b/t/bugs.t
index a440b0a..5db82da 100644
--- a/t/bugs.t
+++ b/t/bugs.t
@@ -12,7 +12,7 @@ BEGIN {
}

use strict;
-use Test::More tests => 15;
+use Test::More tests => 24;
use Data::Dumper;

{
@@ -144,4 +144,39 @@ SKIP: {
&$tests;
 }

+{ # https://rt.perl.org/Ticket/Display.html?id=128524
+  my $want;
+  my $runtime = "runtime";
+  my $requires = "requires";
+  utf8::upgrade(my $runtime = $runtime);
+  utf8::upgrade(my $requires = $requires);
+  for my $run ($runtime, $runtime) {
+    for my $req ($requires, $requires) {
+      my $data = { $run => { $req => { foo => "bar" } } };
+      local $Data::Dumper::Useperl = 1;
+      # we want them all the same

defined $want or $want = Dumper($data);

is(Dumper($data), $want, "utf-8 indents");

SKIP:
{  
  defined &Data::Dumper::Dumpxs
  or skip "No XS available", 1;
  local $Data::Dumper::Useperl = 0;
  is(Dumper($data), $want, "utf8-indents");
}

 SKIP: {
    skip "No XS available", 1 if !defined &Data::Dumper::Dumpxs;
    sub rt130487_args { 0 + @_ }
    my $code = sub {};
    local $Data::Dumper::Useperl = 0;
    local $Data::Dumper::Deparse = 1;
    my $got = rt130487_args( Dumper($code) );
    is($got, 1, "stack management in XS deparse works, rt 130487");
    
}

# EOF

diff --git a/t/deparse.t b/t/deparse.t
index c281fcede..cddde8c 100644
--- a/t/deparse.t
+++ b/t/deparse.t
@@ -15,7 +15,7 @@ BEGIN {
 use strict;
 use Data::Dumper;
 -use Test::More tests => 8;
+use Test::More tests => 16;
 use lib qw( ./t/lib );
 use Testing qw( _dumptostr );
@@ -24,7 +24,9 @@ use Testing qw( _dumptostr );

 note("\$Data::Dumper::Deparse and Deparse()");

-{
+for my $useperl (0, 1) {
  +  local $Data::Dumper::Useperl = $useperl;
  +  my ($obj, %dumps, $deparse, $starting);
  use strict;
my $struct = { foo => "bar\nbaz", quux => sub { "fleem" } }; @ @ -46,11 +48,11 @ @ note("$Data::Dumper::Deparse and Deparse()"); $dumps{\'objzero\'} = _dumptostr($obj);

is($dumps{\'noprev\'}, $dumps{\'dddzero\'}, - "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent"); + "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent (useperl=$useperl)"; is($dumps{\'noprev\'}, $dumps{\'objempty\'}, - "No previous setting and Deparse() are equivalent"); + "No previous setting and Deparse() are equivalent (useperl=$useperl)"; is($dumps{\'noprev\'}, $dumps{\'objzero\'}, - "No previous setting and Deparse(0) are equivalent"); + "No previous setting and Deparse(0) are equivalent (useperl=$useperl)";

local $Data::Dumper::Deparse = 1; $obj = Data::Dumper->new( [ $struct ] ); @ @ -62,19 +64,19 @ @ note("$Data::Dumper::Deparse and Deparse()"); $dumps{\'objone\'} = _dumptostr($obj);

is($dumps{\'dddtrue\'}, $dumps{\'objone\'}, - "$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent"); + "$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent (useperl=$useperl)";

isn($dumps{\'dddzero\'}, $dumps{\'dddtrue\'}, - "$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1"); + "$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1 (useperl=$useperl)";

like($dumps{\'dddzero\'}, qr/quux.*?sub.*?DUMMY/s, - "$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef"); + "$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef (useperl=$useperl)";

unless($dumps{\'dddtrue\'}, qr/quux.*?sub.*?DUMMY/s, - "$Data::Dumper::Deparse = 1 does not report DUMMY"); + "$Data::Dumper::Deparse = 1 does not report DUMMY (useperl=$useperl)";

like($dumps{\'dddtrue\'}, qr/quux.*?use\sstrict.*?fleem/s, - "$Data::Dumper::Deparse = 1 deparses coderef"); + "$Data::Dumper::Deparse = 1 deparses coderef (useperl=$useperl)";
}

-- 2.9.3

Found in path(s):
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
  Test::More: '0.98'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Data-Dumper
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  MailingList: http://lists.cpan.org/showlist.cgi?name=perl5-porters
  bugtracker: http://rt.perl.org/perlbug/
  repository: 'git://perl5.git.perl.org/perl.git perl-git'
  version: '2.161'

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.31

Automatically created by Devel::PPPort running under perl 5.022001.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc pppport.h' to view the documentation below.

******************************************************************************
=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.31

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help    show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help
Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automatically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet
Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>'.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible
across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source
file), use:

    #define NEED_function
    #define NEED_variable
For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signalsGLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
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<td>grok_hex()</td>
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<td>NEED_grok_hex_GLOBAL</td>
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<td>grok_number()</td>
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<td>NEED_grok_number_GLOBAL</td>
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<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
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<td>NEED_grok_octGLOBAL</td>
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<td>NEED_load_module</td>
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<td>NEED_mg_findext_GLOBAL</td>
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<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
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<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
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<td>newSVpvn_share()</td>
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<td>NEED_newSVpvn_share_GLOBAL</td>
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<td>pv_display()</td>
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<td>NEED_pv_display_GLOBAL</td>
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<td>pv_escape()</td>
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<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_unmagicext()</td>
<td>NEED_sv_unmagicext</td>
<td>NEED_sv_unmagicext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C\<DPPP_NAMESPACE>
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

    perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new
To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/.

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.
=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.31;

my %opt = (
    quiet   => 0,
    diag    => 1,
    hints   => 1,
    changes => 1,
    cplusplus => 0,
    filter  => 1,
    strip   => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\r\n|\[\r\n\])';  # line feed
my $HS = '[ \t\]'           # horizontal whitespace
# Never use C comments in this file!
my $ccs = '/.*';
my $cce = '*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION.
";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
    my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
    if ($@) {
        die "Invalid version number format: $opt{compat-version}
";
    }
    die "Only Perl 5 is supported
" if $r != 5;
    die "Invalid version number: $opt{compat-version}
" if $v >= 1000 || $s >= 1000;
    $opt{compat-version} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{compat-version} = 5;
}

my %API = map { /^\w+\|[^|]+\|[^|]+\|[^|]+$/ ? ( $1 => { $2 : ( ), $3 : ( ),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ( ),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ( ),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ( ),
    ) } : ( ) ) : ( ) ) ;


: die "invalid spec: $_" } qw(
ASCII_TO_NEED[5.007001]
AvFILLp[5.004050]p
AvFILL]|BhkDISABLE[5.021008]
BhkENABLE[5.021008]
BhkENTRY_set[5.021008]
CPERL.scope[5.005000]p
CopFILEGV_set[5.006000]p
CopFILEGV[5.006000]p
CopFILESV[5.006000]p
CopFILE_set[5.006000]p
CopFILE[5.006000]p
CopSTASHPV_set[5.006000]p
CopSTASHPV[5.006000]p
CopSTASH_eq[5.006000]p
CopSTASH_set[5.006000]p
CopSTASH[5.006000]p
CopyD[5.009002][5.004050]p
Copy]|CvPADLIST[5.008001]
DEFSV[5.004050]p
END_EXTERN_C[5.005000]p
ENTER]|ERRSV[5.004050]p
EXTEND]|EXTERN_C[5.005000]p
F0convert][n
FREETMPS]|GIMME_V[5.004000]n
GIMME][n
GROK_NUMERIC_RADIX[5.007002]p
G_NOARGS]|
MY_CXT_CLONE
MY_CXT_INIT
MY_CXT
MoveD
Move
NATIVE_TO_NEED
NOOP
NUM2PTR
NVTYPE
NVef
NVrf
NVgf
Newxc
Newxz
Newx
Nullav
Nullch
Nullcv
Nullhv
Nullsv
OP_CLASS
OP_DESC
OP_NAME
OP_TYPE_IS_OR_WAS
OP_TYPE_IS
ORIGMARK
OpHAS_SIBLING
OpSIBLING_set
OpSIBLING
PAD_BASE_SV
PAD_CLONE_VARS
PAD_COMPNAME_FLAGS
PAD_COMPNAME_GEN_set
PAD_COMPNAME_GEN
PAD_COMPNAME_OURSTASH
PAD_COMPNAME_PV
PAD_COMPNAME_TYPE
PAD_RESTORE_LOCAL
PAD_SAVE_LOCAL
PAD_SETNULLPAD
PAD_SETSV
PAD_SET_CUR_NOSAVE
PAD_SET_CUR
PAD_SV
PERLIO_FUNCS_CAST
PERLIO_FUNCS_DECL
PERL_ABS
PERL_BCDVERSION|5.021008||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.003070||p
PERL_INT_MAX|5.003070||p
PERL_INT_MIN|5.003070||p
PERL_LONG_MAX|5.003070||p
PERL_LONG_MIN|5.003070||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bml|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.021008||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.021008||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.021008||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.021008||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 45054
SvIOK_on||
SvIOKp||
SvIOK||
SvIVX||
SvIV_nomg[5.009001]|p
SvIV_set||
SvIVx||
SvIV||
SvIsCOW_shared_hash[5.008003]
SvIsCOW||5.008003|
SvLEN_set||
SvLEN||
SvLOCK||5.007003
SvMAGIC_set[5.009003]|p
SvNIOK_off||
SvNIOKp||
SvNIOK||
SvNOK_off||
SvNOK_only||
SvNOK_on||
SvNOKp||
SvNOK||
SvNVX||
SvNV_nomg[5.013002]
SvNV_set||
SvNVx||
SvNV||
SvOK||
SvOOK_offset[5.011000]
SvOOK||
SvPOK_off||
SvPOK_only_UTF8||5.006000|
SvPOK_only||
SvPOK_on||
SvPOKp||
SvPOK||
SvPVX_const[5.009003]|p
SvPVX_mutable[5.009003]|p
SvPVX||
SvPV_const[5.009003]|p
SvPV_flags_const_nolen[5.009003]|p
SvPV_flags_const[5.009003]|p
SvPV_flags_mutable[5.009003]|p
SvPV_flags[5.007002]|p
SvPV_force_flags_mutable[5.009003]|p
SvPV_force_flags_nolen[5.009003]|p
SvPV_force_flags[5.007002]|p
SvPV_force_mutable[5.009003]|p
SvPV_force_nolen|5.009003||p
SvPV_force_nomg_nolen|5.009003||p
SvPV_force_nomg|5.007002||p
SvPV_force||p
SvPV_mutable|5.009003||p
SvPV_nolen_const|5.009003||p
SvPV_nolen|5.006000||p
SvPV_nomg_const_nolen|5.009003||p
SvPV_nomg_const|5.009003||p
SvPV_nomg_nolen|5.013007||p
SvPV_nomg|5.007002||p
SvPV_renew|5.009003||p
SvPV_set||p
SvPVbyte_force|5.009002|
SvPVbyte_nolen|5.006000|
SvPVbyte_force|5.006000|
SvPVbyte_nolens|5.006000|
SvPVbyte|5.006000||p
SvPVutf8_force|5.006000|
SvPVutf8_nolen|5.006000|
SvPVutf8_force|5.006000|
SvPVutf8|5.006000|
SvPflow||5.006000|
SvPV||
SvREFCNT_dec_NN|5.017007|
SvREFCNT_dec||
SvREFCNT_inc_NN|5.009004||p
SvREFCNT_inc_NN|5.009004||p
SvREFCNT_inc_simple_NN|5.009004||p
SvREFCNT_inc_simple_NN|5.009004||p
SvREFCNT_inc_simple_void_NN|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc_simple|5.009004||p
SvREFCNT_inc|5.009004||p
SvREFCNT_inc|5.009004||p
SvROK_off|||p
SvROK_on|||p
SvROK||p
SvRV_set|5.009003||p
SvRV||p
SvRXOK|5.009005|
SvRX|5.009005|
SvSETMAGIC||
SvSHAREED_HASH|5.009003||p
SvSHARE|5.007003|
SvSTASH_set|5.009003||p
SvSTASH|||p
WARN_INTERNAL[5.006000]|p
WARN_IO[5.006000]|p
WARN_LAYER[5.008000]|p
WARN_MALLOC[5.006000]|p
WARN_MISC[5.006000]|p
WARN_NEWLINE[5.006000]|p
WARN_NUMERIC[5.006000]|p
WARN_ONCE[5.006000]|p
WARN_OVERFLOW[5.006000]|p
WARN_PACK[5.006000]|p
WARN_PARENTHESIS[5.006000]|p
WARN_PIPE[5.006000]|p
WARN_PORTABLE[5.006000]|p
WARN_PRECEDENCE[5.006000]|p
WARNPRINTF[5.006000]|p
WARN_PROTOTYPE[5.006000]|p
WARN_QW[5.006000]|p
WARN_RECURSION[5.006000]|p
WARN_REDEFINE[5.006000]|p
WARN_REGEXP[5.006000]|p
WARN_RESERVED[5.006000]|p
WARN_SEMICOLON[5.006000]|p
WARN_SEVERE[5.006000]|p
WARN_SIGNAL[5.006000]|p
WARN_SUBSTR[5.006000]|p
WARN_SYNTAX[5.006000]|p
WARN_TAINT[5.006000]|p
WARN_THREADS[5.008000]|p
WARN_UNINITIALIZED[5.006000]|p
WARN_UNOPENED[5.006000]|p
WARN_UNPACK[5.006000]|p
WARN_UNTIE[5.006000]|p
WARN_UTF8[5.006000]|p
WARN_VOID[5.006000]|p
WIDEST_UTYPE[5.015004]|p
XCPT_CATCH[5.009002]|p
XCPT_RETHROW[5.009002]|p
XCPT_TRY_END[5.009002]|p
XCPT_TRY_START[5.009002]|p
XPUSHi||
XPUSHmortal[5.009002]|p
XPUSHn||
XPUSHp||
XPUSHs||
XPUSHu[5.004000]|p
XSPROTO[5.010000]|p
XSRETURN_EMPTY||
XSRETURN_IV||
block_end|5.004000|
block_gimme|5.004000|
block_start|5.004000|
blockhook_register|5.013003|
boolSV|5.004000|p
boot_core_PerlIO||
boot_core_UNIVERSAL||
boot_core_mro||
bytes_cmp_utf8|5.013007|
bytes_from_utf8|5.007001|
bytes_to_utf8|5.006001|
call_argv|5.006000|p
call_atexit|5.006000|
call_list|5.004000|
call_method|5.006000|p
call_pv|5.006000|p
call_sv|5.006000|p
caller_cx|5.013005|5.006000|p
calloc|5.007002|n
cando||
cast_i32|5.006000|n
cast_iv|5.006000|n
cast_ulong|5.006000|n
cast_uv|5.006000|n
check_locale_boundary_crossing||
check_type_and_open||
clear_placeholders||
clear_special_blocks||
closure_cop||
closure_to_mnemonic||n
codecompute_EXACTish||n
copy fetch_label|5.015001|n

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do_smartmatch
do_spawn_nowait
do_spawn
do_sprintf
do_sv_dump
5.006000
do_sysseek
do_tell
5.006000
5.008001
5.009003
5.000000
5.006000
5.006000
5.006000
5.006000
5.006000
5.000000
5.006000

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 45071
dump_sub[5.006000]
dump_sv_child[]
dump_trie_interim_list[]
dump_trie_interim_table[]
dump_trie[]
dump_vindent[5.006000]
dumpuntil[]
dup_attrlist[]
emulate_cop_io[]
eval_pv[5.006000]
eval_sv[5.006000]
exec_failed[]
expect_number[]
fbm_compile[5.005000]
fbm_instr[5.005000]
feature_is_enabled[]
filter_add[]
filter_del[]
filter_gets[]
filter_read[]
finalize_optree[]
finalize_op[]
find_and_forget_pmops[]
find_array_subscript[]
find_beginning[]
find_byclass[]
find_default_stash[]
find_hash_subscript[]
find_in_my_stash[]
find_lexical_cv[]
find_runcv_where[]
find_runcv[5.008001]
find_rundefsv2[]
find_rundefsvoffset[5.009002]
find_rundefsv[5.013002]
find_script[]
find_uninit_var[]
first_symbol[]
fixup_errno_string[]
foldEQ_latin1[5.013008]
foldEQ_locale[5.013002]
foldEQ_utf8_flags[5.013010]
foldEQ_utf8[5.013002]
foldEQ[5.013002]
fold_constants[]
forbid_setid[]
force_ident_maybe_lex[]
force_ident[]
force_list
force_next
force_strict_version
force_version
force_word
forget_pmop
form_nocontext
form_short_octal_warning
form
fp_dup
fprintf_nocontext
free_c_backtrace
free_global_struct
free_tied_hv_pool
free_tmps
gen_constant_list
get_ANYOF_cp_list_for_ssc
get_and_check_backslash_N_name
get_aux_mg
get_av
get_c_backtrace_dump
get_c_backtrace
get_context
get_cv
get_cvs
get_cvn_flags
get_cv
get_db_sub
get_debug_opts
get_hash_seed
get_invlist_iter_addr
get_invlist_offset_addr
get_invlist_previous_index_addr
get_mstats
get_no_modify
get_num
get_op_descs
get_op_names
get_opargs
get_ppaddr
get_re_arg
get_sv
get_vtbl
getcwd_sv
glob_2number
glob_assign_glob
gp_dup
gv_fetchpv||
gv_fetchsv[5.009002]||p
gv_fullname3[5.003070]
gv_fullname4[5.006001]
gv_fullname[

gv_handler[5.007001]
gv_init_pvn[5.015004]
gv_init_pv[5.015004]
gv_init_svtype[

gv_init_sv[5.015004]
gv_init[

gv_is_in_main[

gv_magicalize_isa[

gv_magicalize[

gv_name_set[5.009004]
gv_override[

gv_setref[

gv_stashpvn_internal[

gv_stashpvn[5.003070]||p
gv_stashpvs[5.009003]||p
gv_stashpv[

gv_stashsvpvn_cached[

gv_stashsv[

gv_try_downgrade[
handle_regex_sets[
he_dup[
hek_dup[
hfree_next_entry[
hfreeentries[
hsplit[
hv_assert[

hv_auxinit_internal||n
hv_auxinit[

hv_backreferences_p[

hv_clear_placeholders[5.009001]
hv_clear[

hv_common_key_len[5.010000]
hv_common[5.010000]
hv_copy_hints_hv[5.009004]
hv_delayfree_ent[5.004000]
hv_delete_common[

hv_delete_ent[5.003070]
hv_delete[

hv_eiter_p[5.009003]
hv_eiter_set[5.009003]
hv_name_add[

hv_name_delete[

hv_exists_ent[5.003070]
hv_exists||
hv_fetch_ent|5.003070|
hv_fetchs|5.009003|[p
hv_fetch||
hv_fill|5.013002|
hv_free_ent_ret|||
hv_free_ent|5.004000|
hv_iterinit||
hv_iterkeys|5.003070|
hv_iterkey||
hv_iternext_flags|5.008000|
hv_iternextsv||
hv_iternext||
hv_iterval||
hv_kill_backrefs||
hv_ksplit|5.003070|
hv_magic_check||in
hv_magic||
hv_name_set|5.009003|
hv_notallowed||
hv_placeholder_get|5.009003|
hv_placeholder_p||
hv_placeholder_set|5.009003|
hv_rand_set|5.018000|
hv_riter_p|5.009003|
hv_riter_set|5.009003|
hv_scalar|5.009001|
hv_store_ent|5.003070|
hv_store_flags|5.008000|
hv_stores|5.009004|[p
hv_store||
hv_undef_flags||
hv_undef||
ibcmp_locale|5.004000|
ibcmp_utf8|5.007003|
ibcmp||
incline||
incpush_if_exists||
incpush_use_sep||
incpush||
ingroup||
init_argv_symbols||
init_constants||
init_dbargs||
init_debugger||
init_global_struct||
init_i18n10n|5.006000|
init_i18n14n|5.006000|
magic_methcall
magic_methpack
magic_nextpack
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);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]

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if m{^s*$rccs\s+(Hint|Warning):\s+\(\w+\(?:\w+\w+\)*\)\s*$};

if ($define) {
    if ($define->[1] =~ /^\$/) {
        $define->[1] = $_; 
    }
} else {
    if (exists $API{$define->[0]} & & $define->[1] !~ /^DPPP_\$/) {
        my @n = find_api($define->[1]);
        push @{$depends{$define->[0]}}, @n if @n
    }
    undef $define;
} }
$define = [$1, $2] if m{^\s*#define\s+\(\w+\)?\s+\(\w+\)?\s*$};

if ($function) {
    if (/\$/) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
}
$function = ["$1, "$2] if m{^DPPP_\(\(\w+\)\)\s*$};

$replace = $1 if m{^\s*#s*$rccs\s+Replace\s+\(\d+\)\s+\$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#define\s+\(\w+\)?\s+\(\w+\)?\s+\$rcce\s*$};
$replace{$1} = $2 if m{^\s*#s*$rccs\s+Replace\s+\(\w+\)\s+\$rcce\s*$};

if (m{^\s*#s*$rccs\s+\(\w+\)\s+\$rcce\s*$}) {
    my @d = split /,/, $1;
    my $d;
    for $d (map { s/\s+/g; $_ } split /,/, $3) {
        push @{$depends{$d}}, @d;
    }
}
$need{$1} = 1 if m{^\s*#if\s+defined\(\$\w+\)?\s+\$\_GLOBAL\)?\s*$};
for (values %depends) {
    my %s;
    $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ; $1 : "^\Q$opt{'api-info'}\E$";
    my $todo = $opt{'api-info'}{todo} ? format_version($opt{'api-info'}{todo}) : "5.003";
    print "Supported at least starting from perl-$todo\n";

    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "$base\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo\n";
            print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
            print "Depends on: \", join(’, ‘, @{$depends{$f}}), \\n" if exists $depends{$f};
            print "\nShints\n" if exists $Shints{$f};
            print "\n\nWARNING: \n\nWarnings\n" if exists $Warnings{$f};
            $info++;
        }
        print "No portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'api-info'}'.\n";
    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $Shints{$f};
        push @flags, 'warning'  if exists $Warnings{$f};
        my $flags = @flags ? [join(’, ‘, @flags)] : "";
        print "$flags\n";
    }
    exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}

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die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {

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$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';

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for (@{$_[0]}) {
    $files{$_}[needs] = 'extern' if $_ ne $target;
}

for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if (API{$func}{varargs}) {
            unless (API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\bPerl_$func\s*\(\s*\(?!aTHX_\?\)?(?!aTHX_\?)(<?,*)\(\$\)*\)}}{
                    $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_' . $2 )ge); 
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += $c =~ s{\bPerl_$func\s*\(\s*\(?!aTHX_\?\)?(<?,*)\(\$\)*\)}}{
                $func$1(\$\)}g;
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of replace{$func}");
        $file{changes} += $c =~ s{\b$func\b}/replace{$func}/g;
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}[$func]) {
            if (exists $file{uses_deps}[$func]) {
                diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}[$func]}));
            } else {
                diag("Uses $func");
            }
        }
    }
}
$warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with 'ppport' un";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    }
    elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_$func\$GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_$func\$GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_$func\$GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\$GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";
for $func (sort keys %{$file{needs}}) { 
  my $type = $file{needs}[$func];
  next if $type eq 'extern';
  my $suffix = $type eq 'global' ? '_GLOBAL' : '';
  unless (exists $file{"needed_$type"}[$func]) {
    if ($type eq 'global') {
      diag("Files [@{ $global{needs}[$func] } need $func, adding global request");
    } else {
      diag("File needs $func, adding static request");
    }
    $pp .= "#define NEED_$func$suffix\n";
  }
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
  $pp = "";
  $file{changes}++;
}

unless ($file{has_inc_ppport}) {
  diag("Needs to include '$ppport'");
  $pp .= qq(#include "$ppport\n")
}

if ($pp) {
  $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)$/\1$pp/ms) 
    || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E.*)$/\1$pp/m) 
    || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)$/\1$pp/m) 
    || ($c =~ s/^/$pp/);
} else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/\^/$pp/); 
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
}
my $s = $cppc != 1 ? 's' : '';
warning("Uses $cppc C++ style comment$s, which is not portable");

my $s = $warnings != 1 ? 's' : ''; my $warn = $warnings ? " ($warnings warning$s)" : ''; info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(*PATCH, $filename, $c);
        }
    }
}
else {
    fallback:
        info("Suggested changes:");
        mydiff("STDOUT", $filename, $c);
    }
    }
else {
    my $s = $file{changes} == 1 ? '?': 's';
    info("$file{changes} potentially required change$s detected");
    }
}
else {
    info("Looks good");
}
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_.;"; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;  
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }
}
if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;  
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/Q$tmp\E/file.patched/;
                $diff .= ";
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        unlink $tmp;
    } else {
        error("Cannot open '$tmp' for writing: $!;");
    }

    return undef;
}

sub rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    }
return () if $seen->{$func}++;
my %s;
grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
my $ver = shift;

if ($ver =~ /^\d+(\d+).(\d+).$/) {
    return ($1, $2, $3);
}
elif ($ver !~ /^\d+\[\d_]+$/) {
    die "cannot parse version $ver\n";
}

$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\d+.\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version $ver\n";
    }
}

return ($r, $v, $s);
}

sub format_version
{
my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+.\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version $ver\n";
    }
    $s /= 10;
}
$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_%02d", $s;

return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}

sub error
{
print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn =~ s!^!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
    my $hint = $hints{$func};
$hint =~ s/^/   /mg;
print "   --- hint for $func ---\n", $hint;
}
$rv;

sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^\(.*?\)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/\d\d\d+perl\s+$X $0/;
$usage =~ s/[A-Z]<(\^[\^]*))/\$/MS[$1]\$/g;

print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}

sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^\(.*\)\s*^=/ms;
$copy =~ s/^(?=\S+)/    /gms;
$self =~ s/$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (@ARGV && $ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\n";
if (eval $Devel::PPPort::VERSION < $VERSION) {
  die "$0 was originally generated with Devel::PPPort $VERSION.\n"
  . "Your Devel::PPPort is only version $Devel::PPPort::VERSION.\n"
  . "Please install a newer version, or --unstrip will not work.\n";
}
Devel::PPPort::WriteFile($0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of $0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:
Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

Data::Dumper - stringified perl data structures, suitable for both printing and C<eval>

=head1 SYNOPSIS

use Data::Dumper;

# simple procedural interface
print Dumper($foo, $bar);

# extended usage with names
print Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);

# configuration variables
{
  local $Data::Dumper::Purity = 1;
  eval Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);

# oo usage

```perl
$d = Data::Dumper->new([[$foo, $bar], [qw(foo *ary)]]);
...
print $d->Dump;
...
$d->Purity(1)->Terse(1)->Deepcopy(1);
eval $d->Dump;
```

=head1 DESCRIPTION

Given a list of scalars or reference variables, writes out their contents in perl syntax. The references can also be objects. The content of each variable is output in a single Perl statement. Handles self-referential structures correctly.

The return value can be C<eval>ed to get back an identical copy of the original reference structure. (Please do consider the security implications of eval'ing code from untrusted sources!)

Any references that are the same as one of those passed in will be named C<$VAR>I<n> (where I<n> is a numeric suffix), and other duplicate references to substructures within C<$VAR>I<n> will be appropriately labeled using arrow notation. You can specify names for individual values to be dumped if you use the C<Dump()> method, or you can change the default C<$VAR> prefix to something else. See C<$Data::Dumper::Varname> and C<$Data::Dumper::Terse> below.

The default output of self-referential structures can be C<eval>ed, but the nested references to C<$VAR>I<n> will be undefined, since a recursive structure cannot be constructed using one Perl statement. You should set the C<Purity> flag to 1 to get additional statements that will correctly fill in these references. Moreover, if C<eval>ed when strictures are in effect, you need to ensure that any variables it accesses are previously declared.

In the extended usage form, the references to be dumped can be given user-specified names. If a name begins with a C<*>, the output will describe the dereferenced type of the supplied reference for hashes and arrays, and coderefs. Output of names will be avoided where possible if the C<Terse> flag is set.

In many cases, methods that are used to set the internal state of the object will return the object itself, so method calls can be conveniently chained together.

Several styles of output are possible, all controlled by setting
the C<Indent> flag. See L<Configuration Variables or Methods> below for details.

=head2 Methods

=over 4

=item I<PACKAGE>-&gt;new(I<ARRAYREF [>, I<ARRAYREF]>)

Returns a newly created C<Data::Dumper> object. The first argument is an anonymous array of values to be dumped. The optional second argument is an anonymous array of names for the values. The names need not have a leading C<$> sign, and must be comprised of alphanumeric characters. You can begin a name with a C<*name*> to specify that the dereferenced type must be dumped instead of the reference itself, for ARRAY and HASH references.

The prefix specified by C<$Data::Dumper::Varname> will be used with a numeric suffix if the name for a value is undefined.

Data::Dumper will catalog all references encountered while dumping the values. Cross-references (in the form of names of substructures in perl syntax) will be inserted at all possible points, preserving any structural interdependencies in the original set of values. Structure traversal is depth-first, and proceeds in order from the first supplied value to the last.

=item I<SOBJ>-&gt;Dump or I<PACKAGE>-&gt;Dump(I<ARRAYREF [>, I<ARRAYREF>])

Returns the stringified form of the values stored in the object (preserving the order in which they were supplied to C<new>), subject to the configuration options below. In a list context, it returns a list of strings corresponding to the supplied values.

The second form, for convenience, simply calls the C<new> method on its arguments before dumping the object immediately.

=item I<SOBJ>-&gt;Seen(I<[HASHREF]>)

Queries or adds to the internal table of already encountered references. You must use C<Reset> to explicitly clear the table if needed. Such references are not dumped; instead, their names are inserted wherever they are encountered subsequently. This is useful especially for properly dumping subroutine references.

Expects an anonymous hash of name =&gt; value pairs. Same rules apply for names as in C<new>. If no argument is supplied, will return the "seen" list of name =&gt; value pairs, in a list context. Otherwise, returns the object
Queries or replaces the internal array of values that will be dumped. When called without arguments, returns the values as a list. When called with a reference to an array of replacement values, returns the object itself. When called with any other type of argument, dies.

Queries or replaces the internal array of user supplied names for the values that will be dumped. When called without arguments, returns the names. When called with an array of replacement names, returns the object itself. If the number of replacement names exceeds the number of values to be named, the excess names will not be used. If the number of replacement names falls short of the number of values to be named, the list of replacement names will be exhausted and remaining values will not be renamed. When called with any other type of argument, dies.

Clears the internal table of "seen" references and returns the object itself.

Returns the stringified form of the values in the list, subject to the configuration options below. The values will be named \$VAR\$n in the output, where \$n\$ is a numeric suffix. Will return a list of strings in a list context.

Several configuration variables can be used to control the kind of output generated when using the procedural interface. These variables are usually \$local\$ized in a block so that other parts of the code are not affected by the change.

These variables determine the default state of the object created by calling
the C<new> method, but cannot be used to alter the state of the object thereafter. The equivalent method names should be used instead to query or set the internal state of the object.

The method forms return the object itself when called with arguments, so that they can be chained together nicely.

=over 4

=item *

$Data::Dumper::Indent  I<or>  I<$OBJ>->Indent(I<[NEWVAL]>)

Controls the style of indentation. It can be set to 0, 1, 2 or 3. Style 0 spews output without any newlines, indentation, or spaces between list items. It is the most compact format possible that can still be called valid perl. Style 1 outputs a readable form with newlines but no fancy indentation (each level in the structure is simply indented by a fixed amount of whitespace). Style 2 (the default) outputs a very readable form which takes into account the length of hash keys (so the hash value lines up). Style 3 is like style 2, but also annotates the elements of arrays with their index (but the comment is on its own line, so array output consumes twice the number of lines). Style 2 is the default.

=item *

$Data::Dumper::Trailingcomma  I<or>  I<$OBJ>->Trailingcomma(I<[NEWVAL]>)

Controls whether a comma is added after the last element of an array or hash. Even when true, no comma is added between the last element of an array or hash and a closing bracket when they appear on the same line. The default is false.

=item *

$Data::Dumper::Purity  I<or>  I<$OBJ>->Purity(I<[NEWVAL]>)

Controls the degree to which the output can be C<eval>ed to recreate the supplied reference structures. Setting it to 1 will output additional perl statements that will correctly recreate nested references. The default is 0.

=item *

$Data::Dumper::Pad  I<or>  I<$OBJ>->Pad(I<[NEWVAL]>)

Specifies the string that will be prefixed to every line of the output. Empty string by default.
=item *

$Data::Dumper::Varname  I<or>  I<$OBJ>-&gt;Varname(I<NEWVAL>)

Contains the prefix to use for tagging variable names in the output. The
default is "VAR".

=item *

$Data::Dumper::Useqq  I<or>  I<$OBJ>-&gt;Useqq(I<NEWVAL>)

When set, enables the use of double quotes for representing string values.
Whitespace other than space will be represented as C&lt;\n\t\r&gt;, "unsafe"
characters will be backslashed, and unprintable characters will be output as
quoted octal integers. The default is 0.

=item *

$Data::Dumper::Terse  I<or>  I<$OBJ>-&gt;Terse(I<NEWVAL>)

When set, Data::Dumper will emit single, non-self-referential values as
atoms/terms rather than statements. This means that the C&lt;$VAR&gt;I&lt;n&gt; names
will be avoided where possible, but be advised that such output may not
always be parseable by C&lt;eval&gt;.

=item *

$Data::Dumper::Freezer  I<or>  I<$OBJ>-&gt;Freezer(I<NEWVAL>)

Can be set to a method name, or to an empty string to disable the feature.
Data::Dumper will invoke that method via the object before attempting to
stringify it. This method can alter the contents of the object (if, for
instance, it contains data allocated from C), and even rebless it in a
different package. The client is responsible for making sure the specified
method can be called via the object, and that the object ends up containing
only perl data types after the method has been called. Defaults to an empty
string.

If an object does not support the method specified (determined using
UNIVERSAL::can()) then the call will be skipped. If the method dies a
warning will be generated.

=item *

$Data::Dumper::Toaster  I<or>  I<$OBJ>-&gt;Toaster(I<NEWVAL>)

Can be set to a method name, or to an empty string to disable the feature.
Data::Dumper will emit a method call for any objects that are to be dumped using the syntax `C<bless(DATA, CLASS)-E<gt>METHOD()>`. Note that this means that the method specified will have to perform any modifications required on the object (like creating new state within it, and/or reblessing it in a different package) and then return it. The client is responsible for making sure the method can be called via the object, and that it returns a valid object. Defaults to an empty string.

=item *

`$Data::Dumper::Deepcopy  I<or>  $I<OBJ>-Deepcopy(I<[NEWVAL]>)`

Can be set to a boolean value to enable deep copies of structures. Cross-referencing will then only be done when absolutely essential (i.e., to break reference cycles). Default is 0.

=item *

`$Data::Dumper::Quotekeys  I<or>  $I<OBJ>-Quotekeys(I<[NEWVAL]>)`

Can be set to a boolean value to control whether hash keys are quoted. A defined false value will avoid quoting hash keys when it looks like a simple string. Default is 1, which will always enclose hash keys in quotes.

=item *

`$Data::Dumper::Bless  I<or>  $I<OBJ>-Bless(I<[NEWVAL]>)`

Can be set to a string that specifies an alternative to the `C<bless>` builtin operator used to create objects. A function with the specified name should exist, and should accept the same arguments as the builtin. Default is `C<bless>`.

=item *

`$Data::Dumper::Pair  I<or>  $I<OBJ>-Pair(I<[NEWVAL]>)`

Can be set to a string that specifies the separator between hash keys and values. To dump nested hash, array and scalar values to JavaScript, use: `C<$Data::Dumper::Pair = \': \';>`. Implementing `C<bless>` in JavaScript is left as an exercise for the reader. A function with the specified name exists, and accepts the same arguments as the builtin.

Default is: `C< =E<gt> >`. 

=item *
$Data::Dumper::Maxdepth  I<or>  $I<OBJ>->Maxdepth(I<NEWVAL>)

Can be set to a positive integer that specifies the depth beyond which we don't venture into a structure. Has no effect when $Data::Dumper::Purity is set. (Useful in debugger when we often don't want to see more than enough). Default is 0, which means there is no maximum depth.

=item *

$Data::Dumper::Maxrecurse  I<or>  $I<OBJ>->Maxrecurse(I<NEWVAL>)

Can be set to a positive integer that specifies the depth beyond which recursion into a structure will throw an exception. This is intended as a security measure to prevent perl running out of stack space when dumping an excessively deep structure. Can be set to 0 to remove the limit. Default is 1000.

=item *

$Data::Dumper::Useperl  I<or>  $I<OBJ>->Useperl(I<NEWVAL>)

Can be set to a boolean value which controls whether the pure Perl implementation of $Data::Dumper is used. The $Data::Dumper module is a dual implementation, with almost all functionality written in both pure Perl and also in XS ('C'). Since the XS version is much faster, it will always be used if possible. This option lets you override the default behavior, usually for testing purposes only. Default is 0, which means the XS implementation will be used if possible.

=item *

$Data::Dumper::Sortkeys  I<or>  $I<OBJ>->Sortkeys(I<NEWVAL>)

Can be set to a boolean value to control whether hash keys are dumped in sorted order. A true value will cause the keys of all hashes to be dumped in Perl's default sort order. Can also be set to a subroutine reference which will be called for each hash that is dumped. In this case $Data::Dumper will call the subroutine once for each hash, passing it the reference of the hash. The purpose of the subroutine is to return a reference to an array of the keys that will be dumped, in the order that they should be dumped. Using this feature, you can control both the order of the keys, and which keys are actually used. In other words, this subroutine acts as a filter by which you can exclude certain keys from being dumped. Default is 0, which means that hash keys are not sorted.

=item *
Can be set to a boolean value to control whether code references are turned into Perl source code. If set to a true value, `B::Deparse` will be used to get the source of the code reference. Using this option will force using the Perl implementation of the dumper, since the fast XSUB implementation doesn't support it.

Caution: use this option only if you know that your coderefs will be properly reconstructed by `B::Deparse`.

By default, `Data::Dumper` builds up the "seen" hash of scalars that it has encountered during serialization. This is very expensive. This seen hash is necessary to support and even just detect circular references. It is exposed to the user via the `C<Seen()>` call both for writing and reading.

If you, as a user, do not need explicit access to the "seen" hash, then you can set the `C<Sparseseen>` option to allow `Data::Dumper` to eschew building the "seen" hash for scalars that are known not to possess more than one reference. This speeds up serialization considerably if you use the XS implementation.

Note: If you turn on `C<Sparseseen>`, then you must not rely on the content of the seen hash since its contents will be an implementation detail!

Run these code snippets to get a quick feel for the behavior of this module. When you are through with these examples, you may want to add or change the various configuration variables described above, to see their behavior. (See the testsuite in the `Data::Dumper`
use Data::Dumper;

package Foo;
sub new {bless { 'a' => 1, 'b' => sub { return "foo" } }, $_[0]};

package Fuz;                       # a weird REF-REF-SCALAR object
sub new {bless \$_ = \'fu\z', $_[0]};

package main;
$foo = Foo->new;
$fuz = Fuz->new;
$boo = [ 1, [], "abcd", \*foo,
       { 1 => 'a', 023 => 'b', 0x45 => 'c'},
       \"p\q\r", $foo, $fuz];

########
# simple usage
########

$bar = eval(Dumper($boo));
print($@) if $@;
print Dumper($boo), Dumper($bar);  # pretty print (no array indices)

$Data::Dumper::Terse = 1;        # don't output names where feasible
$Data::Dumper::Indent = 0;       # turn off all pretty print
print Dumper($boo), "\n";

$Data::Dumper::Indent = 1;       # mild pretty print
print Dumper($boo);               

$Data::Dumper::Indent = 3;       # pretty print with array indices
print Dumper($boo);               

$Data::Dumper::Useqq = 1;        # print strings in double quotes
print Dumper($boo);               

$Data::Dumper::Pair = " : ";     # specify hash key/value separator
print Dumper($boo);               

########
# recursive structures
########

@c = ('c');
```perl
$c = \@c;
$b = {}
$a = [1, $b, $c];
$b->{a} = $a;
$b->{b} = $a->[1];
$b->{c} = $a->[2];
print Data::Dumper->Dump([$a,$b,$c], [qw(a b c)]);

$Data::Dumper::Purity = 1;         # fill in the holes for eval
print Data::Dumper->Dump([$a, $b], [qw(*a b)]); # print as @a
print Data::Dumper->Dump([$b, $a], [qw(*b a)]); # print as %b

$Data::Dumper::Deepcopy = 1;       # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

$Data::Dumper::Purity = 0;         # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

########
# deep structures
########
$a = "pearl";
$b = [ $a ];
$c = { 'b' => $b };          
$d = [ $c ];
$e = [ 'd' => $d ];
$f = { 'e' => $e };          
print Data::Dumper->Dump([$f], [qw(f)]);

$Data::Dumper::Maxdepth = 3;       # no deeper than 3 refs down
print Data::Dumper->Dump([$f], [qw(f)]);

########
# object-oriented usage
########
$dd = Data::Dumper->new([$a,$b], [qw(a b)]);
$dd->Seen({'*c' => $c});            # stash a ref without printing it
$dd->Indent(3);
print $dd->Dump;
$dd->Reset->Purity(0);              # empty the seen cache
print join "----
", $dd->Dump;
```
package Foo;
sub new { bless { state => 'awake' }, shift }
sub Freeze {
    my $s = shift;
    print STDERR "preparing to sleep\n";
    $s->{state} = 'asleep';
    return bless $s, 'Foo::ZZZ';
}

package Foo::ZZZ;
sub Thaw {
    my $s = shift;
    print STDERR "waking up\n";
    $s->{state} = 'awake';
    return bless $s, 'Foo';
}

package main;
use Data::Dumper;
$a = Foo->new;
$b = Data::Dumper->new([$a], ['c']);
$b->Freeze('Freeze');
$b->Toaster('Thaw');
$c = $b->Dump;
print $c;
$d = eval $c;
print Data::Dumper->Dump([$d], ['d']);

sub foo { print "foo speaking\n" }
*other = \&foo;
$bar = [ \&other ];
$d = Data::Dumper->new([\&other,$bar],["other","bar"]);
$d->Seen({ "+foo' => \&foo });
print $d->Dump;

# sorting and filtering hash keys
$Data::Dumper::Sortkeys = \&my_filter;
my $foo = { map { (ord, "$_$_$_") } 'I'..'Q' };
my $bar = { %$foo };
my $baz = { reverse %$foo };
print Dumper [ $foo, $bar, $baz ];

sub my_filter {
    my ($hash) = @_;  
    # return an array ref containing the hash keys to dump
    # in the order that you want them to be dumped
    return [
        # Sort the keys of %$foo in reverse numeric order
        $hash eq $foo ? (sort {$b <=> $a} keys %$hash) :
        # Only dump the odd number keys of %$bar
        $hash eq $bar ? (grep {$_ % 2} keys %$hash) :
        # Sort keys in default order for all other hashes
        (sort keys %$hash)
    ];
}

=head1 BUGS

Due to limitations of Perl subroutine call semantics, you cannot pass an
array or hash.  Prepend it with a C\<\> to pass its reference instead.  This
will be remedied in time, now that Perl has subroutine prototypes.
For now, you need to use the extended usage form, and prepend the
name with a C\<*> to output it as a hash or array.

C\<Data::Dumper\> cheats with CODE references.  If a code reference is
encountered in the structure being processed (and if you haven't set
the C\<Deparse\> flag), an anonymous subroutine that
contains the string "DUMMY" will be inserted in its place, and a warning
will be printed if C\<Purity\> is set.  You can C\<eval\> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
Someday, perl will have a switch to cache-on-demand the string
representation of a compiled piece of code, I hope.  If you have prior
knowledge of all the code refs that your data structures are likely
to have, you can use the C\<Seen\> method to pre-seed the internal reference
table and make the dumped output point to them, instead.  See L\<EXAMPLES\>
above.

The C\<Deparse\> flag makes Dump() run slower, since the XSUB
implementation does not support it.

SCALAR objects have the weirdest looking C\<bless\> workaround.
Pure Perl version of C<Data::Dumper> escapes UTF-8 strings correctly only in Perl 5.8.0 and later.

=head2 NOTE

Starting from Perl 5.8.1 different runs of Perl will have different ordering of hash keys. The change was done for greater security, see L<perlsec/"Algorithmic Complexity Attacks">. This means that different runs of Perl will have different Data::Dumper outputs if the data contains hashes. If you need to have identical Data::Dumper outputs from different runs of Perl, use the environment variable PERL_HASH_SEED, see L<perlrun/PERL_HASH_SEED>. Using this restores the old (platform-specific) ordering: an even prettier solution might be to use the C<Sortkeys> filter of Data::Dumper.

=head1 AUTHOR

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=head1 VERSION

Version 2.161  (July 11 2016)

=head1 SEE ALSO

perl(1)

=cut

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1.4514 jackson 2.1.1

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Manifest-Version: 1.0
Export-Package: com.fasterxml.jackson.core;version="2.1.1",com.fasterxml.jackson.core.io;version="2.1.1",com.fasterxml.jackson.core.json;version="2.1.1",com.fasterxml.jackson.core.util;version="2.1.1",com.fasterxml.jackson.core.base;version="2.1.1",com.fasterxml.jackson.core.s
ym;version="2.1.1",com.fasterxml.jackson.core.type;version="2.1.1",com
m.fasterxml.jackson.core.format;version="2.1.1"
Implementation-Title: Jackson-core
Built-By: tsaloranta
Implementation-Build-Date: 2012-11-11 15:46:22-0800
Tool: Bnd-1.50.0
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.jackson.core
Specification-Title: Jackson-core
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.fasterxml.jackson.core.jackson-core
X-Compile-Target-JDK: 1.5
Implementation-Version: 2.1.1
Specification-Vendor: FasterXML
Bundle-Name: Jackson-core
Created-By: Apache Maven Bundle Plugin
X-Compile-Source-JDK: 1.5
Bundle-Vendor: FasterXML
Build-Jdk: 1.6.0_37
Bundle-Version: 2.1.1
Bnd-LastModified: 1352677595911
Bundle-ManifestVersion: 2
Bundle-Description: Core Jackson abstractions, basic JSON streaming AP
I implementation
Bundle-DocURL: http://wiki.fasterxml.com/JacksonHome
Specification-Version: 2.1.1
Include-Resource: {com/fasterxml/jackson/core/json/VERSION.txt=src/mai
n/resources/com/fasterxml/jackson/core/json/VERSION.txt}, {META-INF/se
rvices/com.fasterxml.jackson.core.JsonFactory=src/main/resources/META
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
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package spec

import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------
This is Debian GNU’s prepackaged version of GnuPG, a free PGP replacement.

This package was put together by me, James Troup <james@nocrew.org>, from the sources, which I obtained from ftp://ftp.gnupg.org/pub/gcrypt/gnupg/gnupg-1.0.5.tar.gz. The changes were minimal, namely:

- adding support for the Debian package maintenance scheme, by adding various debian/* files.


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Julian Seward, jseward@bzip.org
bzip2/libbzlib version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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1.4537 @babel/plugin-transform-function-name 7.18.6

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jar/org/apache/commons/digester/FactoryCreateRule.java
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/* $Id: LoaderFromClass.java 472842 2006-11-09 10:19:56Z skitching $ */
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  jar/org/apache/commons/digester/plugins/strategies/LoaderFromClass.java
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/* $Id: SetNestedPropertiesRule.java 472836 2006-11-09 10:06:56Z skitching $ */
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/* $Id: SetNextRule.java 471661 2006-11-06 08:09:25Z skitching $ */

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1.4541 has-symbols 1.0.3

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1.4542 libboost-atomic1.67.0 1.67.0-13+deb10u1

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(acg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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:toc-title:
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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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1.4543 pax-utils 1.2.6-r0

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   Written by Eric Blake <ebb9@byu.net>, 2008.

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/* Before including this file, you need to include <config.h> and
   <string.h>, and define:
   RETURN_TYPE            A macro that expands to the return type.
   AVAILABLE(h, h_l, j, n_l)
   A macro that returns nonzero if there are
   at least N_L bytes left starting at H[J].
   H is 'unsigned char *', H_L, J, and N_L
   are 'size_t'; H_L is an lvalue. For
   NUL-terminated searches, H_L can be
   modified each iteration to avoid having
   to compute the end of H up front.

   For case-insensitivity, you may optionally define:
CMP_FUNC(p1, p2, l)     A macro that returns 0 iff the first L
caracters of P1 and P2 are equal.

CANON_ELEMENT(c)        A macro that canonicalizes an element right after
it has been fetched from one of the two strings.
The argument is an 'unsigned char'; the result
must be an 'unsigned char' as well.

This file undefines the macros documented above, and defines
LONG_NEEDLE_THRESHOLD.
*/

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#   http://code.google.com/legal/individual-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
#   Individual's name <submission email address>
#   Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

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1.4546 shimmer 1.2.1

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1.4548 @babel/helper-split-export-declaration

7.16.7

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1.4560 shallowequal 1.1.0

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Gocheck - A rich testing framework for Go

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1.4588 oro 2.0.8

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* */
/**
 * Determines if the contents of a PatternMatcherInput, starting from the
 * current offset of the input contains a pattern.
If a pattern match is found, a MatchResult instance representing the first such match is made accessible via
{@link #getMatch()}. The current offset of the PatternMatcherInput is set to the offset corresponding to the end of the match, so that a subsequent call to this method will continue searching where the last call left off. You should remember that the region between the begin and end offsets of the PatternMatcherInput are considered the input to be searched, and that the current offset of the PatternMatcherInput reflects where a search will start from.

Matches extending beyond the end offset of the PatternMatcherInput will not be matched. In other words, a match must occur entirely between the begin and end offsets of the input. See
{@link org.apache.oro.text.regex.PatternMatcherInput PatternMatcherInput} for more details.

As a side effect, if a match is found, the PatternMatcherInput match offset information is updated. See the PatternMatcherInput
{@link org.apache.oro.text.regex.PatternMatcherInput#setMatchOffsets setMatchOffsets(int, int)} method for more details.

The pattern must be an AwkPattern instance, otherwise a ClassCastException will be thrown. You are not required to, and indeed should NOT try to (for performance reasons), catch a ClassCastException because it will never be thrown as long as you use an AwkPattern as the pattern parameter.

This method is usually used in a loop as follows:

```
PatternMatcher matcher;
PatternCompiler compiler;
Pattern pattern;
PatternMatcherInput input;
MatchResult result;

compiler = new AwkCompiler();
matcher = new AwkMatcher();

try {
  pattern = compiler.compile(somePatternString);
} catch(MalformedPatternException e) {
  System.err.println("Bad pattern.");
  System.err.println(e.getMessage());
  return;
}

input = new PatternMatcherInput(someStringInput);

while(matcher.contains(input, pattern)) {
```
```
* result = matcher.getMatch();
* // Perform whatever processing on the result you want.
* }
*
* </pre></blockquote>
* <p>
* @param input  The PatternMatcherInput to test for a match.
* @param pattern  The Pattern to be matched.
* @return True if the input contains a pattern match, false otherwise.
* @exception ClassCastException If a Pattern instance other than an
*         AwkPattern is passed as the pattern parameter.
*/

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/*

Found in path(s):
* /opt/cola/permits/1136703427_1613865017.18/0/classworlds-1-1-sources-4-jar/org/codehaus/classworlds/uberjar/protocol/jar/JarUrlConnection.java
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/opt/cola/permits/1136703427_1613865017.18/0/classworlds-1-1-sources-4-jar/org/codehaus/classworlds/DefaultClassRealm.java
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/*
$Id: ConfigurationException.java 78 2004-07-01 13:59:13Z jvanzyl $

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$Id: EmbeddedLauncher.java 78 2004-07-01 13:59:13Z jvanzyl $

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* /opt/cola/permits/1136703427_1613865017.18/0/classworlds-1-1-sources-4-jar/org/codehaus/classworlds/EmbeddedLauncher.java
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/*

$Id: RealmClassLoader.java 114 2005-07-03 15:21:02Z jvanzyl $

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/*
$Id: ClassWorld.java 78 2004-07-01 13:59:13Z jvanzyl $

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/*
$Id: ClassRealm.java 94 2004-08-09 22:00:16Z jvanzyl $

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/*
$Id: InitialClassLoader.java 78 2004-07-01 13:59:13Z jvanzyl$

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Found in path(s):
* /opt/cola/permits/1136703427_1613865017.18/0/classworlds-1-1-sources-4-jar/org/codehaus/classworlds/uberjar/boot/InitialClassLoader.java
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/*
$Id: Launcher.java 108 2004-11-02 18:41:08Z mhw $

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/*
$Id: Entry.java 89 2004-07-18 00:40:00Z dandiep $

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1.4598 libboost-serialization1.67.0 1.67.0-13+deb10u1
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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

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The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

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Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(\.\)*\( All rights reserved\)\(.*\)\n(//|#) Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.\n\)`

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {

err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error { 
if skip[path] { 
return nil
}

if err != nil { 
return err
}

if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" { 
return nil
}

src, err := ioutil.ReadFile(path)
if err != nil { 
return nil
}

// Verify that the license is matched.
if !sentinel.Match(src) { 
t.Errorf("%v: license header not present", path)
return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) { 
t.Errorf("%v: license header not at the top", path)
return nil
}))
if err != nil { 
t.Fatal(err)

1.4601 maven-builder-support 3.5.4

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1.4604 secure-compare 3.0.1

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# secure-compare

Constant-time comparison algorithm to prevent timing attacks for Node.js.
Copied from [cryptiles](https://github.com/hapijs/cryptiles) by [C J Silverio](https://github.com/ceejbot).

```javascript
var compare = require('secure-compare');

compare('hello world', 'hello world').should.equal(true);
compare('', '').should.equal(true);
compare('hello', 'not hello').should.equal(false);
```

### Tests

```
$ npm test
```

### License
secure-compare is released under the MIT license.

Found in path(s):
* /opt/cola/permits/1274516898_1645212835.82/0/secure-compare-3-0-1-tgz/package/README.md

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1.4607 maven-model 2.0.9

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1.4609 @babel/plugin-transform-classes

7.18.6

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1.4610 graceful-fs 4.2.10

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1.4611 python-stdlib-extensions 3.7.3-1

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1.4612 commons-lang3 3.8.1

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.4623 gax-go 2.0.5

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1.4628 sorted-object 2.0.1

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---
abstract: 'Perl interface to the MD-5 algorithm'
author:  
- 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by:  'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Digest-MD5
no_index:
directory:
  - t
  - inc
requires:
  Digest::base: '1.00'
  XSLoader: '0'
  perl: '5.006'
resources:
  repository: https://github.com/gisle/digest-md5
version: '2.55'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548130_1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/META.yml

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Network Working Group R. Rivest
Request for Comments: 1321 MIT Laboratory for Computer Science
The MD5 Message-Digest Algorithm

Status of this Memo

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1. Executive Summary

This document describes the MD5 message-digest algorithm. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. It is conjectured that it is computationally infeasible to produce two messages having the same message digest, or to produce any message having a given prespecified target message digest. The MD5 algorithm is intended for digital signature applications, where a large file must be "compressed" in a secure manner before being encrypted with a private (secret) key under a public-key cryptosystem such as RSA.
The MD5 algorithm is designed to be quite fast on 32-bit machines. In addition, the MD5 algorithm does not require any large substitution tables; the algorithm can be coded quite compactly.

The MD5 algorithm is an extension of the MD4 message-digest algorithm [1,2]. MD5 is slightly slower than MD4, but is more "conservative" in design. MD5 was designed because it was felt that MD4 was perhaps being adopted for use more quickly than justified by the existing critical review; because MD4 was designed to be exceptionally fast, it is "at the edge" in terms of risking successful cryptanalytic attack. MD5 backs off a bit, giving up a little in speed for a much greater likelihood of ultimate security. It incorporates some suggestions made by various reviewers, and contains additional optimizations. The MD5 algorithm is being placed in the public domain for review and possible adoption as a standard.

For OSI-based applications, MD5's object identifier is

md5 OBJECT IDENTIFIER ::=  iso(1) member-body(2) US(840) rsadsi(113549) digestAlgorithm(2) 5

In the X.509 type AlgorithmIdentifier [3], the parameters for MD5 should have type NULL.

2. Terminology and Notation

In this document a "word" is a 32-bit quantity and a "byte" is an eight-bit quantity. A sequence of bits can be interpreted in a natural manner as a sequence of bytes, where each consecutive group of eight bits is interpreted as a byte with the high-order (most significant) bit of each byte listed first. Similarly, a sequence of bytes can be interpreted as a sequence of 32-bit words, where each consecutive group of four bytes is interpreted as a word with the low-order (least significant) byte given first.

Let \( x_i \) denote "\( x \) sub \( i \)". If the subscript is an expression, we surround it in braces, as in \( x_{(i+1)} \). Similarly, we use ^ for superscripts (exponentiation), so that \( x^i \) denotes \( x \) to the i-th power.

Let the symbol "+" denote addition of words (i.e., modulo-2^32 addition). Let \( X <<<< s \) denote the 32-bit value obtained by circularly
shifting (rotating) X left by s bit positions. Let not(X) denote the
bit-wise complement of X, and let X v Y denote the bit-wise OR of X
and Y. Let X xor Y denote the bit-wise XOR of X and Y, and let XY
denote the bit-wise AND of X and Y.

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3. MD5 Algorithm Description

We begin by supposing that we have a b-bit message as input, and that
we wish to find its message digest. Here b is an arbitrary
nonnegative integer; b may be zero, it need not be a multiple of
eight, and it may be arbitrarily large. We imagine the bits of the
message written down as follows:

m_0 m_1 ... m_{b-1}

The following five steps are performed to compute the message digest
of the message.

3.1 Step 1. Append Padding Bits

The message is "padded" (extended) so that its length (in bits) is
congruent to 448, modulo 512. That is, the message is extended so
that it is just 64 bits shy of being a multiple of 512 bits long.
Padding is always performed, even if the length of the message is
already congruent to 448, modulo 512.

Padding is performed as follows: a single "1" bit is appended to the
message, and then "0" bits are appended so that the length in bits of
the padded message becomes congruent to 448, modulo 512. In all, at
least one bit and at most 512 bits are appended.

3.2 Step 2. Append Length

A 64-bit representation of b (the length of the message before the
padding bits were added) is appended to the result of the previous
step. In the unlikely event that b is greater than 2^64, then only
the low-order 64 bits of b are used. (These bits are appended as two
32-bit words and appended low-order word first in accordance with the
previous conventions.)
At this point the resulting message (after padding with bits and with b) has a length that is an exact multiple of 512 bits. Equivalently, this message has a length that is an exact multiple of 16 (32-bit) words. Let M[0 ... N-1] denote the words of the resulting message, where N is a multiple of 16.

3.3 Step 3. Initialize MD Buffer

A four-word buffer (A,B,C,D) is used to compute the message digest. Here each of A, B, C, D is a 32-bit register. These registers are initialized to the following values in hexadecimal, low-order bytes first):

word A: 01 23 45 67
word B: 89 ab cd ef
word C: fe dc ba 98
word D: 76 54 32 10

3.4 Step 4. Process Message in 16-Word Blocks

We first define four auxiliary functions that each take as input three 32-bit words and produce as output one 32-bit word.

\[
\begin{align*}
F(X,Y,Z) &= XY \lor \neg(X) \ Z \\
G(X,Y,Z) &= XZ \land Y \neg(Z) \\
H(X,Y,Z) &= X \oplus Y \oplus Z \\
I(X,Y,Z) &= Y \oplus (X \lor \neg(Z))
\end{align*}
\]

In each bit position F acts as a conditional: if X then Y else Z.
The function F could have been defined using + instead of v since XY and not(X)Z will never have 1’s in the same bit position.) It is interesting to note that if the bits of X, Y, and Z are independent and unbiased, the each bit of F(X,Y,Z) will be independent and unbiased.

The functions G, H, and I are similar to the function F, in that they act in "bitwise parallel" to produce their output from the bits of X, Y, and Z, in such a manner that if the corresponding bits of X, Y, and Z are independent and unbiased, then each bit of G(X,Y,Z),
H(X,Y,Z), and I(X,Y,Z) will be independent and unbiased. Note that the function H is the bit-wise "xor" or "parity" function of its inputs.

This step uses a 64-element table T[1 ... 64] constructed from the sine function. Let T[i] denote the i-th element of the table, which is equal to the integer part of 4294967296 times \( \text{abs} (\sin(i)) \), where \( i \) is in radians. The elements of the table are given in the appendix.

Do the following:

/* Process each 16-word block. */
For i = 0 to N/16-1 do

/* Copy block i into X. */
For j = 0 to 15 do
   Set X[j] to M[i*16+j].
end /* of loop on j */

/* Save A as AA, B as BB, C as CC, and D as DD. */
AA = A
BB = B

CC = C
DD = D

/* Round 1. */
/* Let [abcd k s i] denote the operation
   \[ a = b + ((a + F(b,c,d) + X[k] + T[i]) \ll s) \]. */
/* Do the following 16 operations. */
[ABCD 0 7 1] [DABC 1 12 2] [CDAB 2 17 3] [BCDA 3 22 4]
[ABCD 4 7 5] [DABC 5 12 6] [CDAB 6 17 7] [BCDA 7 22 8]
[ABCD 8 7 9] [DABC 9 12 10] [CDAB 10 17 11] [BCDA 11 22 12]
[ABCD 12 7 13] [DABC 13 12 14] [CDAB 14 17 15] [BCDA 15 22 16]

/* Round 2. */
/* Let [abcd k s i] denote the operation
   \[ a = b + ((a + G(b,c,d) + X[k] + T[i]) \ll s) \]. */
/* Do the following 16 operations. */
[ABCD 1 5 17] [DABC 6 9 18] [CDAB 11 14 19] [BCDA 0 20 20]
[ABCD 5 5 21] [DABC 10 9 22] [CDAB 15 14 23] [BCDA 4 20 24]
/* Round 3. */
/* Let \[abcd k s t\] denote the operation
   \[a = b + ((a + H(b,c,d) + X[k] + T[i]) <<< s)\]. */
/* Do the following 16 operations. */
[ABCD  5  4 33]  [DABC  8 11 34]  [CDAB 11 16 35]  [BCDA 14 23 36]
[ABCD  1  4 37]  [DABC  4 11 38]  [CDAB  7 16 39]  [BCDA 10 23 40]
[ABCD 13  4 41]  [DABC  0 11 42]  [CDAB  3 16 43]  [BCDA  6 23 44]
[ABCD  9  4 45]  [DABC 12 11 46]  [CDAB 15 16 47]  [BCDA  2 23 48]

/* Round 4. */
/* Let \[abcd k s t\] denote the operation
   \[a = b + ((a + I(b,c,d) + X[k] + T[i]) <<< s)\]. */
/* Do the following 16 operations. */
[ABCD  0  6 49]  [DABC  7 10 50]  [CDAB 14 15 51]  [BCDA  5 21 52]
[ABCD 12  6 53]  [DABC  3 10 54]  [CDAB 10 15 55]  [BCDA  1 21 56]
[ABCD  8  6 57]  [DABC 15 10 58]  [CDAB  6 15 59]  [BCDA 13 21 60]
[ABCD  4  6 61]  [DABC 11 10 62]  [CDAB  2 15 63]  [BCDA  9 21 64]

/* Then perform the following additions. (That is increment each
   of the four registers by the value it had before this block
   was started.) */
A = A + AA
B = B + BB
C = C + CC
D = D + DD

end /* of loop on i */

3.5 Step 5. Output

The message digest produced as output is A, B, C, D. That is, we
begin with the low-order byte of A, and end with the high-order byte
of D.

This completes the description of MD5. A reference implementation in
C is given in the appendix.

4. Summary
The MD5 message-digest algorithm is simple to implement, and provides a "fingerprint" or message digest of a message of arbitrary length. It is conjectured that the difficulty of coming up with two messages having the same message digest is on the order of $2^{64}$ operations, and that the difficulty of coming up with any message having a given message digest is on the order of $2^{128}$ operations. The MD5 algorithm has been carefully scrutinized for weaknesses. It is, however, a relatively new algorithm and further security analysis is of course justified, as is the case with any new proposal of this sort.

5. Differences Between MD4 and MD5

The following are the differences between MD4 and MD5:

1. A fourth round has been added.

2. Each step now has a unique additive constant.

3. The function $g$ in round 2 was changed from $(XY \lor XZ \lor YZ)$ to $(XZ \lor Y \land \neg(Z))$ to make $g$ less symmetric.

4. Each step now adds in the result of the previous step. This promotes a faster "avalanche effect”.

5. The order in which input words are accessed in rounds 2 and 3 is changed, to make these patterns less like each other.

6. The shift amounts in each round have been approximately optimized, to yield a faster "avalanche effect.” The shifts in different rounds are distinct.
APPENDIX A - Reference Implementation

This appendix contains the following files taken from RSAREF: A Cryptographic Toolkit for Privacy-Enhanced Mail:

- global.h -- global header file
- md5.h -- header file for MD5
- md5c.c -- source code for MD5

For more information on RSAREF, send email to <rsaref@rsa.com>.

The appendix also includes the following file:

- mddriver.c -- test driver for MD2, MD4 and MD5

The driver compiles for MD5 by default but can compile for MD2 or MD4 if the symbol MD is defined on the C compiler command line as 2 or 4.

The implementation is portable and should work on many different platforms. However, it is not difficult to optimize the implementation on particular platforms, an exercise left to the reader. For example, on "little-endian" platforms where the lowest-addressed byte in a 32-bit word is the least significant and there are no alignment restrictions, the call to Decode in MD5Transform can be replaced with a typecast.

A.1 global.h

/* GLOBAL.H - RSAREF types and constants */

/* PROTOTYPES should be set to one if and only if the compiler supports function argument prototyping. The following makes PROTOTYPES default to 0 if it has not already
been defined with C compiler flags.

*/
#endif

/* POINTER defines a generic pointer type */
typedef unsigned char *POINTER;

/* UINT2 defines a two byte word */
typedef unsigned short int UINT2;

/* UINT4 defines a four byte word */
typedef unsigned long int UINT4;

/* PROTO_LIST is defined depending on how PROTOTYPES is defined above.
If using PROTOTYPES, then PROTO_LIST returns the list, otherwise it
returns an empty list. */
#if PROTOTYPES
#define PROTO_LIST(list) list
#else
#define PROTO_LIST(list) ()
#endif

A.2 md5.h

/* MD5.H - header file for MD5C.C */

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/*

/* MD5 context. */
typedef struct {
    UINT4 state[4];       /* state (ABCD) */
    UINT4 count[2];       /* number of bits, modulo 2^64 (lsb first) */
    unsigned char buffer[64];  /* input buffer */
} MD5_CTX;

void MD5Init PROTO_LIST ((MD5_CTX *));
void MD5Update PROTO_LIST
    ((MD5_CTX *, unsigned char *, unsigned int));
void MD5Final PROTO_LIST ((unsigned char [16], MD5_CTX *));

A.3 md5c.c

/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm */

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#include "global.h"
#include "md5.h"

/* Constants for MD5Transform routine.
 */

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#define S11 7
#define S12 12
#define S13 17
#define S14 22
#define S21 5
#define S22 9
#define S23 14
#define S24 20
#define S31 4
#define S32 11
#define S33 16
#define S34 23
#define S41 6
#define S42 10
#define S43 15
#define S44 21

static void MD5Transform PROTO_LIST ((UINT4 [4], unsigned char [64]));
static void Encode PROTO_LIST
  ((unsigned char *, UINT4 *, unsigned int));
static void Decode PROTO_LIST
  ((UINT4 *, unsigned char *, unsigned int));
static void MD5_memcpy PROTO_LIST ((POINTER, POINTER, unsigned int));
static void MD5_memset PROTO_LIST ((POINTER, int, unsigned int));

static unsigned char PADDING[64] = {

#define F(x, y, z) (((x) & (y)) | ((~x) & (z)))
#define G(x, y, z) (((x) & (z)) | ((y) & (~z)))
#define H(x, y, z) ((x) ^ (y) ^ (z))
#define I(x, y, z) ((y) ^ ((x) | (~z)))

#define ROTATE_LEFT(x, n) (((x) << (n)) | ((x) >> (32-(n))))

#define FF(a, b, c, d, x, s, ac) { 
(a) += F ((b), (c), (d)) + (x) + (UINT4)(ac); 
(a) = ROTATE_LEFT ((a), (s)); 
(a) += (b); 
} 
#define GG(a, b, c, d, x, s, ac) { 
(a) += G ((b), (c), (d)) + (x) + (UINT4)(ac); 
(a) = ROTATE_LEFT ((a), (s)); 
(a) += (b); 
} 
#define HH(a, b, c, d, x, s, ac) { 
(a) += H ((b), (c), (d)) + (x) + (UINT4)(ac); 
(a) = ROTATE_LEFT ((a), (s)); 
(a) += (b); 
} 
#define II(a, b, c, d, x, s, ac) { 
(a) += I ((b), (c), (d)) + (x) + (UINT4)(ac); 
(a) = ROTATE_LEFT ((a), (s)); 
(a) += (b); 
}
/* MD5 initialization. Begins an MD5 operation, writing a new context. */
void MD5Init (context)
MD5_CTX *context; /**< context */
{
    context->count[0] = context->count[1] = 0;
    /* Load magic initialization constants. */
    context->state[0] = 0x67452301;
    context->state[1] = 0xefcdab89;
    context->state[2] = 0x98badcfe;
    context->state[3] = 0x10325476;
}

/* MD5 block update operation. Continues an MD5 message-digest operation, processing another message block, and updating the context. */
void MD5Update (context, input, inputLen)
MD5_CTX *context; /**< context */
unsigned char *input; /**< input block */
unsigned int inputLen; /**< length of input block */
{
    unsigned int i, index, partLen;
    /* Compute number of bytes mod 64 */
    index = (unsigned int)((context->count[0] >> 3) & 0x3F);
    /* Update number of bits */
    if ((context->count[0] += ((UINT4)inputLen << 3))
        context->count[1]++;*
            context->count[1] += ((UINT4)inputLen >> 29);
          partLen = 64 - index;
          /* Transform as many times as possible. */
          if (inputLen >= partLen) {
              MD5_memcpy
MD5Transform (context->state, context->buffer);

for (i = partLen; i + 63 < inputLen; i += 64)
    MD5Transform (context->state, &input[i]);

index = 0;
}
else
i = 0;

/* Buffer remaining input */
MD5_memcpy
((POINTER)&context->buffer[index], (POINTER)&input[i],
  inputLen-i);
}

/* MD5 finalization. Ends an MD5 message-digest operation, writing the
the message digest and zeroizing the context. */
void MD5Final (digest, context)
unsigned char digest[16];          /* message digest */
MD5_CTX *context;                   /* context */
{
    unsigned char bits[8];
    unsigned int index, padLen;

    /* Save number of bits */
    Encode (bits, context->count, 8);

    /* Pad out to 56 mod 64. */
    index = (unsigned int)((context->count[0] >> 3) & 0x3f);
    padLen = (index < 56) ? (56 - index) : (120 - index);
    MD5Update (context, PADDING, padLen);

    /* Append length (before padding) */
    MD5Update (context, bits, 8);

    /* Store state in digest */
    Encode (digest, context->state, 16);

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// Zeroize sensitive information.
*/
MD5_memset ((POINTER)context, 0, sizeof (*context));
}

/* MD5 basic transformation. Transforms state based on block. */
static void MD5Transform (state, block)
UINT4 state[4];
unsigned char block[64];
{
UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];

Decode (x, block, 64);

/* Round 1 */
FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
FF (d, a, b, c, x[ 1], S12, 0xe8c7b756); /* 2 */
FF (c, d, a, b, x[ 2], S13, 0x242070db); /* 3 */
FF (b, c, d, a, x[ 3], S14, 0x1bdceee); /* 4 */
FF (a, b, c, d, x[ 4], S11, 0xf57c0faf); /* 5 */
FF (d, a, b, c, x[ 5], S12, 0x4787c62a); /* 6 */
FF (c, d, a, b, x[ 6], S13, 0xa8304613); /* 7 */
FF (b, c, d, a, x[ 7], S14, 0xfd469501); /* 8 */
FF (a, b, c, d, x[ 8], S11, 0x698098d8); /* 9 */
FF (d, a, b, c, x[ 9], S12, 0x8b44f7af); /* 10 */
FF (c, d, a, b, x[10], S13, 0xff555bb1); /* 11 */
FF (b, c, d, a, x[11], S14, 0x895cd7be); /* 12 */
FF (a, b, c, d, x[12], S11, 0x6b901122); /* 13 */
FF (d, a, b, c, x[13], S12, 0xfd987193); /* 14 */
FF (c, d, a, b, x[14], S13, 0xa679438e); /* 15 */
FF (b, c, d, a, x[15], S14, 0x49b40821); /* 16 */

/* Round 2 */
GG (a, b, c, d, x[ 1], S21, 0xf61e2562); /* 17 */
GG (d, a, b, c, x[ 6], S22, 0xc040b340); /* 18 */
GG (c, d, a, b, x[11], S23, 0x265e5a51); /* 19 */
GG (b, c, d, a, x[ 0], S24, 0xe9b6c7aa); /* 20 */
GG (a, b, c, d, x[ 5], S21, 0xd62f105d); /* 21 */
GG (d, a, b, c, x[10], S22, 0x2441453); /* 22 */
GG (c, d, a, b, x[15], S23, 0xd8a1681); /* 23 */
GG (b, c, d, a, x[ 4], S24, 0xe7d3fbc8); /* 24 */
GG (a, b, c, d, x[ 9], S21, 0x21e1cde6); /* 25 */
GG (d, a, b, c, x[14], S22, 0xc33707d6); /* 26 */
GG (c, d, a, b, x[ 3], S23, 0xf4d50d87); /* 27 */
GG (b, c, d, a, x[8], S24, 0x455a14ed); /* 28 */
GG (a, b, c, d, x[13], S21, 0xa9e3e905); /* 29 */
GG (d, a, b, c, x[2], S22, 0x5cefa38); /* 30 */
GG (c, d, a, b, x[7], S23, 0x676f02d9); /* 31 */
GG (b, c, d, a, x[12], S24, 0x8d2a4c8a); /* 32 */

/* Round 3 */
HH (a, b, c, d, x[5], S31, 0xfffa3942); /* 33 */
HH (d, a, b, c, x[8], S32, 0x8771f681); /* 34 */
HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfd580e); /* 36 */
HH (a, b, c, d, x[1], S31, 0xa4beaa44); /* 37 */
HH (d, a, b, c, x[4], S32, 0x4bdecfa9); /* 38 */
HH (c, d, a, b, x[7], S33, 0x6fb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xbbebfb70); /* 40 */
HH (a, b, c, d, x[13], S31, 0x289b7ec6); /* 41 */
HH (d, a, b, c, x[0], S32, 0xeaa127fa); /* 42 */
HH (c, d, a, b, x[3], S33, 0xd4ef3085); /* 43 */
HH (b, c, d, a, x[6], S34, 0x4881d05); /* 44 */
HH (a, b, c, d, x[9], S31, 0xd9d4d039); /* 45 */
HH (d, a, b, c, x[12], S32, 0xe6db99e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
HH (b, c, d, a, x[2], S34, 0xc4ac5665); /* 48 */

/* Round 4 */
II (a, b, c, d, x[0], S41, 0xf4292244); /* 49 */
II (d, a, b, c, x[7], S42, 0x432aff97); /* 50 */
II (c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */
II (b, c, d, a, x[5], S44, 0xfc93039); /* 52 */
II (a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */
II (d, a, b, c, x[3], S42, 0x8f0cc92); /* 54 */
II (c, d, a, b, x[10], S43, 0xffeff47d); /* 55 */
II (b, c, d, a, x[1], S44, 0x85845dd1); /* 56 */
II (a, b, c, d, x[8], S41, 0x6fa87e40); /* 57 */
II (d, a, b, c, x[15], S42, 0xfe2ce60); /* 58 */
II (c, d, a, b, x[6], S43, 0xa3014314); /* 59 */
II (b, c, d, a, x[13], S44, 0xc40811a1); /* 60 */
II (a, b, c, d, x[4], S41, 0xf7537e82); /* 61 */
II (d, a, b, c, x[11], S42, 0xb3d3af235); /* 62 */
II (c, d, a, b, x[2], S43, 0x2ad7d2bb); /* 63 */
II (b, c, d, a, x[9], S44, 0xe8b4db391); /* 64 */
state[0] += a;
state[1] += b;
state[2] += c;
state[3] += d;

/* Zerize sensitive information.

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*/

MD5_memset ((POINTER)x, 0, sizeof (x));
}

/* Encodes input (UINT4) into output (unsigned char). Assumes len is a multiple of 4.
*/
static void Encode (output, input, len)
unsigned char *output;
UINT4 *input;
unsigned int len;
{
    unsigned int i, j;
    for (i = 0, j = 0; j < len; i++, j += 4) {
        output[j] = (unsigned char)(input[i] & 0xff);
        output[j+1] = (unsigned char)((input[i] >> 8) & 0xff);
        output[j+2] = (unsigned char)((input[i] >> 16) & 0xff);
        output[j+3] = (unsigned char)((input[i] >> 24) & 0xff);
    }
}

/* Decodes input (unsigned char) into output (UINT4). Assumes len is a multiple of 4.
*/
static void Decode (output, input, len)
UINT4 *output;
unsigned char *input;
unsigned int len;
{
    unsigned int i, j;
    for (i = 0, j = 0; j < len; i++, j += 4)
        output[i] = ((UINT4)input[j]) | (((UINT4)input[j+1]) << 8) | (((UINT4)input[j+2]) << 16) | (((UINT4)input[j+3]) << 24);
static void MD5_memcpy (output, input, len)
POINTER output;
POINTER input;
unsigned int len;
{
unsigned int i;

for (i = 0; i < len; i++)
output[i] = input[i];
}

/* Note: Replace "for loop" with standard memcpy if possible. */
static void MD5_memset (output, value, len)
POINTER output;
int value;
unsigned int len;
{
unsigned int i;

for (i = 0; i < len; i++)
((char *)output)[i] = (char)value;
}

A.4 mddriver.c

/* MDDRIVER.C - test driver for MD2, MD4 and MD5 */

/* Copyright (C) 1990-2, RSA Data Security, Inc. Created 1990. All rights reserved. */

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documentation and/or software.
*/

/* The following makes MD default to MD5 if it has not already been
defined with C compiler flags.
*/
#ifndef MD
#define MD MD5
#endif

#include <stdio.h>
#include <time.h>
#include <string.h>
#include "global.h"
#if MD == 2
#include "md2.h"
#endif
#if MD == 4
#include "md4.h"
#endif
#if MD == 5
#include "md5.h"
#endif

/* Length of test block, number of test blocks.
*/
#define TEST_BLOCK_LEN 1000
#define TEST_BLOCK_COUNT 1000

static void MDString PROTO_LIST ((char *));
static void MDTimeTrial PROTO_LIST ((void));
static void MDTestSuite PROTO_LIST ((void));
static void MDFile PROTO_LIST ((char *));
static void MDFilter PROTO_LIST ((void));
static void MDPrint PROTO_LIST ((unsigned char [16]));
/* Main driver. */

Arguments (may be any combination):
- -sstring - digests string
- -t - runs time trial
- -x - runs test script
filename - digests file
(none) - digests standard input
*/

int main (argc, argv)

int argc;

char *argv[];
{
  int i;

  if (argc > 1)
    for (i = 1; i < argc; i++)
      if (argv[i][0] == '-' && argv[i][1] == 's')
        MDString (argv[i] + 2);
      else if (strcmp (argv[i], "-t") == 0)
        MDTimeTrial ();
      else if (strcmp (argv[i], "-x") == 0)
        MDTimesTest ();
      else if (argv[i] = "-", argv[i + 1] != null)
        MDString (argv[i] + 2);
else if (strcmp(argv[i], "-x") == 0)
    MDTestSuite ()
else
    MDFile (argv[i])
else
    MDFilter ()

    return (0);
}

/* Digests a string and prints the result. */
static void MDString (string)
char *string;
{
    MD_CTX context;
    unsigned char digest[16];
    unsigned int len = strlen (string);

    MDInit (&context);
    MDUpdate (&context, string, len);
    MDFinal (digest, &context);

    printf ("MD%d ("%s") = ", MD, string);
    MDPrint (digest);
    printf ("\n");
}

/* Measures the time to digest TEST_BLOCK_COUNT TEST_BLOCK_LEN-byte blocks. */
static void MDTimeTrial ()
{
    MD_CTX context;
    time_t endTime, startTime;
    unsigned char block[TEST_BLOCK_LEN], digest[16];
    unsigned int i;

...
TEST_BLOCK_LEN, TEST_BLOCK_COUNT);

/* Initialize block */
for (i = 0; i < TEST_BLOCK_LEN; i++)
block[i] = (unsigned char)(i & 0xff);

/* Start timer */
time (&startTime);

/* Digest blocks */
MDInit (&context);
for (i = 0; i < TEST_BLOCK_COUNT; i++)
MDUpdate (&context, block, TEST_BLOCK_LEN);
MDFinal (digest, &context);

/* Stop timer */
time (&endTime);

printf (" done
" );
printf ("Digest = ");
MDPrint (digest);
printf ("\nTime = %ld seconds
", (long)(endTime-startTime));
printf ("\nSpeed = %ld bytes/second\n", (long)TEST_BLOCK_LEN * (long)TEST_BLOCK_COUNT/(endTime-startTime));

/* Digests a reference suite of strings and prints the results. */
static void MDTestSuite ()
{
printf (" MD%d test suite:\n", MD);

MDString (" ");
MDString ("a ");
MDString ("abc ");
MDString ("message digest ");
MDString ("abcdefghijklmnopqrstuvwxyz ");
MDString ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789 ");
MDString ("1234567890123456789012345678901234567890 ");

/* Digests a file and prints the result. */
/*
  static void MDFile (filename)
  char *filename;
  {
    FILE *file;
    MD_CTX context;
    int len;
    unsigned char buffer[1024], digest[16];

    if ((file = fopen(filename, "rb")) == NULL) 
      printf("%s can't be opened\n", filename);
    else {
      MDInit (&context);
      while (len = fread(buffer, 1, 1024, file)) 
        MDUpdate (&context, buffer, len);
      MDFinal (digest, &context);
    }
    fclose(file);

    printf("MD%d (%s) = ", MD, filename);
    MDPrint (digest);
    printf("\n");
  }
/*
  Digests the standard input and prints the result.
*/
static void MDFilter ()
  {
    MD_CTX context;
    int len;
    unsigned char buffer[16], digest[16];

    MDInit (&context);
    while (len = fread(buffer, 1, 16, stdin)) 
      MDUpdate (&context, buffer, len);
    MDFinal (digest, &context);
    MDPrint (digest);
    printf("\n");
  }
/* Prints a message digest in hexadecimal.
*/
static void MDPrint (digest)
unsigned char digest[16];
{

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unsigned int i;
for (i = 0; i < 16; i++)
printf ("%02x", digest[i]);
}
A.5 Test suite
The MD5 test suite (driver option "-x") should print the following
results:
MD5 test suite:
MD5 ("") = d41d8cd98f00b204e9800998ecf8427e
MD5 ("a") = 0cc175b9c0f1b6a831c399e269772661
MD5 ("abc") = 900150983cd24fb0d6963f7d28e17f72
MD5 ("message digest") = f96b697d7cb7938d525a2f31aaf161d0
MD5 ("abcdefghijklmnopqrstuvwxyz") = c3fcd3d76192e4007dfb496cca67e13b
MD5 ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789") =
d174ab98d277d9f5a5611c2c9f419d9f
MD5 ("123456789012345678901234567890123456789012345678901234567890123456
78901234567890") = 57edf4a22be3c955ac49da2e2107b67a
Security Considerations
The level of security discussed in this memo is considered to be
sufficient for implementing very high security hybrid digitalsignature schemes based on MD5 and a public-key cryptosystem.
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Massachusetts Institute of Technology
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NE43-324

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548130_1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/rfc1321.txt
No license file was found, but licenses were detected in source scan.

=head1 NAME

Digest::MD5 - Perl interface to the MD5 Algorithm

=head1 SYNOPSIS

# Functional style
use Digest::MD5 qw(md5 md5_hex md5_base64);

$digest = md5($data);
$digest = md5_hex($data);
$digest = md5_base64($data);

# OO style
use Digest::MD5;

$ctx = Digest::MD5->new;

$ctx->add($data);
$ctx->addfile($file_handle);

$digest = $ctx->digest;
$digest = $ctx->hexdigest;
$digest = $ctx->b64digest;
=head1 DESCRIPTION

The C<Digest::MD5> module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.

Note that the MD5 algorithm is not as strong as it used to be. It has since 2005 been easy to generate different messages that produce the same MD5 digest. It still seems hard to generate messages that produce a given digest, but it is probably wise to move to stronger algorithms for applications that depend on the digest to uniquely identify a message.

The C<Digest::MD5> module provide a procedural interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.

=head1 FUNCTIONS

The following functions are provided by the C<Digest::MD5> module. None of these functions are exported by default.

=over 4

=item md5($data,...)

This function will concatenate all arguments, calculate the MD5 digest of this "message", and return it in binary form. The returned string will be 16 bytes long.

The result of md5("a", "b", "c") will be exactly the same as the result of md5("abc").

=item md5_hex($data,...)

Same as md5(), but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0..'9' and 'a..'f'.

=item md5_base64($data,...)

Same as md5(), but will return the digest as a base64 encoded string. The length of the returned string will be 22 and it will only contain characters from this set: 'A..'Z', 'a..'z', '0..'9', '+' and '/'.


Note that the base64 encoded string returned is not padded to be a multiple of 4 bytes long. If you want interoperability with other base64 encoded md5 digests you might want to append the redundant string "==" to the result.

=head1 METHODS

The object oriented interface to C<Digest::MD5> is described in this section. After a C<Digest::MD5> object has been created, you will add data to it and finally ask for the digest in a suitable format. A single object can be used to calculate multiple digests.

The following methods are provided:

=item $md5 = Digest::MD5->new

The constructor returns a new C<Digest::MD5> object which encapsulate the state of the MD5 message-digest algorithm.

If called as an instance method (i.e. $md5->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case.

=item $md5->reset

This is just an alias for $md5->new.

=item $md5->clone

This a copy of the $md5 object. It is useful when you do not want to destroy the digests state, but need an intermediate value of the digest, e.g. when calculating digests iteratively on a continuous data stream. Example:

```perl
my $md5 = Digest::MD5->new;
while (<>) {
    $md5->add($_);
    print "Line $:. ", $md5->clone->hexdigest, "\n";
}
```

=item $md5->add($data,...)

The data provided as argument are appended to the message we calculate the digest for. The return value is the $md5 object itself.
All these lines will have the same effect on the state of the $md5 object:

```perl
$md5->add("a"); $md5->add("b"); $md5->add("c");
$md5->add("a")->add("b")->add("c");
$md5->add("a", "b", "c");
$md5->add("abc");
```

=item $md5->addfile($io_handle)

The $io_handle will be read until EOF and its content appended to the message we calculate the digest for. The return value is the $md5 object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $md5 object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $md5 object if this occurs.

In most cases you want to make sure that the $io_handle is in C<binmode> before you pass it as argument to the addfile() method.

=item $md5->add_bits($data, $nbits)

=item $md5->add_bits($bitstring)

Since the MD5 algorithm is byte oriented you might only add bits as multiples of 8, so you probably want to just use add() instead. The add_bits() method is provided for compatibility with other digest implementations. See L<Digest> for description of the arguments that add_bits() take.

=item $md5->digest

Return the binary digest for the message. The returned string will be 16 bytes long.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the C<Digest::MD5> object is automatically C<reset> and can be used to calculate another digest value. Call $md5->clone->digest if you want to calculate the digest without resetting the digest state.

=item $md5->hexdigest

Same as $md5->digest, but will return the digest in hexadecimal
form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.

=item $md5->b64digest

Same as $md5->digest, but will return the digest as a base64 encoded string. The length of the returned string will be 22 and it will only contain characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+' and '/'.

The base64 encoded string returned is not padded to be a multiple of 4 bytes long. If you want interoperability with other base64 encoded md5 digests you might want to append the string "==" to the result.

=item @ctx = $md5->context

=item $md5->context(@ctx)

Saves or restores the internal state. When called with no arguments, returns a 3-element list: number of blocks processed, a 16-byte internal state buffer, then up to 63 bytes of unprocessed data. When passed those same arguments, restores the state. This is only useful for specialised operations.

=back

=head1 EXAMPLES

The simplest way to use this library is to import the md5_hex() function (or one of its cousins):

use Digest::MD5 qw(md5_hex);
print "Digest is ", md5_hex("foobaz"), "\n";

The above example would print out the message:

Digest is 6df23dc03f9b54cc38a0fc1483df6e21

The same checksum can also be calculated in OO style:

use Digest::MD5;

$md5 = Digest::MD5->new;
$md5->add('foo', 'bar');
$md5->add('baz');
$digest = $md5->hexdigest;
print "Digest is $digest\n";

With OO style, you can break the message arbitrarily. This means that we are no longer limited to have space for the whole message in memory, i.e. we can handle messages of any size.

This is useful when calculating checksum for files:

```perl
use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binmode($fh);

$md5 = Digest::MD5->new;
while (<$fh>) {
    $md5->add($_);
}
close($fh);
print $md5->b64digest, " $filename\n";
```

Or we can use the addfile method for more efficient reading of the file:

```perl
use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binmode ($fh);

print Digest::MD5->new->addfile($fh)->hexdigest, " $filename\n";
```

Since the MD5 algorithm is only defined for strings of bytes, it can not be used on strings that contains chars with ordinal number above 255 (Unicode strings). The MD5 functions and methods will croak if you try to feed them such input data:

```perl
use Digest::MD5 qw(md5_hex);

my $str = "abc\x{300}";
print md5_hex($str), "\n";  # croaks
# Wide character in subroutine entry
```

What you can do is calculate the MD5 checksum of the UTF-8 representation of such strings. This is achieved by filtering the string through `encode_utf8()` function:
use Digest::MD5 qw(md5_hex);
use Encode qw(encode_utf8);

my $str = "abc\x{300}";
print md5_hex(encode_utf8($str)), "\n";
# 8c2d46911f3f5a326455f0ed7a8ed3b3

=head1 SEE ALSO

L<Digest>,
L<Digest::MD2>,
L<Digest::SHA>,
L<Digest::HMAC>

L<md5sum(1)>

RFC 1321


The paper "How to Break MD5 and Other Hash Functions" by Xiaoyun Wang and Hongbo Yu.

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The original C<MD5> interface was written by Neil Winton (C<N.Winton@axion.bt.co.uk>).

The C<Digest::MD5> module is written by Gisle Aas <gisle@ActiveState.com>.

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/*
 * Enumeration of supported Base64 dialects.
 *
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jar/io/netty/handler/codec/LineBasedFrameDecoder.java

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jar/io/netty/handler/codec/compression/package-info.java

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jar/io/netty/handler/codec/serialization/SoftReferenceMap.java

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jar/io/netty/handler/codec/DecoderResult.java

* /opt/cola/permits/1151701633_1617968003.11/0/netty-codec-4-0-39-final-sources-2-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java

* /opt/cola/permits/1151701633_1617968003.11/0/netty-codec-4-0-39-final-sources-2-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java

* /opt/cola/permits/1151701633_1617968003.11/0/netty-codec-4-0-39-final-sources-2-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

* /opt/cola/permits/1151701633_1617968003.11/0/netty-codec-4-0-39-final-sources-2-
jar/io/netty/handler/codec/marshalling/DefaultUnmarshalerProvider.java

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jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java

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jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java

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jar/io/netty/handler/codec/CorruptedFrameException.java

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jar/io/netty/handler/codec/FixedLengthFrameDecoder.java

* /opt/cola/permits/1151701633_1617968003.11/0/netty-codec-4-0-39-final-sources-2-
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java

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jar/io/netty/handler/codec/ChannelBufferByteOutput.java

* /opt/cola/permits/1151701633_1617968003.11/0/netty-codec-4-0-39-final-sources-2-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1151701633_1617968003.11/0/netty-codec-4-0-39-final-sources-2-
jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
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jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1151701633_1617968003.11/0/netty-codec-4-0-39-final-sources-2-
jar/io/netty/handler/codec/serialization/CachingClassResolver.java
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* /opt/cola/permits/1151701633_1617968003.11/0/netty-codec-4-0-39-final-sources-2-
jar/io/netty/handler/codec/MessageToMessageEncoder.java
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jar/io/netty/handler/codec/EncoderException.java
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jar/io/netty/handler/codec/serialization/ReferenceMap.java
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 */
/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [{@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
The value of the length field in this example is \texttt{12 (0x0C)} which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0 (= do not strip header)
```

**BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)**

```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

**2 bytes length field at offset 0, strip header**

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 2 (= the length of the Length field)
```

**BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)**

```
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
```

**2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message**

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero `lengthAdjustment`. Because the length value in this example message is always greater than the body length by \texttt{2}, we specify \texttt{-2}. 

* The value of the length field in this example is \texttt{12 (0x0C)} which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.
* `<pre>`
  * `lengthFieldOffset` = 0
  * `lengthFieldLength` = 2
  * `lengthAdjustment` = 0
  * `initialBytesToStrip` = 0 (= do not strip header)
* **BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)**

```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

**2 bytes length field at offset 0, strip header**

Because we can get the length of the content by calling \{@link ByteBuf#readableBytes()\}, you might want to strip the length field by specifying `initialBytesToStrip`. In this example, we specified \texttt{2}, that is same with the length of the length field, to strip the first two bytes.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 2 (= the length of the Length field)
```

**BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)**

```
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
```

**2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message**

* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero `lengthAdjustment`. Because the length value in this example message is always greater than the body length by \texttt{2}, we specify \texttt{-2}. 

* The value of the length field in this example is \texttt{12 (0x0C)} which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.
* `<pre>`
  * `lengthFieldOffset` = 0
  * `lengthFieldLength` = 2
  * `lengthAdjustment` = 0
  * `initialBytesToStrip` = 0 (= do not strip header)
```
* as `<tt>lengthAdjustment</tt>` for compensation.
* `<pre>`
  * lengthFieldOffset = 0
  * lengthFieldLength = 2
  * `<b>`lengthAdjustment</b>` = `<b>`-2</b>` (= the length of the Length field)
  * initialBytesToStrip = 0
  *
  * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
  * +----------------+----------------+
  * | Length | Actual Content |
  * +----------------+----------------+
  * | 0x000E | "HELLO, WORLD" |
  * +----------------+----------------+
  *
  * </pre>

* 3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*  
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* `<pre>`
  * `<b>`lengthFieldOffset</b>` = `<b>`2</b>` (= the length of Header 1)
  * `<b>`lengthFieldLength</b>` = `<b>`3</b>`
  * lengthAdjustment = 0
  * initialBytesToStrip = 0
  *
  * BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
  * +----------------+----------------+----------------+----------------+
  * | Header 1 | Length | Actual Content |
  * +----------------+----------------+----------------+
  * | 0xCAFE | 0x00000C | "HELLO, WORLD" |
  * +----------------+----------------+----------------+
  *
  * </pre>

* 3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*  
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
* header into the frame length calculation.
* `<pre>`
  * lengthFieldOffset = 0
  * lengthFieldLength = 3
  * `<b>`lengthAdjustment</b>` = `<b>`2</b>` (= the length of Header 1)
  * initialBytesToStrip = 0
  *
  * BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
  * +----------------+----------------+----------------+----------------+
  * | Length | Header 1 | Actual Content |
  * +----------------+----------------+----------------+----------------+
  *
  * </pre>
2 bytes length field at offset 1 in the middle of 4 bytes header,
strip the first header field and the length field

This is a combination of all the examples above. There are the prepended
header before the length field and the extra header after the length field.
The prepended header affects the lengthFieldOffset and the extra
header affects the lengthAdjustment. We also specified a non-zero
initialBytesToStrip to strip the length field and the prepended
header from the frame. If you don't want to strip the prepended header, you
could specify initialBytesToSkip for initialBytesToSkip.

lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
initialBytesToStrip = 3

Let's give another twist to the previous example. The only difference from
the previous example is that the length field represents the length of the
whole message instead of the message body, just like the third example.
We have to count the length of HDR1 and Length into lengthAdjustment.
Please note that we don't need to take the length of HDR2 into account
because the length field already includes the whole header length.
* @see LengthFieldPrepender
*/

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/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 *
 * The encoding and decoding algorithm in this class has been derived from
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Protocol Buffers for Go with Gadgets

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>

1.4645 tar 1.30 5.el8
1.4645.1 Available under license:

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* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-
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package spec

import (  
  "encoding/json"  
  "github.com/go-openapi/swag"
)

// License information for the exposed API.  
// For more information: http://goo.gl/8us55a#licenseObject

type License struct {  
  LicenseProps  
  VendorExtensible
}

type LicenseProps struct {  
  Name string `json:"name,omitempty"`  
  URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {  
  if err := json.Unmarshal(data, &l.LicenseProps); err != nil {  
    return err
  }
  return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {  
  b1, err := json.Marshal(l.LicenseProps)  
  if err != nil {  
    return nil, err
  }
  b2, err := json.Marshal(l.VendorExtensible)  
  if err != nil {  
    return nil, err
  }
  return swag.ConcatJSON(b1, b2), nil
}

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package api

import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"
// List of features enabled by the license
Features []string "features"
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return 
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return 
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {  
var reply LicenseReply  
r := op.c.newRequest("PUT", "/v1/operator/license")  
r.setWriteOptions(opts)  
r.body = strings.NewReader(license)  
_, resp, err := requireOK(op.c.doRequest(r))  
if err != nil {  
return nil, err  
}  
defer resp.Body.Close()  

if err := decodeBody(resp, &reply); err != nil {  
return nil, err  
}  

return &reply, nil  
}  

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Protocol Buffers for Go with Gadgets  

Go support for Protocol Buffers - Google's data interchange format  

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https://github.com/golang/protobuf  

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Portions of the client are based on code at:
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.4657 plexus-interpolation 1.3

1.4658 libunistring 1.0-r0

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// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorablateash@gmail.com
// https://github.com/inexorablateash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01

// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
1.4660 json-iterator-go 1.1.8

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1.4676 ima-evm-utils 1.1 5.el8

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:
More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (doss@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mitami.mitia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detelfs(detelfs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(aged@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:

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Manifest-Version: 1.0
Implementation-Title: Netty/Resolver
Bundle-Description: Netty is an asynchronous event-driven network appl
icatio framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver
Implementation-Version: 4.1.62.Final
Built-By: norman
Bnd-LastModified: 1617128233709
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurrent
version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.net
ty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution=opti
onal,org.eclipse.jetty.npn;version="[1,2)";resolution=optional,org.e
clipse.jetty.alpn;version="[1,2)";resolution=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.resolver;uses="io.netty.util.concurrent`;ver
sion="4.1.62"
Bundle-Name: Netty/Resolver
Bundle-Version: 4.1.62.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-resolver/
1.4710 librepo 1.12.0 2.el8
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1.4712 lint-staged 8.2.1
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[[contributing-to-docs]]
= Contributing to the documentation

This section shows you how to contribute to the Strimzi documentation and contains important guidelines for
creating accessible content.

[[contribution-getting-started]]
== Getting started

Before you begin you need to:

. xref:setting-up-git[Install and set up Git]

[[contribution-accessibility]]
== Accessibility guidelines

Strimzi aims to make its content accessible.
When contributing to the documentation, ensure that your content adheres to the following guidelines:

* Images:
  ** Include a caption
  ** Provide alternative text
  ** Are described in the surrounding text
* Images of text are not used (such as with code fragments)
* Links provide descriptive text about the target (not _click here_)
* Tables:
  ** Include a caption
  ** Contain headings
  ** Provide a logical reading order
** Don't contain empty cells
* Color is not used as the only visual means to convey information (not _check the green text_)

```
Example image caption and description
[source,asciidoc]
```

```
Operators within the Strimzi architecture
image:operators.png [Operators within the Strimzi architecture]
```

```
Example table headings
[source,asciidoc]
```

```
File connectors
[cols="2*",options="header"]
|==|

File Connector
|Description

FileStreamSourceConnector
|Transfers data to your Kafka cluster from a file (the source).
|==
```

[[contributing]]
== Contributing to the documentation

Once you have your local repository set up and have up to date copies of upstream content you need to follow these steps to contribute to the documentation.

```
Procedure
  . Open your terminal
  . `cd` to the directory where your documentation resides
  . Checkout the main branch
  +
  [source]
  ```
  $ git checkout main
  ```
  ```
  . Update your local repository and fork with the upstream content
  +
  [source]
  ```
  $ git pull upstream main
  ```
  $ git push origin main --force
  ```
  . Create a new branch for your work (using the issue number is helpful)
$ git checkout -b <branch-name>

. Make your edits in the editor of your choice
. Save your changes locally
. Build your documentation to verify that there are no build errors and that everything looks right
. This can be done with the xref:make-tooling[Make tooling]
. If you are creating new files, add the files to the repository

$ git status
$ git add <file-name>

. Commit your changes

$ git commit -a -s -m "<message>"

Note that the project requires all commits to be signed off, indicating that _you_ certify the changes with the link:https://developercertificate.org/[developer certificate of origin (DCO)].
. Push your changes to your fork

$ git push origin HEAD

. If the update is rejected because the commit is behind, merge your changes

$ git pull upstream main
$ git push -f origin HEAD

. Visit your fork on GitHub
. Click *Compare & pull request*
. If a SME review is needed:
. Add *SME Review Needed* label.
. When SME review is complete, remove *SME Review Completed* label and go to step 16.
. Add *Peer Review Needed* label and assign a Reviewer.
. When peer review has been completed, the reviewer deletes the *Peer Review Needed* label and adds the *Peer Review Done* label.
. When *Peer Review Done* label has been added:
.. If no changes are needed, remove *Peer Review Done* label and add *Ready for Merge* label.
.. If changes are needed and the changes are minor, make changes to the files, commit, and push, and then remove 
*Peer Review Done* label and add *Ready for Merge* label.
.. If you want an additional review on the updated content, add the *Peer Review Needed* label and ask for another 
review in a comment.

1.4715 libmnl 1.0.4-r0
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   Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.4717 libnspr 4.20-1

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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
cceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lp_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc, NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cufl, nd
cursor_to_rl, rl, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam, SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smde, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smsso, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, supm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
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key_create, kcr, @6
key_ctab, kctab, ct
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key_dl, kdl1, kL
key_down, kcd1, kd
key_eic, krmir, kM
key_end, kend, @7
key_enter, kent, @8
key_eos, ked, kS
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key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH
key_f28, kf28, FI
key_f29, kf29, FJ
key_f3, kf3, k3
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key_f39, kf39, FT
key_f4, kf4, k4
key_f40, kf40, FU
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micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro, mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, ptkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin, smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
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device_type, devt, dv
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end_bit_image_region, endbi, Yy
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enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
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set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/ExternalTerminal.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/Colors.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/NonBlockingReaderImpl.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/AttributedStyle.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/NonBlockingInputStream.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/Curses.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/AbstractTerminal.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/Size.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/AttributedStringBuilder.java
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* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/AttributedString.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/WCWidth.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/DiffHelper.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/Signals.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/package-info.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/Attributes.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/ShutdownHooks.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/ClosedException.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/ExecHelper.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/OSUtils.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal(MouseEvent.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/ExecPty.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/package-info.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/Log.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/Levenshtein.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/spi/CursorSupport.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/terminal/Cursor.java
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* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/spi/JnaSupport.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/spi/JansiSupport.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/AttributedCharSequence.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/PumpReader.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/NonBlockingPumpReader.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/spi/ConsoleWriter.java
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* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/spi/AbstractWindowsConsoleWriter.java
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* /opt/cola/permits/1145063200_1618993783.41/0/validation-api-1-1-0-final-sources-12-jar/javax/validation/OverridesAttribute.java
* /opt/cola/permits/1145063200_1618993783.41/0/validation-api-1-1-0-final-sources-12-jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1145063200_1618993783.41/0/validation-api-1-1-0-final-sources-12-jar/javax/validation/ConstraintDefinitionException.java
* /opt/cola/permits/1145063200_1618993783.41/0/validation-api-1-1-0-final-sources-12-jar/javax/validation/constraints/Future.java
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  */opt/cola/permits/1145063200_1618993783.41/0/validation-api-1-1-0-final-sources-12-jar/javax/validation/ConstraintDeclarationException.java
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  jar/javax/validation/constraintvalidation/SupportedValidationTarget.java
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jar/org/antlr/v4/codegen/OutputModelWalker.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/codegen/model/VisitorFile.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/gui/TreeTextProvider.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/codegen/model/LabeledOp.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/semantics/RuleCollector.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java

---

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*/

// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.

// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.

// This grammar and its associated grammars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:

// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
// You cannot specify two options{} sections in a single grammar file.
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
// and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *
 * The phases are:
 *
 * A3Lexer.g (this file)
 * A3Parser.g
 * A3Verify.g (derived from A3Walker.g)
 * assign.types.g
 * define.g
 * bldnfa.g
 * antlr.print.g (optional)
 * codegen.g
 *
 * Terence Parr
 * University of San Francisco
 * 2005
 * Jim Idle (this v3 grammar)
 * Temporal Wave LLC
 * 2009
 */

lexer grammar ANTLRLexer;

// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.

// ------
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
// options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
language = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//@
//superclass = AbstractA3Lexer;

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this source and also the generated source
//@
@lexer::header {
/*
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
}
@members {
    public static final int COMMENTS_CHANNEL = 2;

    public CommonTokenStream tokens; // track stream we push to; need for context info
    public boolean isLexerRule = false;

    public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

    /** scan backwards from current point in this.tokens list
     * looking for the start of the rule or subrule.
     * Return token or null if for some reason we can't find the start.
     */
    public Token getRuleOrSubruleStartToken() {
        if (tokens==null) return null;
        int i = tokens.index();
        int n = tokens.size();
        if (i>=n) i = n-1; // seems index == n as we lex
        while (i>=0 && i<n) {
            int ttype = tokens.get(i).getType();
            if (ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF) {
                return tokens.get(i);
            }
            i--;
        }
        return null;
    }

    // --------
    // Comments
    //
    // ANTLR comments can be multi or single line and we don't care
    // which particularly. However we also accept Javadoc style comments
    // of the form: /** ... */ and we do take care to distinguish those
    // from ordinary multi-line comments
    // Note how we guide the lexical PATH because we want to issue a decriptive
    // error message in case of a standalone '/' character, which makes no
    // sense in ANTLR source code. We also trap unterminated multi-line comments
    //
    fragment DOC_COMMENT : ;
    COMMENT
    @init {

        // Record the start line and offsets as if we need to report an
        // unterminated comment, then we want to show the start of the comment
        // we think is broken, not the end, where people will have to try and work
        // it out themselves.
    }
int startLine = $line;
int offset = getCharPositionInLine();
}
: // Eat the first character only, then see if we have a comment
// or something silly.
//
'/' // Comment introducer

( // Single line comment, possibly with embedded src/line directives
  // in a similar style to the C pre-processor, allowing generated
  // code to refer the programmer back to the original source code
  // in case of error.
  //
  '/'
  (  '/' $ANTLR'/examples\ANTLR' SRC
     | ~(NLCHARS)*
  )
)

| // Multi-line comment, which may be a documentation comment
| // if it starts /** (note that we protect against accidentally
| // recognizing a comment /**/ as a documentation comment
| //
  '*/' (  
    [ input.LA(2) != '/' ]? => '*/' { $type = DOC_COMMENT; }  
    | { true }? => // Required to cover all alts with predicates  
  )

// Should we support embedded multiline comments here?

//
(  
  // Pick out end of multiline comment and exit the loop
  // if we find it.
  //
  { !(input.LA(1) == '*' && input.LA(2) == '/') }?  

    // Anything else other than the non-greedy match of
    // the comment close sequence
    //

  )*

(  
  // Look for the comment terminator, but if it is accidentally
  // unterminated, then we will hit EOF, which will trigger the
  // epsilon alt and hence we can issue an error message relative
  // to the start of the unterminated multi-line comment
//

| // Unterminated comment!
| //
| {
|   // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine, offset, $pos, (Object)null);
| }
| // There was nothing that made sense following the opening '/' and so
| // we issue an error regarding the malformed comment
| //
| {
|   // TODO: Insert error message relative to comment start
| //
| }
| // We do not wish to pass the comments in to the parser. If you are
| // writing a formatter then you will want to preserve the comments off
| // channel, but could just skip and save token space if not.
| //
| $channel= COMMENTS_CHANNEL;
| }
| 
| ARG_OR_CHARSET
options {k=1;}
: {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
| {
|   $type=ARG_ACTION;
|   // Set the token text to our gathered string minus outer []
|   String t = Text;
|   t = t.substring(1,t.length()-1);
|   setText(t);
| }
| :

fragment LEXER_CHAR_SET
:\['
| ('\W-('"\'|\n')
| |~('"\'|\n'|\n'|\t'))
| )*
| '\]
// --------------
// Argument specs

// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.

// fragment
ARG_ACTION :
  [^
      ARG_ACTION

    | ("")=>ACTION_STRING_LITERAL

    | ('\')=>ACTION_CHAR_LITERAL

    | ~(['|']])

  ]

  ]

// -------
// Actions

// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by { }) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting { } is no additional overhead.

// ACTION :
:NESTED_ACTION
( '?' {type = SEMPRED;}
  ((WSNLCHARS* '='=>) => WSNLCHARS* '='=>) // v3 gated sempred
  )

  Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
  t.setLine(state.tokenStartLine);
  t.setText(state.text);
  t.setCharPositionInLine(state.tokenStartCharPositionInLine);
  grammarError(ErrorType.V3_GATED_SEMPRED, t);
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
// fragment
NESTED_ACTION
@init {

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();
int offset = getCharPositionInLine();
}

: // Action and other blocks start with opening {
//
'}{

// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we belive to
// be mismatched. This won't be foolproof but we will
// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

// An embedded {} block
//
NESTED_ACTION
// What appears to be a literal
//
ACTION_CHAR_LITERAL

// We have assumed that the target language has C/Java
// type comments.
//
COMMENT

// What appears to be a literal
//
ACTION_STRING_LITERAL

// What appears to be an escape sequence
//
ACTION_ESC

// Some other single character that is not
// handled above
//
~(\"|\'|/|\{|\})*

// Correctly balanced closing brace
//
'}

// Looks like have an imblanced {} block, report
// with respect to the opening brace.
//
{
    // TODO: Report imbalanced {}
    System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced { } or is missing a }");
}
}

// Keywords
//--------
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.

// OPTIONS : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS : 'channels' WSNLCHARS* '{' ;

IMPORT : 'import' ;
FRAGMENT : 'fragment' ;
LEXER : 'lexer' ;
PARSER : 'parser' ;
GRAMMAR : 'grammar' ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED : 'protected' ;
PUBLIC : 'public' ;
PRIVATE : 'private' ;
RETURNS : 'returns' ;
LOCALS : 'locals' ;
THROWS : 'throws' ;
CATCH : 'catch' ;
FINALLY : 'finally' ;
MODE : 'mode' ;

// ------------
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
// COLON : ':'
{
    // scan backwards, looking for a RULE_REF or TOKEN_REF.
    // which would indicate the start of a rule definition.
    // If we see a LPAREN, then it's the start of the subrule.
    // this.tokens is the token string we are pushing into, so
    // just loop backwards looking for a rule definition. Then
    // we set isLexerRule.
    Token t = getRuleOrSubruleStartToken();
    if ( t!=null ) {
        if ( t.getType()==RULE_REF ) isLexerRule = false;
        else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
        // else must be subrule; don't alter context
    }
}

;

COLONCOLON : '::' ;
COMMA : ',' ;
SEMI : ';' ;
LPAREN : '(' ;
RPAREN : ')' ;
RARROW       : '->'                   ;
LT           : '<'                    ;
GT           : '>'                    ;
ASSIGN       : '='                    ;
QUESTION     : '?'                    ;
SYNPRED      : '=>'
{
    Token t = new CommonToken(input, state.type, state.channel,
        state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_SYNPRED, t);
        $channel=HIDDEN;
}
STAR         : '*'                    ;
PLUS         : '+'                    ;
PLUS_ASSIGN  : '+='                   ;
OR           : '|'                    ;
DOLLAR       : '$'                    ;
DOT	        : '.'                    ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE        : '..'                   ;
AT           : '@'                    ;
POUND        : '#'                    ;
NOT          : '~'                    ;
RBRACE       : '}'                    ;

/** Allow unicode rule/token names */
ID		  :	a=NameStartChar NameChar*
{
    if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
    else $type = RULE_REF;
}

fragment
NameChar    :	NameStartChar
    |    '0'..'9'
    |    '.'
    |    "\u00B7"
    |    "\u0300"..'\u036F'
    |    "\u036F"..'\u2040'
;

fragment
NameStartChar
    :	'A'..'Z' | 'a'..'z'

// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//
// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like \}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
// fragment
ACTION_CHAR_LITERAL
  :
    "" (("\")=>ACTION_ESC | ~"" )* "" 
  ;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like \}' and so we eat them
// specifically.
//
// fragment
ACTION_STRING_LITERAL
  :
    """" (("\")=>ACTION_ESC | ~"""" )* """" 
  ;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.

// fragment
ACTION_ESC
: '\"';

// -------
// Integer
/
// Obviously (I hope) match an arbitrary long sequence of digits.
/
INT : ('0'..'9')+
;

// --------
// Source spec
/
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
/
// fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
{
    // TODO: Add target specific code to change the source file name and current line number
    //
    }
;

// -----------
// Literal string
/
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx, where x
// is a valid hexadecimal number (as per Java basically).
STRING_LITERAL
: '\"' ( ( ESC_SEQ | ~('\\'|'\''|'\r'|'\n') ) )*\n( \n
| // Unterminated string literal
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);

    }
grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);}

// A valid hex digit specification
fragment HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
fragment ESC_SEQ : '\'
{
    // The standard escaped character set such as tab, newline,
    // etc.
    // 'b'|'t'|'n'|'f'|'r'|'"'|'\'
    // A Java style Unicode escape sequence
    // UNICODE_ESC

    | // An illegal escape sequence
    | //
    | 
    Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1, getCharIndex());
    t.setText(t.getText());
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-1);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
}

fragment UNICODE_ESC

@init {
    // Flag to tell us whether we have a valid number of
    // hex digits in the escape sequence
    //
    int hCount = 0;
}
': 'u' // Leadin for unicode escape sequence

// We now require 4 hex digits. Note though
// that we accept any number of characters
// and issue an error if we do not get 4. We cannot
// use an infinite count such as + because this
// might consume too many, so we lay out the lexical
// options and issue an error at the invalid paths.
//
//
HEX_DIGIT { hCount++; }

   \nHEX_DIGIT { hCount++; }

   \nHEX_DIGIT { hCount++; }

      // Four valid hex digits, we are good
      //
      \nHEX_DIGIT { hCount++; }

     // Three valid digits

     // Two valid digits

     // One valid digit

     // No valid hex digits at all

// Now check the digit count and issue an error if we need to
//
{ if (hCount != 4) {
   Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-1):

t.setText(t.getText());
t.setLine(input.getLine());
t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2); grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
} }

// -----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
  : ( '
    | \r
    | \n
  )+
  { $channel=HIDDEN; }
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : \n | \r
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | \t | \f
;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
  : ' ' | \t | \f | \n | \r
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
"\uFEFF" {skip();}
;

// -----------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
// ERRCHAR
:
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
    grammarError(ErrorType.SYNTAX_ERROR, t, msg);
    state.syntaxErrors++;
    skip();
}
;

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-jar/org/antlr/v4/parse/ANTLRLexer.g

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```plaintext
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
  rankdir=LR;
  <decisionRanks; separator="\n">
  <states; separator="\n">
  <edges; separator="\n">
}
>>
```

```plaintext
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name> {
  <if(rankdir)>rankdir=<rankdir>;<endif>
  <decisionRanks; separator="\n">
  <states; separator="\n">
  <edges; separator="\n">
}
>>
```

```plaintext
decision-rank(states) ::= <<
  {rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">
}
>>
```

```plaintext
edge(src,target,label,arrowhead,transitionIndex) ::= <<
  <src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7, label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
}
>>
```

```plaintext
action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
  <src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7, label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
}
>>
```

```plaintext
epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
  <src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
```
state(state, label, name, transitions) ::= <%
    <name>[fontsize=11, label="
    <![if(rest(transition) tests for decision states: these nodes have a non-empty set of transitions after the first one. !]>
        <![if(rest(transitions))>
            {
                <![if(rest(label))>
                    |
                ]
            }
        ]
    ]>
    <![if(rest(transitions))>
        , shape=record, fixedsize=false
    ]>
    <![else>
        , shape=circle, fixedsize=true, width=.55
    ]>
    , peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
    <name>[fontsize=11, label="<label><if(actionIndex)>,
    action:<actionIndex><endif>",
    <![if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<![else]>shape=doublecircle, fixedsize=true,
    width=.6<endif>];
>>

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* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-jar/org/antlr/v4/parse/GrammarToken.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-jar/org/antlr/v4/codegen/model/Recognizer.java

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tree grammar ATNBuilder;
options {
    language     = Java;
    tokenVocab   = ANTLRParser;
    ASTLabelType = GrammarAST;
    //filter     = true;
}

// Include the copyright in this source and also the generated source
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
@members {
    ATNFactory factory,
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
        this(input);
        this.factory = factory;
    }
}
dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
    int alt = 1;
    factory.setCurrentOuterAlt(alt);
}
:^ BLOCK
    (^OPTIONS .*)?
    ( a=alternative
        {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
    )+
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
}
block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
}
:^ BLOCK (^OPTIONS .*)?
    ( a=alternative {alts.add($a.p);})+
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
}
alternative returns [ATNFactory.Handle p]
@init {
    List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();
}
:^ LEXER_ALT_ACTION a=alternative lexerCommands
    {sp = factory.lexerAltCommands($a.p,$lexerCommands.p);}
| ^ (ALT elementOptions? EPSILON) {sp = factory.epsilon($EPSILON);}
| ^ (ALT elementOptions? (e=element {els.add($e.p);})+)
    {$p = factory.alt(els);}
}
lexerCommands returns [ATNFactory.Handle p]
@init {
    List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();
}
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
    {$p = factory.alt(cmds);}
}
lexerCommand returns [ATNFactory.Handle cmd]
  :^\(LEXER\_ACTION\_CALL ID lexerCommandExpr\)
    \{ $cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start); \}

| ID
| \{ $cmd = factory.lexerCommand($ID); \}
|

lexerCommandExpr
  :ID
| INT
|

element returns [ATNFactory.Handle p]
  :labeledElement \{ $p = $labeledElement.p; \}
| atom \{ $p = $atom.p; \}
| subrule \{ $p = $subrule.p; \}
  | ACTION \{ $p = factory.action((ActionAST)$ACTION); \}
  | SEMPREDF \{ $p = factory.sempred((PredAST)$SEMPRED); \}
  | ^\(ACTION .\) \{ $p = factory.action((ActionAST)$ACTION); \}
  | ^\(SEMPRED .\) \{ $p = factory.sempred((PredAST)$SEMPRED); \}
  | ^\(NOT b=blockSet[true]\) \{ $p = $b.p; \}
| LEXER\_CHAR\_SET \{ $p = factory.charSetLiteral($start); \}
|

astOperand returns [ATNFactory.Handle p]
  :atom \{ $p = $atom.p; \}
  | ^\(NOT blockSet[true]\) \{ $p = $blockSet.p; \}
|

labeledElement returns [ATNFactory.Handle p]
  :^\(ASSIGN ID element\) \{ $p = factory.label($element.p); \}
  | ^\(PLUS\_ASSIGN ID element\) \{ $p = factory.listLabel($element.p); \}
|

subrule returns [ATNFactory.Handle p]
  :^\(OPTIONAL block[$start]\) \{ $p = $block.p; \}
  | ^\(CLOSURE block[$start]\) \{ $p = $block.p; \}
  | ^\(POSITIVE\_CLOSURE block[$start]\) \{ $p = $block.p; \}
| block[null] \{ $p = $block.p; \}
|

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init \{ List<GrammarAST> alts = new ArrayList<GrammarAST>(); \}
  :^\(SET setElement \{ alts.add($setElement.start); \})+ \{ $p = factory.set($start, alts, $invert); \}
|

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
atom returns [ATNFactory.Handle p]
  range{$p = $range.p;}
  DOT ID terminal{$p = $terminal.p;}
  DOT ID ruleref{$p = $ruleref.p;}
  WILDCARD{$p = factory.wildcard($start);}
  blockSet[false]{$p = $blockSet.p;}
  terminal{$p = $terminal.p;}
  ruleref{$p = $ruleref.p;}

ruleref returns [ATNFactory.Handle p]
  RULE_REF ARG_ACTION? ELEMENT_OPTIONS.*{$p = factory.ruleRef($RULE_REF);}
  RULE_REF ARG_ACTION?{$p = factory.ruleRef($RULE_REF);}
  RULE_REF{$p = factory.ruleRef($RULE_REF);}

range returns [ATNFactory.Handle p]
  RANGE a=STRING_LITERAL b=STRING_LITERAL {$p = factory.range($a,$b);}

terminal returns [ATNFactory.Handle p]
  STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
  STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
  TOKEN_REF ARG_ACTION?{$p = factory.tokenRef((TerminalAST)$start);}
  TOKEN_REF{$p = factory.tokenRef((TerminalAST)$start);}
  TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
  TOKEN_REF{$p = factory.tokenRef((TerminalAST)$start);}

elementOptions
  ELEMENT_OPTIONS elementOption*}

elementOption
  ID
  ASSIGN ID ID
  ASSIGN ID STRING_LITERAL
  ASSIGN ID ACTION
  ASSIGN ID INT

---

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 */

tree grammar SourceGenTriggers;
options {
  language     = Java;
  tokenVocab   = ANTLRParser;
  ASTLabelType = GrammarAST;
}

@header {
  package org.antlr.v4.codegen;
  import org.antlr.v4.misc.Utils;
  import org.antlr.v4.codegen.model.*;
  import org.antlr.v4.codegen.model.decl.*;
  import org.antlr.v4.tool.*;
}
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
}

@members {
public OutputModelController controller;
public boolean hasLookaheadBlock;
public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
    this(input);
    this.controller = controller;
}
}

dummy : block[null, null] ;

: ^(blk=BLOCK (^ OPTIONS .+))? {
    List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
    ( alternative {alts.add($alternative.altCodeBlock);} )+
    }
    
    if ( alts.size()==1 && ebnfRoot==null) return alts;
    if ( ebnfRoot==null ) {
        $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
    }
    else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
        $omos = DefaultOutputModelFactory.list(choice);
    }
} ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
    boolean outerMost = inContext("RULE BLOCK");
}
@after {
    controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
:a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops; }
;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
    // set alt if outer ALT only (the only ones with alt field set to Alternative object)
AltAST altAST = (AltAST)retval.start;
if (outerMost) controller.setCurrentOuterMostAlt(altAST.alt);
}
List<SrcOp> elems = new ArrayList<SrcOp>();
// TODO: shouldn't we pass $start to controller.alternative()?
$altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
$altCodeBlock.ops = $ops = elems;
controller.setCurrentBlock($altCodeBlock);

^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

|^(ALT elementOptions? EPSILON)
  {SaltCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}

;:

element returns [List<? extends SrcOp> omos]
: labeledElement{$omos = $labeledElement.omos;}
| atom>null, false [$omos = $atom.omos;]
| subrule {omos = $subrule.omos;}
  | ACTION {$omos = controller.action((ActionAST)$ACTION;)
  | SEMPRED {$omos = controller.sempred((ActionAST)$SEMPRED;
  |^(ACTION elementOptions) {$omos = controller.action((ActionAST)$ACTION;)
  |^(SEMPRED elementOptions) {$omos = controller.sempred((ActionAST)$SEMPRED;

;

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID, false]) {$omos = $atom.omos;}
|^(PLUS_ASSIGN ID atom[$ID, false]) {$omos = $atom.omos;}
|^(ASSIGN ID block[$ID, null]) {$omos = $block.omos;}
|^(PLUS_ASSIGN ID block[$ID, null]) {$omos = $block.omos;}
;

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block>null, $OPTIONAL))
  {
  $omos = $block.omos;
  }
|^(op=CLOSURE b=block>null, null))
|^(op=POSITIVE_CLOSURE b=block>null, null))
)

List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
SrcOp blk = $b.omos.get(0);
CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
alt.addOp(blk);
alts.add(alt);
SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
$omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null]| {$omos = $block.omos;}
|
blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
| $(SET atom[label,invert]+) | {$omos = controller.set($SET, $label, invert);}
|
/*/ 
setElement
:STRING_LITERAL
[TOKEN_REF 
|^(RANGE STRING_LITERAL STRING_LITERAL)]
|
// TODO: combine ROOT/BANG into one then just make new op reft'ing return value of atom/terminal...
// TODO: same for NOT 
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
|^(NOT a=atom[$label, true])| {$omos = $a.omos;}
| range[label]| {$omos = $range.omos;}
|^(DOT ID terminal[$label])
|^(DOT ID ruleref[$label])

|^(WILDCARD .) |{$omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD | {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label]| {$omos = $terminal.omos;}
| ruleref[label]| {$omos = $ruleref.omos;}
| blockSet[label, invert]| {$omos = $blockSet.omos;}
|
ruleref[GrammarAST label] returns [List<SrcOp> omos]
|^(RULE_REF ARG_ACTION? elementOptions?)| {$omos = controller.ruleRef($RULE_REF, $label, 
| ARG_ACTION);} 
|
range[GrammarAST label] returns [List<SrcOp> omos]
|^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
|
terminal[GrammarAST label] returns [List<SrcOp> omos]
|^(STRING_LITERAL .) |{$omos = controller.stringRef($STRING_LITERAL, $label);}
| STRING_LITERAL | {$omos = controller.stringRef($STRING_LITERAL, $label);}
|^(TOKEN_REF ARG_ACTION .)| {$omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);} 
|^(TOKEN_REF .) |{$omos = controller.tokenRef($TOKEN_REF, $label, null);} 
| TOKEN_REF | {$omos = controller.tokenRef($TOKEN_REF, $label, null);} 
|
elementOptions
    :^(ELEMENT_OPTIONS elementOption+)
    ;

elementOption
    :ID
    | ^(ASSIGN ID ID)
    | ^(ASSIGN ID STRING_LITERAL)
    | ^(ASSIGN ID ACTION)
    | ^(ASSIGN ID INT)
    ;

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
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 */

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions) ::= <<
 <fileHeader(file.grammarFileName, file.ANTLRVersion)>
 <if(file.genPackage)>
 namespace <file.genPackage> {
 <endif>
 <namedActions.header>
 using System;
 using System.Text;
 using System.Diagnostics;
 using System.Collections.Generic;
 using Antlr4.Runtime;
 using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;
/// <summary>
/// This interface defines a complete listener for a parse tree produced by
/// <see cref="csIdentifier.(file.parserName)"/>
/// </summary>
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
<file.listenerNames:{lname |
/// <summary>
/// Enter a parse tree produced by the <cs><lname></cs>
/// labeled alternative in <see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>
/// </summary>
/// <param name="context">The parse tree.</param>
void Enter<lname; format="cap">(OrNull <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);
/// </summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the <cs><lname></cs>
/// labeled alternative in <see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>
/// </summary>
/// <param name="context">The parse tree.</param>
void Exit<lname; format="cap">(OrNull <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);
using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;

/// <summary>
/// This class provides an empty implementation of <see cref="I{file.grammarName}Listener"/>
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// </summary>
[System.CLSCompliant(false)]
public partial class {file.grammarName}BaseListener : I{file.grammarName}Listener {

    /// <summary>
    /// Enter a parse tree produced by <see cref="{csIdentifier.(file.parserName)}.<{lname}>"/>
    /// The default implementation does nothing.
    /// </summary>
    /// <param name="context">The parse tree.</param>
    public virtual void Enter{lname; format="cap">([NotNull] {csIdentifier.(file.parserName)}.<{lname; format="cap">Context context) { 

    /// <summary>
    /// Exit a parse tree produced by <see cref="{csIdentifier.(file.parserName)}.<{lname}>"/>
    /// The default implementation does nothing.
    /// </summary>
    /// <param name="context">The parse tree.</param>
    public virtual void Exit{lname; format="cap">([NotNull] {csIdentifier.(file.parserName)}.<{lname; format="cap">Context context) { 

    /// <inheritdoc/>
    /// <remarks>The default implementation does nothing.</remarks>
    public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { 

    BaseListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>

    namespace {file.genPackage} {
    
    <header>
/// \<inheritdoc/>  
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { } 
/// \<inheritdoc/>  
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitTerminal([NotNull] ITerminalNode node) { } 
/// \<inheritdoc/>  
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitErrorNode([NotNull] IErrorNode node) { }

VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> { 
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced 
/// by \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
public interface I<file.grammarName>Visitor\<Result> : IParseTreeVisitor\<Result> { 
<file.visitorNames:{lname |
/// \<summary>
/// Visit a parse tree produced by the \<c><lname></c> labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit\<lname; format="cap">(([NotNull] <csIdentifier.(file.parserName>).\<lname; format="cap">Context context);}; separator="n"}
</if(file.genPackage)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
    <parser.sempredFuncs.values:{f|
        case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
    return true;
    }
    <sempredFuncs.values; separator="\n">
</if(sempredFuncs)>

<vocabulary(literalNames, symbolicNames) ::= <<
    private static readonly string[] _LiteralNames = {
        <literalNames:{t | <t>}; null="null", separator="", wrap, anchor>
    };
    private static readonly string[] _SymbolicNames = {
        <symbolicNames:{t | <t>}; null="null", separator="", wrap, anchor>
    };
    public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

    [NotNull]
    public override IVocabulary Vocabulary
    {
        get
        {
            return DefaultVocabulary;
        }
    }
</vocabulary>

<dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
    public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
        switch (ruleIndex) {
        <recog.actionFuncs.values:{f|
            case <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex); break;}; separator="\n">
        }
        <actionFuncs.values; separator="\n">
    <endif>
<if(sempredFuncs)>
    public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
        switch (ruleIndex) {
        <parser.sempredFuncs.values:{f|
            case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
        }
        return true;
        }
        <sempredFuncs.values; separator="\n">
</if(sempredFuncs)>
</dumpActions>
<if(!recog.modes)>(<f.ctxType>)<endif>\_localctx, predIndex);}; separator="\n"> 
return true;
}

<sempredFuncs.values; separator="\n"> 
<endif>

parser\_ctor(parser) ::= <<
public <csIdentifier.(parser.name)> (ITokenStream input) 
{ 
Interpreter = new ParserATNSimulator(this,\_ATN); 
} 
>>

/* This generates a private method since the actionIndex is generated, making an */
/* overriding implementation impossible to maintain. */
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
switch (actionIndex) {
<actions:{index|
case <index>: <actions.(index)> break;}; separator="\n"> 
}
}
>>

/* This generates a private method since the predIndex is generated, making an */
/* overriding implementation impossible to maintain. */
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
switch (predIndex) {
<actions:{index|
case <index>: return <actions.(index)>;}; separator="\n"> 
}
return true;
}
>>

RuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble, exceptions) ::= <<
<if(ruleCtx)>
<ruleCtx>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
 _localctx.exception = re;
ErrorHandler.ReportError(this, re);
ErrorHandler.Recover(this, re);
}
finally {
<nfinallyAction>
ExitRule();
}
return _localctx;
}
>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::= <<

<if(currentRule.modifiers)<currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>); EnterRule(_localctx, <currentRule.startState>, RULE_.<currentRule.variantOf>);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
 _localctx.exception = re;
ErrorHandler.ReportError(this, re);
ErrorHandler.Recover(this, re);
}
finally {
<nfinallyAction>
ExitRule();
LeftRecursiveRuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble) ::= „

    <ruleCtx>
    <altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

    [RuleVersion(<namedActions.version; null="0">)]
    <if(currentRule.modifiers)<currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
    <csIdentifier.(currentRule.name)>(<args; separator="\ , ">) {
    return <csIdentifier.(currentRule.name)>(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>);
    }

    private <currentRule.ctxType> <csIdentifier.(currentRule.name)>(int _p<args:{a | , <a>}>) {
    ParserRuleContext _parentctx = Context;
    int _parentState = State;
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | , 
    <csIdentifier.(a.name)>}>);
    <currentRule.ctxType> _prevctx = _localctx;
    int _startState = <currentRule.startState>;
    EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
    <namedActions.init>
    <locals; separator="\n">
    try {
    <if(currentRule.hasLookaheadBlock)>
    int _alt;
    <endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
    }
    catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
    }
    finally {
    <finallyAction>
    UnrollRecursionContexts(_parentctx);
    }
    return _localctx;
    }

}
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
  {<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
  EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
  <CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
  |
  <locals; separator="\n">
  <preamble; separator="\n">
  <ops; separator="\n">
  |
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
  State = <choice.stateNumber>;
  <!ErrorHandler.sync(this);!>
  <if(choice.label)><labelref(choice.label)> = TokenStream.Lt(1);<endif>
  <preamble; separator="\n">
  switch (TokenStream.La(1)) {
  <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
  default:
  <error>
  }
>>

LL1OptionalBlock(choice, alts, error) ::= <<
  State = <choice.stateNumber>;
  <!ErrorHandler.sync(this);!>
  switch (TokenStream.La(1)) {
  <choice.altLook,alts:{look,alt} <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
  default:
  <error>
  }
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
  State = <choice.stateNumber>;
  <!ErrorHandler.sync(this);!>
  <preamble; separator="\n">
  if (<expr>) {
  <alts; separator="\n
\[
\text{LL1StarBlockSingleAlt}(\text{choice, loopExpr, alts, preamble, iteration}) \equiv \llbracket
\text{State} = \text{choice.stateNumber};
\text{ErrorHandler.Sync(this)};
\text{<preamble; separator="\n">}
\text{while (<loopExpr>)}
\text{<alts; separator="\n">}
\text{State} = \text{choice.loopBackStateNumber};
\text{ErrorHandler.Sync(this)};
\text{<iteration>}
\]\rrbracket
\]

\[
\text{LL1PlusBlockSingleAlt}(\text{choice, loopExpr, alts, preamble, iteration}) \equiv \llbracket
\text{State} = \text{choice.blockStartStateNumber};\llbracket\text{alt block decision !}\rrbracket
\text{ErrorHandler.Sync(this)};
\text{<preamble; separator="\n">}
\text{do}
\text{<alts; separator="\n">}
\text{State} = \text{choice.stateNumber};\llbracket\text{loopback/exit decision !}\rrbracket
\text{ErrorHandler.Sync(this)};
\text{<iteration>}
\text{while ( <loopExpr> );}
\]\rrbracket
\]

// LL(*) stuff

\[
\text{AltBlock}(\text{choice, preamble, alts, error}) \equiv \llbracket
\text{State} = \text{choice.stateNumber};
\llbracket\text{alt block decision !}\rrbracket
\text{ErrorHandler.Sync(this)};
\llbracket\text{alt block decision !}\rrbracket
\text{<if(choice.label)}\text{<labelref(choice.label)} = \text{TokenStream.Lt(1)};\llbracket\text{alt block decision !}\rrbracket
\text{<preamble; separator="\n">}
\text{switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) )}
\text{<alts:{alt |}
\text{case <i>:}
\text{<alt>
\text{break;}; separator="\n">}
\text{}}
\llbracket\text{alt block decision !}\rrbracket
\]\rrbracket
\]

\[
\text{OptionalBlock}(\text{choice, alts, error}) \equiv \llbracket
\text{State} = \text{choice.stateNumber};
\llbracket\text{alt block decision !}\rrbracket
\text{ErrorHandler.Sync(this)};
\llbracket\text{alt block decision !}\rrbracket
\text{switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) )}
\text{<alts:{alt |}
\text{case <i>:}
\text{<alt>
\text{break;}; separator="\n">}
\text{}}
\llbracket\text{alt block decision !}\rrbracket
\]\rrbracket
\]
case <i><if(!choice.ast.greedy)>+1<endif>:</n><alt>
break;}; separator="n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;<if(!choice.ast.greedy)>+1<endif>
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.InvalidAltNumber ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}<alts> <! should only be one !>
}
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>
do {
switch (_alt) {
<alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="n">
default:
<error>
}
State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.InvalidAltNumber );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)<endif}>; separator=" || ">
>>
// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test

testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
(if(!isZero.(offset))(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <<
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <<
<bits.ttypes:{ttype | <s.varName>==<tokenType.(ttype)>}; separator=" || “>
%>

cases(ttypes) ::= <<
<ttypes:{t | case <tokenType.(t)>:}; separator="\n”>
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{l | <labelref(l)> = }><endif><csIdentifier.(r.name)>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>; <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>TokenStream.Lt(1);<endif>
capture
"
if ( (if(invert)<m.varName> \<= 0 || else)!<endif>(<expr>) ) {
    <if(m.labels)> <m.labels:{l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
    Consume();
}

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)> <w.labels:{l | <labelref(l)> = }><endif>MatchWildcard();

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>, <p.msg><endif>);

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "Skip();"
LexerMoreCommand() ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg) ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg) ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg) ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg) ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
RetValueRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = \{rhsChunks\};";

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "(\{<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null\})"
TokenPropertyRef_type(t) ::= "(\{<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0\})"
TokenPropertyRef_line(t) ::= "(\{<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0\})"
TokenPropertyRef_pos(t) ::= "(\{<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0\})"

RulePropertyRef_start(r) ::= "(\{<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null\})"
RulePropertyRef_stop(r) ::= "(\{<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null\})"
RulePropertyRef_text(r) ::= "(\{<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null\})"
RulePropertyRef_ctx(r) ::= "this"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r) ::= "_localctx.Stop"
ThisRulePropertyRef_text(r) ::= "TokenStream.GetText(_localctx.Start, TokenStream.Lt(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= \%(<Context>GetInvokingContext(<s.ruleIndex>).<csIdentifier.(s.name)>)%
SetNonLocalAttr(s,rhsChunks) ::= \%(<Context>GetInvokingContext(<s.ruleIndex>).<csIdentifier.(s.name)> = <rhsChunks>;%

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>;
TokenListDecl(t) ::= "IList\<IToken> <csIdentifier.(tokenType.(t.name))> = new List\<IToken>();"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>;"
RuleContextDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new List\<<rdecl.ctxName>>();"
contextGetterCollection(elementType) ::= <
  <elementType>[]
%

ContextTokenGetterDecl(t) ::= "public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
  GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t) ::= "<<
  public <contextGetterCollection("ITerminalNode")> <csIdentifier.(tokenType.(t.name))>() { return
  GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); } 
>>
ContextTokenListIndexedGetterDecl(t) ::= "<<
  public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
    return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
  }
>>
ContextRuleGetterDecl(r) ::= "<<
  public <r.ctxName> <csIdentifier.(r.name)>() {
    return GetRuleContext<<r.ctxName>>(0);
  }
>>
ContextRuleListGetterDecl(r) ::= "<<
  public <contextGetterCollection({<r.ctxName>})> <csIdentifier.(r.name)>() {
    return GetRuleContexts<<r.ctxName>();
  }
>>
ContextRuleListIndexedGetterDecl(r) ::= "<<
  public <r.ctxName> <csIdentifier.(r.name)>(int i) {
    return GetRuleContext<<r.ctxName>>\(i);}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
  *\tr becomes rContext.
  */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "\_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName) ::= "\_<ruleName>"
ImplicitSetLabel(id) ::= "\_tset<id>"
ListLabelName(label) ::= "\_<label>"

CaptureNextToken(d) ::= "\<d.varName> = TokenStream.Lt(1);"
CaptureNextTokenType(d) ::= "\<d.varName> = TokenStream.La(1);"
StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
  superClass=(ParserRuleContext) ::= <<
  public partial class <struct.name> : <superClass><if(interfaces)> , <interfaces; separator="",">
  <attrs:{a | public <a>;}; separator="\n">
  <getters:{g | <g>}; separator="\n">
  <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
  <ctorAttrs:{a | public <a>;}; separator="\n">
  public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
  <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  public <struct.name>() { }
  public virtual void CopyFrom(<struct.name> context) {
    base.CopyFrom(context);
    <struct.attrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;} separator="\n">
  }
  <endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">
  }
  }

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
  public partial class <struct.name> : <currentRule.name; format="cap">Context { <attrs:{a | public <a>;}; separator="\n">
  <getters:{g | <g>}; separator="\n">
  public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
  <dispatchMethods; separator="\n">
  }
  }

ListenerDispatchMethod(method) ::= <<
  public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
    I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
    if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName; format="cap">(this);
  }
}

VisitorDispatchMethod(method) ::= <<
  public override TResult Accept<TResult>(IParseTreeVisitor<TResult> visitor) {
    I<parser.grammarName>Visitor<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor<TResult>;
    if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
    else return visitor.VisitChildren(this);
  }
>
AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken() ::= "Context.Stop = TokenStream.Lt(-1);"

recRuleAltStartAction(ruleName,ctxName,label,isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName,ctxName,label,isListLabel) ::= <<
_localctx = new <ctxName>Context(new <ruleName>Context(_parentctx, _parentState));
<if(label)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>
recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
TriggerExitRuleEvent();
_prevctx = _localctx;
>>

LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> { 
<endif>
<namedActions.header>
using System;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> { 
public const int
<lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator="", wrap, anchor>;
<if(lexer.channels)>
public const int
<lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator="", wrap, anchor>;
<endif>
<rest(lexer.modes):{m| public const int <modeName.(m)> = <i>;}; separator=":\n">
public static string[] modeNames = {
<lexer.modes:{m | "<m>"}; separator="", wrap, anchor>
};

public static readonly string[] ruleNames = {
<lexer.ruleNames:{r | "<r>"}; separator="", wrap, anchor>
};

<namedActions.members>

public <csIdentifier.(lexer.name)>(ICharStream input)
: base(input)
{
    Interpreter = new LexerATNSimulator(this,_ATN);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override string SerializedAtn { get { return _serializedATN; } }

<dumpActions(lexer, ",", actionFuncs, sempredFuncs)>
<atn>
} >>

SerializedATN(model) ::= <<
public static readonly string _serializedATN =
"<model.serialized; wrap={"+<un><\t}>";"
public static readonly ATN _ATN =
new ATNDeserializer().Deserialize(_serializedATN.ToCharArray());
>>

initValue(typeName) ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
"DEFAULT_MODE" : "DefaultMode",
default : key
]

channelName ::= [
"HIDDEN" : "Hidden",
"DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
default : key
]

tokenType ::= [
"EOF" : "Eof",
default : key
]
"override": "@override",
"params": "@params",
"private": "@private",
"protected": "@protected",
"public": "@public",
"readonly": "@readonly",
"ref": "@ref",
"return": "@return",
"sbyte": "@sbyte",
"sealed": "@sealed",
"short": "@short",
"sizeof": "@sizeof",
"stackalloc": "@stackalloc",
"static": "@static",
"string": "@string",
"struct": "@struct",
"switch": "@switch",
"this": "@this",
"throw": "@throw",
"true": "@true",
"try": "@try",
"typeof": "@typeof",
"uint": "@uint",
"ulong": "@ulong",
"unchecked": "@unchecked",
"unsafe": "@unsafe",
"ushort": "@ushort",
"using": "@using",
"virtual": "@virtual",
"void": "@void",
"volatile": "@volatile",
"while": "@while",
default: key
]

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3.jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg

No license file was found, but licenses were detected in source scan.

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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
 * For now, a simple string match used on x.y of x.y.z scheme.
 * Must match Tool.VERSION during load to templates.
 *
 * REQUIRED.
 */

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other than a primitive type is an object
 ]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions) ::= <<
 <fileHeader(file.grammarFileName, file.ANTLRVersion)>
 var antlr4 = require('antlr4/index');
 <if(file.genListener)>
 var <file.grammarName>Listener = require('./<file.grammarName>Listener').<file.grammarName>Listener;
 <endif>
 <if(file.genVisitor)>
 var <file.grammarName>Visitor = require('./<file.grammarName>Visitor').<file.grammarName>Visitor;
 <endif>

 Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 46840
ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete listener for a parse tree produced by <file.parserName>.
function <file.grammarName>Listener() {
  antlr4.tree.ParseTreeListener.call(this);
  return this;
}

<file.grammarName>Listener.prototype = Object.create(antlr4.tree.ParseTreeListener.prototype);
<file.grammarName>Listener.prototype.constructor = <file.grammarName>Listener;

<file.listenerNames:{lname |
  // Enter a parse tree produced by <file.parserName>#<lname>.
  <file.grammarName>Listener.prototype.enter<lname; format="cap"> = function(ctx) {
  \};

  // Exit a parse tree produced by <file.parserName>#<lname>.
  <file.grammarName>Listener.prototype.exit<lname; format="cap"> = function(ctx) {
  \};
  \}; separator="\n"
exports.<file.grammarName>Listener = <file.grammarName>Listener;
>>

VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.
function <file.grammarName>Visitor() {
  antlr4.tree.ParseTreeVisitor.call(this);
  return this;
}

<file.grammarName>Visitor.prototype = Object.create(antlr4.tree.ParseTreeVisitor.prototype);
<file.grammarName>Visitor.prototype.constructor = <file.grammarName>Visitor;

// Visit a parse tree produced by `<file.parserName>`#<lname>.
`<file.grammarName>`Visitor.prototype.visit`<lname`; format="cap"> = function(ctx) {
    
}; selector="\n">

exports.`<file.grammarName>`Visitor = `<file.grammarName>`Visitor;

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from `<grammarFileName`; format="java-escape"> by ANTLR `<ANTLRVersion`
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)> var <superClass> = require('./<superClass>').<superClass>;
<endif>

var grammarFileName = `<parser.grammarFileName`; format="java-escape">";

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

var sharedContextCache = new antlr4.PredictionContextCache();

var literalNames = [ `<parser.literalNames:nt | <t>}; null="null", selector="", wrap, anchor> ];

var symbolicNames = [ `<parser.symbolicNames:{t | <t>}; null="null", separator="", wrap, anchor> ];

var ruleNames = [ `<parser.ruleNames:{r | "<r>"}; separator="", wrap, anchor> ];

function `<parser.name>` (input) {
    `<superClass; null="antlr4.Parser">.call(this, input);
        this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
        this.ruleNames = ruleNames;
        this.literalNames = literalNames;
        this.symbolicNames = symbolicNames;
        `<namedActions.members>`
        return this;
    }

```
<parser.name>.prototype = Object.create(<superClass; null="antlr4.Parser">.prototype);
<parser.name>.prototype.constructor = <parser.name>;

Object.defineProperty(<parser.name>.prototype, "atn", {
  get: function() {
    return atn;
  }
});

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
  <parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>

<funcs; separator="\n">

<if(sempredFuncs)>
  <parser.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
    switch(ruleIndex) {
    <parser.sempredFuncs.values:{f | case <f.ruleIndex>: return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">    default:
      throw "No predicate with index:" + ruleIndex;
    }
  };

<sempredFuncs.values; separator="\n">
<endif>

exports.<parser.name> = <parser.name>;

>>
dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
  <lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
    switch (ruleIndex) {
    <recog.actionFuncs.values:{f | case <f.ruleIndex>: this.<f.name>_action(localctx, actionIndex); break;}; separator="\n">    default:
      throw "No registered action for:" + ruleIndex;
    }
  };

<<
/* This generates a private method since the actionIndex is generated, making an *
* overriding implementation impossible to maintain. */
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
        switch (actionIndex) {
        <actions:{index|
case <index>: <actions.(index)>;}; separator="\n">
        default:
            throw "No registered action for:" + actionIndex;
        }
    };
>>

/* This generates a private method since the predIndex is generated, making an *
* overriding implementation impossible to maintain. */
RuleSempredFunction(r, actions) ::= <<

<if(parser)><parser.name><else><lexer.name><endif>.prototype.<r.name>_sempred = function(localctx, predIndex) {
        switch(predIndex) {
        <actions:{index| case <index>: return <actions.(index)>;}; separator="\n">
        default:
            throw "No predicate with index:" + predIndex;
        }
    };
>>
RuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble, exceptions) ::= <<

<ruleCtx>

<altLabelCtxs:[1 | <altLabelCtxs.(l)>]; separator="\n"> 

<![ ! Define fields of this parser to export the context classes !]>
<pARSER.name>.<currentRule.ctxType> = <currentRule.ctxType>;
<pARSER.name>.prototype.<currentRule.name> = function(<currentRule.args:{a | <a.name>}; separator="","">) {

  var localctx = new <currentRule.ctxType>(this, this._ctx, this.state.<currentRule.args:{a | , <a.name>}>);
  this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n"> 
  try {
    <code>
    <postamble; separator="\n"> 
    <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n"> 
    <else>
    } catch (re) {
    if(re instanceof antlr4.error.RecognitionException) {
      localctx.exception = re;
      this._errHandler.reportError(this, re);
      this._errHandler.recover(this, re);
    } else {
      throw re;
    }
  }<endif>
  finally {
    <finallyAction>
    this.exitRule();
  }
  return localctx;
};

>>

LeftRecursiveRuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble) ::= <<

<ruleCtx>

<altLabelCtxs:[1 | <altLabelCtxs.(l)>]; separator="\n">
```javascript
parser.prototype.currentRule = function(_p, args) {
    if(_p===undefined) {_p = 0; }
    var _parentctx = this._ctx;
    var _parentState = this.state;
    var localctx = new currentRule.ctxType(this, this._ctx, _parentState, args);
    var _prevctx = localctx;
    var _startState = currentRule.startState;
    this.enterRecursionRule(localctx, currentRule.startState, parser.prototype.RULE_currentRule, _p);
    namedActions.init;
    try {
        code
        namedActions.after
    } catch( error) {
        if(error instanceof antlr4.error.RecognitionException) {
            localctx.exception = error;
            this._errHandler.reportError(this, error);
            this._errHandler.recover(this, error);
        } else {
            throw error;
        }
    } finally {
        this.unrollRecursionContexts(_parentctx)
    }
    return localctx;
};
```

```javascript
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
    if(currentOuterMostAltCodeBlock.altLabel) localctx = new currentOuterMostAltCodeBlock.altLabel;
    format="cap">Context(this, localctx);
this.enterOuterAlt(localctx, currentOuterMostAltCodeBlock.alt.altNum);
    CodeBlockForAlt(currentOuterMostAltCodeBlock, ...)
>>

CodeBlockForAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
    locals; separator="\n"
    ops; separator="\n"
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
```
this.state = <choice.stateNumber>;
<_errHandler.sync(this)>
;if(choice.label) <labelref(choice.label)> = this._input.LT(1); endif
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
  break;}; separator="\n">
default:
  <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
<_errHandler.sync(this)>
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
  break;}; separator="\n">
default:
  <error>
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
<_errHandler.sync(this)>
<preamble; separator="\n">
if(<expr>) {
  <alts; separator="\n">
} else if (!(<followExpr>)) <error>!
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
    this.state = <choice.loopBackStateNumber>;
    this._errHandler.sync(this);
    <iteration>
  }
}>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
    this.state = <choice.stateNumber>; <! loopback/exit decision !>
    this._errHandler.sync(this);
    <iteration>
  } while(<loopExpr>);
}>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label) = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt | case <i>:
  <alt>
    break;
}; separator="\n"}
}

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label) = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt | if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!==<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
}}
this.state = <choice.loopBackStateNumber>;
this._errHandler.sync(this);
_alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice, alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch (_alt) {
<alts:{alt|<i><if(!choice.ast.greedy)>+1<endif>|<alt>|break;}; separator="n">
default:
<error>
}
this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
this._errHandler.sync(this);
_alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)<else><bitsetInlineComparison(s, bits)<endif>}; separator=" || ">

>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x1f) == 0

>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(testShiftInRange((<offsetShiftVar(s.varName, bits.shift)>)) && ((1 \< <offsetShiftVar(s.varName, bits.shift)>)) & (bits.ttypes:{ttype | (1 \< <offsetShiftType(ttype, bits.shift)>}); separator=" | ") == 0

isZero ::= [
"0":true,
default: false

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>({shiftAmount} - {offset})<shiftAmount><endif>
%

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>({parser.name}.<shiftAmount> - {offset})<else>{parser.name}.<shiftAmount><endif>
%

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>===<parser.name>.<ttype>}; separator=" || ">
%

cases(ttypes) ::= <<<
<ttypes:{t | case <parser.name>.<t>:}; separator="\n">>>

InvokeRule(r, argExprsChunks) ::= <<<
this.state = {r.stateNumber};
<if(r.labels)>{l | <labelref(l)> = }<endif>this.{r.name}(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>);
>>

MatchToken(m) ::= <<<
this.state = {m.stateNumber};
<if(m.labels)>{l | <labelref(l)> = }<endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>

CommonSetStuff(m, expr, capture, invert) ::= <<<
this.state = {m.stateNumber};
<if(m.labels)>{l | <labelref(l)> = }<endif>this._input.LT(1);<endif>
<capture>
<if(invert)>if({m.varName}<=0 || {expr})<else>if(!({expr})){endif} {
  <if(m.labels)>{l | <labelref(l)> = }<endif>this._errHandler.recoverInline(this);}
else {
  this.consume();
}
>>
Wildcard(w) ::= <<
    this.state = <w.stateNumber>;
    <if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
    this.state = <p.stateNumber>;
    if (!<chunks>) {
        throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>, <p.msg><endif>);
    }
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
    catch (<catchArg>) {
        <catchAction>
    }
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "this.skip()"
LexerMoreCommand()  ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg)      ::= "this._type = <arg>"
LexerChannelCommand(arg)   ::= "this._channel = <arg>"
LexerModeCommand(arg)      ::= "this._mode = <arg>"
LexerPushModeCommand(arg)  ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> !== null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> !== null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> !== null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> !== null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> !== null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> !== null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> !== null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> !== null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(<ctx(r)>.<r.label> !== null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(<ctx(r)>.<r.label> !== null ? null : this._input.getText(new antlr4.Interval(<ctx(r)>.<r.label>.start, <ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRuleContextPropertyRef_ctx(r) ::= "localctx"
ThisRuleContextPropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>"s"

ContextTokenGetterDecl(t) ::= "<t.name> = function() {
    return this.getToken(<parser.name>.<t.name>, 0);
};
"

ContextTokenListGetterDecl(t) ::= "def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)"

ContextTokenListIndexedGetterDecl(t) ::= "<t.name> = function(i) {

    // should never be called
    ContextTokenListGetterDecl(t) ::= "<t.name> = function() {
    def <t.name>_list(self):
        return self.getTokens(<parser.name>.<t.name>)"

    ContextTokenListIndexedGetterDecl(t) ::= "<t.name> = function(i) {

if(i===undefined) {
    i = null;
}
if(i===null) {
    return this.getTokens(<parser.name>.<t.name>);
} else {
    return this.getToken(<parser.name>.<t.name>, i);
}
};

ContextRuleGetterDecl(r) ::= <<
<r.name> = function() {
    return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.name> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTypedRuleContexts(<r.ctxName>);
    } else {
        return this.getTypedRuleContext(<r.ctxName>,i);
    }
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= ".<tokenName>"
ImplicitRuleLabel(ruleName) ::= ".<ruleName>"
ImplicitSetLabel(id) ::= ".tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct, ctorAttrs, attrs, getters, dispatchMethods, interfaces, extensionMembers,
  superClass={antlr4.ParserRuleContext}) ::= <<
  function <struct.name>(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}>) {
    if(parent===undefined) {
      parent = null;
    }
    if(invokingState===undefined || invokingState===null) {
      invokingState = -1;
    }
    <superClass>.call(this, parent, invokingState);
    this.parser = parser;
    this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
    <attrs:{a | <a>;}; separator="\n"> <struct.ctorAttrs:{a | this.<a.name> = <a.name> || null;}; separator="\n"> return this;
  }
  <struct.name>.prototype = Object.create(<superClass>.prototype);
  <struct.name>.prototype.constructor = <struct.name>;
  <getters:{g | <struct.name>.prototype.<g>;}; separator="\n\n"> <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !> <struct.name>.prototype.copyFrom = function(ctx) {
    <superClass>.prototype.copyFrom.call(this, ctx);
    <struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">;
  };
  <endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">
>

AltLabelStructDecl(struct, attrs, getters, dispatchMethods) ::= <<
  function <struct.name>(parser, ctx) {
    <currentRule.name; format="cap">Context.call(this, parser);
    <attrs:{a | <a>;}; separator="\n"> <currentRule.name; format="cap">Context.prototype.copyFrom.call(this, ctx);
    return this;
  }
  <struct.name>.prototype = Object.create(<currentRule.name; format="cap">Context.prototype);
  <struct.name>.prototype.constructor = <struct.name>;
>

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<! Define fields of this parser to export this struct/context class !>

 AttributeSet <struct.name> = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">

<dispatchMethods; separator="\n">

ListenerDispatchMethod(method) ::= <<
<struct.name>.prototype.<if(method.isEnter)>enter<else>exit<endif>Rule = function(listener) {
    if(listener instanceof <parser.grammarName>Listener ) {
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
    }
};
>>

VisitorDispatchMethod(method) ::= <<
<struct.name>.prototype.accept = function(visitor) {
    if ( visitor instanceof <parser.grammarName>Visitor ) {
        return visitor.visit<struct.derivedFromName; format="cap">(this);
    } else {
        return visitor.visitChildren(this);
    }
};
>>

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"
recRuleSetStopToken() ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName,ctxName,label) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>localctx.<label> = _prevctx<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>
antlr4.PredictionContextCache();
    return this;
}

<lexer.name>.prototype = Object.create(<if(superClass)> superClass <else> antlr4.Lexer <endif>.prototype);
<lexer.name>.prototype.constructor = <lexer.name>;

<lexer.name>.EOF = antlr4.Token.EOF;
<lexer.name>.tokens: [{k | <lexer.name>.<k> = <lexer.name>.tokens.(k)>; separators = "\n", wrap, anchor}]
<rest(lexer.modes): {m | <lexer.name>.<m> = <lexer.modes.(m)>; separators = "\n", wrap, anchor}]
<lexer.name>.modeNames = [ <lexer.modes.(m) | "<m>"; separators = "\n", wrap, anchor]]
<lexer.name>.literalNames = [ <lexer.literalNames.(t) | "<t>"; null = "null", separators = "\n", wrap, anchor]]
<lexer.name>.symbolicNames = [ <lexer.symbolicNames.(t) | "<t>"; null = "null", separators = "\n", wrap, anchor]]
<lexer.name>.ruleNames = [ <lexer.ruleNames.(r) | "<r>"; separators = "\n", wrap, anchor]]
<lexer.name>.grammarFileName = "<lexer.grammarFileName>";

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
exports.<lexer.name> = <lexer.name>;

>>

SerializedATN(model) ::= <<
  <! only one segment, can be inlined !>
  var serializedATN = ["<model.serialized; wrap="\n", \"\">"].join(""");

>>

/** Using a type to init value map, try to init a type; if not in table  *
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
  <javaTypeInitMap.(typeName)>

>>

codeFileExtension() ::= ".js"

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
/*
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 */

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-jar/org/antlr/v4/parse/ANTLRParser.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-jar/org/antlr/v4/parse/ANTLRParser.g
No license file was found, but licenses were detected in source scan.

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 */

/** ANTLR tool checks output templates are compatible with tool code generation. */
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
* REQUIRED.
*/

```python
pythonTypeInitMap ::= [
    "bool":"False",
    "int":"0",
    "float":"0.0",
    "str":"",
    default:"None" // anything other than a primitive type is an object
]
```

// args must be <object-model-object>, <fields-resulting-in-STs>

```python
ParserFile(file, parser, namedActions) ::= <<
    <fileHeader(file.grammarFileName, file.ANTLRVersion)>
    # encoding: utf-8
    from antlr4 import *
    from io import StringIO

    <namedActions.header>
    <parser>

    >>
```

```python
ListenerFile(file, header) ::= <<
    <fileHeader(file.grammarFileName, file.ANTLRVersion)>
    from antlr4 import *
    if __name__ is not None and "." in __name__:
        from .<file.parserName> import <file.parserName>
    else:
        from <file.parserName> import <file.parserName>
    <header>

    # This class defines a complete listener for a parse tree produced by <file.parserName>.
    class <file.grammarName>Listener(ParseTreeListener):

        <file.listenerNames:[lname]
        # Enter a parse tree produced by <file.parserName>#[lname].
        def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
            pass

        # Exit a parse tree produced by <file.parserName>#[lname].
        def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
            pass
```

VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames:{lname |
    # Visit a parse tree produced by <file.parserName>#{lname}.
    def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
        return self.visitChildren(ctx)
    }
}

del <file.parserName>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):
    grammarFileName = "<parser.grammarFileName>"
atn = ATNDeserializer().deserialize(serializedATN())

decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

sharedContextCache = PredictionContextCache()

literalNames = [ <parser.literalNames:{t | <t>}; null="\"<INVALID>\"", separator="", wrap, anchor> ]

symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\"<INVALID>\"", separator="", wrap, anchor> ]

<parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator="", wrap, anchor> ]

EOF = <TokenLabelType()> .EOF

<if(parser.tokens)>
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

<parser:(ctor)()>

<namedActions.members>
<funcs; separator="\n">

<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates == None:
      self._predicates = dict()
  <parser.sempredFuncs.values:{f | self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        "}
  pred = self._predicates.get(ruleIndex, None)
  if pred is None:
    raise Exception("No predicate with index:" + str(ruleIndex))
  else:
    return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
  def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):

if self._actions is None:
    actions = dict()
    <recog.actionFuncs.values: {f}
    actions[f.ruleIndex] = self.<f.name>_action ; separator="\n">
    self._actions = actions
action = self._actions.get(ruleIndex, None)
if action is not None:
    action(localctx, actionIndex)
else:
    raise Exception("No registered action for:" + str(ruleIndex))

</actionFuncs.values; separator="\n">

</endif>
</if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates is None:
        preds = dict()
        <recog.sempredFuncs.values: {f}
        preds[f.ruleIndex] = self.<f.name>_sempred ; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

</sempredFuncs.values; separator="\n">
</endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream):
    super().__init__(input)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>()
/* This generates a private method since the actionIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<
def <r.name>_action(self, localctx:<r.ctxType>, actionIndex:int):
    <actions:{index|
    <if(first(actions))>
if actionIndex == <index>:
    <actions.(index)>
<elseif(rest(actions))>
    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n" >>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
    <actions:{index|
    <if(first(actions))>
        if predIndex == <index>:
            return <actions.(index)>
    <elseif(rest(actions))>
        elif predIndex == <index>:
            return <actions.(index)>
    <endif> }; separator="\n"

>>

RuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble, exceptions) ::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
<def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif>}>):
    <localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
        <if(exceptions)>
            <exceptions; separator="\n">
        <else>
            except RecognitionException as re:
                localctx.exception = re
                self._errHandler.reportError(self, re)
                self._errHandler.recover(self, re)
LeftRecursiveRuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble) ::= <<

<ruleCtx>
<altLabelCtxs>({l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p:int=0<if(currentRule.args)> , args:{a | , <a>}><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
        except RecognitionException as re:
            localctx.exception = re
            self._errHandler.reportError(self, re)
            self._errHandler.recover(self, re)
        finally:
            <finallyAction>
            self.unrollRecursionContexts(_parentctx)
            return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
    <if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel; format="cap">Context(self, localctx)<endif>
    self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
    <CodeBlockForAlt(currentOuterMostAltCodeBlock=outerMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
    <locals; separator="\n">

<preamble; separator="\n">
<ops; separator="\n">>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
;if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)
<alt>
}; separator="\n">
else:
<error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)
<alt>
    pass}; separator="\n">
else:
<error>

>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<preamble; separator="\n">
if <expr>:
<alts; separator="\n">
<else if ( !(<followExpr>) ) <error>!>

>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
<alts; separator="\n">
self.state = <choice.loopBackStateNumber>
self._errHandler.sync(self)
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```
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
    self.state = <choice.blockStartStateNumber> <! alt block decision !>
    self._errHandler.sync(self)
    <preamble; separator="\n">
    while True:
        <alts; separator="\n">
        self.state = <choice.stateNumber> <! loopback/exit decision !>
        self._errHandler.sync(self)
        <iteration>
        if not (<loopExpr>):
            break
        >>

    // LL(*) stuff

    AltBlock(choice, preamble, alts, error) ::= <<
        self.state = <choice.stateNumber>
        <!_errHandler.sync(this);!>
        <if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
        <preamble; separator="\n">
        la_ = self._interp.adaptivePredict(self._input,choice.decision,self._ctx)
        <alts:{alt |
        if la_ == <i>
        <alt>
        pass
        }; separator="\nel">  
    >>

    OptionalBlock(choice, alts, error) ::= <<
        self.state = <choice.stateNumber>
        <!_errHandler.sync(this);!>
        la_ = self._interp.adaptivePredict(self._input,choice.decision,self._ctx)
        <alts:{alt |
        if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
        <alt>
        }; separator="\nel">  
    >>

    StarBlock(choice, alts, sync, iteration) ::= <<
        self.state = <choice.stateNumber>
        self._errHandler.sync(self)
```

---

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```python
_alt = self._interp.adaptivePredict(self._input, <choice.decision>, self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
    if _alt==1<if(!choice.ast.greedy)>+1<endif>:
        <iteration>
        <alts> <! should only be one !>
        self.state = <choice.loopBackStateNumber>
        self._errHandler.sync(self)
        _alt = self._interp.adaptivePredict(self._input, <choice.decision>, self._ctx)
    >>
    PlusBlock(choice, alts, error) ::= <<
        self.state = <choice.blockStartStateNumber> <! alt block decision !>
        self._errHandler.sync(self)
        _alt = 1<if(!choice.ast.greedy)>+1<endif>
        while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
            <alts:{alt|
                if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
                    <alt>
            }; separator="\nel">
            else:
                <error>
                self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
                self._errHandler.sync(self)
                _alt = self._interp.adaptivePredict(self._input, <choice.decision>, self._ctx)
        >>
    Sync(s) ::= "sync(<s.expecting.name>)"
    ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"
    TestSetInline(s) ::= <<
        <s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator=" or ">
    >>
    // Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
        ((<shiftAmount>) & ~0x3f) == 0
    >>
    // produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
        (testShiftInRange((<offsetShiftVar(s.varName, bits.shift)>)) & ((1 \< <offsetShiftVar(s.varName, bits.shift)> & (<bits.ttypes:{ttype | (1 \< <offsetShiftType(ttype, bits.shift)>)>}; separator=" | ")) != 0)
```
isZero ::= [ "0":true, default:false ]

offsetShiftVar(shiftAmount, offset) ::= <%
  if(!isZero.(offset)) (shiftAmount - offset) <else> shiftAmount <endif>
%

offsetShiftType(shiftAmount, offset) ::= <%
  if(!isZero.(offset)) (parser.name.(shiftAmount) - offset) <else> parser.name.(shiftAmount) <endif>
%

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
  bits.ttypes:{ttype | s.varName==parser.name.ttype}; separator=" or ">
%

cases(ttypes) ::= <<
  if token in [ttypes:{t | parser.name.t}; separator=", "]:
>>

InvokeRule(r, argExprsChunks) ::= <<
  self.state = r.stateNumber
  if(r.labels)<r.labels:{l | labelref(l) = }><endif> self.(r.name)(if(r.ast.options.p)<r.ast.options.p>if(argExprsChunks),<endif><expr><argExprsChunks>)
>>

MatchToken(m) ::= <<
  self.state = m.stateNumber
  if(m.labels)<m.labels:{l | labelref(l) = }><endif> self.match(parser.name.m.name)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>

CommonSetStuff(m, expr, capture, invert) ::= <<
  self.state = m.stateNumber
  if(m.labels)<m.labels:{l | labelref(l) = }><endif> self._input.LT(1)<endif>
  <capture>
  if(invert) if <m.varName> <= 0 or <expr> else if not(<expr>) <endif>:
    <if(m.labels)<m.labels:{l | labelref(l) = }><endif> self._errHandler.recoverInline(self)
  else:
    self.consume()
>>
Wildcard(w) ::= <<
self.state = <w.stateNumber>
<w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
    <p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg) ::= "_type = <arg>"
LexerChannelCommand(arg) ::= "_channel = <arg>"
LexerModeCommand(arg) ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"
TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type())"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenId)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else self._input.getText((<ctx(r)>.<r.label>.start, <ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
  def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
  def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
  def <t.name>(self, i:int=None):
>>

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if i is None:
    return self.getTokens(<parser.name>.<t.name>)
else:
    return self.getToken(<parser.name>.<t.name>, i)

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)
>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i:int=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
\tr becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct, ctorAttrs, attrs, getters, dispatchMethods, interfaces, extensionMembers, superClass={ParserRuleContext}) ::= <<
class <struct.name>(<superClass>):
    def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,

super().__init__(parent, invokingState)
self.parser = parser

def getRuleIndex(self):
    return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
def copyFrom(self, ctx:ParserRuleContext):
    super().copyFrom(ctx)
    <struct.attrs:{a | self.<a.name> = ctx.<a.name}>; separator="\n"/>
<endif>

<dispatchMethods; separator="\n">>
<extensionMembers; separator="\n">>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name; format="cap">Context
        super().__init__(parser)
        <attrs:{a | <a>}; separator="\n">self.copyFrom(ctx)
<getters:{g | <g>}; separator="\n">>
<dispatchMethods; separator="\n">>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
    if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
    if hasattr(visitor, "visit<struct.derivedFromName; format="cap">" ):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
else:
    return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)>d.initValue<else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName, opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src, name) ::= "$<name>=$<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format=’cap’>Context(self, <parser.name>.<ruleName; format=’cap’>Context(self, _parentctx, _parentState))
<if(label)>localctx.<label> = _prevctx<endif>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
    _prevctx = localctx
>>
LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>
class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

atn = ATNDeserializer().deserialize(serializedATN())
decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<rest(lexer.modes):{m| <m> = <i> }; separator="\n";>
<lexer.tokens:{k | <k> = <lexer.tokens.(k)>; separator="\n", wrap, anchor}> 
modeNames = [ <lexer.modes:{m| "<m>"} ; separator="\", wrap, anchor>] 

literalNames = [ "\<INVALID>" , 
<lexer.literalNames:{t | <t>; separator="\", wrap, anchor}> 

symbolicNames = [ "\<INVALID>" , 
<lexer.symbolicNames:{t | <t>; separator="\", wrap, anchor}> 

ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator="\", wrap, anchor>] 

grammarFileName = "<lexer.grammarFileName>"

def __init__(self, input=None):
    super().__init__(input)
    self.checkVersion("<lexerFile.ANTLRVersion>")
    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
    self._actions = None
    self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write("<model.serialized; wrap={")<
        buf.write("}
        buf.write(">")
    return buf.getvalue()

/** Using a type to init value map, try to init a type; if not in table
  * must be an object, default value is "null".
  */
initValue(typeName) ::= <<
<javatypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-sources-3-
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
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* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/codegen/target/CSharpTarget.java

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*/

/** How to generate rules derived from left-recursive rules.
* These rely on recRuleAltPredicate(),

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/*
* recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
* templates in main language.stg
*/

group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction, userRetvals, leftRecursiveRuleRefLabels) ::= <<
    <ruleName>
    <if(userRetvals)>
      returns [<userRetvals>]
    </if>
    : ( {} <primaryAlts: [alt | <alt.altText> ]; separator="\n   | ">
        )
    ( <opAlts; separator="\n   | ">)
*:>

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
    {<pred>?<precOption>=<opPrec>}
    <alt.altText>
*:>>

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
  jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
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 */

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
  tokenVocab=ANTLRParser;
  ASTLabelType=GrammarAST;
}

@header {
  package org.antlr.v4.parse;

  import org.antlr.v4.misc.*;
  import org.antlr.v4.tool.*;
  import org.antlr.v4.tool.ast.*;
}

@members {
  private String ruleName;
  private int currentOuterAltNumber; // which outer alt of rule?
  public int numAlts; // how many alts for this rule total?

  public void setAltAssoc(AltAST altTree, int alt) {}
  public void binaryAlt(AltAST altTree, int alt) {}
  public void prefixAlt(AltAST altTree, int alt) {}
  public void suffixAlt(AltAST altTree, int alt) {}
  public void otherAlt(AltAST altTree, int alt) {}
  public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public rec_rule returns [boolean isLeftRec]
  @init
  {
    currentOuterAltNumber = 1;
  }
  ^(@RULE id=RULE_REF {ruleName=$id.getText();})
  ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
(^RETURNS a=ARG_ACTION {setReturnValue($a);})?
// ( ^THROWS .+) ? don't allow
   ( ^LOCALS ARG_ACTION )? // TODO: copy these to gen'd code
   (^OPTIONS .*)
| ( ^AT ID ACTION ) // TODO: copy
)*
ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
exceptionGroup
)
;

exceptionGroup
   :exceptionHandler* finallyClause?
   :

exceptionHandler
   : ^(CATCH ARG_ACTION ACTION)
   :

finallyClause
   : ^(FINALLY ACTION)
   :

ruleModifier
   : PUBLIC
| PRIVATE
| PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts =$start.getChildCount();}
:^{BLOCK
  (o=outerAlternative
    [if ($o.isLeftRec) $isLeftRec = true;]
    [currentOuterAltNumber++;]
  )+
  )
  :

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
   : (binary)=> binary
       {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
   | (prefix)=> prefix
       {prefixAlt((AltAST)$start, currentOuterAltNumber);}
   | (suffix)=> suffix
binary
: ^ ( ALT elementOptions? recurse element* recurse epsilonElement* )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
  
prefix
: ^ ( ALT elementOptions?
  ({!((CommonTree)input.LT(1)).getText().equals(ruleName)}? element)+
  recurse epsilonElement*
  )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
  
suffix
: ^ ( ALT elementOptions? recurse element+ )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
  
nonLeftRecur
: ^ ( ALT elementOptions? element+ )
  
recurse
: ^ ( ASSIGN ID recurseNoLabel )
  | ^ ( PLUS_ASSIGN ID recurseNoLabel )
  | recurseNoLabel
  
recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
: ^ ( ASSIGN ID s=token {St = $s.t;})
  | ^ ( PLUS_ASSIGN ID s=token {St = $s.t;})
  | b=STRING_LITERAL {St = $b;}
  | ^ ( b=STRING_LITERAL elementOptions ){$t = $b;}
  | ^ ( c=TOKEN_REF elementOptions ){$t = $c;}
  | c=TOKEN_REF {St = $c;}
  
elementOptions
: ^ ( ELEMENT_OPTIONS elementOption* )
  
elementOption
:ID
  | ^(ASSIGN ID ID)
  | ^(ASSIGN ID STRING_LITERAL)
  | ^(ASSIGN ID ACTION)
  | ^(ASSIGN ID INT)

; element
  :atom
  | ^(NOT element)
  | ^(RANGE atom atom)
  | ^(ASSIGN ID element)
  | ^(PLUS_ASSIGN ID element)
  | ^(SET setElement+)
   | RULE_REF
| ebnf
| epsilonElement ;

epsilonElement
  :ACTION
  | SEMPRE
  | EPSILON
  | ^(ACTION elementOptions)
  | ^(SEMPRE elementOptions)

; setElement
  :^(STRING_LITERAL elementOptions)
  | ^(TOKEN_REF elementOptions)
  | STRING_LITERAL
  | TOKEN_REF

; ebnf: block
  | ^( OPTIONAL block )
  | ^( CLOSURE block )
  | ^( POSITIVE_CLOSURE block )

; block
  :^(BLOCK ACTION? alternative+)

; alternative
  :^(ALT elementOptions? element+)

;
atom
  ^(RULE_REF ARG_ACTION? elementOptions?)
    | ^(STRING_LITERAL elementOptions)
  STRING_LITERAL
    | ^(TOKEN_REF elementOptions)
  TOKEN_REF
    | ^(WILDCARD elementOptions)
  WILDCARD
  ^(DOT ID element)
  
Found in path(s):
  * /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
    jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
No license file was found, but licenses were detected in source scan.

/*
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 */

/** templates used to generate make-compatible dependencies */
Generate "f : x, y, z" dependencies for input dependencies and generated files. in and out are File objects. For example, you can say <f.canonicalPath>

dependencies(grammarFileName,in,out) ::= <<
  <if(in)><grammarFileName>: <in; separator=", "><endif>
  <out:{f | <f> : <grammarFileName>}; separator="\n">
>>

Found in path(s):
*/

The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars. Parses trees created by ANTLRParser.g.

Rather than have multiple tree grammars, one for each visit, I'm
creating this generic visitor that knows about context. All of the
boilerplate pattern recognition is done here. Then, subclasses can
override the methods they care about. This prevents a lot of the same
context tracking stuff like "set current alternative for current
rule node" that is repeated in lots of tree filters.
*/

tree grammar GrammarTreeVisitor;
  options {
    language = Java;
    tokenVocab = ANTLRParser;
    ASTLabelType = GrammarAST;
  }

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.Tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;

@members {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
setTreeNodeStream(nodes);
try {
Method m = getClass().getMethod(ruleName);
m.invoke(this);
}
catch (Throwable e) {
ErrorManager errMgr = getErrorManager();
if ( e instanceof InvocationTargetException ) {
e = e.getCause();
}
//e.printStackTrace(System.err);
if ( errMgr==null ) {
System.err.println("can't find rule "+ruleName+
    " or tree structure error: "+t.toStringTree()
    );
e.printStackTrace(System.err);
} else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
}
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }
public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers, ActionAST arg, ActionAST returns, GrammarAST thrws, GrammarAST options, ActionAST locals, List<GrammarAST> actions, GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers, GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }
public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }
protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }
protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }
protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }
protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex)  {
System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex)  {
System.err.println("exit "+ruleName+": "+input.LT(1));
}
}

grammarSpec
@init {
enterGrammarSpec($start);
}
@after {
exitGrammarSpec($start);
}

:   ^(	GRAMMAR ID {grammarName=$ID.text;}  
{discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}  
prequelConstructs  
{finishPrequels($prequelConstructs.firstOne);}  
rules mode*  
{finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}  
)

;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
enterPrequelConstructs($start);
}
@after {
exitPrequelConstructs($start);
}

:${firstOne=$start;} prequelConstruct+
|    ;

prequelConstruct
@init {
enterPrequelConstructs($start);
}
@after {
exitPrequelConstructs($start);
}
:   optionsSpec
|   delegateGrammars
|   tokensSpec
|   channelsSpec
|   action
;

optionsSpec
@init {
enterOptionsSpec($start);
}
@after {
exitOptionsSpec($start);
}
:^(OPTIONS option*)
;

option
@init {
enterOption($start);
boolean rule = inContext("RULE ...");
boolean block = inContext("BLOCK ...");
}
@after {
exitOption($start);
}
:   ^(a=ASSIGN ID v=optionValue)
|
   if ( block ) blockOption($ID, $v.start); // most specific first
   else if ( rule ) ruleOption($ID, $v.start);
   else grammarOption($ID, $v.start);
|

optionValue returns [String v]
@init {
enterOptionValue($start);
$v = $start.token.getText();
}
@after {
exitOptionValue($start);
delegateGrammars
  @init {
  enterDelegateGrammars($start);
  }
  @after {
  exitDelegateGrammars($start);
  }
  : ^(IMPORT delegateGrammar+)
  ;

delegateGrammar
  @init {
  enterDelegateGrammar($start);
  }
  @after {
  exitDelegateGrammar($start);
  }
  : ^(ASSIGN label=ID id=ID){importGrammar($label, $id);}
  |   id=ID{importGrammar(null, $id);}
  ;
tokensSpec
  @init {
  enterTokensSpec($start);
  }
  @after {
  exitTokensSpec($start);
  }
  : ^(TOKENS_SPEC tokenSpec+)
  ;
tokenSpec
  @init {
  enterTokenSpec($start);
  }
  @after {
  exitTokenSpec($start);
  }
  : ^(ASSIGN label=ID id=ID){importGrammar($label, $id);}
  |   id=ID{importGrammar(null, $id);}
  ;
channelsSpec
\@init 
enterChannelsSpec($start);  
}  
@after 
exitChannelsSpec($start);  
}  
: ^\langle CHANNELS channelSpec+\rangle  
;

channelSpec  
@init 
enterChannelSpec($start);  
}  
@after 
exitChannelSpec($start);  
}  
:ID\{defineChannel($ID);\}  
;

action  
@init 
enterAction($start);  
}  
@after 
exitAction($start);  
}  
: ^\langle AT sc=ID? name=ID ACTION \rangle \{globalNamedAction($sc, $name, (ActionAST)$ACTION);\}  
;

rules  
@init 
enterRules($start);  
}  
@after 
exitRules($start);  
}  
: ^\langle RULES \{discoverRules($RULES);\} (rule|lexerRule)* \{finishRules($RULES);\}\rangle  
;

mode  
@init 
enterMode($start);  
}  
@after 
exitMode($start);  
}  
:^\langle MODE ID \{currentModeName=$ID.text; modeDef($MODE, $ID);\} lexerRule* \rangle  
;
exceptionGroup
  @init {
    enterExceptionGroup($start);
  }
  @after {
    exitExceptionGroup($start);
  }
  :exceptionHandler* finallyClause?
    ;

exceptionHandler
  @init {
    enterExceptionHandler($start);
  }
  @after {
    exitExceptionHandler($start);
  }
  :^(CATCH ARG_ACTION ACTION){ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
    ;

finallyClause
  @init {
    enterFinallyClause($start);
  }
  @after {
    exitFinallyClause($start);
  }
  :^(FINALLY ACTION){finallyAction((ActionAST)$ACTION);}
    ;

locals
  @init {
    enterLocals($start);
  }
  @after {
    exitLocals($start);
  }
  :^(LOCALS ARG_ACTION)
    ;

ruleReturns
  @init {
    enterRuleReturns($start);
  }
  @after {
exitRuleReturns($start);
}
: ^(RETURNS ARG_ACTION)
;

throwsSpec
@init {
enterThrowsSpec($start);
}
@after {
exitThrowsSpec($start);
}
: ^(THROWS ID+)
;

ruleAction
@init {
enterRuleAction($start);
}
@after {
exitRuleAction($start);
}
:^ (AT ID ACTION)
;

ruleModifier
@init {
enterRuleModifier($start);
}
@after {
exitRuleModifier($start);
}
: PUBLIC
| PRIVATE
| PROTECTED
| FRAGMENT
;

lexerRuleBlock
@init {
enterLexerRuleBlock($start);
}
@after {
exitLexerRuleBlock($start);
}
:^ (BLOCK
{
currentOuterAltRoot = (GrammarAST)input.LT(1);
currentOuterAltNumber++; } 
lexerOuterAlternative 
)+ } ;

ruleBlock 
@init { 
enterRuleBlock($start); } 
@after { 
exitRuleBlock($start); } :^(BLOCK 
{ 
currentOuterAltRoot = (GrammarAST)input.LT(1); 
currentOuterAltNumber++; } 
outerAlternative 
)+ } ;

lexerOuterAlternative 
@init { 
enterLexerOuterAlternative((AltAST)$start); 
discoverOuterAlt((AltAST)$start); } 
@after { 
finishOuterAlt((AltAST)$start); 
exitLexerOuterAlternative((AltAST)$start); } :lexerAlternative ;

outerAlternative 
@init { 
enterOuterAlternative((AltAST)$start); 
discoverOuterAlt((AltAST)$start); } 
@after { 
finishOuterAlt((AltAST)$start); 
exitOuterAlternative((AltAST)$start); } :alternative ;
lexerAlternative
@init {
enterLexerAlternative($start);
}
@after {
exitLexerAlternative($start);
}
:^{(LEXER_ALT_ACTION lexerElements lexerCommand+)}
   lexerElements
;

lexerElements
@init {
enterLexerElements($start);
}
@after {
exitLexerElements($start);
}
:^{(ALT lexerElement+)}
;

lexerElement
@init {
enterLexerElement($start);
}
@after {
exitLexerElement($start);
}
:^{labeledLexerElement
  lexerAtom
  lexerSubrule
  | ACTION{actionInAlt((ActionAST)$ACTION);}
  | SEMPRED{sempredInAlt((PredAST)$SEMPRED);}
  | ^(ACTION elementOptions){actionInAlt((ActionAST)$ACTION);}
  | ^(SEMPRED elementOptions){sempredInAlt((PredAST)$SEMPRED);}
  | EPSILON
  ;
  labeledLexerElement
}@init {
enterLabeledLexerElement($start);
}
@after {
exitLabeledLexerElement($start);
}
:^{(ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;
lexerBlock
@init {
enterLexerBlock($start);
}
@after {
exitLexerBlock($start);
}
:^{BLOCK optionsSpec? lexerAlternative+}
;

lexerAtom
@init {
enterLexerAtom($start);
}
@after {
exitLexerAtom($start);
}
:	terminal
| ^{NOT blockSet}
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref

actionElement
@init {
enterActionElement($start);
}
@after {
exitActionElement($start);
}
: ACTION
| ^(ACTION elementOptions)
| SEMPRED
| ^(SEMPRED elementOptions)
;

alternative
@init {
enterAlternative((AltAST)$start);
discoverAlt((AltAST)$start);
}
@after {
finishAlt((AltAST)$start);
exitAlternative((AltAST)$start);
}
:^{(ALT elementOptions? element+)}
|^{(ALT elementOptions? EPSILON)}

lexerCommand
@init {
enterLexerCommand($start);
}
@after {
exitLexerCommand($start);
}
:^{(LEXER_ACTION_CALL ID lexerCommandExpr)}
    {lexerCallCommand(currentOuterAltNumber, SID, $lexerCommandExpr.start);}
|ID
    {lexerCommand(currentOuterAltNumber, $ID);}

lexerCommandExpr
@init {
enterLexerCommandExpr($start);
}
@after {
exitLexerCommandExpr($start);
}
:^ID
|^INT

element
@init {
enterElement($start);
}
@after {
exitElement($start);
}
:^labeledElement
|atom
|subrule
|  ACTION{actionInAlt((ActionAST)$ACTION);}
|  SEMPRED{sempredInAlt((PredAST)$SEMPRED);}
|  ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
|  ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
|^NOT blockSet)
|^NOT block)
astOperand
@init {
enterAstOperand($start);
}
@after {
exitAstOperand($start);
}
:atom
|^NOT blockSet)
|^NOT block)
;

labeledElement
@init {
enterLabeledElement($start);
}
@after {
exitLabeledElement($start);
}
:^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);} 
;

subrule
@init {
enterSubrule($start);
}
@after {
exitSubrule($start);
}
:^((blockSuffix block)
| block
 ;

lexerSubrule
@init {
enterLexerSubrule($start);
}
@after {
exitLexerSubrule($start);
}
:^((blockSuffix lexerBlock)
| lexerBlock
 ;

blockSuffix
@init {
enterBlockSuffix($start);
ebnfSuffix
@init {
enterEbnfSuffix($start);
}
@after {
exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

atom
@init {
enterAtom($start);
}
@after {
exitAtom($start);
}
:^ (DOT ID terminal)
|^ (DOT ID ruleref)
| ^ (WILDCARD elementOptions) { wildcardRef($WILDCARD); }
| WILDCARD { wildcardRef($WILDCARD); }
| terminal
| blockSet
| ruleref
;

blockSet
@init {
enterBlockSet($start);
}
@after {
exitBlockSet($start);
}
:^ (SET setElement+)
;

setElement
@init {
enterSetElement($start);
terminal
@init {
enterTerminal($start);
}
@after {
exitTerminal($start);
}

: ^(STRING_LITERAL elementOptions)
{stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions){tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}


elementOptions
@init {
enterElementOptions($start);
}
@after {
exitElementOptions($start);
}

:^ (ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)


elemeption[GrammarASTWithOptions t]
@init {
enterElementOption($start);
}
@after {
exitElementOption($start);
}

: ID {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID){elementOption(t, $id, $v);}
| ^(ASSIGN ID v=STRING_LITERAL){elementOption(t, SID, $v);}
| ^(ASSIGN ID v=ACTION){elementOption(t, SID, $v);}
| ^(ASSIGN ID v=INT){elementOption(t, SID, $v);}


Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3.jar/org/antlr/v4/parse/GrammarTreeVisitor.g
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/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.
*/

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
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*/

```
tree grammar BlockSetTransformer;
options {
    language     = Java;
    tokenVocab   = ANTLRParser;
    ASTLabelType = GrammarAST;
    output	    = AST;
    filter	    = true;
}

@header {
    package org.antlr.v4.parse;
    import org.antlr.v4.misc.Utils;
    import org.antlr.v4.misc.*;
    import org.antlr.v4.tool.*;
    import java.util.List;
    import java.util.Set;
    import java.util.HashSet;
    import java.util.ArrayList;
    import org.antlr.v4.runtime.misc.IntervalSet;
    import java.util.ArrayList;
    import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {

public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
    this(input, new RecognizerSharedState());
    this.g = g;
}
}

topdown
:^\(RULE (id=\(TOKEN\)_REF|id=\(RULE\)_REF) \{currentRuleName=$id.text;} .+
|setAlt
|ebnfBlockSet
|blockSet
;

setAlt
:\{inContext("RULE BLOCK")\}?ALT \{currentAlt = $start;\}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID)))))
ebnfBlockSet
@after {
    GrammarTransformPipeline.setGrammarPtr(g, tree);
}
:^\(ebnfSuffix blockSet\) -> ^(ebnfSuffix ^\(BLOCK<BlockAST>^\(ALT<AltAST> blockSet\))

;  
ebnfSuffix
@after \{tree = (GrammarAST)adaptor.dupNode($start);\}
:OPTIONAL
|CLOSURE
|POSITIVE_CLOSURE
;

blockSet
@init {
    boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
    GrammarTransformPipeline.setGrammarPtr(g, tree);
}
:^\{inContext("RULE")\}? // top-level: rule block and > 1 alt
-> ^(BLOCK<BlockAST>^[$BLOCK.token] ^\{ALT<AltAST>^[$BLOCK.token,"ALT"] ^\{SET[$BLOCK.token, "SET"] setElement+))
setElement[boolean inLexer] @after {
GrammarTransformPipeline.setGrammarPtr(g, Stree);
}

^(a=STRING_LITERAL elementOptions) {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| ![inLexer]?=> ^(TOKEN_REF elementOptions)
| ![inLexer]?=>  TOKEN_REF
| ![inLexer]?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
 CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
)
;

elementOptions :=^(ELEMENT_OPTIONS elementOption*)
;

elementOption :=ID
|^(ASSIGN id=ID v=ID)
|^(ASSIGN ID v=STRING_LITERAL)
|^(ASSIGN ID v=ACTION)
|^(ASSIGN ID v=INT)
;

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
jar/org/antlr/v4/parse/BlockSetTransformer.g
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Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-jar/org/antlr/v4/parse/ANTLRLexer.java
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ANTLR tool checks output templates are compatible with tool code generation.

* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.

* REQUIRED.

/* ANTLR tool checks output templates are compatible with tool code generation.*/

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str":"
  default:"None" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from antlr4 import StringIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
  # Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
    pass

  # Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames:{lname |
    # Visit a parse tree produced by <file.parserName>#<lname>.
    def visit<lname; format="cap">(self, ctx):
        return self.visitChildren(ctx)
    ]; separator="\n">

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parsers_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

atn = ATNDeserializer().deserialize(serializedATN())

decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

sharedContextCache = PredictionContextCache()

literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"<INVALID>\"", separator="", wrap, anchor> ]

symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"<INVALID>\"", separator="", wrap, anchor> ]

<parser.rules:{r | RULE_<r.name> = <r.index}>; separator="\n", wrap, anchor>

ruleNames = [ <parser.ruleNames:{r | u"<r>"}; separator="", wrap, anchor> ]

EOF = <TokenLabelType()>..EOF

<if(parser.tokens)>

<parser:(ctor)()>

<namedActions.members>

<funcs; separator="\n">

<if(sempredFuncs)>
    def sempred(self, localctx, ruleIndex, predIndex):
        if self._predicates == None:
            self._predicates = dict()
        <parser.sempredFuncs.values:{f | self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
            pred = self._predicates.get(ruleIndex, None)
            if pred is None:
                raise Exception("No predicate with index:" + str(ruleIndex))
            else:
                return pred(localctx, predIndex)

        <sempredFuncs.values; separator="\n">
    <endif>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
    <if(actionFuncs)>
    def action(self, localctx, ruleIndex, actionIndex):
        if self._actions is None:
            actions = dict()
        <recog.actionFuncs.values:{f |}

    <actionFuncs.values; separator="\n">
    <endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
    <if(actionFuncs)>
    def action(self, localctx, ruleIndex, actionIndex):
        if self._actions is None:
            actions = dict()
        <recog.actionFuncs.values:{f |}
actions[<f.ruleIndex>] = self.<f.name>_action ; separator="\n">
self._actions = actions
action = self._actions.get(ruleIndex, None)
if action is not None:
    action(localctx, actionIndex)
else:
    raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
    if self._predicates is None:
        preds = dict()
    <recog.sempredFuncs.values:{f|
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
    self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>

parser_ctor(p) ::= <<
def __init__(self, input):
    super(<parser.name>, self).__init__(input)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
def <r.name>_action(self, localctx, actionIndex):
    <actions:{index|
        <if(first(actions))>
            if actionIndex == <index>:
                <actions.(index)>
            <else(rest(actions))>

elif actionIndex == <index>:
    <actions.(index)>
<endif> }; separator="\n"

/* This generates a private method since the predIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
    <actions:{index|
<if(first(actions))>
    if predIndex == <index>:
        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> ]; separator="\n"

RuleFunction(currentRule.args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions) ::= <<
def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
    self.enterRule(localctx, <currentRule.startState>, self.RULE_.<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n"
    try:
        <code>
        <postamble; separator="\n"
    <namedActions.after>
<if(exceptions)>
    <exceptions; separator="\n"
<else>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
<endif>
    finally:
        <finallyAction>
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::= <<

<ruleCtx>
<altLabelCtxs:[1 | <altLabelCtxs.(l)>]; separator="\n">

def <currentRule.name>(self, _p=0<if(currentRule.args), <args:{a | , <a>}><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
        except RecognitionException as re:
            localctx.exception = re
            self._errHandler.reportError(self, re)
            self._errHandler.recover(self, re)
        finally:
            <finallyAction>
            self.unrollRecursionContexts(_parentctx)
        return localctx
    >>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel; format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>  

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>
LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
    pass}; separator="\n">
else:
  <error>
>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
    pass}; separator="\n">
else:
  <error>
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">
<else if (!(<followExpr>)) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
<iteration>
>>
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n"
while True:
  <alts; separator="\n"
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration
    if not (<loopExpr>):
      break
  
  >>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)> <labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
  la_ = self._interp.adaptivePredict(self._input, <choice.decision>, self._ctx)
  <alts:{alt |
    if la_ == <i>
    <alt>
    pass
  }; separator="\n">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
la_ = self._interp.adaptivePredict(self._input, <choice.decision>, self._ctx)
<alts:{alt |
  if la_ == <i><if(!choice.ast.greedy)>+1<endif>
  <alt>
  ]}; separator="\n">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input, <choice.decision>, self._ctx)
while _alt != <choice.exitAlt> and _alt != ATN.INVALID_ALT_NUMBER:
  if _alt == 1<if(!choice.ast.greedy)>+1<endif>:
<iteration>
<alts> != should only be one !>
self.state = <choice.loopBackStateNumber>
self._errHandler.sync(self)
_al = self._interp.adaptivePredict(self._input,choice.decision),self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> != alt block decision !>
self._errHandler.sync(self)
_al = 1| if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
      if _alt == <i>| if(!choice.ast.greedy)>+1<endif>:
        <alt>
      }; separator=":\n">
  else:
    <error>
      self.state = <choice.loopBackStateNumber> != loopback/exit decision !>
      self._errHandler.sync(self)
      _al = self._interp.adaptivePredict(self._input,choice.decision),self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
  <s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
    bits)><endif>}; separator=" or ">

>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
  ((<shiftAmount>) & ~0x3f) == 0

>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
  (testShiftInRange([<offsetShiftVar(s.varName, bits.shift)>]) & ((1 \< <offsetShiftVar(s.varName,
    bits.shift)> ) & (bits.ttypes:{ttype | (1 \< <offsetShiftType(ttype, bits.shift)>>); separator=" | "})) != 0)
%

isZero ::= [
  "0":true,
  default:false
]
offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>
offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>
// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>
cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>
InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>
MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"
CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
self.consume()
>>
Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()

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// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
  self.state = <p.stateNumber>
  if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate> <if(failChunks), <failChunks> <elseif(p.msg), <p.msg> <endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
  catch (<catchArg>) {
    <catchAction>
  }
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)  ::= "_type = <arg>"
LexerChannelCommand(arg)  ::= "_channel = <arg>"
LexerModeCommand(arg)  ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"

// How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"
TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type())"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else self._input.getText((<ctx(r)>.<r.label>.start, <ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None #<TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 #<TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() #<TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None #<r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() #<rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
return self.getToken(<parser.name>.<t.name>, i)

ContextRuleGetterDecl(r) ::= <<
    def <r.name>(self):
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>, 0)
>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
    def <r.name>_list(self):
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
    def <r.name>(self, i=None):
        if i is None:
            return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
        else:
            return self.getTypedRuleContext(<parser.name>.<r.ctxName>, i)
>>

LexerRuleContext() ::= "RuleContext"
/** The rule context name is the rule followed by a suffix; e.g., 
  *r becomes rContext.
  */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct, ctorAttrs, attrs, getters, dispatchMethods, interfaces, extensionMembers, superClass={ParserRuleContext}) ::= <<
    class <struct.name>(<superClass>):
        def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
            super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
            self.parser = parser
            <attrs:{a | <a>}; separator=" "; >
def getRuleIndex(self):
    return <parser.name>.RULE_<struct.derivedFromName>

@if(struct.provideCopyFrom) <! don't need copy unless we have subclasses !>
def copyFrom(self, ctx):
    super(<parser.name>.<struct.name>, self).copyFrom(ctx)
    <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">
<endif>

<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):
    def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
        super(<parser.name>.<struct.name>, self).__init__(parser)
        self.copyFrom(ctx)

<getters:{g | <g>}; separator="\n">
<dispatchMethods; separator="\n">
>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
    if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
    if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>
AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelf(\(x\)) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName,ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
_self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    rest(lexer.modes):{m| <m> = <i> }; separator="\n"

    < lexer.tokens:{k | <k> = <lexer.tokens.(k)> }; separator="\n", wrap, anchor >

    modeNames = [ <lexer.modes:{m| u"<m>" }; separator=", ", wrap, anchor > ]

    literalNames = [ u"\<INVALID>" ,
                     <lexer.literalNames:{t | u"<t>" }; separator=", ", wrap, anchor > ]

    symbolicNames = [ u"\<INVALID>" ,
                      <lexer.symbolicNames:{t | u"<t>"}; separator=", ", wrap, anchor > ]

    ruleNames = [ <lexer.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor > ]

    grammarFileName = u"<lexer.grammarFileName>"

def __init__(self, input=None):

    super(<lexer.name>, self).__init__(input)

    self.checkVersion("<lexerFile.ANTLRVersion>")

    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())

    self._actions = None

    self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>
SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write(u"<model.serialized; wrap={"\n        buf.write(u"}>")
    return buf.getvalue()

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-
  jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
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*/
/
This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/*stg files, according to the chosen locale. This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
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lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.);
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}

/** force filtering (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}

// ignore comments right away

COMMENT      :   '/''/'' ( options {greedy=false;} : . )*''*/'' {delegate.text($text);}

; 

LINE_COMMENT :   '/''/'' (~(''\n''|''\r'')* ''\r''? ''\n'') {delegate.text($text);}

;
SET_NONLOCAL_ATTR
':$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ':'
{
deleagte.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
':$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;

QUALIFIED_ATTR
':$' x=ID '!' y=ID {input.LA(1)!='(')? {delegate.qualifiedAttr($text, $x, $y);}
;

SET_ATTR
':$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ':'
{
deleagte.setAttr($text, $x, $expr);
}
;

ATTR
':$' x=ID {delegate.attr($text, $x);}
;

// Anything else is just random text

TEXT
@init {StringBuilder buf = new StringBuilder();}@after {delegate.text(buf.toString());}
:(c=~(' '| '$') {buf.append((char)$c);}
|'\$' {buf.append('$');}
|'\' c=~('$') {buf.append('\').append((char)$c);}[
|!isIDStartChar(input.LA(2)))? => '$' {buf.append('$');}
]+;

fragment
ID :('a'..'z'|'A'..'Z'|'.'|'_'|'/'|'
;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
:~='=' (~';')*
fragment
WS: ('\t'|'\n'|'\r')+ ;

Found in path(s):
* /opt/cola/permits/1151705545_1617966567.94/0/antlr4-4-5-1-sources-3-jar/org/antlr/v4/parse/ActionSplitter.g

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/*
*/
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This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>:<line>:<column>:
message(id, text) ::= "(<id>) <text>
report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>
wantsSingleLineMessage() ::= "false"
1.4734 clout 1.0.1

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1.4735 jaggeryjs-hostobjects-feed 0.12.6

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1.4738 unicode-match-property-value-ecmascript 2.0.0

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_credential.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_credential.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
    lib/gssapi/mechglue/g_sign.c
    lib/gssapi/mechglue/g_store_credential.c
    lib/gssapi/mechglue/g_unseal.c
    lib/gssapi/mechglue/g_userok.c
    lib/gssapi/mechglue/g_utils.c
    lib/gssapi/mechglue/g_verify.c
    lib/gssapi/mechglue/gssd_pname_to_uid.c
    lib/gssapi/mechglue/mglueP.h
    lib/gssapi/mechglue/oid_ops.c
    lib/gssapi/spnego/gssapiP_spnego.c
    lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Licence: X11

Files: aclocal.m4 package
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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction shared with many OS’s install programs.

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-- vile: txtmode file-encoding=utf-8
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-- vile: txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

1.4751 libcrypt 4.4.18-4
1.4751.1 Available under license :
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1.4752 prettier 1.18.2
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1.4753 dot-case 3.0.4
1.4753.1 Available under license:

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1.4754 boost 1.67.0-13+deb10u1
1.4754.1 Available under license :

HOW TO GENERATE THE COPYRIGHT FILE
---------------------------------------

The debian/copyright file for Boost is very complicated, because the
library has accumulated a huge number of files and contributors over
the years. It would be intractable to fill it by hand, and FTP masters
do not like the previous choice to just generically indicate the Boost
Software License and see each individual file for the differences.

Fortunately Boost itself already contains a small program, called bcp,
that searches for common regular expressions in each file to find the
file's license and copyright holders. The program has some
deficiencies, but is overall a good foundation to automatically
generate a debian/copyright file.

A patched fork of the bcp program is maintained by Giovanni Mascellani
in the repository [1].

[1] https://salsa.debian.org/gio/boost-copyright

It can be compiled with qmake and make. Then you change dir to where
you have unpacked the Boost tarball and run something like:

    find -type f | grep -v ^./debian/ | grep -v ^./.pc/ | bcp --report-debian --read-from-stdin debian/copyright

This will erase and regenerate the debian/copyright file. The
boost-copyright repository already contains a skeleton of the
copyright file (called manual_copyright), which is automatically
Since bcp cannot identify the copyright status for each single file, because some of them do not actually contain such information, the manual_copyright file contains some blanket stanzas for the main Boost directories, so that the copyright for each not better identified file is (reasonably) assigned to the people responsible for that subdirectory. The subdirectories loosely correspond to the individual Boost libraries. Also, a public domain dedication is presumed for the few and very simple files that are neither recognized by the program, neither contained in one of the well-known subdirectories.

The script generator.py, in the boost-copyright repository, can be used to manually regenerate most of manual_copyright based on the meta/repositories.json files available in the Boost distribution. However it is recommended to carefully check its output, because there will be some inaccuracies.

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Boost
Upstream-Contact: https://www.boost.org/
Files-Excluded:
  *.o
  *.js
  *.rc
  *.chm
  *.vcproj
  *.vcxproj
  *.vcxproj.filters
  */resource.h
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Libs/Type_Traits/Doc/Is_Final.Qbk
Libs/Type_Traits/Include/Boost/Type_Traits/Is_Final.Hpp
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files:
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libs/atomic/include/boost/atomic/capabilities.hpp
libs/atomic/include/boost/atomic/detail/addressof.hpp
libs/atomic/include/boost/atomic/detail/atomic_flag.hpp
libs/atomic/include/boost/atomic/detail/bitwise_fp_cast.hpp
libs/atomic/include/boost/atomic/detail/caps_gcc_atomic.hpp
libs/atomic/include/boost/atomic/detail/extra_fp_operations.hpp
libs/atomic/include/boost/atomic/detail/extra_fp_operations_fwd.hpp
libs/atomic/include/boost/atomic/detail/extra_fp_ops_emulated.hpp
libs/atomic/include/boost/atomic/detail/extra_fp_ops_generic.hpp
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libs/atomic/include/boost/atomic/detail/extra_ops_gcc_x86.hpp
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libs/log/example/event_log/Jamfile.v2
libs/log/example/event_log/main.cpp
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libs/log/include/boost/log/utility/string_literal.hpp
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libs/log/index.html
libs/log/src/alignment_gap_between.hpp
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libs/log/src/posix/object_name.cpp
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libs/log/src/record_ostream.cpp
libs/log/src/setup/default_filter_factory.cpp
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libs/log/include/boost/log/sinks/text_ipc_message_queue_backend.hpp
libs/log/include/boost/log/utility/ipc/reliable_message_queue.hpp
libs/log/include/boost/log/utility/permissions.hpp
libs/log/src/posix/ipc_reliable_message_queue.cpp
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libs/winapi/include/boost/winapi/handles.hpp
libs/winapi/include/boost/winapi/heap_memory.hpp
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libs/winapi/include/boost/winapi/local_memory.hpp
libs/winapi/include/boost/winapi/memory.hpp
libs/winapi/include/boost/winapi/mutex.hpp
libs/winapi/include/boost/winapi/security.hpp
libs/winapi/include/boost/winapi/semaphore.hpp
libs/winapi/include/boost/winapi/srw_lock.hpp
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libs/polygon/benchmark/voronoi_benchmark.cpp
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libs/polygon/doc/voronoi_advanced_tutorial.htm
libs/polygon/doc/voronoi_basic_tutorial.htm
libs/polygon/doc/voronoi_benchmark.htm
libs/polygon/doc/voronoi_builder.htm
libs/polygon/doc/voronoi_diagram.htm
libs/polygon/doc/voronoi_main.htm
libs/polygon/example/Jamfile.v2
libs/polygon/example/voronoi_advanced_tutorial.cpp
libs/polygon/example/voronoi_basic_tutorial.cpp
libs/polygon/example/voronoi_visualizer.cpp
libs/polygon/include/boost/polygon/detail/voronoi_ctypes.hpp
libs/polygon/include/boost/polygon/detail/voronoi_predicates.hpp
libs/polygon/include/boost/polygon/detail/voronoi_robust_fpt.hpp
libs/polygon/include/boost/polygon/detail/voronoi_structures.hpp
libs/polygon/include/boost/polygon/voronoi.hpp
libs/polygon/include/boost/polygon/voronoi_builder.hpp
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libs/optional/doc/01_quick_start.qbk
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libs/optional/doc/21_ref_none.qbk
libs/optional/doc/22_ref_bad_optional_access.qbk
libs/optional/doc/23_ref_optional_io.qbk
libs/optional/doc/24_ref_optional_fwd.qbk
libs/optional/doc/29_ref_optional_convenience.qbk
libs/optional/doc/html/index.html
libs/optional/include/boost/none.hpp
libs/optional/include/boost/none_fwd.hpp
libs/optional/include/boost/optional/detail/old_optional_implementation.hpp
libs/optional/include/boost/optional/detail/optional_aligned_storage.hpp
libs/optional/include/boost/optional/detail/optional_config.hpp
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libs/optional/include/boost/optional/detail/optional_relops.hpp
libs/optional/include/boost/optional/detail/optional_swap.hpp
libs/optional/include/boost/optional.hpp
libs/optional/include/boost/optional_fwd.hpp
libs/optional/test/Jamfile.v2
libs/optional/test/optional_test_common.cpp
libs/optional/test/optional_test_inplace_factory.cpp
libs/optional/test/optional_test_inplace_fail.cpp
libs/optional/test/optional_test_inplace_fail2.cpp
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libs/uuid/include/boost/uuid/detail/sha1.hpp
libs/uuid/include/boost/uuid/detail/uuid_generic.ipp
libs/uuid/include/boost/uuid/nil_generator.hpp
libs/uuid/include/boost/uuid/string_generator.hpp
libs/uuid/include/boost/uuid/uuid.hpp
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libs/phoenix/include/boost/phoenix/stl/container.hpp
libs/phoenix/include/boost/phoenix/stl/container.hpp
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libs/thread/doc/once.qbk
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libs/thread/include/boost/thread/condition.hpp
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libs/thread/include/boost/thread/detail/thread_group.hpp
libs/thread/include/boost/thread/detail/thread_heap_alloc.hpp
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libs/icl/example/user_groups_/user_groups.cpp
libs/icl/include/boost/icl/detail/notate.hpp
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libs/icl/include/boost/icl/split_interval_set.hpp
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libs/spirit/classic/example/fundamental/more_calculators/ast_calc2.cpp
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libs/spirit/classic/example/fundamental/tree_calc_grammar.hpp
libs/spirit/classic/test/ast_calc_tests.cpp
libs/spirit/classic/test/multi_pass_tests.cpp
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libs/spirit/include/boost/spirit/home/classic/tree/ast.hpp
libs/spirit/include/boost/spirit/home/classic/tree/impl/parse_tree_utils.ipp
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libs/graph_parallel/include/boost/graph/distributed/adjlist/serialization.hpp
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libs/parameter/include/boost/parameter/aux_/cast.hpp
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Files:
libs/serialization/performance/xml/high_resolution_timer.hpp
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libs/context/src/asm/make_arm64_aapcs_elf_gas.S
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Files:
libs/exception/build/Jamfile.v2
libs/exception/include/boost/exception/errinfo_file_handle.hpp
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libs/sort/include/boost/sort/parallel_stable_sort/parallel_stable_sort.hpp
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libs/phoenix/example/invert.cpp
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libs/math/tools/zeta_data.cpp
libs/math/vc71_fix/instantiate_all.cpp
libs/multiprecision/config/has_float128.cpp
libs/multiprecision/config/has_gmp.cpp
libs/multiprecision/config/has_intel_quad.cpp
libs/multiprecision/config/has_mpfi.cpp
libs/multiprecision/config/has_mpfr.cpp
libs/multiprecision/config/has_tommath.cpp
libs/multiprecision/config/Jamfile.v2
libs/multiprecision/doc/generate.sh
libs/multiprecision/doc/index.idx
libs/multiprecision/doc/Jamfile.v2
libs/multiprecision/example/cpp_bin_float_import_export.cpp
libs/multiprecision/example/cpp_bin_float_snips.cpp
libs/multiprecision/example/cpp_dec_float_snips.cpp
libs/multiprecision/example/cpp_int_import_export.cpp
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libs/pool/test/test_bug_1252.cpp
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libs/regex/example/timer/vc6-stlport.mak
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libs/regex/test/concepts/range_concept_check.cpp
libs/regex/test/concepts/test_bug_11988.cpp
libs/regex/test/config_info/regex_config_info.cpp
libs/regex/test/de_fuzz/Jamfile.v2
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libs/regex/test/named_subexpressions/named_subexpressions_test.cpp
libs/regex/test/noeh_test/Jamfile.v2
libs/regex/test/object_cache/object_cache_test.cpp
libs/regex/test/pathology/bad_expression_test.cpp
libs/regex/test/pathology/recursion_test.cpp
libs/regex/test/profile/Makefile
libs/regex/test/regress/basic_tests.cpp
libs/regex/test/regress/bcb6.mak
libs/regex/test/regress/gcc.mak
libs/regex/test/regress/info.hpp
libs/regex/test/regress/main.cpp
libs/regex/test/regress/sunpro.mak
libs/regex/test/regress/test.hpp
libs/regex/test/regress/test_alt.cpp
libs/regex/test/regress/test_anchors.cpp
libs/regex/test/regress/test_asserts.cpp
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libs/regex/test/regress/test_simple_repeats.cpp
libs/regex/test/regress/test_tricky_cases.cpp
tools/auto_index/src/file_scanning.cpp
tools/auto_index/src/index_generator.cpp
tools/bcp/add_dependent_lib.cpp
tools/bcp/add_path.cpp
tools/bcp/bcp.cpp
tools/bcp/bcp_imp.cpp
tools/bcp/bcp_imp.hpp
tools/bcp/copy_path.cpp
tools/bcp/doc/bcp.qbk
tools/bcp/doc/html/index.html
tools/bcp/doc/Jamfile.v2
tools/bcp/file_types.cpp
tools/bcp/fileview.cpp
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tools/bcp/licence_info.cpp
tools/bcp/licence_info.hpp
tools/bcp/main.cpp
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libs/config/test/boost_no_cxx11_addressof.ipp
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libs/static_assert/static_assert_example_1.cpp
libs/static_assert/static_assert_test.cpp
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libs/static_assert/static_assert_test_fail_2.cpp
libs/static_assert/static_assert_test_fail_3.cpp
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libs/static_assert/static_assert_test_fail_6.cpp
libs/type_traits/include/boost/type_traits/detail/ice_and.hpp
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libs/tokenizer/include/boost/token_functions.hpp
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libs/tokenizer/introduc.htm
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libs/tokenizer/test/examples.cpp
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libs/ptr_container/include/boost/ptr_container/detail/default_deleter.hpp
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tools/build/test/conditionals_multiple.py
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libs/compute/test/test_array.cpp
libs/compute/test/test_async_wait.cpp
libs/compute/test/test_async_wait_guard.cpp
libs/compute/test/test_binary_search.cpp

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libs/compute/test/test_buffer.cpp
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File: libs/compute/test/test_uniform_real_distribution.cpp
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libs/compute/test/test_zip_iterator.cpp
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libs/local_function/include/boost/local_function/aux_/preprocessor/traits/decl_binds.hpp
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Files:
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libs/property_tree/doc/accessing.qbk
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libs/intrusive/test/bounded_pointer.hpp
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libs/bimap/doc/html/boost_bimap/examples/multiindex_to_bimap_path__bidirectional_map.html
libs/bimap/doc/html/boost_bimap/examples/multiindex_to_bimap_path__hashed_indices.html
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libs/graph/test/bipartite_test.cpp
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libs/graph/test/r_c_shortest_paths_test.cpp
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libs/thread/src/win32/tss_dll.cpp
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libs/iterator/doc/advance.rst
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libs/iterator/include/boost/iterator/advance.hpp
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Files:
libs/chrono/include/boost/chrono/process_cpu_clocks.hpp
libs/chrono/perf/store_now_in_vector.cpp
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libs/chrono/stopwatches/include/boost/chrono/stopwatches/reporters/process_default_formatter.hpp
libs/chrono/stopwatches/include/boost/chrono/stopwatches/simple_stopwatch.hpp

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Files:
libs/assert/include/boost/current_function.hpp
libs/assert/test/assert_test.cpp
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libs/assert/test/verify_test.cpp
libs/bind/bind_as_compose.cpp
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libs/range/test/compile_fail/adaptor/reversed_concept2.cpp
libs/range/test/compile_fail/adaptor/reversed_concept3.cpp
Files:
libs/graph/include/boost/graph/ssca_graph_generator.hpp
libs/graph/include/boost/graph/use_mpi.hpp
libs/graph/test/generator_test.cpp
libs/graph_parallel/include/boost/graph/distributed/connected_components.hpp
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libs/graph_parallel/test/distributed_strong_components_test.cpp
libs/graph_parallel/test/ssca.cpp

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libs/math/include/boost/math/special_functions/chebyshev.hpp
libs/math/include/boost/math/special_functions/chebyshev_transform.hpp
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libs/math/test/adaptive_gauss_kronrod_quadrature_test.cpp
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libs/array/include/boost/array.hpp
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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

BIRT Engine is a report engine which generates report from defined report and related data source.

BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.

You can find more information about BIRT and related technology from
http://www.eclipse.org/birt/faq/

The Website for BIRT.

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You can find the manual, samples, and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console

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In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run

   genReport xxx.rptdesign

xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by \xxx.rptdesign

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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* /opt/cola/permits/1136075514_1613674481.82/0/fis-components-lodash-isiterateecall-3-0-9-0-g7360657-1-tar-gz/fis-components-lodash._isiterateecall-7f1d9ce/index.js
```

**1.4778 perl 1.38-420.el8**

**1.4778.1 Available under license:**

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=head1 NAME

IO::Socket::INET - Object interface for AF_INET domain sockets
```
SYNOPSIS

use IO::Socket::INET;

DESCRIPTION

C<IO::Socket::INET> provides an object interface to creating and using sockets in the AF_INET domain. It is built upon the L<IO::Socket> interface and inherits all the methods defined by L<IO::Socket>.

CONSTRUCTOR

new ( [ARGS] )

Creates an C<IO::Socket::INET> object, which is a reference to a newly created symbol (see the C<Symbol> package). C<new> optionally takes arguments, these arguments are in key-value pairs.

In addition to the key-value pairs accepted by L<IO::Socket>, C<IO::Socket::INET> provides.

PeerAddr    Remote host address          <hostname>[:<port>]
PeerHost    Synonym for PeerAddr
PeerPort    Remote port or service       <service>[::<no>]|::<no>
LocalAddr   Local host bind address      hostname[:port]
LocalHost   Synonym for LocalAddr
LocalPort   Local host bind port         <service>[::<no>]|::<no>
Proto       Protocol name (or number)    "tcp" | "udp" | ...
Type        Socket type              SOCK_STREAM | SOCK_DGRAM | ...
Listen      Queue size for listen
ReuseAddr   Set SO_REUSEADDR before binding
Reuse        Set SO_REUSEADDR before binding (deprecated, prefer ReuseAddr)
ReusePort   Set SO_REUSEPORT before binding
Broadcast    Set SO_BROADCAST before binding
Timeout     Timeout value for various operations
MultiHomed   Try all addresses for multi-homed hosts
Blocking     Determine if connection will be blocking mode

If C<Listen> is defined then a listen socket is created, else if the socket type, which is derived from the protocol, is SOCK_STREAM then connect() is called. If the C<Listen> argument is given, but false, the queue size will be set to 5.
Although it is not illegal, the use of `<MultiHomed>` on a socket which is in non-blocking mode is of little use. This is because the first connect will never fail with a timeout as the connect call will not block.

The `<PeerAddr>` can be a hostname or the IP-address on the "xx.xx.xx.xx" form. The `<PeerPort>` can be a number or a symbolic service name. The service name might be followed by a number in parenthesis which is used if the service is not known by the system. The `<PeerPort>` specification can also be embedded in the `<PeerAddr>` by preceding it with a ":".

If `<Proto>` is not given and you specify a symbolic `<PeerPort>` port, then the constructor will try to derive `<Proto>` from the service name. As a last resort `<Proto>"tcp"` is assumed. The `<Type>` parameter will be deduced from `<Proto>` if not specified.

If the constructor is only passed a single argument, it is assumed to be a `<PeerAddr>` specification.

If `<Blocking>` is set to 0, the connection will be in nonblocking mode. If not specified it defaults to 1 (blocking mode).

Examples:

```perl
$sock = IO::Socket::INET->new(PeerAddr => 'www.perl.org',
    PeerPort => 'http(80)',
    Proto    => 'tcp');

$sock = IO::Socket::INET->new(PeerAddr => 'localhost:smtp(25)');

$sock = IO::Socket::INET->new(Listen    => 5,
    LocalAddr => 'localhost',
    LocalPort => 9000,
    Proto     => 'tcp');

$sock = IO::Socket::INET->new('127.0.0.1:25');

$sock = IO::Socket::INET->new(
    PeerPort => 9999,
    PeerAddr => inet_ntoa(INADDR_BROADCAST),
    Proto    => udp,
    LocalAddr => 'localhost',
    Broadcast => 1 )
    or die "Can't bind : $@
"
```

NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE
As of VERSION 1.18 all IO::Socket objects have autoflush turned on by default. This was not the case with earlier releases.

NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE

=head2 METHODS

=item sockaddr ()

Return the address part of the sockaddr structure for the socket

=item sockport ()

Return the port number that the socket is using on the local host

=item sockhost ()

Return the address part of the sockaddr structure for the socket in a text form xx.xx.xx.xx

=item peeraddr ()

Return the address part of the sockaddr structure for the socket on the peer host

=item peerport ()

Return the port number for the socket on the peer host.

=item peerhost ()

Return the address part of the sockaddr structure for the socket on the peer host in a text form xx.xx.xx.xx

=head1 SEE ALSO

L<Socket>, L<IO::Socket>

=head1 AUTHOR

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=head1 NAME

IO::Socket::UNIX - Object interface for AF_UNIX domain sockets

=head1 SYNOPSIS

use IO::Socket::UNIX;

my $SOCK_PATH = "$ENV{HOME}/unix-domain-socket-test.sock";

# Server:
my $server = IO::Socket::UNIX->new(
    Type => SOCK_STREAM(),
    Local => $SOCK_PATH,
    Listen => 1,
);

my $count = 1;
while (my $conn = $server->accept()) {
    $conn->print("Hello ". ($count++) . "\n");
}

# Client:
my $client = IO::Socket::UNIX->new(
    Type => SOCK_STREAM(),
    Peer => $SOCK_PATH,
);

# Now read and write from $client

=head1 DESCRIPTION
C<IO::Socket::UNIX> provides an object interface to creating and using sockets in the AF_UNIX domain. It is built upon the L<IO::Socket> interface and inherits all the methods defined by L<IO::Socket>.

=head1 CONSTRUCTOR

=over 4

=item new ( [ARGS] )

Creates an C<IO::Socket::UNIX> object, which is a reference to a newly created symbol (see the C<Symbol> package). C<new> optionally takes arguments, these arguments are in key-value pairs.

In addition to the key-value pairs accepted by L<IO::Socket>, C<IO::Socket::UNIX> provides.

<table>
<thead>
<tr>
<th>Type</th>
<th>Type of socket (eg SOCK_STREAM or SOCK_DGRAM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local</td>
<td>Path to local fifo</td>
</tr>
<tr>
<td>Peer</td>
<td>Path to peer fifo</td>
</tr>
<tr>
<td>Listen</td>
<td>Queue size for listen</td>
</tr>
</tbody>
</table>

If the constructor is only passed a single argument, it is assumed to be a C<Peer> specification.

If the C<Listen> argument is given, but false, the queue size will be set to 5.

=back

=head1 METHODS

=over 4

=item hostpath()

Returns the pathname to the fifo at the local end

=item peerpath()

Returns the pathname to the fifo at the peer end

=back

=head1 SEE ALSO

L<Socket>, L<IO::Socket>
=head1 AUTHOR

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* /opt/cola/permits/1244677656_1652680089.837031/0/perl-IO-1.38-420.el8.x86_64.src.rpm-cosi-expand-archive-0nagQet4/usr/lib64/perl5/IO/Select.pm
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=head1 NAME

IO::Socket - Object interface to socket communications

=head1 SYNOPSIS

use IO::Socket;

=head1 DESCRIPTION

C<IO::Socket> provides an object interface to creating and using sockets. It is built upon the L<IO::Handle> interface and inherits all the methods defined by L<IO::Handle>.

C<IO::Socket> only defines methods for those operations which are common to all types of socket. Operations which are specified to a socket in a particular
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C<IO::Socket> will export all functions (and constants) defined by L<Socket>.

=head1 CONSTRUCTOR

=item new ( [ARGS] )

Creates an C<IO::Socket>, which is a reference to a newly created symbol (see the C<Symbol> package). C<new> optionally takes arguments, these arguments are in key-value pairs. C<new> only looks for one key C<Domain> which tells new which domain the socket will be in. All other arguments will be passed to the configuration method of the package for that domain. See below.

NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE

As of VERSION 1.18 all IO::Socket objects have autoflush turned on by default. This was not the case with earlier releases.

NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE

=back

=head1 METHODS

See L<perlfunc> for complete descriptions of each of the following supported C<IO::Socket> methods, which are just front ends for the corresponding built-in functions:

socket
socketpair
bind
listen
accept
send
recv
peername (getpeername)
sockname (getsockname)
shutdown

Some methods take slightly different arguments to those defined in L<perlfunc> in attempt to make the interface more flexible. These are

=over 4
=item accept([PKG])

perform the system call C<accept> on the socket and return a new object. The new object will be created in the same class as the listen socket, unless C<PKG> is specified. This object can be used to communicate with the client that was trying to connect.

In a scalar context the new socket is returned, or undef upon failure. In a list context a two-element array is returned containing the new socket and the peer address; the list will be empty upon failure.

The timeout in the [PKG] can be specified as zero to effect a "poll", but you shouldn't do that because a new IO::Select object will be created behind the scenes just to do the single poll. This is horrendously inefficient. Use rather true select() with a zero timeout on the handle, or non-blocking IO.

=item socketpair(DOMAIN, TYPE, PROTOCOL)

Call C<socketpair> and return a list of two sockets created, or an empty list on failure.

=back

Additional methods that are provided are:

=over 4

=item atmark

True if the socket is currently positioned at the urgent data mark, false otherwise.

    use IO::Socket;
    my $sock = IO::Socket::INET->new('some_server');
    $sock->read($data, 1024) until $sock->atmark;

Note: this is a reasonably new addition to the family of socket functions, so all systems may not support this yet. If it is unsupported by the system, an attempt to use this method will abort the program.

The atmark() functionality is also exportable as sockatmark() function:

    use IO::Socket 'sockatmark';
This allows for a more traditional use of sockatmark() as a procedural socket function. If your system does not support sockatmark(), the C<use> declaration will fail at compile time.

=item connected

If the socket is in a connected state, the peer address is returned. If the socket is not in a connected state, undef is returned.

Note that connected() considers a half-open TCP socket to be "in a connected state". Specifically, connected() does not distinguish between the B<ESTABLISHED> and B<CLOSE-WAIT> TCP states; it returns the peer address, rather than undef, in either case. Thus, in general, connected() cannot be used to reliably learn whether the peer has initiated a graceful shutdown because in most cases (see below) the local TCP state machine remains in B<CLOSE-WAIT> until the local application calls shutdown() or close(); only at that point does connected() return undef.

The "in most cases" hedge is because local TCP state machine behavior may depend on the peer's socket options. In particular, if the peer socket has SO_LINGER enabled with a zero timeout, then the peer's close() will generate a RST segment, upon receipt of which the local TCP transitions immediately to B<CLOSED>, and in that state, connected() I<will> return undef.

=item protocol

Returns the numerical number for the protocol being used on the socket, if known. If the protocol is unknown, as with an AF_UNIX socket, zero is returned.

=item sockdomain

Returns the numerical number for the socket domain type. For example, for an AF_INET socket the value of &AF_INET will be returned.

=item sockopt(OPT [, VAL])

Unified method to both set and get options in the SOL_SOCKET level. If called with one argument then getsockopt is called, otherwise setsockopt is called.

=item getsockopt(LEVEL, OPT)

Get option associated with the socket. Other levels than SOL_SOCKET may be specified here.

=item setsockopt(LEVEL, OPT, VAL)

Set option associated with the socket. Other levels than SOL_SOCKET
may be specified here.

=item socktype

Returns the numerical number for the socket type. For example, for a SOCK_STREAM socket the value of &SOCK_STREAM will be returned.

=item timeout([VAL])

Set or get the timeout value (in seconds) associated with this socket. If called without any arguments then the current setting is returned. If called with an argument the current setting is changed and the previous value returned.

=back

=head1 LIMITATIONS

On some systems, for an IO::Socket object created with new_from_fd(), or created with accept() from such an object, the protocol(), sockdomain() and socktype() methods may return undef.

=head1 SEE ALSO

L<Socket>, L<IO::Handle>, L<IO::Socket::INET>, L<IO::Socket::UNIX>

=head1 AUTHOR

Graham Barr. atmark() by Lincoln Stein. Currently maintained by the Perl Porters. Please report all bugs to <perlbug@perl.org>.

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=head1 NAME

IO::Dir - supply object methods for directory handles

=head1 SYNOPSIS

use IO::Dir;
$d = IO::Dir->new(".";
if (defined $d) {
    while (defined($_ = $d->read)) { something($_); }
    $d->rewind;
    while (defined($_ = $d->read)) { something_else($_); }
    undef $d;
}

tie %dir, 'IO::Dir', ".;"
foreach (keys %dir) {
    print $_, " ", $dir{$_}->size,"\n";
}

=head1 DESCRIPTION

The C<IO::Dir> package provides two interfaces to perl's directory reading routines.

The first interface is an object approach. C<IO::Dir> provides an object constructor and methods, which are just wrappers around perl's built in directory reading routines.

=over 4
=item new ( [ DIRNAME ] )

C<new> is the constructor for C<IO::Dir> objects. It accepts one optional argument which, if given, C<new> will pass to C<open>

=back

The following methods are wrappers for the directory related functions built into perl (the trailing 'dir' has been removed from the names). See L<perlfnc> for details of these functions.

=over 4
C<IO::Dir> also provides an interface to reading directories via a tied hash. The tied hash extends the interface beyond just the directory reading routines by the use of C<lstat>, from the C<File::stat> package, C<unlink>, C<rmdir> and C<utime>.

The keys of the hash will be the names of the entries in the directory. Reading a value from the hash will be the result of calling C<File::stat::lstat>. Deleting an element from the hash will delete the corresponding file or subdirectory, provided that C<DIR_UNLINK> is included in the C<OPTIONS>.

Assigning to an entry in the hash will cause the time stamps of the file to be modified. If the file does not exist then it will be created. Assigning a single integer to a hash element will cause both the access and modification times to be changed to that value. Alternatively a reference to an array of two values can be passed. The first array element will be used to set the access time and the second element will be used to set the modification time.

=head1 SEE ALSO

L<File::stat>

=head1 AUTHOR

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1.4781 go-kit-kit 0.10.0

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>

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BIRT Runtime

What is it?

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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

BIRT Engine is a report engine which generates report from defined report and
related data source.
BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.
You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.
-----------------------------------------------
You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console
-----------------------------------------------
In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
genReport xxx.rptdesign
xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by .\xxx.rptdesign

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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  jar/io/netty/channel/pool/ChannelPoolMap.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java

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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/EventLoopTaskQueueFactory.java
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jar/io/netty/channel/ChannelHandlerMask.java

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*/
/ *
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline}. 
* 
* <h3>Sub-types</h3>
* <p>
* { @link ChannelInboundHandler} itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>{ @link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{ @link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
*/
<p>
Alternatively, the following adapter classes are provided for your convenience:
* `<ul>
* `<li>` [@link ChannelInboundHandlerAdapter] to handle inbound I/O events,
* `<li>` [@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and
* `<li>` [@link ChannelDuplexHandler] to handle both inbound and outbound events
* `</ul>
* `</p>
* `</p>

For more information, please refer to the documentation of each subtype.
* `</p>`

* `<h3>The context object</h3>`

* `<p>`

A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext] object. A [@link ChannelHandler] is supposed to interact with the [@link ChannelPipeline] it belongs to via a context object. Using the context object, the [@link ChannelHandler] can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using [@link AttributeKey])s which is specific to the handler.

* `<h3>State management</h3>`

* `<p>`

A [@link ChannelHandler] often needs to store some stateful information. The simplest and recommended approach is to use member variables:
* `<pre>`
  * public interface Message {
  *   // your methods here
  *  }
  *
  * public class DataServerHandler extends [@link SimpleChannelInboundHandler] &Message {[ 
  *  *
  *  * <b>private boolean loggedIn;</b>
  *  *
  *  * { [@code @Override] 
  *  *   public void channelRead0([@link ChannelHandlerContext] ctx, Message message) { 
  *  *     if (message instanceof LoginMessage) {
  *  *       authenticate((LoginMessage) message);
  *  *       <b>loggedIn = true;</b>
  *  *     } else (message instanceof GetDataMessage) {
  *  *       if (<b>loggedIn</b>) {
  *  *         ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
  *  *       } else {
  *  *         fail();
  *  *       }
  *  *     }
  *  *   }
  *  *   ... 
  *  * }
  *  *</pre>

* `<p>`
* Because the handler instance has a state variable which is dedicated to
  * one connection, you have to create a new handler instance for each new
  * channel to avoid a race condition where a unauthenticated client can get
  * the confidential information:
  *
  * // Create a new handler instance per channel.
  * // See [ChannelInitializer#initChannel(Channel)]
  * public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
  *     @Override
  *     public void initChannel(Channel channel) {
  *         channel.pipeline().addLast("handler", new DataServerHandler());
  *     }
  * }
  *
  * <h4>Using AttributeKeys</h4>
  *
  * Although it's recommended to use member variables to store the state of a
  * handler, for some reason you might not want to create many handler instances.
  * In such a case, you can use AttributeKeys which is provided by
  *
  * **public interface Message {**
  *     // your methods here
  * }
  * **
  *
  * **@code @Sharable**
  * **public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {**
  *     private final AttributeKey&lt;Boolean&gt; auth = AttributeKey.valueOf("auth");
  *
  *     @Override
  *     public void channelRead(ChannelHandlerContext ctx, Message message) {
  *         Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
  *         if (message instanceof LoginMessage) {
  *             authenticate((LoginMessage) o);
  *             attr.set(true);
  *         } else (message instanceof GetDataMessage) {
  *             if (Boolean.TRUE.equals(attr.get())) {
  *                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
  *             } else {
  *                 fail();
  *             }
  *         }
  *     }
  * }
  * ...
Now that the state of the handler is attached to the `@link ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends `@link ChannelInitializer`<`@link Channel`> {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(`@link Channel` channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

The `@Sharable` annotation

In the example above which used an `@link AttributeKey`, you might have noticed the `@code @Sharable` annotation.

If a `@link ChannelHandler` is annotated with the `@code @Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@link ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.

Additional resources worth reading

Please refer to the `@link ChannelHandler`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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```
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jar/io/netty/bootstrap/AbstractBootstrapConfig.java
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jar/io/netty/channel/socket/DuplexChannel.java
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jar/io/netty/channel/SelectStrategyFactory.java
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jar/io/netty/channel/ChannelGroupFuture.java
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jar/io/netty/channel/group/VoidChannelGroupFuture.java
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jar/io/netty/bootstrap/BootstrapConfig.java
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jar/io/netty/channel/DefaultSelectStrategyFactory.java
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* /opt/cola/permits/1151709684_1617966815.67/0/gson-2-7-sources-2-jar/com/google/gson/stream/MalformedJsonException.java
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1.4842 eslint-config-standard 12.0.0

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1.4843 has-values 0.1.4

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1.4846 jersey-server 2.25

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1.4854 wso2-carbon-mediation-transport-handlers 4.6.105

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That's all there is to it!
/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com) */
/* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) */
/* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. */
/* http://www.hypermall.com/ */
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* M. Welsh, 6 July 1996
*
*/

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application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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@end example

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Version 2.1, February 1999

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DRuntime: Runtime Library for the D Programming Language

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can do so. This is fundamentally incompatible with the aim of 
protecting users' freedom to change the software. The systematic 
pattern of such abuse occurs in the area of products for individuals to 
use, which is precisely where it is most unacceptable. Therefore, we 
have designed this version of the GPL to prohibit the practice for those 
products. If such problems arise substantially in other domains, we 
stand ready to extend this provision to those domains in future versions 
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. 
States should not allow patents to restrict development and use of 
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble
========

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### 1.4872 aws-sdk-go 1.36.15

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6.4.50

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.4881 libcap-ng 0.7.9 5.el8

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes
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  jar/org/haus/plexus/compiler/util/StreamPumper.java
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1.4894 org.wso2.carbon.mashup.utils 4.2.0

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1.4901 netty-transport-native-epoll

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Manifest-Version: 1.0
Implementation-Title: Netty/Transport/Native/Epoll
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
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Automatic-Module-Name: io.netty.transport.epoll
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport-native-epoll
Implementation-Version: 4.1.62.Final
Built-By: root
Bnd-LastModified: 1617125771772
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel.io.
netty.channel.socket;version="[4.1,5)",io.netty.channel.socket.nio;
ersion="[4.1,5)",io.netty.buffer.nio;briction;version="[4.1,5)",io.netty.u
til.internal;version="[4.1,5)",io.netty.util.internal.logging;version
=[4.1,5)",sun.nio.ch.resolution=optional,org.eclipse.jetty.npn;ver-
ion="[1,2)";resolution=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.channel.epoll;uses="io.netty.buffer,io.netty
.channel.io.netty.channel.socket,io.netty.channel.socket.nio,io.netty.util,
io.netty.buffer.nio.briction;version="4.1.62"
Bundle-Name: Netty/Transport/Native/Epoll
Bundle-Version: 4.1.62.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_272
Implementation-URL: https://netty.io/netty-transport-native-epoll/

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2.module_el8.0.0+39+6a9b6e22

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
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2.5 Delinquent Payments. Late payments may bear interest at the rate of 1.5% per month (or the highest rate permitted by law, if less). Google reserves the right to suspend Customers Account, for any late payments.

3. Customer Obligations.

3.1 Compliance. Customer is solely responsible for its Applications, Projects, and Customer Data and for making sure its Applications, Projects, and Customer Data comply with the AUP. Google reserves the right to review the Application, Project, and Customer Data for compliance with the AUP. Customer is responsible for ensuring all End Users comply with Customers obligations under the AUP, the Service Specific Terms, and the restrictions in Sections 3.3 and 3.5 below.
3.2 Privacy. Customer will protect the privacy and legal rights of its End Users under all applicable laws and regulations, which includes a legally adequate privacy notice communicated from Customer. Customer may have the ability to access, monitor, use, or disclose Customer Data submitted by End Users through the Services. Customer will obtain and maintain any required consents from End Users to allow Customers access, monitoring, use and disclosure of Customer Data. Further, Customer will notify its End Users that any Customer Data provided as part of the Services will be made available to a third party (i.e. Google) as part of Google providing the Services.

3.3 Restrictions. Customer will not, and will not allow third parties under its control to: (a) copy, modify, create a derivative work of, reverse engineer, decompile, translate, disassemble, or otherwise attempt to extract any or all of the source code of the Services (subject to Section 3.4 below and except to the extent such restriction is expressly prohibited by applicable law); (b) use the Services for High Risk Activities; (c) sublicense, resell, or distribute any or all of the Services separate from any integrated Application; (d) create multiple Applications, Accounts, or Projects to simulate or act as a single Application, Account, or Project (respectively) or otherwise access the Services in a manner intended to avoid incurring Fees; (e) unless otherwise set forth in the Service Specific Terms, use the Services to operate or enable any telecommunications service or in connection with any Application that allows End Users to place calls or to receive calls from any public switched telephone network; or (f) process or store any Customer Data that is subject to the International Traffic in Arms Regulations maintained by the Department of State. Unless otherwise specified in writing by Google, Google does not intend uses of the Services to create obligations under HIPAA, and makes no representations that the Services satisfy HIPAA requirements. If Customer is (or becomes) a Covered Entity or Business Associate, as defined in HIPAA, Customer will not use the Services for any purpose or in any manner involving Protected Health Information (as defined in HIPAA) unless Customer has received prior written consent to such use from Google.

3.4 Third Party Components. Third party components (which may include open source software) of the Services may be subject to separate license agreements. To the limited extent a third party license expressly supersedes this Agreement, that third party license governs Customers use of that third party component.

3.5 Documentation. Google may provide Documentation for Customers use of the Services. The Documentation may specify restrictions (e.g. attribution or HTML restrictions) on how the Applications may be built or the Services may be used and Customer will comply with any such restrictions specified.

3.6 DMCA Policy. Google provides information to help copyright holders manage their intellectual property online, but Google cannot determine whether something is being used legally or not without their input. Google responds to notices of alleged copyright infringement and terminates accounts of repeat infringers according to the process set out in the U.S. Digital Millennium Copyright Act. If Customer thinks somebody is violating Customers or its End Users copyrights and wants to notify Google, Customer can find information about submitting notices, and Google's policy about responding to notices at http://www.google.com/dmca.html.

4. Suspension and Removals.

4.1 Suspension/Removals. If Customer becomes aware that any Application, Project (including an End Users use of a Project), or Customer Data violates the AUP, Customer will immediately suspend the Application or Project (if applicable), remove the applicable Customer Data or suspend access to an End User (as may be applicable). If Customer fails to suspend or remove as noted in the prior sentence, Google may specifically request that Customer do so. If Customer fails to comply with Googles request to do so within twenty-four hours, then Google may suspend Google accounts of the applicable End Users, disable the Project or Application, and/or disable the Account (as may be applicable) until such violation is corrected.
4.2 Emergency Security Issues. Despite the foregoing, if there is an Emergency Security Issue, then Google may automatically suspend the offending, Application, Project, or End User Account. Suspension will be to the minimum extent required, and of the minimum duration, to prevent or resolve the Emergency Security Issue. If Google suspends an End User account, Application, Project, or the Customer Account, for any reason, without prior notice to Customer, at Customers request, Google will provide Customer the reason for the suspension as soon as is reasonably possible.

5. Intellectual Property Rights; Use of Customer Data; Feedback.

5.1 Intellectual Property Rights. Except as expressly set forth in this Agreement, this Agreement does not grant either party any rights, implied or otherwise, to the others content or any of the others intellectual property. As between the parties, Customer owns all Intellectual Property Rights in Customer Data and the Application or Project (if applicable), and Google owns all Intellectual Property Rights in the Services and Software.

5.2 Use of Customer Data. Google may use Customer Data and Applications only to provide the Services to Customer and its End Users and to help secure and improve the Services. For instance, this may include identifying and fixing problems in the Services, enhancing the Services to better protect against attacks and abuse, and making suggestions aimed at improving performance or reducing cost.

5.3 Customer Feedback. If Customer provides Google Feedback about the Services, then Google may use that information without obligation to Customer, and Customer hereby irrevocably assigns to Google all right, title, and interest in that Feedback.

6. Technical Support Services

6.1 By Customer. Customer is responsible for technical support of its Applications and Projects.

6.2 By Google. Subject to payment of applicable support Fees, Google will provide TSS to Customer during the Term in accordance with the TSS Guidelines. Certain TSS levels include a minimum recurring Fee as described in the "Fees" definition below. If Customer downgrades its TSS level during any calendar month, Google may continue to provide TSS at the same level and TSS Fees before the downgrade for the remainder of that month.

7. Deprecation of Services

7.1 Discontinuance of Services. Subject to Section 7.2, Google may discontinue any Services or any portion or feature for any reason at any time without liability to Customer.

7.2 Deprecation Policy. Google will announce if it intends to discontinue or make backwards incompatible changes to the Services specified at the URL in the next sentence. Google will use commercially reasonable efforts to continue to operate those Services versions and features identified at https://cloud.google.com/terms/deprecation without these changes for at least one year after that announcement, unless (as Google determines in its reasonable good faith judgment):

(i) required by law or third party relationship (including if there is a change in applicable law or relationship), or

(ii) doing so could create a security risk or substantial economic or material technical burden.
The above policy is the "Deprecation Policy."

8. Confidential Information.

8.1 Obligations. The recipient will not disclose the Confidential Information, except to Affiliates, employees, agents or professional advisors who need to know it and who have agreed in writing (or in the case of professional advisors are otherwise bound) to keep it confidential. The recipient will ensure that those people and entities use the received Confidential Information only to exercise rights and fulfill obligations under this Agreement, while using reasonable care to keep it confidential.

8.2 Required Disclosure. Notwithstanding any provision to the contrary in this Agreement, the recipient may also disclose Confidential Information to the extent required by applicable Legal Process; provided that the recipient uses commercially reasonable efforts to: (i) promptly notify the other party of such disclosure before disclosing; and (ii) comply with the other party's reasonable requests regarding its efforts to oppose the disclosure. Notwithstanding the foregoing, subsections (i) and (ii) above will not apply if the recipient determines that complying with (i) and (ii) could: (a) result in a violation of Legal Process; (b) obstruct a governmental investigation; and/or (c) lead to death or serious physical harm to an individual. As between the parties, Customer is responsible for responding to all third party requests concerning its use and its End Users use of the Services.

9. Term and Termination.

9.1 Agreement Term. The Term of this Agreement will begin on the Effective Date and continue until the Agreement is terminated as set forth in Section 9 of this Agreement.

9.2 Termination for Breach. Either party may terminate this Agreement for breach if: (i) the other party is in material breach of the Agreement and fails to cure that breach within thirty days after receipt of written notice; (ii) the other party ceases its business operations or becomes subject to insolvency proceedings and the proceedings are not dismissed within ninety days; or (iii) the other party is in material breach of this Agreement more than two times notwithstanding any cure of such breaches. In addition, Google may terminate any, all, or any portion of the Services or Projects, if Customer meets any of the conditions in Section 9.2(i), (ii), and/or (iii).

9.3 Termination for Inactivity. Google reserves the right to terminate the Services for inactivity, if, for a period exceeding 180 days, Customer: (a) has failed to access the Admin Console; (b) a Project has no active virtual machine or storage resources or an Application has not served any requests; and (c) no electronic bills are being generated.

9.4 Termination for Convenience. Customer may stop using the Services at any time. Customer may terminate this Agreement for its convenience at any time on prior written notice and upon termination, must cease use of the applicable Services. Google may terminate this Agreement for its convenience at any time without liability to Customer.

9.5 Effect of Termination. If the Agreement is terminated, then: (i) the rights granted by one party to the other will immediately cease; (ii) all Fees owed by Customer to Google are immediately due upon receipt of the final electronic bill; (iii) Customer will delete the Software, any Application, Instance, Project, and any Customer Data; and (iv) upon request, each party will use commercially reasonable efforts to return or destroy all Confidential Information of the other party.

10. Publicity. Customer is permitted to state publicly that it is a customer of the Services, consistent with the
Trademark Guidelines. If Customer wants to display Google Brand Features in connection with its use of the Services, Customer must obtain written permission from Google through the process specified in the Trademark Guidelines. Google may include Customers name or Brand Features in a list of Google customers, online or in promotional materials. Google may also verbally reference Customer as a customer of the Services. Neither party needs approval if it is repeating a public statement that is substantially similar to a previously-approved public statement. Any use of a partys Brand Features will inure to the benefit of the party holding Intellectual Property Rights to those Brand Features. A party may revoke the other partys right to use its Brand Features under this Section with written notice to the other party and a reasonable period to stop the use.

11. Representations and Warranties. Each party represents and warrants that: (a) it has full power and authority to enter into the Agreement; and (b) it will comply with all laws and regulations applicable to its provision, or use, of the Services, as applicable. Google warrants that it will provide the Services in accordance with the applicable SLA (if any).

12. Disclaimer. EXCEPT AS EXPRESSLY PROVIDED FOR IN THIS AGREEMENT, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, GOOGLE AND ITS SUPPLIERS DO NOT MAKE ANY OTHER WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR USE AND NONINFRINGEMENT. GOOGLE AND ITS SUPPLIERS ARE NOT RESPONSIBLE OR LIABLE FOR THE DELETION OF OR FAILURE TO STORE ANY CUSTOMER DATA AND OTHER COMMUNICATIONS MAINTAINED OR TRANSMITTED THROUGH USE OF THE SERVICES. CUSTOMER IS SOLELY RESPONSIBLE FOR SECURING AND BACKING UP ITS APPLICATION, PROJECT, AND CUSTOMER DATA. NEITHER GOOGLE NOR ITS SUPPLIERS, WARRANTS THAT THE OPERATION OF THE SOFTWARE OR THE SERVICES WILL BE ERROR-FREE OR UNINTERRUPTED. NEITHER THE SOFTWARE NOR THE SERVICES ARE DESIGNED, MANUFACTURED, OR INTENDED FOR HIGH RISK ACTIVITIES.

13. Limitation of Liability.

13.1 Limitation on Indirect Liability. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLES SUPPLIERS, WILL BE LIABLE UNDER THIS AGREEMENT FOR LOST REVENUES OR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, OR PUNITIVE DAMAGES, EVEN IF THE PARTY KNEW OR SHOULD HAVE KNOWN THAT SUCH DAMAGES WERE POSSIBLE AND EVEN IF DIRECT DAMAGES DO NOT SATISFY A REMEDY.

13.2 Limitation on Amount of Liability. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLES SUPPLIERS, MAY BE HELD LIABLE UNDER THIS AGREEMENT FOR MORE THAN THE AMOUNT PAID BY CUSTOMER TO GOOGLE UNDER THIS AGREEMENT DURING THE TWELVE MONTHS PRIOR TO THE EVENT GIVING RISE TO LIABILITY.

13.3 Exceptions to Limitations. These limitations of liability do not apply to breaches of confidentiality obligations, violations of a partys Intellectual Property Rights by the other party, or indemnification obligations.


14.1 By Customer. Unless prohibited by applicable law, Customer will defend and indemnify Google and its Affiliates against Indemnified Liabilities in any Third-Party Legal Proceeding to the extent arising from: (i) any Application, Project, Instance, Customer Data or Customer Brand Features; or (ii) Customers, or its End Users, use
of the Services in violation of the AUP.

14.2 By Google. Google will defend and indemnify Customer and its Affiliates against Indemnified Liabilities in any Third-Party Legal Proceeding to the extent arising solely from an Allegation that use of (a) Googles technology used to provide the Services (excluding any open source software) or (b) any Google Brand Feature infringes or misappropriates the third partys patent, copyright, trade secret, or trademark.

14.3 Exclusions. This Section 14 will not apply to the extent the underlying Allegation arises from:

a. the indemnified partys breach of this Agreement;

b. modifications to the indemnifying partys technology or Brand Features by anyone other than the indemnifying party;

c. combination of the indemnifying partys technology or Brand Features with materials not provided by the indemnifying party; or

d. use of non-current or unsupported versions of the Services or Brand Features;

14.4 Conditions. Sections 14.1 and 14.2 will apply only to the extent:

a. The indemnified party has promptly notified the indemnifying party in writing of any Allegation(s) that preceded the Third-Party Legal Proceeding and cooperates reasonably with the indemnifying party to resolve the Allegation(s) and Third-Party Legal Proceeding. If breach of this Section 14.4(a) prejudices the defense of the Third-Party Legal Proceeding, the indemnifying partys obligations under Section 14.1 or 14.2 (as applicable) will be reduced in proportion to the prejudice.

b. The indemnified party tenders sole control of the indemnified portion of the Third-Party Legal Proceeding to the indemnifying party, subject to the following: (i) the indemnified party may appoint its own non-controlling counsel, at its own expense; and (ii) any settlement requiring the indemnified party to admit liability, pay money, or take (or refrain from taking) any action, will require the indemnified partys prior written consent, not to be unreasonably withheld, conditioned, or delayed.

14.5 Remedies.

a. If Google reasonably believes the Services might infringe a third partys Intellectual Property Rights, then Google may, at its sole option and expense: (a) procure the right for Customer to continue using the Services; (b) modify the Services to make them non-infringing without materially reducing their functionality; or (c) replace the Services with a non-infringing, functionally equivalent alternative.

b. If Google does not believe the remedies in Section 14.5(a) are commercially reasonable, then Google may suspend or terminate Customers use of the impacted Services.

14.6 Sole Rights and Obligations. Without affecting either partys termination rights, this Section 14 states the parties only rights and obligations under this Agreement for any third party's Intellectual Property Rights Allegations and Third-Party Legal Proceedings.

15. U.S. Federal Agency Users. The Services were developed solely at private expense and are commercial
computer software and related documentation within the meaning of the applicable Federal Acquisition Regulations and their agency supplements.


16.1 Notices. All notices must be in writing and addressed to the other party's legal department and primary point of contact. The email address for notices being sent to Google's Legal Department is legal-notices@google.com. Notice will be treated as given on receipt as verified by written or automated receipt or by electronic log (as applicable).

16.2 Assignment. Neither party may assign any part of this Agreement without the written consent of the other, except to an Affiliate where: (a) the assignee has agreed in writing to be bound by the terms of this Agreement; (b) the assigning party remains liable for obligations under the Agreement if the assignee defaults on them; and (c) the assigning party has notified the other party of the assignment. Any other attempt to assign is void.

16.3 Change of Control. If a party experiences a change of Control (for example, through a stock purchase or sale, merger, or other form of corporate transaction): (a) that party will give written notice to the other party within thirty days after the change of Control; and (b) the other party may immediately terminate this Agreement any time between the change of Control and thirty days after it receives that written notice.

16.4 Force Majeure. Neither party will be liable for failure or delay in performance to the extent caused by circumstances beyond its reasonable control.

16.5 No Agency. This Agreement does not create any agency, partnership or joint venture between the parties.

16.6 No Waiver. Neither party will be treated as having waived any rights by not exercising (or delaying the exercise of) any rights under this Agreement.

16.7 Severability. If any term (or part of a term) of this Agreement is invalid, illegal, or unenforceable, the rest of the Agreement will remain in effect.

16.8 No Third-Party Beneficiaries. This Agreement does not confer any benefits on any third party unless it expressly states that it does.

16.9 Equitable Relief. Nothing in this Agreement will limit either party's ability to seek equitable relief.

16.10 U.S. Governing Law.

a. For U.S. City, County, and State Government Entities. If Customer is a U.S. city, county or state government entity, then the Agreement will be silent regarding governing law and venue.

b. For U.S. Federal Government Entities. If Customer is a U.S. federal government entity then the following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICES WILL BE GOVERNED BY THE LAWS OF THE UNITED STATES OF AMERICA, EXCLUDING ITS CONFLICT OF LAWS RULES. SOLELY TO THE EXTENT PERMITTED BY FEDERAL LAW: (I) THE LAWS OF THE STATE OF CALIFORNIA (EXCLUDING CALIFORNIA'S CONFLICT OF LAWS RULES) WILL APPLY IN THE ABSENCE OF APPLICABLE FEDERAL LAW; AND (II) FOR ALL CLAIMS ARISING
OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICES, THE PARTIES CONSENT TO
PERSONAL JURISDICTION IN, AND THE EXCLUSIVE VENUE OF, THE COURTS IN SANTA CLARA
COUNTY, CALIFORNIA.

c. For All Other Entities. If Customer is any entity not set forth in Section 16.10(a) or (b) then the
following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE
SERVICES WILL BE GOVERNED BY CALIFORNIA LAW, EXCLUDING THAT STATES CONFLICT OF
LAWS RULES, AND WILL BE LITIGATED EXCLUSIVELY IN THE FEDERAL OR STATE COURTS OF
SANTA CLARA COUNTY, CALIFORNIA, USA; THE PARTIES CONSENT TO PERSONAL JURISDICTION
IN THOSE COURTS.

16.11 Amendments. Except as set forth in Section 1.7(b), any amendment must be in writing, signed by both
parties, and expressly state that it is amending this Agreement.

16.12 Survival. The following Sections will survive expiration or termination of this Agreement: 5, 8, 9.5, 13,
14, and 16.

16.13 Entire Agreement. This Agreement sets out all terms agreed between the parties and supersedes all
other agreements between the parties relating to its subject matter. In entering into this Agreement, neither party has
relied on, and neither party will have any right or remedy based on, any statement, representation or warranty
(whether made negligently or innocently), except those expressly set out in this Agreement. The terms located at a
URL referenced in this Agreement and the Documentation are incorporated by reference into the Agreement. After
the Effective Date, Google may provide an updated URL in place of any URL in this Agreement.

16.14 Conflicting Terms. If there is a conflict between the documents that make up this Agreement, the
documents will control in the following order: the Agreement, and the terms at any URL.

16.15 Definitions.
"Account" means Customers Google Cloud Platform account.
"Admin Console" means the online console(s) and/or tool(s) provided by Google to Customer for
administering the Services.
"Affiliate" means any entity that directly or indirectly Controls, is Controlled by, or is under common Control
with a party.
"Allegation" means an unaffiliated third partys allegation.
"Application(s)" means any web or other application Customer creates using the Services, including any
source code written by Customer to be used with the Services, or hosted in an Instance.
"AUP" means the acceptable use policy set forth here for the Services: http://cloud.google.com/terms/aup
"Brand Features" means the trade names, trademarks, service marks, logos, domain names, and other
distinctive brand features of each party, respectively, as secured by such party from time to time.
"Committed Purchase(s)" have the meaning set forth in the Service Specific Terms.
"Confidential Information" means information that one party (or an Affiliate) discloses to the other party
under this Agreement, and which is marked as confidential or would normally under the circumstances be
considered confidental information. It does not include information that is independently developed by the
recipient, is rightfully given to the recipient by a third party without confidentiality obligations, or becomes public
through no fault of the recipient. Customer Data is considered Customers Confidential Information.
"Control" means control of greater than fifty percent of the voting rights or equity interests of a party.
"Customer Data" means content provided, transmitted, or displayed via the Services by Customer or its End
Users; but excluding any data provided when Customer creates its general Google account (either under a gmail.com
"Data Processing and Security Terms" means the terms set forth at: https://cloud.google.com/terms/data-processing-terms.

"Documentation" means the Google documentation (as may be updated from time to time) in the form generally made available by Google to its customers for use with the Services including the following: (a) Google App Engine, set forth here: https://cloud.google.com/appengine; (b) Google Cloud SQL, set forth here: https://cloud.google.com/sql; (c) Google Cloud Storage, set forth here: https://cloud.google.com/storage; (d) Google Prediction API, set forth here: https://cloud.google.com/prediction; (e) Google BigQuery Service, set forth here: https://cloud.google.com/bigquery; (f) Google Compute Engine, set forth here: https://cloud.google.com/compute; and (g) Google Cloud Datastore, set forth here: https://cloud.google.com/datastore/.

"Emergency Security Issue" means either: (a) Customers or its End Users use of the Services in violation of the AUP, which could disrupt: (i) the Services; (ii) other Customers or its End Users use of the Services; or (iii) the Google network or servers used to provide the Services; or (b) unauthorized third party access to the Services.

"End Users" means the individuals Customer permits to use the Services, Application, or Project.

"Fee Threshold" means the threshold (as may be updated from time to time), as applicable for certain Services, as set forth here: https://cloud.google.com/pricing/.

"Fees" means the applicable fees for each Service and any applicable Taxes. The Fees for each Service are set forth here: https://cloud.google.com/pricing/.

"High Risk Activities" means uses such as the operation of nuclear facilities, air traffic control, or life support systems, where the use or failure of the Services could lead to death, personal injury, or environmental damage.

"HIPAA" means the Health Insurance Portability and Accountability Act of 1996 as it may be amended from time to time, and any regulations issued under it.

"Indemnified Liabilities" means any (i) settlement amounts approved by the indemnifying party; and (ii) damages and costs finally awarded against the indemnified party and its Affiliates by a court of competent jurisdiction.

"Instance" means a virtual machine instance, configured and managed by Customer, which runs on the Services. Instances are more fully described in the Documentation.

"Intellectual Property Rights" means current and future worldwide rights under patent, copyright, trade secret, trademark, and moral rights laws, and other similar rights.

"Legal Process" means a data disclosure request made under law, governmental regulation, court order, subpoena, warrant, governmental regulatory or agency request, or other valid legal authority, legal procedure, or similar process.

"Package Purchase" has the meaning set forth in the Service Specific Terms.

"Project" means a grouping of computing, storage, and API resources for Customer, and via which Customer may use the Services. Projects are more fully described in the Documentation.

"Reserved Capacity Units" have the meaning set forth in the Service Specific Terms.

"Reserved Unit Term" has the meaning set forth in the Service Specific Terms.

"Reserved Units" have the meaning set forth in the Service Specific Terms.

"Services" means the, services as set forth here: https://cloud.google.com/services (including any associated application programming interfaces); and TSS, but the Services do not include Google Translate API.

"Service Specific Terms" means the terms specific to one or more Services set forth here: https://cloud.google.com/terms/service-terms, except the terms relating to (a) Google Translate API; and (b) Fees for Google Cloud Datastore set forth at that Service Specific Terms URL do not apply.

"SLA" means the Service Level Agreement as applicable to: (a) Google App Engine set forth here: https://cloud.google.com/appengine/sla; (b) Google Cloud Storage set forth here: https://cloud.google.com/storage/sla; (c) Google Prediction API set forth here: https://cloud.google.com/prediction/sla; (d) Google BigQuery Service set forth here:
"Software" means any downloadable tools, software development kits or other such proprietary computer software provided by Google in connection with the Services, which may be downloaded by Customer, and any updates Google may make to such Software from time to time.

"Taxes" means any duties, customs fees, or taxes (other than Google's income tax) associated with the purchase of the Services, including any related penalties or interest.

"Term" has the meaning set forth in Section 9 of this Agreement.

"Terms URL" means the following URL set forth here: https://cloud.google.com/terms/.

"Third-Party Legal Proceeding" means any formal legal proceeding filed by an unaffiliated third party before a court or government tribunal (including any appellate proceeding).

"Token" means an alphanumeric key that is uniquely associated with Customer's Account.


"TSS" means the technical support service provided by Google to the administrators under the TSS Guidelines.

"TSS Guidelines" means Google's technical support services guidelines then in effect for the Services. TSS Guidelines are at the following URL: http://support.google.com/enterprise/terms (under Google Cloud Platform Services).

"Updates" means the periodic software updates provided by Google to Customer from time to time. Updates are designed to improve, enhance and further develop the Services and may take the form of bug fixes, enhanced functions, new software modules and completely new versions.

Apache ServiceMix :: Bundles :: jaxb-impl
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1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

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(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
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within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `\[
val x: ((Int, Int) => Int) = (((a, b)) => a)
^%

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `\[
val y: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^%

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

    Either create a single parameter accepting the Tuple3,
    or consider a pattern matching anonymous function: `\[
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^%

3 errors
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1.4928 interpret 2.2.0

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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.
This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS’s install programs.

On Debian systems, the complete text of the GNU General Public License can be found in '/usr/share/common-licenses/GPL-2'

-- vile: ttmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Files: doc/html/NCURSES-Programming-HOWTO.html
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Upstream-Name: ncurses
Upstream-Contact: bug-ncurses@gnu.org
Thomas Dickey <dickey@his.com>
Source: https://invisible-mirror.net/archives/ncurses/

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-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

1.4934 perl 1.28-420.el8

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=head1 NAME

_errno - System _errno constants
=head1 SYNOPSIS

use Errno qw(EINTR EIO :POSIX);

=head1 DESCRIPTION

C<Errno> defines and conditionally exports all the error constants
defined in your system F<errno.h> include file. It has a single export
tag, C<:POSIX>, which will export all POSIX defined error numbers.

On Windows, C<Errno> also defines and conditionally exports all the
Winsock error constants defined in your system F<WinError.h> include
file. These are included in a second export tag, C<:WINSOCK>.

C<Errno> also makes C<%!> magic such that each element of C<%!> has a
non-zero value only if C<$!> is set to that value. For example:

    my $fh;
    unless (open($fh, "<", "/fangorn/spouse")) {
        if ($!{ENOENT}) {
            warn "Get a wife!
        } else {
            warn "This path is barred: $!";
        }
    }

If a specified constant C<EFOO> does not exist on the system, C<$!{EFOO}> returns C<"">. You may use C<exists $!{EFOO}> to check whether the
constant is available on the system.

Perl automatically loads C<Errno> the first time you use C<%!>, so you don’t
need an explicit C<use>.

=head1 CAVEATS

Importing a particular constant may not be very portable, because the
import will fail on platforms that do not have that constant. A more
portable way to set C<$!> to a valid value is to use:

    if (exists &Errno::EFOO) {
        $! = &Errno::EFOO;
    }

=head1 AUTHOR

Graham Barr <gbarr@pobox.com>
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# ex: set ro:

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* /opt/cola/permits/1277991222_1652757650.0574512/0/perl-Errno-1.28-421.el8.aarch64.src.rpm-cosi-expand-
archive-hmSPlW2u/usr/lib64/perl5/Errno.pm

1.4935 compojure 1.1.3
1.4935.1 Available under license :
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(defproject compojure "1.1.3"
 :description "A concise routing library for Ring"
 :url "https://github.com/weavejester/compojure"
 :license {:name "Eclipse Public License"
 :dependencies [[org.clojure/clojure "1.2.1"]
                [org.clojure/core.incubator "0.1.0"]
                [org.clojure/tools.macro "0.1.0"]
                [clout "1.0.1"]
                [ring/ring-core "1.1.5"]]
 :profiles
 {:dev {:dependencies [[ring-mock "0.1.3"]]
        :1.3 {:dependencies [[org.clojure/clojure "1.3.0"]]
            :1.4 {:dependencies [[org.clojure/clojure "1.4.0"]]}}

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1.4936 asm 5.0.4

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/package.html
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXCodeAdapter.java

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*/
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this</i> constructor.<i>Instead, they must use the</i>
 * { @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 *
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see { @link Type}).
 *
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 *
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getInternalName() getInternalName}). May be
 * <tt>null</tt>.
 *
 * @throws IllegalStateException
If a subclass calls this constructor.

*/

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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*/
/**
* Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
* version.
* *
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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*/
/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

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*/
/**
 * Constructs a new [ @link ClassNode ] . <i >Subclasses must not use this
 * constructor</i> . Instead, they must use the [ @link # ClassNode(int) ]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ClassNode.java
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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *            a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 *            the path to the annotated type argument, wildcard bound, array
 *            element type, or static inner type within 'typeRef'. May be
 *            <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 *            the fist instructions corresponding to the continuous ranges
 *            that make the scope of this local variable (inclusive).
 * @param end
 *            the last instructions corresponding to the continuous ranges
 *            that make the scope of this local variable (exclusive). This
 *            array must have the same size as the 'start' array.
 * @param index
 *            the local variable's index in each range. This array must have
 *            the same size as the 'start' array.
 * @param desc
 *            the class descriptor of the annotation class.
 */

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassWriter.java
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 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassVisitor.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FrameNode.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ConstantPool.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Opcodes.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckClassAdapter.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureVisitor.java
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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 *    the owner's class name.
 * @param access
 *    the method's access flags (see [@link Opcodes]).
 * @param name
 *    the method's name.
 * @param desc
 *    the method's descriptor (see [@link Type Type]).
 * @param mv
 *    the method visitor to which this adapter delegates calls. May
 *    be <tt>null</tt>.
 */
* @throws IllegalStateException
  * If a subclass calls this constructor.
  */

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 /*
 /*
 - Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \n$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \n@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall:.
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean:.
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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1.4940 e2fsprogs 1.45.6-2.el8
1.4940.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$ (BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \`
echo $(my_dir) \ | sed -e \`:lib/;`"/$(BSD_LIB) $(BSD_LIB)\)

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)\ 
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$ (BSD_LIB)
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
 + trivial database library - standalone version

 - trivial database library - private includes
 -
 - Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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1.4942 kerberos 1.17-3

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```
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lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Name: argparse
Version: 0.7.0
Summary: An optparse-inspired command-line parsing library
Home-page: http://argparse.python-hosting.com/
Author: Steven Bethard
Author-email: steven.bethard@gmail.com
License: BSD
Description: Argparse takes the best of the optparse command-line parsing module and brings it new life. Argparse adds positional as well as optional arguments, the ability to create parsers for sub-commands, more informative help and usage messages, and much more. At the same time, it retains the ease and flexibility of use that made optparse so popular.
Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Software Development

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  * /opt/cola/permits/1000038828_1646171452.21/0/argparse-0-7-0-zip/argparse-0.7.0/PKG-INFO
1.4952 encoding 0.1.12

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1.4953 trousers-lib 0.3.14-4.el8

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1.4954 netty-resolver-dns 4.1.49.Final

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* /opt/cola/permits/1274596192_1645218363.26/0/netty-resolver-dns-4-1-49-final-sources-
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* /opt/cola/permits/1274596192_1645218363.26/0/netty-resolver-dns-4-1-49-final-sources-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java
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1.4964 libyaml 0.2.1 1
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 * 
 * Date: 2010-07-15 15:57
 * Subject: Re: Applied Combinatorics Code
 * 
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 * there are of the letters in the word MATHEMATICS. I appreciate your due
 * diligence.
 */
* -Alan
*/

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package org.h2.dev.mail;
import java.util.Properties;
import javax.mail.Session;
import javax.mail.Transport;
import javax.mail.internet.MimeMessage;
/**
* Utility class to send a mail over a fixed gmail account.
* /
public class SendMail {  
  // http://repo2.maven.org/maven2/javax/mail/mail/1.4.1/mail-1.4.1.jar
  // http://repo2.maven.org/maven2/javax/activation/activation/1.1/activation-1.1.jar

  public static void main(String[] args) throws Exception {
    String to = "thomas.tom.mueller" + "@" + "gmail.com";
    sendMailOverGmail("");
  }

  static void sendMailOverGmail(String password, String to, String subject, String body) throws Exception {
    String username = "testing1212123" + "@" + "gmail.com";
    String host = "smtp.gmail.com";
    Properties prop = new Properties();
    prop.put("mail.smtps.auth", "true");
    Session session = Session.getDefaultInstance(prop);
    session.setProtocolForAddress("rfc822", "smtps");
    session.setDebug(true);
    MimeMessage msg = new MimeMessage(session);
    msg.setRecipients(RecipientType.TO, to);
    msg.setSubject(subject);
    msg.setText(body);
    Transport t = session.getTransport("smtps");
    try {
      t.connect(host, username, password);
    }
  }
}
t.sendMessage(msg, msg.getAllRecipients());
} finally {
    t.close();
}
}

Found in path(s):
* /opt/cola/permits/1362377181_1657710873.5984848/0/h2-1-2-140-wso2v3-source-tar-gz/h2-1.2.140-wso2v3/repo/h2-1/2/140-wso2v3/h2-1.2.140-wso2v3/src/tools/org/h2/dev/mail/SendMail.java.txt
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 */
package net.java.ao.db;

import java.sql.Driver;

/**
 * This is a database provider for ActiveObjects.
 * See also https://activeobjects.dev.java.net .
 * Usage:
 * <pre>
 * EntityManager manager = new EntityManager(new H2DatabaseProvider(
 *     dbProperties.getProperty("db.uri"),
 *     dbProperties.getProperty("db.username"),
 *     dbProperties.getProperty("db.password"));
 * </pre>
 *
 * @author Michael Manske
 * @author Thomas Mueller
 */
public class H2DatabaseProvider extends HSQLDatabaseProvider {

    /**
     * Create a new provider.
     *
     * @param uri the database uri
     * @param username the user name
     * @param password the password
     */
    public H2DatabaseProvider(String uri, String username, String password) {
        super(uri, username, password);
    }
public Class< ? extends Driver> getDriverClass() throws ClassNotFoundException {
    return (Class< ? extends Driver>) Class.forName("org.h2.Driver");
}

Found in path(s):
* /opt/cola/permits/1362377181_1657710873.5984848/0/h2-1-2-140-wso2v3-source-tar-gz/h2-1.2.140-wso2v3/repo/h2-1/2/140-wso2v3/h2-1.2.140-wso2v3/src/tools/net/java/ao/db/H2DatabaseProvider.java.txt
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@advanced_1000_h1
#Advanced

@advanced_1001_a
# Result Sets

@advanced_1002_a
# Large Objects

@advanced_1003_a
# Linked Tables

@advanced_1004_a
# Recursive Queries

@advanced_1005_a
# Transaction Isolation

@advanced_1006_a
# Multi-Version Concurrency Control (MVCC)

@advanced_1007_a
# Clustering / High Availability

@advanced_1008_a
# Two Phase Commit

@advanced_1009_a
# Compatibility

@advanced_1010_a
# Standards Compliance

@advanced_1011_a
# Run as Windows Service

@advanced_1012_a
# ODBC Driver

@advanced_1013_a
# Using H2 in Microsoft .NET

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@advanced_1015_a
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# File Locking Method 'Serialized'

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@advanced_1021_a
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# Universally Unique Identifiers (UUID)

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@advanced_1027_a

# Pluggable File System

@advanced_1028_a

# Database Upgrade

@advanced_1029_a

# Limits and Limitations

@advanced_1030_a

# Glossary and Links

@advanced_1031_h2

Result Sets

@advanced_1032_h3

# Statements that Return a Result Set

@advanced_1033_p

# The following statements return a result set: <code>SELECT, EXPLAIN, CALL, SCRIPT, SHOW, HELP</code>. All other statements return an update count.

@advanced_1034_h3

@advanced_1035_p

# Before the result is returned to the application, all rows are read by the database. Server side cursors are not supported currently. If only the first few rows are interesting for the application, then the result set size should be limited to improve the performance. This can be done using <code>LIMIT</code> in a query (example: <code>SELECT * FROM TEST LIMIT 100</code>), or by using <code>Statement.setMaxRows(max)</code>.

@advanced_1036_h3

Result Set

@advanced_1037_p

# For large result set, the result is buffered to disk. The threshold can be defined using the statement <code>SET MAX_MEMORY_ROWS</code>. If <code>ORDER BY</code> is used, the sorting is done using an external sort
algorithm. In this case, each block of rows is sorted using quick sort, then written to disk; when reading the data, the blocks are merged together.

# If it is possible that the objects don't fit into memory, then the data type CLOB (for textual data) or BLOB (for binary data) should be used. For these data types, the objects are not fully read into memory, by using streams. To store a BLOB, use `<code>PreparedStatement.setBinaryStream</code>`. To store a CLOB, use `<code>PreparedStatement.setCharacterStream</code>`. To read a BLOB, use `<code>ResultSet.getBinaryStream</code>`, and to read a CLOB, use `<code>ResultSet.getCharacterStream</code>.

When using the client/server mode, large BLOB and CLOB data is stored in a temporary file on the client side.

# When to use CLOB/BLOB

# Large Object Compression

# CLOB and BLOB values can be compressed by using `<a href="grammar.html#set_compress_lob" class="notranslate">SET COMPRESS_LOB</a>`. The LZF algorithm is faster but needs more disk space. By default compression is disabled, which usually speeds up write operations. If you store many large compressible values such as XML, HTML, text, and uncompressed binary files, then compressing can save a lot of disk space (sometimes more than 50%), and read operations may even be faster.

# This database supports linked tables, which means tables that don't exist in the current database but are just links to another database. To create such a link, use the `<code>CREATE LINKED TABLE</code>` statement:

# You can then access the table in the usual way. Whenever the linked table is accessed, the database issues specific queries over JDBC. Using the example above, if you issue the query `<code>SELECT * FROM LINK WHERE
ID=1</code>, then the following query is run against the PostgreSQL database: <code>SELECT * FROM TEST WHERE ID=?</code>. The same happens for insert and update statements. Only simple statements are executed against the target database, that means no joins. Prepared statements are used where possible.

@advanced_1048_p
# To view the statements that are executed against the target table, set the trace level to 3.

@advanced_1049_p
# If multiple linked tables point to the same database (using the same database URL), the connection is shared. To disable this, set the system property <code>h2.shareLinkedConnections=false</code>.

@advanced_1050_p
# The statement <a href="grammar.html#create_linked_table" class="notranslate">CREATE LINKED TABLE</a> supports an optional schema name parameter.

@advanced_1051_h2

@advanced_1052_p
# Transaction isolation is provided for all data manipulation language (DML) statements. Most data definition language (DDL) statements commit the current transaction. See the <a href="grammar.html">Grammar</a> for details.

@advanced_1053_p
# This database supports the following transaction isolation levels:

@advanced_1054_b
Read Committed ()

@advanced_1055_li
# This is the default level. Read locks are released immediately after executing the statement, but write locks are kept until the transaction commits. Higher concurrency is possible when using this level.

@advanced_1056_li
# To enable, execute the SQL statement <code>SET LOCK_MODE 3</code>

@advanced_1057_li
# or append <code>;LOCK_MODE=3</code> to the database URL:
<code>jdbc:h2:~/test;LOCK_MODE=3</code>

@advanced_1058_b
Serializable ()

@advanced_1059_li
# Both read locks and write locks are kept until the transaction commits. To enable, execute the SQL statement <code>SET LOCK_MODE 1</code>

@advanced_1060_li
# or append `<code>;LOCK_MODE=1</code>` to the database URL:

```
jdbc:h2:~/test;LOCK_MODE=1
```

@advanced_1061_b
Read Uncommitted ()

@advanced_1062_li
# This level means that transaction isolation is disabled.

@advanced_1063_li
# To enable, execute the SQL statement `<code>SET LOCK_MODE 0</code>`

@advanced_1064_li
# or append `<code>;LOCK_MODE=0</code>` to the database URL:

```
jdbc:h2:~/test;LOCK_MODE=0
```

@advanced_1065_p
# When using the isolation level 'serializable', dirty reads, non-repeatable reads, and phantom reads are prohibited.

@advanced_1066_b
Dirty Reads ()

@advanced_1067_li
# Means a connection can read uncommitted changes made by another connection.

@advanced_1068_li
# Possible with: read uncommitted

@advanced_1069_b
Non-Repeatable Reads ()

@advanced_1070_li
# A connection reads a row, another connection changes a row and commits, and the first connection re-reads the same row and gets the new result.

@advanced_1071_li
# Possible with: read uncommitted, read committed

@advanced_1072_b
Phantom Reads ()

@advanced_1073_li
# A connection reads a set of rows using a condition, another connection inserts a row that falls in this condition and commits, then the first connection re-reads using the same condition and gets the new row.

@advanced_1074_li
# Possible with: read uncommitted, read committed
The database allows multiple concurrent connections to the same database. To make sure all connections only see consistent data, table level locking is used by default. This mechanism does not allow high concurrency, but is very fast. Shared locks and exclusive locks are supported. Before reading from a table, the database tries to add a shared lock to the table (this is only possible if there is no exclusive lock on the object by another connection). If the shared lock is added successfully, the table can be read. It is allowed that other connections also have a shared lock on the same object. If a connection wants to write to a table (update or delete a row), an exclusive lock is required. To get the exclusive lock, other connection must not have any locks on the object. After the connection commits, all locks are released. This database keeps all locks in memory. When a lock is released, and multiple connections are waiting for it, one of them is picked at random.

If a connection cannot get a lock on an object, the connection waits for some amount of time (the lock timeout). During this time, hopefully the connection holding the lock commits and it is then possible to get the lock. If this is not possible because the other connection does not release the lock for some time, the unsuccessful connection will get a lock timeout exception. The lock timeout can be set individually for each connection.

Multi-Version Concurrency Control (MVCC)

The MVCC feature allows higher concurrency than using (table level or row level) locks. When using MVCC in this database, delete, insert and update operations will only issue a shared lock on the table. An exclusive lock is still used when adding or removing columns, when dropping the table, and when using `SELECT ... FOR UPDATE`. Connections only 'see' committed data, and own changes. That means, if connection A updates a row but doesn't commit this change yet, connection B will see the old value. Only when the change is committed, the new value is visible by other connections (read committed). If multiple connections concurrently try to update the same row, the database waits until it can apply the change, but at most until the lock timeout expires.

To use the MVCC feature, append `<code>;MVCC=TRUE</code>` to the database URL:

MVCC is disabled by default. The MVCC feature is not fully tested yet. The limitations of the MVCC mode are: it can not be used at the same time as `<code>MULTI_THREADED=TRUE</code>`; the complete undo log must fit in memory when using multi-version concurrency (the setting `<code>MAX_MEMORY_UNDO</code>` has no effect). It is not possible to enable or disable this setting while the database is already open. The setting must be specified in the first connection (the one that opens the database).
This database supports a simple clustering / high availability mechanism. The architecture is: two database servers run on two different computers, and on both computers is a copy of the same database. If both servers run, each database operation is executed on both computers. If one server fails (power, hardware or network failure), the other server can still continue to work. From this point on, the operations will be executed only on one server until the other server is back up.

Clustering can only be used in the server mode (the embedded mode does not support clustering). The cluster can be re-created using the <code>CreateCluster</code> tool without stopping the remaining server. Applications that are still connected are automatically disconnected, however when appending <code>;AUTO_RECONNECT=TRUE</code>, they will recover from that.

To initialize the cluster, use the following steps:

Create a database

Use the <code>CreateCluster</code> tool to copy the database to another location and initialize the clustering. Afterwards, you have two databases containing the same data.

Start two servers (one for each copy of the database)

You are now ready to connect to the databases with the client application(s)

To understand how clustering works, please try out the following example. In this example, the two databases reside on the same computer, but usually, the databases will be on different servers.

Create two directories: <code>server1, server2</code>. Each directory will simulate a directory on a computer.

Start a TCP server pointing to the first directory. You can do this using the command line:

Start a second TCP server pointing to the second directory. This will simulate a server running on a second (redundant) computer. You can do this using the command line:

Use the <code>CreateCluster</code> tool to initialize clustering. This will automatically create a new, empty
database if it does not exist. Run the tool on the command line:

@example
@advanced_1097_li
#You can now connect to the databases using an application or the H2 Console using the JDBC URL
<code>jdbc:h2:tcp://localhost:9101,localhost:9102/~test</code>
@example

@advanced_1098_li
# If you stop a server (by killing the process), you will notice that the other machine continues to work, and therefore the database is still accessible.

@advanced_1099_li
# To restore the cluster, you first need to delete the database that failed, then restart the server that was stopped, and re-run the <code>CreateCluster</code> tool.

@advanced_1100_h3
# Detect Which Cluster Instances are Running

@advanced_1101_p
# To find out which cluster nodes are currently running, execute the following SQL statement:

@advanced_1102_p
# If the result is <code>''</code> (two single quotes), then the cluster mode is disabled. Otherwise, the list of servers is returned, enclosed in single quote. Example: <code>'server1:9191,server2:9191'</code>.

@advanced_1103_h3

@advanced_1104_p
# Read-only queries are only executed against the first cluster node, but all other statements are executed against all nodes. There is currently no load balancing made to avoid problems with transactions. The following functions may yield different results on different cluster nodes and must be executed with care: <code>RANDOM_UUID(), SECURE_RAND(), SESSION_ID(), MEMORY_FREE(), MEMORY_USED(), CSVREAD(), CSVWRITE(), RAND()</code> [when not using a seed]. Those functions should not be used directly in modifying statements (for example <code>INSERT, UPDATE, MERGE</code>). However, they can be used in read-only statements and the result can then be used for modifying statements.

@advanced_1105_p
# When using the cluster modes, result sets are read fully in memory by the client, so that there is no problem if the server dies that executed the query. Result sets must fit in memory on the client side.

@advanced_1106_h2
2

@advanced_1107_p
# The two phase commit protocol is supported. 2-phase-commit works as follows:

@advanced_1108_li
# Autocommit needs to be switched off
#A transaction is started, for example by inserting a row

#The transaction is marked 'prepared' by executing the SQL statement `<code>PREPARE COMMIT transactionName</code>`

#The transaction can now be committed or rolled back

#If a problem occurs before the transaction was successfully committed or rolled back (for example because a network problem occurred), the transaction is in the state 'in-doubt'

#When re-connecting to the database, the in-doubt transactions can be listed with `<code>SELECT * FROM INFORMATION_SCHEMA.IN_DOUBT</code>`

#Each transaction in this list must now be committed or rolled back by executing `<code>COMMIT TRANSACTION transactionName</code>` or `<code>ROLLBACK TRANSACTION transactionName</code>`

#The database needs to be closed and re-opened to apply the changes

@advanced_1117_p
# This database is (up to a certain point) compatible to other databases such as HSQLDB, MySQL and PostgreSQL. There are certain areas where H2 is incompatible.

@advanced_1118_h3
ON

@advanced_1119_p
# At this time, this database engine commits a transaction (if autocommit is switched on) just before returning the result. For a query, this means the transaction is committed even before the application scans through the result set, and before the result set is closed. Other database engines may commit the transaction in this case when the result set is closed.

@advanced_1120_h3
/

@advanced_1121_p
# There is a list of keywords that can't be used as identifiers (table names, column names and so on), unless they are quoted (surrounded with double quotes). The list is currently:
# Certain words of this list are keywords because they are functions that can be used without '(' for compatibility, for example `<code>CURRENT_TIMESTAMP</code>`.

# Standards Compliance

# This database tries to be as much standard compliant as possible. For the SQL language, ANSI/ISO is the main standard. There are several versions that refer to the release date: SQL-92, SQL:1999, and SQL:2003. Unfortunately, the standard documentation is not freely available. Another problem is that important features are not standardized. Whenever this is the case, this database tries to be compatible to other databases.

## Windows

# Using a native wrapper / adapter, Java applications can be run as a Windows Service. There are various tools available to do that. The Java Service Wrapper from <a href="http://wrapper.tanukisoftware.org">Tanuki Software, Inc.</a> is included in the installation. Batch files are provided to install, start, stop and uninstall the H2 Database Engine Service. This service contains the TCP Server and the H2 Console web application. The batch files are located in the directory `<code>h2/service</code>`.

# The service needs to be registered as a Windows Service first. To do that, double click on `<code>1_install_service.bat</code>`. If successful, a command prompt window will pop up and disappear immediately. If not, a message will appear.

# You can start the H2 Database Engine Service using the service manager of Windows, or by double clicking on `<code>2_start_service.bat</code>`. Please note that the batch file does not print an error message if the service is not installed.

H2
# After installing and starting the service, you can connect to the H2 Console application using a browser. Double clicking on `<code>3_start_browser.bat</code>` to do that. The default port (8082) is hard coded in the batch file.

# To stop the service, double click on `<code>4_stop_service.bat</code>`. Please note that the batch file does not print an error message if the service is not installed or started.

# To uninstall the service, double click on `<code>5_uninstall_service.bat</code>`. If successful, a command prompt window will pop up and disappear immediately. If not, a message will appear.

#Additional JDBC drivers

# To use other databases (for example MySQL), the location of the JDBC drivers of those databases need to be added to the environment variables `<code>H2DRIVERS</code>` or `<code>CLASSPATH</code>` before installing the service. Multiple drivers can be set; each entry needs to be separated with a `<code>;</code>` (Windows) or `<code>:</code>` (other operating systems). Spaces in the path names are supported. The settings must not be quoted.

# This database does not come with its own ODBC driver at this time, but it supports the PostgreSQL network protocol. Therefore, the PostgreSQL ODBC driver can be used. Support for the PostgreSQL network protocol is quite new and should be viewed as experimental. It should not be used for production applications.

# To use the PostgreSQL ODBC driver on 64 bit versions of Windows, first run `<code>c:/windows/syswow64/odbcad32.exe</code>`. At this point you set up your DSN just like you would on any other system. See also: <a href="http://archives.postgresql.org/pgsql-odbc/2005-09/msg00125.php">Re: ODBC Driver on Windows 64 bit</a>

# First, the ODBC driver must be installed. Any recent PostgreSQL ODBC driver should work, however version 8.2

# After installing the ODBC driver, start the H2 Server using the command line:

- The PG Server (PG for PostgreSQL protocol) is started as well. By default, databases are stored in the current working directory where the server is started. Use `<code>-baseDir</code>` to save databases in another directory, for example the user home directory:

  - The PG server can be started and stopped from within a Java application as follows:

    - By default, only connections from localhost are allowed. To allow remote connections, use `<code>-pgAllowOthers</code>` when starting the server.

# After installing the driver, a new Data Source must be added. In Windows, run `<code>odbcad32.exe</code>` to open the Data Source Administrator. Then click on 'Add...' and select the PostgreSQL Unicode driver. Then click 'Finish'. You will be able to change the connection properties. The property column represents the property key in the `<code>odbc.ini</code>` file (which may be different from the GUI).
Database

#~/test;ifexists=true

# The database name. This can include connections settings.

# By default, the database is stored in the current working directory where the Server is started except when the -baseDir setting is used.

# The name must be at least 3 characters.

#Servername

localhost

IP

#Username

sa

#SSL.

#false (disabled)

SSL
Port
5435
Password
sa

# To improve performance, please enable 'server side prepare' under Options / Datasource / Page 2 / Server side prepare.

# Afterwards, you may use this data source.

# At this time, only a subset of the PostgreSQL network protocol is implemented. Also, there may be compatibility problems on the SQL level, with the catalog, or with text encoding. Problems are fixed as they are found. Currently, statements can not be canceled when using the PG protocol. Also, H2 does not provide index meta over ODBC.

# PostgreSQL ODBC Driver Setup requires a database password; that means it is not possible to connect to H2 databases without password. This is a limitation of the ODBC driver.

# Currently, the PG Server does not support challenge response or encrypt passwords. This may be a problem if an attacker can listen to the data transferred between the ODBC driver and the server, because the password is readable to the attacker. Also, it is currently not possible to use encrypted SSL connections. Therefore the ODBC driver should not be used where security is important.
#Using Microsoft Access

@advanced_1188_p
# When using Microsoft Access to edit data in a linked H2 table, you may need to enable the following option:
Tools - Options - Edit/Find - ODBC fields.

@advanced_1189_h2
#Using H2 in Microsoft .NET

@advanced_1190_p
# The database can be used from Microsoft .NET even without using Java, by using IKVM.NET. You can access a
H2 database on .NET using the JDBC API, or using the ADO.NET interface.

@advanced_1191_h3
#Using the ADO.NET API on .NET

@advanced_1192_p
# An implementation of the ADO.NET interface is available in the open source project <a

@advanced_1193_h3
#Using the JDBC API on .NET

@advanced_1194_li
#Install the .NET Framework from <a href="http://www.microsoft.com">Microsoft</a>. Mono has not yet been
tested.

@advanced_1195_li
#Install <a href="http://www.ikvm.net">IKVM.NET</a>.

@advanced_1196_li
#Copy the <code>h2*.jar</code> file to <code>ikvm/bin</code>

@advanced_1197_li
#Run the H2 Console using: <code>ikvm -jar h2*.jar</code>

@advanced_1198_li
#Convert the H2 Console to an <code>.exe</code> file using: <code>ikvmc -target:winexe h2*.jar</code>. You
may ignore the warnings.

@advanced_1199_li
#Create a <code>.dll</code> file using (change the version accordingly): <code>ikvmc.exe -target:library -
version:1.0.69.0 h2*.jar</code>

@advanced_1200_p
# If you want your C# application use H2, you need to add the <code>h2.dll</code> and the
<code>IKVM.OpenJDK.ClassLibrary.dll</code> to your C# solution. Here some sample code:
In the database world, ACID stands for:

- Atomicity: transactions must be atomic, meaning either all tasks are performed or none.
- Consistency: all operations must comply with the defined constraints.
- Isolation: transactions must be isolated from each other.
- Durability: committed transaction will not be lost.

Transactions in this database are always atomic.

By default, this database is always in a consistent state. Referential integrity rules are enforced except when explicitly disabled.

For H2, as with most other database systems, the default isolation level is 'read committed'. This provides better performance, but also means that transactions are not completely isolated. H2 supports the transaction isolation levels 'serializable', 'read committed', and 'read uncommitted'.

This database does not guarantee that all committed transactions survive a power failure. Tests show that all databases sometimes lose transactions on power failure (for details, see below). Where losing transactions is not acceptable, a laptop or UPS (uninterruptible power supply) should be used. If durability is required for all possible cases of hardware failure, clustering should be used, such as the H2 clustering mode.
Complete durability means all committed transaction survive a power failure. Some databases claim they can guarantee durability, but such claims are wrong. A durability test was run against H2, HSQLDB, PostgreSQL, and Derby. All of those databases sometimes lose committed transactions. The test is included in the H2 download, see `<code>org.h2.test.poweroff.Test</code>`.

Making sure that committed transactions are not lost is more complicated than it seems first. To guarantee complete durability, a database must ensure that the log record is on the hard drive before the commit call returns. To do that, databases use different methods. One is to use the 'synchronous write' file access mode. In Java, `<code>RandomAccessFile</code>` supports the modes `<code>rws</code>` and `<code>rwd</code>`:

- `<code>rwd</code>`: every update to the file's content is written synchronously to the underlying storage device.
- `<code>rws</code>`: in addition to `<code>rwd</code>`, every update to the metadata is written synchronously.

A test (<code>org.h2.test.poweroff.TestWrite</code>) with one of those modes achieves around 50 thousand write operations per second. Even when the operating system write buffer is disabled, the write rate is around 50 thousand operations per second. This feature does not force changes to disk because it does not flush all buffers. The test updates the same byte in the file again and again. If the hard drive was able to write at this rate, then the disk would need to make at least 50 thousand revolutions per second, or 3 million RPM (revolutions per minute). There are no such hard drives. The hard drive used for the test is about 7200 RPM, or about 120 revolutions per second. There is an overhead, so the maximum write rate must be lower than that.

Calling `<code>fsync</code>` flushes the buffers. There are two ways to do that in Java:

- `<code>FileDescriptor.sync()</code>`
written to the physical medium.

```
@advanced_1227_code
#FileChannel.force()
```

```
@advanced_1228_li
# (since JDK 1.4). This method is supposed to force any updates to this channel's file to be written to the storage device that contains it.
```

```
@advanced_1229_p
# By default, MySQL calls <code>fsync</code> for each commit. When using one of those methods, only around 60 write operations per second can be achieved, which is consistent with the RPM rate of the hard drive used. Unfortunately, even when calling <code>FileDescriptor.sync()</code> or <code>FileChannel.force()</code>, data is not always persisted to the hard drive, because most hard drives do not obey <code>fsync()</code>: see <a href="http://hardware.slashdot.org/article.pl?sid=05/05/13/0529252">Your Hard Drive Lies to You</a>. In Mac OS X, <code>fsync</code> does not flush hard drive buffers. See <a href="http://lists.apple.com/archives/darwin-dev/2005/Feb/msg00072.html">Bad fsync?</a>. So the situation is confusing, and tests prove there is a problem.
```

```
@advanced_1230_p
# Trying to flush hard drive buffers is hard, and if you do the performance is very bad. First you need to make sure that the hard drive actually flushes all buffers. Tests show that this can not be done in a reliable way. Then the maximum number of transactions is around 60 per second. Because of those reasons, the default behavior of H2 is to delay writing committed transactions.
```

```
@advanced_1231_p
# In H2, after a power failure, a bit more than one second of committed transactions may be lost. To change the behavior, use <code>SET WRITE_DELAY</code> and <code>CHECKPOINT SYNC</code>. Most other databases support commit delay as well. In the performance comparison, commit delay was used for all databases that support it.
```

```
@advanced_1232_h3
```

```
@advanced_1233_p
# To test the durability / non-durability of this and other databases, you can use the test application in the package <code>org.h2.test.poweroff</code>. Two computers with network connection are required to run this test. One computer just listens, while the test application is run (and power is cut) on the other computer. The computer with the listener application opens a TCP/IP port and listens for an incoming connection. The second computer first connects to the listener, and then creates the databases and starts inserting records. The connection is set to 'autocommit', which means after each inserted record a commit is performed automatically. Afterwards, the test computer notifies the listener that this record was inserted successfully. The listener computer displays the last inserted record number every 10 seconds. Now, switch off the power manually, then restart the computer, and run the application again. You will find out that in most cases, none of the databases contains all the records that the listener computer knows about. For details, please consult the source code of the listener and test application.
```

```
@advanced_1234_h2
```
The `Recover` tool can be used to extract the contents of a database file, even if the database is corrupted. It also extracts the content of the transaction log and large objects (CLOB or BLOB). To run the tool, type on the command line:

```
# For each database in the current directory, a text file will be created. This file contains raw insert statements (for the data) and data definition (DDL) statements to recreate the schema of the database. This file can be executed using the `RunScript` tool or a `RUNSCRIPT FROM` SQL statement. The script includes at least one `CREATE USER` statement. If you run the script against a database that was created with the same user, or if there are conflicting users, running the script will fail. Consider running the script against a database that was created with a user name that is not in the script.
```

The `Recover` tool creates a SQL script from database file. It also processes the transaction log.

Multiple concurrent connections to the same database are supported, however a database file can only be open for reading and writing (in embedded mode) by one process at the same time. Otherwise, the processes would overwrite each others data and corrupt the database file. To protect against this problem, whenever a database is opened, a lock file is created to signal other processes that the database is in use. If the database is closed, or if the process that opened the database stops normally, this lock file is deleted.

In special cases (if the process did not terminate normally, for example because there was a power failure), the lock file is not deleted by the process that created it. That means the existence of the lock file is not a safe protocol for file locking. However, this software uses a challenge-response protocol to protect the database files. There are two methods (algorithms) implemented to provide both security (that is, the same database files cannot be opened by two processes at the same time) and simplicity (that is, the lock file does not need to be deleted manually by the user). The two methods are 'file method' and 'socket methods'.

The file locking protocols have the following limitation: if a shared file system is used, and the machine with the lock owner is sent to sleep (standby or hibernate), another machine may take over. If the machine that originally held the lock wakes up, the database may become corrupt. If this situation can occur, the application must ensure the database is closed when the application is put to sleep.

The default method for file locking is the 'File Method'. The algorithm is:

```
# If the lock file does not exist, it is created (using the atomic operation `File.createNewFile`). Then,
```
the process waits a little bit (20 ms) and checks the file again. If the file was changed during this time, the operation
is aborted. This protects against a race condition when one process deletes the lock file just after another one create
it, and a third process creates the file again. It does not occur if there are only two writers.

@advanced_1245_li
# If the file can be created, a random number is inserted together with the locking method ('file'). Afterwards, a
watchdog thread is started that checks regularly (every second once by default) if the file was deleted or modified by
another (challenger) thread / process. Whenever that occurs, the file is overwritten with the old data. The watchdog
thread runs with high priority so that a change to the lock file does not get through undetected even if the system is
very busy. However, the watchdog thread does use very little resources (CPU time), because it waits most of the
time. Also, the watchdog only reads from the hard disk and does not write to it.

@advanced_1246_li
# If the lock file exists and was recently modified, the process waits for some time (up to two seconds). If it was still
changed, an exception is thrown (database is locked). This is done to eliminate race conditions with many
concurrent writers. Afterwards, the file is overwritten with a new version (challenge). After that, the thread waits for
2 seconds. If there is a watchdog thread protecting the file, he will overwrite the change and this process will fail to
lock the database. However, if there is no watchdog thread, the lock file will still be as written by this thread. In this
case, the file is deleted and atomically created again. The watchdog thread is started in this case and the file is
locked.

@advanced_1247_li
# This algorithm is tested with over 100 concurrent threads. In some cases, when there are many concurrent threads
trying to lock the database, they block each other (meaning the file cannot be locked by any of them) for some time.
However, the file never gets locked by two threads at the same time. However using that many concurrent threads /
processes is not the common use case. Generally, an application should throw an error to the user if it cannot open a
database, and not try again in a (fast) loop.

@advanced_1248_h3
"Socket"

@advanced_1249_p
# There is a second locking mechanism implemented, but disabled by default. To use it, append
<code>;FILE_LOCK=SOCKET</code> to the database URL. The algorithm is:

@advanced_1250_li
# If the lock file does not exist, it is created. Then a server socket is opened on a defined port, and kept open. The
port and IP address of the process that opened the database is written into the lock file.

@advanced_1251_li
# If the lock file exists, and the lock method is 'file', then the software switches to the 'file' method.

@advanced_1252_li
# If the lock file exists, and the lock method is 'socket', then the process checks if the port is in use. If the original
process is still running, the port is in use and this process throws an exception (database is in use). If the original
process died (for example due to a power failure, or abnormal termination of the virtual machine), then the port was
released. The new process deletes the lock file and starts again.
# File Locking Method 'Serialized'

This locking mode allows to open multiple connections to the same database. The connections may be opened from multiple processes and from different computers. When writing to the database, access is automatically synchronized internally. Write operations are slower than when using the server mode, and concurrency is relatively poor. The advantage of this mode is that there is no need to start a server.

To enable this feature, append `<code>;FILE_LOCK=SERIALIZED</code>` to the database URL.

This feature is relatively new. When using it for production, please ensure your use case is well tested (if possible with automated test cases).

---

## SQL

This database engine provides a solution for the security vulnerability known as 'SQL Injection'. Here is a short description of what SQL injection means. Some applications build SQL statements with embedded user input such as:

If this mechanism is used anywhere in the application, and user input is not correctly filtered or encoded, it is possible for a user to inject SQL functionality or statements by using specially built input such as (in this example) this password: `<code>' OR '='</code>`. In this case the statement becomes:

Which is always true no matter what the password stored in the database is. For more information about SQL Injection, see [Glossary and Links](#glossary_links).

SQL Injection is not possible if user input is not directly embedded in SQL statements. A simple solution for the problem above is to use a prepared statement:
This database provides a way to enforce usage of parameters when passing user input to the database. This is done by disabling embedded literals in SQL statements. To do this, execute the statement:

Afterwards, SQL statements with text and number literals are not allowed any more. That means, SQL statement of the form `WHERE NAME='abc'` or `WHERE CustomerId=10` will fail. It is still possible to use prepared statements and parameters as described above. Also, it is still possible to generate SQL statements dynamically, and use the Statement API, as long as the SQL statements do not include literals. There is also a second mode where number literals are allowed: `SET ALLOW_LITERALS NUMBERS`. To allow all literals, execute `SET ALLOW_LITERALS ALL` (this is the default setting). Literals can only be enabled or disabled by an administrator.

Disabling literals also means disabling hard-coded 'constant' literals. This database supports defining constants using the `CREATE CONSTANT` command. Constants can be defined only when literals are enabled, but used even when literals are disabled. To avoid name clashes with column names, constants can be defined in other schemas:

Even when literals are enabled, it is better to use constants instead of hard-coded number or text literals in queries or views. With constants, typos are found at compile time, the source code is easier to understand and change.

It is not required to create a constant for the number 0 as there is already a built-in function `ZERO()`:

When using the option `--baseDir`, only databases within that directory may be accessed. Ensure the existing accessible databases are protected using strong passwords.

Restricting Class Loading and Usage

By default this database does not allow connections from other machines when starting the H2 Console, the TCP server, or the PG server. Remote access can be enabled using the command line options `--webAllowOthers`, `--tcpAllowOthers`, `--pgAllowOthers`. If you enable remote access, please also consider using the options `--baseDir`, `--ifExists`, so that remote users can not create new databases or access existing databases with weak passwords. When using the option `--baseDir`, only databases within that directory may be accessed. Ensure the existing accessible databases are protected using strong passwords.
# By default there is no restriction on loading classes and executing Java code for admins. That means an admin may call system functions such as `<code>System.setProperty</code>` by executing:

```java
// By default there is no restriction on loading classes and executing Java code for admins. That means an admin may call system functions such as `System.setProperty()` by executing:
```

# To restrict users (including admins) from loading classes and executing code, the list of allowed classes can be set in the system property `<code>h2.allowedClasses</code>` in the form of a comma separated list of classes or patterns (items ending with `<code>*</code>`). By default all classes are allowed. Example:

```java
// To restrict users (including admins) from loading classes and executing code, the list of allowed classes can be set in the system property `h2.allowedClasses` in the form of a comma separated list of classes or patterns (items ending with `*`). By default all classes are allowed. Example:
```

# This mechanism is used for all user classes, including database event listeners, trigger classes, user-defined functions, user-defined aggregate functions, and JDBC driver classes (with the exception of the H2 driver) when using the H2 Console.

```
```

# The following paragraphs document the security protocols used in this database. These descriptions are very technical and only intended for security experts that already know the underlying security primitives.

```
# The following paragraphs document the security protocols used in this database. These descriptions are very technical and only intended for security experts that already know the underlying security primitives.
```

# When a user tries to connect to a database, the combination of user name, @, and password are hashed using SHA-256, and this hash value is transmitted to the database. This step does not protect against an attacker that re-uses the value if he is able to listen to the (unencrypted) transmission between the client and the server. But, the passwords are never transmitted as plain text, even when using an unencrypted connection between client and server. That means if a user reuses the same password for different things, this password is still protected up to some point. See also 'RFC 2617 - HTTP Authentication: Basic and Digest Access Authentication' for more information.

```
# When a user tries to connect to a database, the combination of user name, @, and password are hashed using SHA-256, and this hash value is transmitted to the database. This step does not protect against an attacker that re-uses the value if he is able to listen to the (unencrypted) transmission between the client and the server. But, the passwords are never transmitted as plain text, even when using an unencrypted connection between client and server. That means if a user reuses the same password for different things, this password is still protected up to some point. See also 'RFC 2617 - HTTP Authentication: Basic and Digest Access Authentication' for more information.
```

# When a new database or user is created, a new random salt value is generated. The size of the salt is 64 bits. Using the random salt reduces the risk of an attacker pre-calculating hash values for many different (commonly used) passwords.

```
# When a new database or user is created, a new random salt value is generated. The size of the salt is 64 bits. Using the random salt reduces the risk of an attacker pre-calculating hash values for many different (commonly used) passwords.
```

# The combination of user-password hash value (see above) and salt is hashed using SHA-256. The resulting value is stored in the database. When a user tries to connect to the database, the database combines user-password hash value with the stored salt value and calculates the hash value. Other products use multiple iterations (hash the hash value again and again), but this is not done in this product to reduce the risk of denial of service attacks (where the attacker tries to connect with bogus passwords, and the server spends a lot of time calculating the hash value for each password). The reasoning is: if the attacker has access to the hashed passwords, he also has access to the data in plain text, and therefore does not need the password any more. If the data is protected by storing it on another computer and only accessible remotely, then the iteration count is not required at all.

```
# The combination of user-password hash value (see above) and salt is hashed using SHA-256. The resulting value is stored in the database. When a user tries to connect to the database, the database combines user-password hash value with the stored salt value and calculates the hash value. Other products use multiple iterations (hash the hash value again and again), but this is not done in this product to reduce the risk of denial of service attacks (where the attacker tries to connect with bogus passwords, and the server spends a lot of time calculating the hash value for each password). The reasoning is: if the attacker has access to the hashed passwords, he also has access to the data in plain text, and therefore does not need the password any more. If the data is protected by storing it on another computer and only accessible remotely, then the iteration count is not required at all.
```
# The database files can be encrypted using two different algorithms: AES-128 and XTEA (using 32 rounds). The reasons for supporting XTEA is performance (XTEA is a bit faster as AES in some environments) and to have an alternative algorithm if AES is suddenly broken. Please note that the XTEA implementation used in this database only uses 32 rounds and not 64 rounds as recommended by its inventor (as of 2010, the best known attack is on 27 rounds).

# When a user tries to connect to an encrypted database, the combination of `<code>file@</code>` and the file password is hashed using SHA-256. This hash value is transmitted to the server.

# When a new database file is created, a new cryptographically secure random salt value is generated. The size of the salt is 64 bits. The combination of the file password hash and the salt value is hashed 1024 times using SHA-256. The reason for the iteration is to make it harder for an attacker to calculate hash values for common passwords.

# The resulting hash value is used as the key for the block cipher algorithm (AES-128 or XTEA with 32 rounds). Then, an initialization vector (IV) key is calculated by hashing the key again using SHA-256. This is to make sure the IV is unknown to the attacker. The reason for using a secret IV is to protect against watermark attacks.

# Before saving a block of data (each block is 8 bytes long), the following operations are executed: first, the IV is calculated by encrypting the block number with the IV key (using the same block cipher algorithm). This IV is combined with the plain text using XOR. The resulting data is encrypted using the AES-128 or XTEA algorithm.

# When decrypting, the operation is done in reverse. First, the block is decrypted using the key, and then the IV is calculated combined with the decrypted text using XOR.

# Therefore, the block cipher mode of operation is CBC (cipher-block chaining), but each chain is only one block long. The advantage over the ECB (electronic codebook) mode is that patterns in the data are not revealed, and the advantage over multi block CBC is that flipped cipher text bits are not propagated to flipped plaintext bits in the next block.

# Database encryption is meant for securing the database while it is not in use (stolen laptop and so on). It is not meant for cases where the attacker has access to files while the database is in use. When he has write access, he can for example replace pieces of files with pieces of older versions and manipulate data like this.

# File encryption slows down the performance of the database engine. Compared to unencrypted mode, database operations take about 2.2 times longer when using XTEA, and 2.5 times longer using AES (embedded mode).
To protect against remote brute force password attacks, the delay after each unsuccessful login gets double as long. Use the system properties `<code>h2.delayWrongPasswordMin</code>` and `<code>h2.delayWrongPasswordMax</code>` to change the minimum (the default is 250 milliseconds) or maximum delay (the default is 4000 milliseconds, or 4 seconds). The delay only applies for those using the wrong password. Normally there is no delay for a user that knows the correct password, with one exception: after using the wrong password, there is a delay of up to (randomly distributed) the same delay as for a wrong password. This is to protect against parallel brute force attacks, so that an attacker needs to wait for the whole delay. Delays are synchronized. This is also required to protect against parallel attacks.

There is only one exception message for both wrong user and for wrong password, to make it harder to get the list of user names. It is not possible from the stack trace to see if the user name was wrong or the password.

HTTPS

The web server supports HTTP and HTTPS connections using `<code>SSLServerSocket</code>`. There is a default self-certified certificate to support an easy starting point, but custom certificates are supported as well.

SSL/TLS

Remote SSL/TLS connections are supported using the Java Secure Socket Extension (`<code>SSLServerSocket, SSLSocket</code>`). By default, anonymous SSL is enabled. The default cipher suite is `<code>SSL_DH_anon_WITH_RC4_128_MD5</code>`.

To use your own keystore, set the system properties `<code>javax.net.ssl.keyStore</code>` and `<code>javax.net.ssl.keyStorePassword</code>` before starting the H2 server and client. See also <a href="http://java.sun.com/javase/6/docs/technotes/guides/security/jsse/JSSERefGuide.html#CustomizingStores">Customizing the Default Key and Trust Stores, Store Types, and Store Passwords</a> for more information.

To disable anonymous SSL, set the system property `<code>h2.enableAnonymousSSL</code>` to false.

This database supports UUIDs. Also supported is a function to create new UUIDs using a cryptographically strong pseudo random number generator. With random UUIDs, the chance of two having the same value can be calculated using the probability theory. See also 'Birthday Paradox'. Standardized randomly generated UUIDs have 122 random bits, 4 bits are used for the version (Randomly generated UUID), and 2 bits for the variant (Leach-Salz). This database supports generating such UUIDs using the built-in function `<code>RANDOM_UUID()</code>`. Here is a
small program to estimate the probability of having two identical UUIDs after generating a number of values:

```java
@advanced_1305_p
# Some values are:

@advanced_1306_th
# Number of UUIDs

@advanced_1307_th
# Probability of Duplicates

@advanced_1308_td
# 2^36 = 68,719,476,736

@advanced_1309_td
# 0.000'000'000'000'000'4

@advanced_1310_td
# 2^41 = 2,199,023,255,552

@advanced_1311_td
# 0.000'000'000'000'4

@advanced_1312_td
# 2^46 = 70,368,744,177,664

@advanced_1313_td
# 0.000'000'000'4

@advanced_1314_p
# To help non-mathematicians understand what those numbers mean, here a comparison: one's annual risk of being
hit by a meteorite is estimated to be one chance in 17 billion, that means the probability is about 0.000'000'000'06.

@advanced_1315_h2
# Recursive Queries

@advanced_1316_p
# H2 has experimental support for recursive queries, using so called "common table expressions". Examples:

@advanced_1317_p
# Limitations: Recursive queries need to be of the type <code>UNION ALL</code>, and the recursion needs to be on
the second part of the query. No tables or views with the name of the table expression may exist. Different table
expression names need to be used when using multiple distinct table expressions within the same transaction and for
the same session. All columns of the table expression are of type <code>VARCHAR</code>. Parameters are only supported within the last <code>SELECT</code> statement (a workaround is to use session variables like <code>@start</code> within the table expression). The syntax is:

@advanced_1318_h2
Some settings of the database can be set on the command line using `<code>-DpropertyName=value</code>`. It is usually not required to change those settings manually. The settings are case sensitive. Example:

The current value of the settings can be read in the table `<code>INFORMATION_SCHEMA.SETTINGS</code>.

For a complete list of settings, see `<a href="../javadoc/org/h2/constant/SysProperties.html">SysProperties</a>`.

#Setting the Server Bind Address

Usually server sockets accept connections on any/all local addresses. This may be a problem on multi-homed hosts. To bind only to one address, use the system property `<code>h2.bindAddress</code>`. This setting is used for both regular server sockets and for SSL server sockets. IPv4 and IPv6 address formats are supported.

#Pluggable File System

This database supports a pluggable file system API. The file system implementation is selected using a file name prefix. The following file systems are included:

- `zip`:
  
  read-only zip-file based file system. Format: `<code>zip:/zipFileName!/fileName</code>`.

- `split`:
  
  file system that splits files in 1 GB files (stackable with other file systems).

- `nio`:
  
  file system that uses `<code>FileChannel</code>` instead of `<code>RandomAccessFile</code>` (faster in some operating systems).
#nioMapped:

@advanced_1333_li
# file system that uses memory mapped files (faster in some operating systems). Please note that there currently is a
file size limitation of 2 GB when using this file system. To work around this limitation, combine it with the split file

@advanced_1334_code
#memFS:

@advanced_1335_li
# in-memory file system (slower than mem; experimental; mainly used for testing the database engine itself).

@advanced_1336_code
#memLZF:

@advanced_1337_li
# compressing in-memory file system (slower than memFS but uses less memory; experimental; mainly used for
testing the database engine itself).

@advanced_1338_p
# As an example, to use the the <code>nio</code> file system, use the following database URL:

@advanced_1339_p
# To register a new file system, extend the classes <code>org.h2.store.fs.FileSystem, FileObject</code>, and call
the method <code>FileSystem.register</code> before using it.

@advanced_1340_h2

@advanced_1341_p
# In version 1.2, H2 introduced a new file store implementation which is incompatible to the one used in versions
&lt; 1.2. To automatically convert databases to the new file store, it is necessary to include an additional jar file. The
If this file is in the classpath, every connect to an older database will result in a conversion process.

@advanced_1342_p
# The conversion itself is done internally via <code>'script to'</code> and <code>'runscript from'</code>. After the
conversion process, the files will be renamed from

@advanced_1343_code
#dbName.data.db

@advanced_1344_li
# to <code>dbName.data.db.backup</code>
@advanced_1345_code
dbName.index.db

@advanced_1346_li
# to <code>dbName.index.db.backup</code>

@advanced_1347_p
# by default. Also, the temporary script will be written to the database directory instead of a temporary directory. Both defaults can be customized via

@advanced_1348_code
#org.h2.upgrade.DbUpgradeNonPageStoreToCurrent.setDeleteOldDb(boolean)

@advanced_1349_code
#org.h2.upgrade.DbUpgradeNonPageStoreToCurrent.setScriptInTmpDir(boolean)

@advanced_1350_p
# prior opening a database connection.

@advanced_1351_p
# Since version 1.2.140 it is possible to let the old h2 classes (v 1.2.128) connect to the database. The automatic upgrade .jar file must be present, and the url must contain NO_UPGRADE=TRUE.

@advanced_1352_h2
#Limits and Limitations

@advanced_1353_p
# This database has the following known limitations:

@advanced_1354_li
#Database file size limits (excluding BLOB and CLOB data): With the default storage mechanism, the maximum file size is currently 256 GB for the data, and 256 GB for the index. With the page store (experimental): 4 TB or higher.

@advanced_1355_li
#BLOB and CLOB size limit: every CLOB or BLOB can be up to 256 GB.

@advanced_1356_li
#The maximum file size for FAT or FAT32 file systems is 4 GB. That means when using FAT or FAT32, the limit is 4 GB for the data. This is the limitation of the file system. The database does provide a workaround for this problem, it is to use the file name prefix <code>split:</code>. In that case files are split into files of 1 GB by default. An example database URL is: <code>jdbc:h2:split:~/test</code>.

@advanced_1357_li
#The maximum number of rows per table is 2147483648.

@advanced_1358_li
#Main memory requirements: The larger the database, the more main memory is required. With the version 1.1
storage mechanism, the minimum main memory required for a 12 GB database was around 240 MB. With the current page store, the minimum main memory required is much lower, around 1 MB for each 8 GB database file size.

Limit on the complexity of SQL statements. Statements of the following form will result in a stack overflow exception:

There is no limit for the following entities, except the memory and storage capacity: maximum identifier length (table name, column name, and so on); maximum number of tables, columns, indexes, triggers, and other database objects; maximum statement length, number of parameters per statement, tables per statement, expressions in order by, group by, having, and so on; maximum rows per query; maximum columns per table, columns per index, indexes per table, lob columns per table, and so on; maximum row length, index row length, select row length; maximum length of a varchar column, decimal column, literal in a statement.

For limitations on data types, see the documentation of the respective Java data type or the data type documentation of this database.

AES-128

Birthday Paradox

Digest
Protocol to protect a password (but not to protect data). See also: <a href="http://www.faqs.org/rfcs/rfc2617.html">RFC 2617: HTTP Digest Access Authentication</a>

GCJ


HTTPS

A protocol to provide security to HTTP connections. See also: <a href="http://www.ietf.org/rfc/rfc2818.txt">RFC 2818: HTTP Over TLS</a>

Modes of Operation

#Wikipedia: Block cipher modes of operation

Salt

Random number to increase the security of passwords. See also: <a href="http://en.wikipedia.org/wiki/Key_derivation_function">Wikipedia: Key derivation function</a>

SHA-256


SQL

A security vulnerability where an application embeds SQL statements or expressions in user input. See also: <a href="http://en.wikipedia.org/wiki/SQL_injection">Wikipedia: SQL Injection</a>

Watermark Attack ()
Security problem of certain encryption programs where the existence of certain data can be proven without decrypting. For more information, search in the internet for 'watermark attack cryptoloop'

SSL/TLS


XTEA

# This database is written in Java and therefore works on many platforms. It can also be compiled to a native executable using GCJ.

# For Java 1.4, the jar file needs to be converted first using <a href="http://retrotranslator.sourceforge.net">Retrotranslator</a>.

# To run this database, a Java Runtime Environment (JRE) version 1.5 or higher is required.

# To create the database executables, the following software stack was used. To use this database, it is not required to install this software however.

#Mac OS X and Windows XP

#Sun JDK Version 1.5 and 1.6

#Eclipse Version 3.4


#Emma Java Code Coverage

#Mozilla Firefox

#OpenOffice

#NSIS 2.38
You need to install a JDK, for example the Sun JDK version 1.5 or 1.6. Ensure that Java binary directory is included in the `PATH` environment variable, and that the environment variable `JAVA_HOME` points to your Java installation. On the command line, go to the directory `h2` and execute the following command:

```
# For Linux and OS X, use `./build.sh` instead of `build.sh`.
```

You will get a list of targets. If you want to build the `jar` file, execute (Windows):

```
# To run the build tool in shell mode, use the command line option `-` as in `./build.sh -`.
```

By default the source code uses Java 1.6 features, however Java 1.5 is supported as well. To switch the source code to the installed version of Java, run:

```
#Switching the Source Code
```

The build system can generate smaller jar files as well. The following targets are currently supported:

```
#jarClient
# creates the file `h2client.jar`. This only contains the JDBC client.
```

```
#jarSmall
```

```
```
# creates the file <code>h2small.jar</code>. This only contains the embedded database. Debug information is disabled.

```java
@build_1040_code
jarJaqu
```

# creates the file <code>h2jaqu.jar</code>. This only contains the JaQu (Java Query) implementation. All other jar files do not include JaQu.

```java
@build_1041_code
javadocImpl
```

# creates the Javadocs of the implementation.

```java
@build_1043_code
```

# To create the file <code>h2client.jar</code>, go to the directory <code>h2</code> and execute the following command:

```java
@build_1045_h2
Maven 2
```

```java
@build_1046_h3
Central
```

# You can include the database in your Maven 2 project as a dependency. Example:

```java
@build_1048_p
```

# New versions of this database are first uploaded to http://hsq1.sourceforge.net/m2-repo/ and then automatically synchronized with the main Maven repository; however after a new release it may take a few hours before they are available there.

```java
@build_1049_p
```

# To build a <code>h2-*-SNAPSHOT.jar</code> file and upload it the to the local Maven 2 repository, execute the following command:

```java
@build_1050_p
```

# Afterwards, you can include the database in your Maven 2 project as a dependency:

```java
@build_1051_p
```

```
@build_1052_h2
#Translating
```

```java
@build_1053_p
```
The translation of this software is split into the following parts:

- **H2 Console**: `<code>src/main/org/h2/server/web/res/_text_*.prop</code>`

- **Error messages**: `<code>src/main/org/h2/res/_messages_*.prop</code>`

To translate the H2 Console, start it and select Preferences / Translate. After you are done, send the translated `<code>*.prop</code>` file to the Google Group. The web site is currently translated using Google.

---

**Providing Patches**

If you like to provide patches, please consider the following guidelines to simplify merging them:

- Only use Java 1.5 features (do not use Java 1.6) (see `<a href="#environment">Environment</a>`).

- Follow the coding style used in the project, and use Checkstyle (see above) to verify. For example, do not use tabs (use spaces instead). The checkstyle configuration is in `<code>src/installer/checkstyle.xml</code>`.

- A template of the Eclipse settings are in `<code>src/installer/eclipse.settings/*</code>`. If you want to use them, you need to copy them to the `<code>.settings</code>` directory. The formatting options `<code>eclipseCodeStyle</code>` are also included.

- Please provide test cases and integrate them into the test suite. For Java level tests, see `<code>src/test/org/h2/test/TestAll.java</code>`. For SQL level tests, see `<code>src/test/org/h2/test/test.in.txt</code>` or `<code>testSimple.in.txt</code>`.

- The test cases should cover at least 90% of the changed and new code; use a code coverage tool to verify that (see above). or use the build target `<code>coverage</code>`.

- Verify that you did not break other features: run the test cases by executing `<code>build test</code>`.

- Provide end user documentation if required ( `<code>src/docsrc/html/*</code>`).

@build_1067_li
#Provide a change log entry (<code>src/docs/src/html/changelog.html</code>).

@build_1068_li
#Verify the spelling using <code>build spellcheck</code>. If required add the new words to

@build_1069_li
#Run <code>src/installer/buildRelease</code> to find and fix formatting errors.

@build_1070_li
#Verify the formatting using <code>build docs</code> and <code>build javadoc</code>.

@build_1071_li
#Submit patches as <code>.patch</code> files (compressed if big). To create a patch using Eclipse, use Team / Create Patch.

@build_1072_p
# For legal reasons, patches need to be public in the form of an email to the <a href="http://groups.google.com/group/h2-database">group</a>, or in the form of an <a href="http://code.google.com/p/h2database/issues/list">issue report or attachment</a>. Significant contributions need to include the following statement:

@build_1073_p
# "I wrote the code, it's mine, and I'm contributing it to H2 for distribution multiple-licensed under the H2 License, version 1.0, and under the Eclipse Public License, version 1.0 (http://h2database.com/html/license.html)."

@build_1074_h2
#Reporting Problems or Requests

@build_1075_p
# Please consider the following checklist if you have a question, want to report a problem, or if you have a feature request:

@build_1076_li
#Feature requests are always welcome, even if the feature is already on the <a href="roadmap.html">roadmap</a>. Your mail will help prioritize feature requests. If you urgently need a feature, consider <a href="#providing_patches">providing a patch</a>.

@build_1077_li
#Before posting problems, check the <a href="faq.html">FAQ</a> and do a <a href="http://google.com">Google search</a>.

@build_1078_li
#When got an unexpected exception, please try the <a href="sourceError.html">Error Analyzer tool</a>. If this doesn't help, please report the problem, including the complete error message and stack trace, and the root cause stack trace(s).
When sending source code, please use a public web clipboard such as Pastebin, Cl1p, or Mystic Paste to avoid formatting problems. Please keep test cases as simple and short as possible, but so that the problem can still be reproduced. As a template, use: HelloWorld.java. Method that simply call other methods should be avoided, as well as unnecessary exception handling. Please use the JDBC API and no external tools or libraries. The test should include all required initialization code, and should be started with the main method.

For large attachments, use a public temporary storage such as Rapidshare. Google Group versus issue tracking: Use the Google Group for questions or if you are not sure it's a bug. If you are sure it's a bug, you can create an issue, but you don't need to (sending an email to the group is enough). Please note that only few people monitor the issue tracking system.

For out-of-memory problems, please analyze the problem yourself first, for example using the command line option -XX:+HeapDumpOnOutOfMemoryError and a memory analysis tool such as the Eclipse Memory Analyzer (MAT).

It may take a few days to get an answers. Please do not double post.

This build process is automated and runs regularly. The build process includes running the tests and code coverage, using the command line ./build.sh clean jar coverage -Dh2.ftpPassword=... uploadBuild. The last results are available here:
# Latest Jar File (download, 1 MB)

@build_1091_h2
# Generating Railroad Diagrams

@build_1092_p
# The railroad diagrams are HTML, formatted as nested tables. The diagrams are generated as follows:

@build_1093_li
# The BNF parser (<code>org.h2.bnf.Bnf</code>) reads and parses the BNF from the file <code>help.csv</code>.

@build_1094_li
# The page parser (<code>org.h2.server.web.PageParser</code>) reads the template HTML file and fills in the diagrams.

@build_1095_li
# The rail images (one straight, four junctions, two turns) are generated using a simple Java application.

@build_1096_p
# To generate railroad diagrams for other grammars, see the package <code>org.h2.jcr</code>. This package is used to generate the SQL-2 railroad diagrams for the JCR 2.0 specification.

@changelog_1000_h1

@changelog_1001_h2
# Next Version (unreleased)

@changelog_1002_li
#-

@changelog_1003_h2
# Version 1.2.140 (2010-07-25)

@changelog_1004_li
# The default MAX_LOG_SIZE is now 16 MB instead of 2 MB. Some uses cases are 3 times faster now.

@changelog_1005_li
# Improved cache memory usage calculation.

@changelog_1006_li
# Only resources that are actually used are loaded in memory. This can reduce the memory usage by about 400 KB.

@changelog_1007_li
# Profiling: the jar file can now be installed as an agent using java -javaagent:h2*.jar - this was be used to more accurately calculate the memory footprint of the cache. It has no effect when using H2 (using this feature in an application is not needed and not recommended).
# The cache was not used efficiently when reading (behaving like a FIFO cache instead of an LRU cache).

# Storinglobs in the database has been changed. It is now faster. Unfortunately, the change is not backward compatible; if you have used h2.lobInDatabase before you will need to re-build the database.

# SHUTDOWN COMPACT is now faster.

# H2 Console: requesting the status did not always show the window on top of others.

# H2 Console: on some system, the browser windows got opened when requesting a new one.

# The built-in profiling tool now uses a default stack depth of 32 elements and a default interval of 10 ms.

# Database files now grows in 1 MB blocks (and at least 20% at a time), instead of always 256 KB. This speeds up loading a new database.

# H2 Console: new built-in command @sleep to help profile another session.

# For improved performance, LOG=0 and LOG=1 are again supported. LOG=0 means the transaction log is disabled completely (fastest; for loading a database). LOG=1 means the transaction log is enabled, but FileDescriptor.sync is disabled (if no protection against power failure is required). LOG=2 is the default (transaction log is enabled, FileDescriptor.sync for each checkpoint).

# After deleting a lot of data (for example by dropping or altering tables, or indexes, or after a large transaction), opening a large database was very slow. Fixed.

# When killing the process after creating and dropping many tables (specially temporary tables), the database could not be opened sometimes.

# CAST(NULL AS ...) doesn't forget the data type, precision, and scale any longer.

# Experimental support for recursive queries (see 'Advanced' - 'Recursive Queries' for details).

# Problems with JDK 1.6.0_18 have been reports in the class StringUtils.quoteRemarkSQL. This method is now
changed.

@changelog_1022_li
#The "small jar" distribution did not include the CompressTool, which was required for some operations. Fixed.

@changelog_1023_li
#The build tool now supports (minimalistic) shell mode, started using ./build.sh -

@changelog_1024_li
#IS NULL comparison with nested queries and linked tables did not work. Example: select * from (select x from test) where x is null.

@changelog_1025_li
#Support for null-safe equals. This includes the ANSI SQL standard syntax A IS [NOT] DISTINCT FROM B as well as the shorter A IS [NOT] B.

@changelog_1026_li
#Primary key violations threw a strange exception message when using a single column INT or BIGINT key.

@changelog_1027_li
#EXPLAIN ANALYZE now also lists the number of pages read from the file.

@changelog_1028_li
#Memory mapped files: There was a bug in version 1.2.139 so that memory mapped files could only be used together with split, for example: split:nioMapped: - the problem is now solved. It is still a good idea to use split:nioMapped: to work around the 2 GB limitation of memory mapped files.

@changelog_1029_li
#Memory mapped files: the system property h2.nioCleanerHack is now disabled by default because it was not always working as expected. Now System.gc() is used in a loop until the buffer is garbage collected. This of course is also not a nice solution, but the only one known to work. See also http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=4724038

@changelog_1030_li
#Bugfixes for the automatic 1.1 db migration.

@changelog_1031_li
#if an old 1.1 database file version is found on connect, it is now possible to let the old h2 classes (v 1.2.128) connect to the database. The automatic upgrade .jar file must be present, and the url must contain NO_UPGRADE=TRUE

@changelog_1032_li
#The automatic upgrade temporary script file is now encrypted.

@changelog_1033_h2
#Version 1.2.139 (2010-07-10)

@changelog_1034_li
There was a bug in the internal IntIntHashMap. There were no known side effects however.

ANALYZE now uses less memory.

Memory mapped file system: improved error messages if there is a problem.

The Lucene fulltext search did not work well when using special file systems such as split or nioMapped.

The memory mapped file system (nioMapped: file prefix) couldn't seek past the file length.

Some file system operations did not work with stacked file systems (for example split and nioMapped). This also affected the DeleteDbFiles tool.

New experimental query cache. The cache is only used if the SQL statement and all parameters match. Each session has its own cache with the given size. Only the last returned result per query is cached. Only SELECT statements are cached (excluding UNION and FOR UPDATE statements). This works for both statements and prepared statement. To enable, set the system property h2.commandCacheSize to a value larger than 0. There is currently no plan to enable this option by default in future versions.

Conditions with many OR operations could throw an UnsupportedOperationException if h2.optimizeOr was enabled.

XA connection: after transaction commit or rollback, the physical connection is set into autocommit mode.

MULTI_THREADED did not work correctly and could throw the exception "try to add a record twice" for larger databases because cache access was not correctly synchronized.

Automatic database upgrade from non page store is now possible. If the classes from the h2mig_pagestore_addon.jar file are in the classpath, the database will be converted to the current page store format automatically. The file can be found here: [http://h2database.com/h2mig_pagestore_addon.jar](http://h2database.com/h2mig_pagestore_addon.jar)

The MultiDimension tools was extended with a few helper methods. The API was unified a bit.

ODBC: MS Access could not link to a table with unique index or primary key. To solve this problem, index meta data is currently disabled for ODBC. When using the new H2 version to access a database over ODBC, the
PostgreSQL catalog is automatically upgraded. Using a database with an upgraded PostgreSQL catalog with an older version of H2 is still possible, but not over ODBC.

@changelog_1047_li
#ODBC: MS Access could not link to a table with a name containing '_'..

@changelog_1048_li
#ODBC: additional connection settings can now be added to the database name. Example: ~/test;cipher=xtea. Therefore, encrypted databases are supported.

@changelog_1049_li
#Local temporary tables can now be created without having to commit a transaction using CREATE LOCAL TEMPORARY TABLE TEMP(ID INT PRIMARY KEY) TRANSACTIONAL.

@changelog_1050_li
#New system property h2.dropRestrict (default false) to change the default action for DROP TABLE and DROP VIEW (false for CASCADE, true for RESTRICT). The plan is to enable this property by default in version 1.3.x.

@changelog_1051_li
#DROP TABLE now also supports CASCADE (still the default) and RESTRICT.

@changelog_1052_li
#The wrong exception was thrown when trying to connect to a server if the server was not running.

@changelog_1053_li
#UNION queries where the first query contains a nested query were parsed incorrectly. Example: "select 1 from (select 2 from dual) union select 3 from dual" was parsed as "select 1 from (select 2 from dual) union select 3 from dual)". Fixed.

@changelog_1054_li
#Support ALTER SCHEMA name RENAME TO newName (rename schema). (patch from Kerry Sainsbury)

@changelog_1055_h2
#Version 1.2.138 (2010-06-27)

@changelog_1056_li
#Referential integrity: it was not allowed to delete a row with NULL in the parent table, if there was a row with NULL in the child table.

@changelog_1057_li
#Experimental feature to support case sensitive catalog names and database names using the DATABASE() method. To use this feature, set the system property h2.databaseToUpper to false. The plan is to set the property to false by default in version 1.3.x. Issue 204 - thanks to Sylvain Cuaz (ILM Informatique) for the patch.

@changelog_1058_li
#Experimental feature to support nested joins. To enable, set the system property h2.nestedJoins to true. If enabled, nested joins and right outer joins should work as expected (issues 145, 177, and 203). The plan is to enable this feature by default in version 1.3.x.
@changelog_1059_li
#New sample application: CachedPreparedStatements.

@changelog_1060_li
#When creating functions within a schema, those functions could not be used in views, nested queries, and constraints. Fixed.

@changelog_1061_li
#The benchmarks have been run using recent database versions.

@changelog_1062_li
#Version 1.2.137 could still not be converted to Java 1.4 (because the Retrotranslator doesn't support BigDecimal.precision).

@changelog_1063_li
#Cluster: non-admin users could not connect when one of the cluster node was stopped. Issue 206.

@changelog_1064_li
#DROP VIEW now supports the CASCADE and RESTRICT clauses (patch from Kerry Sainsbury)

@changelog_1065_li
#CREATE VIEW now supports the OR REPLACE clause (patch from Kerry Sainsbury)

@changelog_1066_li
#Build tool: ability to only run one test using the -Dtest=className setting. eg: build -Dtest=org.h2.test.db.TestViewDropView test (patch from Kerry Sainsbury).

@changelog_1067_h2
#Version 1.2.137 (2010-06-06)

@changelog_1068_li
#Statements with a nested query and a condition that was always NULL threw an IndexOutOfBoundsException. Example: select * from (select null as x) where x=1

@changelog_1069_li
#The changes that were made to support large transactions also fixed a bug with large transactions (when the undo log file size is larger than 2 GB).

@changelog_1070_li
#Experimental feature to support very large transactions (except when using MVCC). To enable, set the system property h2.largeTransactions to true. If enabled, changes to tables without a primary key can be buffered to disk. The plan is to enable this feature by default in version 1.3.x.

@changelog_1071_li
#H2 Console: editing result sets is now also working for database other than H2, if they do support updatable result sets. Add "@edit" before the query. Only limited testing has been done on this feature, some data types may not work (please provide feedback if you find issues).
@changelog_1072_li
#Cluster: an open transaction was committed when a cluster node was stopped (because disabling the cluster executes SET CLUSTER ",", which committed the transaction). Transaction are no longer committed when calling SET CLUSTER. Issue 199.

@changelog_1073_li
#Cluster: non-admin users couldn't connect to the cluster and couldn't disable the cluster. Issue 201.

@changelog_1074_li
#Cluster: NEXTVAL('sequence') was only called on one cluster node, therefore sequence values could get out of sync.

@changelog_1075_li
#Version 1.2.136 could not be converted to Java 1.4 (because the Retrotranslator doesn't support BigDecimal.precision). A workaround has been implemented.

@changelog_1076_li
#The error code of IO exceptions in CSV functions was incorrect.

@changelog_1077_li
#The TriggerPassData example now uses a prefix (the database name).

@changelog_1078_li
#The wrong exception was thrown when trying to reference a table that doesn't support references such as a table in the information schema.

@changelog_1079_li
#Server.shutdownTcpServer can now stop all TCP servers on this JVM.

@changelog_1080_li
#JdbcConnectionPool: the default connection timeout is now 30 seconds (it used to be 5 minutes).

@changelog_1081_li
#LOB storage: LOBs added with "h2.lobInDatabase" enabled couldn't be read later with this option disabled.

@changelog_1082_h2
#Version 1.2.136 (2010-05-24)

@changelog_1083_li
#When using ORDER BY and there are both ascending and descending indexes, the database used the first index even when the second one could be used for sorting.

@changelog_1084_li
#Conditions of the form columnName IS NULL now use an index. To disable this feature, set the system property h2.optimizeIsNull to false.

@changelog_1085_li
#H2 Console: when the settings were not stored yet (for example when running for the first time), the last recently used settings were not stored. A workaround was to create the file ".h2.server.properties" manually in the current user home directory, with the contents: webAllowOthers=false, webPort=8082, webSSL=false, 0=Generic H2 (Embedded)|org.h2.Driver|jdbc:h2:~/test|sa (where a comma is a newline).

@changelog_1086_li
#The source code is now switched to Java 6 (JDK 1.6) by default. Java 5 (JDK 1.5) is still supported, and the jar file is still compiled for Java 5.

@changelog_1087_li
#The BOM (the byte-order-mark) character 0xfeff at the beginning of the file is ignored. This is for compatibility with Microsoft Excel.

@changelog_1088_li
#When opening an existing database, the cache size is set to at most half the amount of memory available for the virtual machine (Runtime.getRuntime().maxMemory()), even if the cache size setting stored in the database is larger. Setting the cache size in the database URL or explicitly using SET CACHE_SIZE overrides this value (even if larger than the physical memory).

@changelog_1089_li
#INFORMATION_SCHEMA.SETTINGS: the cache size is now returned in KB.

@changelog_1090_li
#New system property h2.selectForUpdateMvcc, the default is false (the feature is disabled). When enabled, SELECT ... FOR UPDATE only locks the selected rows in the MVCC mode. Aggregate or GROUP BY queries are not allowed in this case.

@changelog_1091_li
#Profiler: improved message if there was no stack trace.

@changelog_1092_li
#The H2 Console can now be used within another application, in a frame or iframe. Issue 197.

@changelog_1093_li
#Recover tool: the statistics section now includes page type counts again.

@changelog_1094_li
#Queries with multiple IN(...) conditions sometimes return the wrong results when there was a multi-column index for the column.

@changelog_1095_li
#Queries with IN(..., NULL) did sometimes return the wrong results when there was a index for the column.

@changelog_1096_li
#DECIMAL: faster precision and memory usage calculations.

@changelog_1097_li
#A new class org.h2.tools.TriggerAdapter allows to use the ResultSet interface within trigger implementations.
@changelog_1098_li
# A subselect which used an index could lead to wrong results. Fixed.

@changelog_1099_li
# Creating a cached temporary non persistent table with a primary key threw a NullPointerException.

@changelog_1100_h2
# Version 1.2.135 (2010-05-08)

@changelog_1101_li
# Temporary files were not deleted when using large transactions, disabling autocommit, and closing the session without committing.

@changelog_1102_li
# Queries using multiple IN(…) conditions on the same table could cause repeated rows in the result set.

@changelog_1103_li
# Translation: Lubomir Grajciar translated the H2 Console as well as all error message to Slovensky. Thanks a lot!

@changelog_1104_li
# There was a possible Java level deadlock when opening an uninitialized database and using a file system that also opened a database.

@changelog_1105_li
# When killing the process while the database was writing a checkpoint, while it was closing, or while running recovery (while removing temporary tables from a previous run), the database could become corrupt. A new test case has been implemented to ensure such problems can not occur in the future.

@changelog_1106_li
# File system: new method FileSystem.setReadOnly.

@changelog_1107_li
# The page size for new databases can now be set in the database URL using ;PAGE_SIZE=512. Currently this feature is only used to simplify testing.

@changelog_1108_li
# New system property h2.functionsInSchema (default is false). If enabled, the SCRIPT statement always includes the schema name in the CREATE ALIAS statement (even if the schema is PUBLIC). This is not backward compatible with H2 versions 1.2.134 and older.

@changelog_1109_li
# Functions: it is no longer required to add a space after a comma in the parameter list. Example: CREATE ALIAS PARSE_INT FOR "java.lang.Integer.parseInt(java.lang.String,int)"

@changelog_1110_li
# Functions now reside within a schema, similar to sequences. If you do create such functions in schemas other than PUBLIC, then the database can not be opened with older versions of H2.
#Cluster: after a cluster node failed, the second cluster node can now be re-created and started without having to stop the first cluster node, and without having to stop running applications. To do that, append ;AUTO_RECONNECT=TRUE to the database URL.

#Auto-reconnect: if another connection uses the database in exclusive mode then this connection will try to re-connect until the exclusive mode ends. This is important when using the cluster mode.

#SET EXCLUSIVE now supports 0 (disable), 1 (enable), and 2 (enable and close all other connections).

#Installing the H2 as a service should now work on Windows 7. The batch files now explicitly set the directory using pushd "%~dp0".

#Temporary tables can now be 'cached', that means indexes of temporary tables can be persisted. This enables very large temporary tables (both local and global).

#The CreateCluster tool now sets the source database in exclusive mode before copying data to the new database.

#The H2 Console now stream results one statement / result set at a time (using chunked transfer encoding). To disable, set the system property h2.consoleStream to false. This feature is not supported when using a servlet container.

#The H2 Console did not call the CreateCluster tool with the correctly escaped parameters.

#Improved PostgreSQL compatibility for ALTER TABLE ALTER COLUMN.

#Commas at the end of INSERT ... VALUES (), (), are now supported.

#The H2 Console "Start Browser" button now works even when the IP address changes while the tool runs (for example, because a wireless connection breaks, or when enabling / disabling the network connection).

#When casting from float or double to BigDecimal, the result was sometimes unexpected, because "new BigDecimal(double val)" was used. Now "BigDecimal.valueOf(double val)" and "new BigDecimal(Float.toString(f))" are used. But it is still not recommended to use float or double for currency values (see data type documentation).
#Global temporary tables are now deleted when closing the database. Before, they were deleted when opening the database the next time.

#UNIQUE was not listed as a keyword.

Improved error message when an non-SQL-exception occurred in a user defined function. The method name and parameters are included in the error message.

For some queries, the exception did not include the SQL statement. Example: select x from system_range(1, 2) group by 'a'.

The Shell tool will execute SQL statements passed as using the command line parameter -sql.

If InetAddress.getLocalHost() fails, the database should now throw an exception.

New columns INFORMATION_SCHEMA.INDEXES.INDEX_CLASS and INFORMATION_SCHEMA.TABLES.TABLE_CLASS.

INFORMATION_SCHEMA.INDEXES.SQL now contains the CREATE INDEX statement instead of just the fully qualified index name.

#Version 1.2.134 (2010-04-23)

New system property h2.analyzeAuto (default 0 meaning disabled) to automatically run ANALYZE after that many changes to a table. For details, see the Javadoc of this system property. The plan is to set this property to 2000 in version 1.3.x.

JdbcXAConnection.start() does not support TMJOIN. Issue 189.

MySQL compatibility: TIMESTAMPDIFF is now an alias for DATEDIFF.

MERGE did not respect foreign key and check constraints.

#ALTER TABLE ALTER COLUMN: changing the data type of a column no longer makes it nullable.
@changelog_1137_li
#When using AUTO_SERVER=TRUE, the server is now started as a daemon thread. This was a problem when using Tomcat and a connection pool.

@changelog_1138_li
#Servers can now be started as a daemon thread using the command line options -tcpDaemon, -pgDaemon, and -webDaemon.

@changelog_1139_li
#H2 Console: the built-in commands are now documented.

@changelog_1140_li
#REPLACE: if any parameter is null, the result is null.

@changelog_1141_li
#Queries with DISTINCT and ORDER BY will now use the index on ORDER BY if possible. This is specially important for queries used inside IN(SELECT ...).

@changelog_1142_li
#The new statement EXPLAIN ANALYZE executes the statement, and displays the query plan with the actual row scan count for each table.

@changelog_1143_li
#H2 Console: the auto-complete feature didn't quote column names that need quoting. Issue 186.

@changelog_1144_li
#The experimental LOB storage mechanism now supports all features of the old one. To use it, set the system property "h2.lobInDatabase" to "true". If you have used this feature in version 1.2.133, you need to export and re-import the database using SCRIPT / RUNSCRIPT.

@changelog_1145_li
#The functions isBeforeFirst() and isAfterLast() were not compliant to the JDBC spec. If the ResultSet contains no rows, they must return false. Fixed.

@changelog_1146_li
#Filesystem parameters like "split:" didn't work in server mode with baseDir set.

@changelog_1147_li
#If baseDir is set, and a database name is given which points to a directory outside the baseDir (eg. ".;/dbname"), an exception is thrown.

@changelog_1148_h2
#Version 1.2.133 (2010-04-10)

@changelog_1149_li
#A new experimental LOB storage mechanism is available. When enabled, CLOB and BLOB data is stored in hidden tables in the database. To use it, set the system property "h2.lobInDatabase" to "true". Compression is not yet
implemented. Duplicate objects are only stored once. Usually writing is slower, but reading is faster (mainly because of caching).

@changelog_1150_li
#The Shell tool threw a NumberFormatException on a empty statement.

@changelog_1151_li
#The h2small-*-jar did not support "drop all objects delete files". Now it is supported (the DeleteDbFiles tool is now included).

@changelog_1152_li
#Operations that don't fit in memory are now faster. Temporary file handling was changed.

@changelog_1153_li
#The default maximum log stream size is now 2 MB. This is a good value according to some performance tests.

@changelog_1154_li
#New system property "h2.syncMethod" to configure what method to call when closing the database, on checkpoint, and on CHECKPOINT SYNC. The default is "sync" which calls RandomAccessFile.getFD().sync().

@changelog_1155_li
#ROWNUM could not be used for pagination. The follow query returned no rows: select x from (select *, rownum as r from system_range(1, 3)) where r=2;

@changelog_1156_li
#Workaround for a java.sql.Date issue: years above 9999 are not formatted correctly. When calling ResultSet.getString() on a date value, an alternative formatting algorithm is used.

@changelog_1157_li
#Prepared statements with nested subqueries did not always return the correct result. Example: select ?, ?, (select count(*) from test t, (select id from test where 0=?2) t2 where t2.id=t.id) from test

@changelog_1158_li
#When using MULTI_THREADED=TRUE, the exception following exception could be thrown: "object already exists: TABLES"

@changelog_1159_li
#Comparison of integer columns against float numbers was not always correct. Issue 182.

@changelog_1160_li
#H2 Console: Editing the result of a multi-line queries failed. Issue 183.

@changelog_1161_li
#H2 Console: if the settings file (.h2.properties) can't be accessed, the exception is now ignored.

@changelog_1162_h2
#Version 1.2.132 (2010-03-21)
The implementation of a Java to C (source code level) converter has been started. The plan is: it should be possible to convert H2 (or a part of it) to C so that the database can be run without a JVM. This will be a long term project (it may take a year or so).

User defined table implementation can now be used using CREATE TABLE ... ENGINE. Thanks to Sergi Vladykin for implementing this feature!

Improved MS SQL Server compatibility: support string concatenation using "+". Thanks to Stepan for the patch!

When using the multi-threaded mode, running ANALYZE concurrently in multiple connections could throw an exception.

The MERGE statement is now about 30% faster when using a PreparedStatement.

Multi-column indexes where the second or later column was descending did not always produce correct results (rows were missing in the result set, or the result set was empty).

When using large transactions or a small log size, the database could get very slow (profiling shows the hotspot is in FileObjectDisk.sync()).

The Shell tool now prints the stack trace when the list mode is enabled.

CREATE ALIAS ... AS: Compilation was incorrect if the source code contained characters that are not supported by the default file encoding.

Issue 176: the JdbcDataSource now also supports a 'description' property.

The Shell tool threw a ArrayIndexOutOfBoundsException after 20 statements.

When using the small version of H2 ('jarClient'), the first call to Connection.createBlob (or similar) could throw a ClassNotFoundException because the file org.h2.store.fs.FileSystemZip is not included. This missing class is now ignored.

Literals of type BIGINT now have the correct data type.
#Version 1.2.131 (2010-03-05)

Older versions of H2 (version 1.2.127 and older) could not connect to a new version (version 1.2.129 and newer). The connection blocked when trying to connect. Now the connection no longer blocks, instead a SQL exception is thrown.

In versions 1.2.129 and 1.2.130, a database could not be opened sometimes after dropping tables or indexes, and then creating new indexes for existing tables. The exception contained the text "parent not found" (version 1.2.129) or "Table not found" (version 1.2.130).

After the database was closed, a null pointer exception could occur in Database.flush.

An ArrayIndexOutOfBoundsException could occur in the page store (eg. on "delete from table"). Fixed.

#Version 1.2.130 (2010-02-26)

EXPLAIN: The query plan now contains ".tableScan" if a table scan is used.

IN(..): when combining and IN(..) condition with a condition that didn't use an index, the result could contain duplicate rows.

IN(..): the index was not used if there were multiple IN(..) conditions.

For foreign key constraints, the metadata column INFORMATION_SCHEMA.INDEXES.CONSTRAINT_NAME was not set for non-unique indexes.

PostgreSQL compatibility: when using the following exception was thrown: Column "T.TYPTYPMOD" not found. Fixed. This is only when using psqlodbc_08_04*.

A tool to migrate an old database from the non-page store format to the newest version has been added in src/tools/org/h2/dev/util/Migrate.java. This file is not included in the jar file currently.

When using temporary tables, the database didn't shrink sometimes when closing. Also, sometimes a database could not recover normally.
Large transactions could run out of heap space. The maximum size of a transaction is now much larger.

The default setting for the system property h2.webMaxValueLength is now 100000 (it was 10000 before).

Creating a database was delayed about 2 seconds if the directory didn't exist.

Implemented INIT feature. If the database URL contains ";INIT=...;" then the DDL or DML commands following are executed on startup. Example URL: jdbc:h2:mem:test;INIT=RUNSCRIPT FROM '~/create.sql' (patch from Kerry Sainsbury).

Version 1.2.129 (2010-02-19)

The methods of the CloseListener are added to the Trigger interface. The interface CloseListener is removed. This is potentially a breaking change for existing triggers.

CREATE ALIAS: error message when compiling Java code have been improved.

MVCC: creating a table with an incorrect constraint could cause strange errors.

Hash indexes now are only used for single column indexes.

The cache types WEAK_* and TQ are no longer supported. A weak reference cache never frees up memory so it's the same as having a very large cache size. The TQ cache was not included in the jar file since a longer time, and was not tested.

The file system abstraction no longer throws SQL exceptions.

DatabaseEventListener.diskSpaceIsLow has changed.

The CompressTool no longer throw as SQL exceptions. Instead, it throws runtime exceptions.

SimpleResultSet.addColumn and addRow now can throw an IllegalStateException instead of a SQLException.
When doing an index lookup, decimal values with the same value but different scale (for example 0.00 and 0.0) where not considered equal in version 1.2.128. Now they are (unlike BigDecimal.equals()).

@changelog_1204_li
#The BNF parser now uses the visitor pattern.

@changelog_1205_li
#Converting a UUID to bytes was incorrect. Because of that, updatable result sets on tables with UUID primary key did not work.

@changelog_1206_li
#The database URL property DATABASE_EVENT_LISTENER_OBJECT is no longer supported (there are problems passing objects when the PostgreSQL driver is installed as well).

@changelog_1207_li
#H2 Console: asynchronous login (using a DatabaseEventListener) is no longer supported.

@changelog_1208_li
#A workaround for a Windows socket problem has been implemented. Thanks a lot to Sergi Vladykin.

@changelog_1209_li
#The Recover tool did not convert correctly convert CLOB data with non-ASCII characters.

@changelog_1210_li
#Tools: the method run(String... args) has been renamed to runTool(String... args).

@changelog_1211_li
#Server.startWebServer(Connection) was not working as expected.

@changelog_1212_li
#The database URL option ACCESS_MODE_LOG is no longer supported.

@changelog_1213_li
#The database URL option RECOVER has currently no effect.

@changelog_1214_li
#Converting an old (non-page store) database is no longer supported using this version.

@changelog_1215_li
#The following system properties are no longer supported: h2.overflowExceptions, h2.optimizeDropDependencies, h2.optimizeGroupSorted, h2.optimizeMinMax, h2.optimizeNot, h2.optimizeIn, h2.optimizeInJoin, h2.reuseSpace*. Most of them were there for a long time, but always with the same value. There was no unit test with the other value. So changing them was potentially dangerous (not a lot, but still).

@changelog_1216_li
#The setting LOG has currently no effect (it only had an effect when the page store was disabled).

@changelog_1217_li
Disabling the page store is no longer supported. The old storage mechanism has been removed, shrinking the jar file size by almost 10%.

The translated resources are now stored in UTF-8 format.

The Windows service wrapper now detects if multiple versions of H2 are installed.

Version 1.2.128 (2010-01-30)

There are known errors on rollback when the page store is disabled and at the same time MVCC is used. See http://code.google.com/p/h2database/issues/detail?id=158

The DeleteDbFiles tool deleted all files in the .lob.db directory, even files that didn't belong to the database.

Automatic conversion of old databases to the page store format failed if the database contained LOB files.

Nested subqueries didn't work for INSERT INTO and IN( ). Example: insert into test ((select 1));

If the database was already closed using SHUTDOWN IMMEDIATELY, closing a second connection could throw a NullPointerException if there was a local temporary table.

Less classes are loaded when using the database in embedded mode.

The information schema tables are only initialized when needed. This reduces memory usage and speeds up creating in-memory databases. Each in-memory database needs about 8 KB of heap memory.

Nested UNION/INTERSECT queries with brackets could produce the wrong result if used within a subquery. Example: select count(*) from (select 1 union (select 2 intersect select 2)) x;

Comparing an column against a constant expression with a higher precision or length than the column could give wrong results (the expression was truncated before comparing).

Improved PostgreSQL compatibility (support SHOW DEFAULT_TRANSACTION_ISOLATION).
#Documentation: the javadocs for Csv.write and read used the wrong default charset.

@changelog_1232_li
#MVCC: if the table was locked in exclusive mode (such as SELECT ... FOR UPDATE), another session could query the table. This is now longer possible.

@changelog_1233_li
#If a FOR UPDATE query was executed twice (using a PreparedStatement), the table was not locked.

@changelog_1234_li
#Triggers: INSTEAD OF triggers are now supported. Such triggers can be defined on views.

@changelog_1235_li
#New system property h2.identifiersToUpper. If set to false, identifiers in SQL statements are case sensitive even if they are not quoted.

@changelog_1236_li
#Slightly improved performance if the table is already locked.

@changelog_1237_li
#CompressLZF: faster decompression.

@changelog_1238_li
#PgServer: the wrong size was sent for VARCHAR data. Thanks again to Sergi Vladykin for the patch.

@changelog_1239_li
#Serialized access mode (server-less multi-connection mode): fixed getGeneratedKeys() for sequences.

@changelog_1240_h2
#Version 1.2.127 (2010-01-15)

@changelog_1241_li
#Serialized access mode (server-less multi-connection mode): sequences did not work as expected (there were gaps in generated values when using multiple connections).

@changelog_1242_li
#Page store: new databases can not be opened with older versions.

@changelog_1243_li
#Page store: adding data to new database is now faster.

@changelog_1244_li
#File system: getting the file name from a path is now faster. This should speed up BLOB and CLOB access.

@changelog_1245_li
#PgServer: incorrect SQL types were returned in result set meta data. Concurrently opening a database could fail (PG catalog initialization was not synchronized). Thanks a lot to Sergi Vladykin for providing the patches!
@changelog_1246_li
#SHOW COLUMNS did not work correctly if there were multiple indexes on the same columns.

@changelog_1247_li
#Page store: the wrong write count was written to the database header. This could cause the server-less multi-connection mode to fail.

@changelog_1248_li
#Result sets larger than 2 GB threw an exception "Negative seek offset". Fixed.

@changelog_1249_li
#If the system property h2.check was set to false, an ArrayIndexOutOfBoundsException could occur.

@changelog_1250_li
#Alter table is now supported even if a table has views defined. (Patch from Kerry Sainsbury).

@changelog_1251_li
#Fulltext search: exceptions within the fulltext search package had the wrong SQL state.

@changelog_1252_li
#The Lucene fulltext search ignored transaction rollback. Fixed using a trigger on rollback.

@changelog_1253_li
#Trigger can now be called on rollback.

@changelog_1254_li
#The shell script h2.sh ignored command line line arguments.

@changelog_1255_li
#When running H2 in the Google AppEngine for Java, a AccessControlException could be thrown when trying to open a read-only database. Fixed.

@changelog_1256_li
#The user home directory prefix (~) is now only expanded when followed by a slash or backslash, or standing alone.

@changelog_1257_li
#Native fulltext search: before inserting or deleting data, FT_INIT() had to be called. This is no longer required.

@changelog_1258_li
#The .trace.db file is now only created if required.

@changelog_1259_li
#Shell tool: improved PostgreSQL compatibility.

@changelog_1260_li
#Trying to open a database in read-only mode when a .lock.db file exists will now fail with a nice error message.
H2 Console: data that is too long is now abbreviated as follows: text... (100000 characters). A large binary is abbreviated as follows: abcdef... (100000 bytes).

Faster data conversion from BIGINT or INT to DECIMAL.

Server-less multi-connection mode: try to delete log files if switching between read/write operations.

CompressLZF: Faster decompress and improved javadocs

Version 1.2.126 (2009-12-18)

The ChangeFileEncryption tool will now fail with an exception if the database is still in use. The Backup tool will also fail except when running in quiet mode.

CSVREAD: when reading the column names from the CSV file, column names that contain no special characters are considered case insensitive now.

Optimization index conditions of the form 'column=NULL' (which is always false; unlike 'column IS NULL').

Script command and tool: the primary key constraint is now listed before inserting the data. This will result in a smaller database when using the page store.

Statements with IN(SELECT..) conditions could produce the wrong result. Example: index on id, name; query: select * from test where id between 1 and 3 and name in (select 'World').

Statements with IN(..) conditions could produce the wrong result when using views or nested select statements. Example: index on id; index on name; query: select * from (select * from test) where id=1 and name in('a', 'b').

select * from (select * from test) where id=1 and name in('Hello', 'World').

Page store: a rollback of a relatively large transaction could fail with an ArrayIndexOutOfBoundsException or a 'row not found' exception in the PageBtreeIndex in some cases.

JaQu: the decompiler has been improved, and a few test cases already work. It is still incomplete however.
#LIKE: any letter is now allowed after the escape character (which is still '\') by default. Previously, an exception was thrown (unlike other databases) if it was not the escape character, '_' or '%'. If the escape character appears at the end of the pattern, the result is it is ignored (like PostgreSQL and MS SQL Server).

@changelog_1275_li
#The reserve heap memory is no longer used.

@changelog_1276_li
#Database.checkpoint() could throw a NullPointerException.

@changelog_1277_h2
#Version 1.2.125 (2009-12-06)

@changelog_1278_li
#Lucene fulltext search: the Lucene field names now match the table column names, except if the column names start with _ (in which case another _ is prepended). Unfortunately this change means existing fulltext indexes need to be re-built.

@changelog_1279_li
#The shell tool now has a very simple statement history.

@changelog_1280_li
#The zip file system implementation now supports the '~/~' home directory prefix. Example database URL: jdbc:h2:zip:~/test.zip!/test

@changelog_1281_li
#Right outer joins on tables that were already 'inner joined' was processed incorrectly.

@changelog_1282_li
#Temporary files from LOB objects were not deleted early enough when using the server mode.

@changelog_1283_li
#Trying to alter a temporary table threw a strange exception. It is still not possible to do that, but the exception message is better now.

@changelog_1284_li
#When the system property h2.maxMemoryRowsDistinct was set, and using SELECT DISTINCT, the temporary table was not correctly dropped. This could cause problems in recovery when the process was killed.

@changelog_1285_li
#Trigger that are called before a select statement are now supported. This allows to create tables that work like materialized views.

@changelog_1286_li
#Non-row based triggers were called even if the action didn't match the declared action (INSERT triggers were also called when deleting rows). This has been changed. The MERGE statement calls both INSERT and DELETE triggers.
Statements with IN(..) conditions could produce the wrong result or a data conversion error (since version 1.2.120). Examples: index on id, name, condition: id=1 and name in('Hello', 'x'); index on id, query: select * from (select * from test) where id=1 and name in('Hello', 'World').

The CompressTool was not multithreading safe. Because of this, the following database operations where also not multithreading safe (even when using different databases): the SCRIPT command (only when using compression), the COMPRESS function, and storing CLOB or BLOB data (only when compression is enabled).

The compression algorithm "LZF" is now about 33% faster than before when compressing small block (around 2 KB). It is much faster than Deflate, but the compression ratio is lower. Some of the optimizations are from Sam Van Oort, thanks a lot!

Compressing large blocks of data didn't work when using the "Deflate" compression algorithm. Compressing a lot of data could run out of heap memory.

The test cases don't access the file system directly, this simplifies GAE for Java testing. Thanks to Vince Bonfanti.

More bugs in the server-less multi-connection mode have been fixed.

When running against an old database, the SCRIPT statement could generate a SQL script that contained duplicate indexes (PRIMARY_KEY_E).

JdbcConnectionPool.getConnection() could throw a NullPointerException.

User defined functions: the source code is now available using SELECT SOURCE FROM INFORMATION_SCHEMA_FUNCTION_ALIASES.

User defined functions with source code didn't work after re-opening the database.

The newsfeeds are now Atom 1.0 standard compliant.

The database is now closed after an out of memory exception, because the database could get corrupt otherwise.

Better error message if both AUTO_SERVER and SERIALIZED parameters are set to TRUE.
Drop table did not delete lob files in old file store (not PAGE_STORE).

#Version 1.2.124 (2009-11-20)

Clustering: there is now a way to detect which cluster instances are running.

ConvertTraceFile: the SQL statement statistics are better formatted (newline are removed).

The file lock thread is now stopped when the database is closed.

Issue 140: the Script tool now supports writing to a stream.

Issue 138: the trace output of Statement.execute(String, int) and executeUpdate was incorrect.

Page store: new databases can not be opened with older versions.

Page store: multi-column indexes didn't work if the cache was very small.

Page store: opening a database could theoretically result in an endless loop.

Page store: adding large indexed columns could get very slow.

Page store: after a duplicate key exception, an ArrayIndexOutOfBoundsException could be thrown (only for very large rows).

Page store: the recover tool sometimes generated a script file that contained duplicate data.

Page store: sometimes opening a read-only database failed.

Page store: opening a database sometimes failed if large rows where updated, or if a table was truncated before.

Page store: when using a very small page size (128 bytes or smaller), writing a large row could result in an endless
recursion. This is only a theoretical problem, as the page size is 2 KB.

@changelog_1316_li
#Page store: getting the min value from a descending index with NULL entries could return the wrong result.

@changelog_1317_li
#Page store: improved auto-recovery after power failure.

@changelog_1318_li
#The JDBC client did not detect that it was not talking to an H2 server. This could result in strange exceptions when trying to connect to another kind of server.

@changelog_1319_li
#User defined functions can be created with source code. Example: CREATE ALIAS HI AS 'String hi() { return "Hello"; }'

@changelog_1320_li
#Database file lock: the exception "lock file modified in the future" is no longer thrown; instead, opening the file will be delayed by 2 seconds.

@changelog_1321_li
#Inserting LOBs got slower each time the process was restarted. It could loop endlessly after about 1000 process restarts.

@changelog_1322_li
#Issue 117: Multi-version concurrency: concurrent MERGE statements now work.

@changelog_1323_li
#Improved read-only database detection.

@changelog_1324_h2
#Version 1.2.123 (2009-11-08)

@changelog_1325_li
#Page store: new databases can not be opened with older versions.

@changelog_1326_li
#Page store: updating large rows (rows with more than 2000 bytes of data) could corrupt the database.

@changelog_1327_li
#Page store: inserting very large rows failed with ArrayIndexOutOfBoundsException.

@changelog_1328_li
#When using multi-threaded kernel mode, setting disabling locking (LOCK_MODE=0) will now throw an exception. At this time this combination will result in corruption when multiple threads try to update the same table.

@changelog_1329_li
#The fulltext search methods and fields are now protected instead of private, to make the classes more easily
extensible.

@changelog_1330_li
#The Lucene fulltext search now also returns the score.

@changelog_1331_li
# New function SCOPE_IDENTITY() to avoid problems when inserting rows in a trigger.

@changelog_1332_li
#Statement.getGeneratedKeys() returned the wrong value if a trigger changed the identity value after inserting the row.

@changelog_1333_li
#Improved error messages: identifiers and values are now quoted.

@changelog_1334_li
#Improved error message when casting a value failed: the column name and type is included in the message.

@changelog_1335_li
#Improved support for GAE for Java thanks to Vince Bonfanti.

@changelog_1336_h2
#Version 1.2.122 (2009-10-28)

@changelog_1337_li
#The native fulltext search now supports streaming CLOB data.

@changelog_1338_li
#If the database URL ends with :PAGE_STORE=TRUE and a database in the old format exists, it is automatically converted to the new page store format if possible. A backup of the database is created first. Automatic conversion is not supported if the database was not closed normally (if it contains uncommitted transactions).

@changelog_1339_li
#Dropping the current user is now allowed if another admin user exists.

@changelog_1340_li
#Values of type BINARY or BLOB could not be converted to the data type OTHER.

@changelog_1341_li
#SHUTDOWN COMPACT now fully compacts the database.

@changelog_1342_li
#New system properties h2.maxCompactCount and h2.maxCompactTime to allow changing the default behavior (at most 2 seconds compacting when closing the database).

@changelog_1343_li
#New sorted insert optimization (see Performance / Database Performance Tuning).
@changelog_1344_li
#Issue 116: The files h2*-sources.jar and h2*-javadoc.jar are now in the Maven repository.

@changelog_1345_li
#Page store: opening a large database was slow if it was not closed before.

@changelog_1346_li
#Page store: new write and read counters in the meta data table. Use SELECT * FROM INFORMATION_SCHEMA.SETTINGS WHERE NAME IN( 'info.FILE_WRITE_TOTAL', 'info.FILE_WRITE', 'info.FILE_READ', 'info.CACHE_MAX_SIZE', 'info.CACHE_SIZE')

@changelog_1347_li
#The SQL syntax is documented using (railroad) diagrams. The diagrams are HTML.

@changelog_1348_li
#The documentation is no longer available in Japanese because the translation was too much out of sync. Please use the Google translation instead.

@changelog_1349_li
#Certain queries were not sorted if subselect queries were involved

@changelog_1350_li
#More bugs in the server-less multi-connection mode have been fixed: 90097 The database is read only, caches must be cleared on reconnect, etc.

@changelog_1351_h2
#Version 1.2.121 (2009-10-11)

@changelog_1352_li
#Better support GaeVFS (Google App Engine Virtual File System) thanks to Thanks to Vince Bonfanti.

@changelog_1353_li
#CSVREAD didn't close the file. Thanks to Vince Bonfanti for the patch!

@changelog_1354_li
#If a database in the old format exists, it is now used. The system property is used for new databases, or if databases exist in both formats. In any case, the flag in the URL overrides this logic.

@changelog_1355_li
#Page store bugs were fixed. Large values in indexed columns could corrupt the index.

@changelog_1356_li
#The page store did not work when using Retrotranslator (because the Retrotranslator doesn't support Integer.reverse and Long.reverse).

@changelog_1357_li
#New system property h2.pageStoreTrim to disable shrinking the database when closing (disabled by default, meaning by default the database is trimmed).
@changelog_1358_h2
#Version 1.2.120 (2009-10-04)

@changelog_1359_li
#This is a beta version.

@changelog_1360_li
#Large updates could throw an ArrayIndexOutOfBoundsException in RowList.writeRow.

@changelog_1361_li
#In version 1.2, the following system properties are now enabled by default: h2.pageStore, h2.nullConcatIsNull, h2.optimizeInList. The default value for h2.defaultMaxLengthInplaceLob is now 4096 (it was 1024 with version 1.1).

@changelog_1362_li
#New databases are now stored in the new 'page store' file format. Existing databases are kept in the old file format. To use the old file format, append ;PAGE_STORE=FALSE to the database URL or set the system property h2.pageStore to false.

@changelog_1363_li
#Issue 125: Renaming primary keys was not persistent. Fixed. Unfortunately, databases created by this version can not be opened with older versions because of this change.

@changelog_1364_li
#Issue 124: Hibernate schema validation failed for decimal/numeric columns. This problem is fixed in the Hibernate dialect that is included with H2 (src/tools/org/hibernate/dialect/H2Dialect.java.txt), but not in Hibernate yet.

@changelog_1365_li
#PostgreSQL compatibility: function LASTVAL() as an alias for IDENTITY().

@changelog_1366_li
#Linked tables now support default values when inserting, updating or merging.

@changelog_1367_li
#Bugfixes in the page store.

@changelog_1368_li
#Possibility to set a vendor id in Constants.java, so that unofficial builds are distinguishable from official releases.

@changelog_1369_li
# Allow writing to linked tables in readonly databases.

@changelog_1370_h2
#Version 1.1.119 (2009-09-26)

@changelog_1371_li
# SQL statements in the exception message are no longer included if they contain '--hide--'.

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 49646
Temporary local tables did not always work after reconnect if AUTO_SERVER=True

New system property h2.defaultMaxLengthInplaceLob to change the default maximum size of an in-place LOB object.

New system property h2.nullConcatIsNull to change the default null concatenation behavior. The default will be enabled in version 1.2.

The cache algorithm TQ is disabled in this version, because it is unstable, and because the current implementation does not have any measurable advantages over the default.

New committer: Christian Peter. He works for Docware and helped a lot finding and fixing bugs, and generally improving the database. He is now a committer.

ChangeFileEncryption did not work with Lob subdirectories. Fixed.

Issue 121: JaQu: new simple update and merge methods.

Issue 120: JaQu didn't close result sets.

Issue 119: JaQu creates wrong WHERE conditions on some inputs.

The new page store mechanism is now alpha-level quality. The next release will most likely be "1.2.120 beta" where this mode is enabled by default. To use it right now, append ;PAGE_STORE=TRUE to the database URL. The file format of this mode will probably not change any more.

SELECT COUNT(*) FROM SYSTEM_RANGE(...) returned the wrong result. Fixed.

The Recover tool now also processes the log files, however applying those changes is still a manual process.

New sample application that shows how to pass data to a trigger.

More bugs in the server-less multi-connection mode have been fixed: On Windows, two processes could write to
the same database at the same time.

@changelog_1386_li
#When loading triggers or other client classes (static functions, database event listener, user aggregate functions, other JDBC drivers), the database now uses the context class loader if the class could not be found using Class.forName().

@changelog_1387_li
#Updating many rows with the same CLOB or BLOB values could result in FileNotFoundException.

@changelog_1388_li
#Statement.getConnection() threw an exception if the connection was already closed.

@changelog_1389_li
#The native fulltext index kept a reference to a database after the database was closed.

@changelog_1390_li
#Non-unique in-memory hash indexes are now supported. Thanks a lot to Sergi Vladykin for the patch!

@changelog_1391_li
#The optimizer does a better job for joins if indexes are missing.

@cheatSheet_1000_h1
#H2 Database Engine Cheat Sheet

@cheatSheet_1001_h2
#Using H2

@cheatSheet_1002_a
H2

@cheatSheet_1003_li
# is <a href="http://code.google.com/p/h2database/source">open source</a>, <a href="license.html">free to use and distribute</a>.

@cheatSheet_1004_a

@cheatSheet_1005_li

@cheatSheet_1006_li
#To start the <a href="/quickstart.html#h2_console">H2 Console tool</a>, double click the jar file, or run <code>java -jar h2*.jar</code>, <code>h2.bat</code>, or <code>h2.sh</code>.

@cheatSheet_1007_a
# Database URLs

## Embedded

```
jdbc:h2:~/test
```

# 'test' in the user home directory

```
jdbc:h2:/data/test
```
@cheatSheet_1037_code
#jdbc:h2:...;MODE=MySQL

@cheatSheet_1038_a
#compatibility (or HSQLDB,...)

@cheatSheet_1039_code
#jdbc:h2:...;TRACE_LEVEL_FILE=3

@cheatSheet_1040_a
#log to *.trace.db

@cheatSheet_1041_a
#Using the JDBC API

@cheatSheet_1042_a
#Connection Pool

@cheatSheet_1043_a
#Maven 2

@cheatSheet_1044_a
#Hibernate

@cheatSheet_1045_p
# hibernate.cfg.xml (or use the HSQLDialect):

@cheatSheet_1046_a
#TopLink and Glassfish

@cheatSheet_1047_p
# Datasource class: <code>org.h2.jdbcx.JdbcDataSource</code>

@cheatSheet_1048_code
#oracle.toplink.essentials.platform.

@cheatSheet_1049_code
#database.H2Platform

@download_1000_h1

@download_1001_h3
#Version 1.2.140 (2010-07-25)

@download_1002_a
Windows Installer
@download_1003_a
Platform-Independent Zip

@download_1004_h3
#Version 1.2.139 (2010-07-10, Last Stable)

@download_1005_a
Windows Installer

@download_1006_a
Platform-Independent Zip

@download_1007_h3
#Download Mirror and Older Versions

@download_1008_a
Platform-Independent Zip

@download_1009_h3
#Jar File

@download_1010_a
#Maven.org

@download_1011_a
#Sourceforge.net

@download_1012_a
#Latest Automated Build (not released)

@download_1013_h3
#Database Upgrade Helper Files

@download_1014_a
#Upgrade database from 1.1 to the current version

@download_1015_h3

@download_1016_a
Google Code

@download_1017_p
# For details about changes, see the <a href="changelog.html">Change Log</a>.

@download_1018_h3
#News and Project Information
@download_1019_a
#Atom Feed

@download_1020_a
#RSS Feed

@download_1021_a
#DOAP File

@download_1022_p
# (<a href="http://trac.usefulinc.com/doap">what is this</a>)

@faq_1000_h1
FAQ

@faq_1001_a
# I Have a Problem or Feature Request

@faq_1002_a
# Are there Known Bugs? When is the Next Release?

@faq_1003_a
# Is this Database Engine Open Source?

@faq_1004_a
# My Query is Slow

@faq_1005_a
# How to Create a New Database?

@faq_1006_a
# How to Connect to a Database?

@faq_1007_a
# Where are the Database Files Stored?

@faq_1008_a
# What is the Size Limit (Maximum Size) of a Database?

@faq_1009_a
# Is it Reliable?

@faq_1010_a
# Why is Opening my Database Slow?

@faq_1011_a
# Column Names are Incorrect?
# Float is Double?

# Is the GCJ Version Stable? Faster?

# How to Translate this Project?

# I Have a Problem or Feature Request

# Please read the support checklist.

# Are there Known Bugs? When is the Next Release?

# Usually, bugs get fixes as they are found. There is a release every few weeks. Here is the list of known and confirmed issues:

# Apache Harmony: there seems to be a bug in Harmony that affects H2. See [HARMONY-6505](https://issues.apache.org/jira/browse/HARMONY-6505).

# Tomcat and Glassfish 3 set most static fields (final or non-final) to null when unloading a web application. This can cause a NullPointerException in H2 versions 1.1.107 and older, and may still not work in newer versions. Please report it if you run into this issue. In Tomcat &gt;= 6.0 this behavior can be disabled by setting the system property org.apache.catalina.loader.WebappClassLoader.ENABLE_CLEAR_REFERENCES=false, however Tomcat may then run out of memory. A known workaround is to put the h2*.jar file in a shared lib directory (common/lib).

# Some problems have been found with right outer join. Internally, it is converted to left outer join, which does not always produce the same results as other databases when used in combination with other joins.

# When using Install4j before 4.1.4 on Linux and enabling pack200, the h2*.jar becomes corrupted by the install process, causing application failure. A workaround is to add an empty file h2*.jar.nopack next to the h2*.jar file. This problem is solved in Install4j 4.1.4.

# For a complete list, see [Open Issues](http://code.google.com/p/h2database/issues/list).
# Yes. It is free to use and distribute, and the source code is included. See also under license.

# My Query is Slow

# Slow `<code>SELECT</code>` (or `<code>DELETE, UPDATE, MERGE</code>`) statement can have multiple reasons. Follow this checklist:

- Run `<code>ANALYZE</code>` (see documentation for details).
- Run the query with `<code>EXPLAIN</code>` and check if indexes are used (see documentation for details).
- If required, create additional indexes and try again using `<code>ANALYZE</code>` and `<code>EXPLAIN</code>`.
- If it doesn't help please report the problem.

# By default, a new database is automatically created if it does not yet exist. See [Creating New Databases](tutorial.html#creating_new_databases).

# The database driver is `<code>org.h2.Driver</code>`, and the database URL starts with `<code>jdbc:h2:</code>`. To connect to a database using JDBC, use the following code:

# When using database URLs like `<code>jdbc:h2:~/test</code>`, the database is stored in the user directory. For Windows, this is usually `<code>C:\Documents and Settings\&lt;userName&gt;</code>`. If the base directory is not set (as in `<code>jdbc:h2:test</code>`), the database files are stored in the directory where the application is started (the current working directory). When using the H2 Console application from the start menu, this is
The base directory can be set in the database URL. A fixed or relative path can be used. When using the URL `<code>jdbc:h2:file:sample</code>`, the database is stored in the directory `<code>data</code>` (relative to the current working directory). The directory is created automatically if it does not yet exist. It is also possible to use the fully qualified directory name (and for Windows, drive name).

Example: `<code>jdbc:h2:file:C:/data/test</code>`

**What is the Size Limit (Maximum Size) of a Database?**

- Disabling the transaction log or FileDescriptor.sync() using `LOG=0` or `LOG=1`.
- Using the transaction isolation level `<code>READ_UNCOMMITTED</code>` (`<code>LOCK_MODE 0</code>`) while at the same time using multiple connections.
- Disabling database file protection using (setting `<code>FILE_LOCK</code>` to `<code>NO</code>` in the database URL).
- Disabling referential integrity using `<code>SET REFERENTIAL_INTEGRITY FALSE</code>`.
- In addition to that, running out of memory should be avoided. In older versions, OutOfMemory errors while using the database could corrupt a databases.
- This database is well tested using automated test cases. The tests run every night and run for more than one hour. But not all areas of this database are equally well tested. When using one of the following features for production, please ensure your use case is well tested (if possible with automated test cases). The areas that are not well tested are:

Platforms other than Windows XP, Linux, Mac OS X, or JVMs other than Sun 1.5 or 1.6
The features `<code>AUTO_SERVER</code>` and `<code>AUTO_RECONNECT</code>`

The file locking method 'Serialized'

Cluster mode, 2-phase commit, savepoints

#24/7 operation

#Fulltext search

#Operations on LOBs over 2 GB

#Some operations on databases larger than 500 MB may be slower than expected

#The optimizer may not always select the best plan

# Areas considered experimental are:

The PostgreSQL server

#Multi-threading within the engine using `<code>SET MULTI_THREADED=1</code>`

#Compatibility modes for other databases (only some features are implemented)

#The soft reference cache (CACHE_TYPE=SOFT_LRU). It might not improve performance, and out of memory issues have been reported.

# Some users have reported that after a power failure, the database cannot be opened sometimes. In this case, use a backup of the database or the Recover tool. Please report such problems. The plan is that the database automatically recovers in all situations.

#Column Names are Incorrect?
@faq_1064_p
# For the query <code>SELECT ID AS X FROM TEST</code> the method <code>ResultSetMetaData.getColumnName()</code> returns <code>ID</code>, I expect it to return <code>X</code>. What's wrong?

@faq_1065_p
# This is not a bug. According the the JDBC specification, the method <code>ResultSetMetaData.getColumnName()</code> should return the name of the column and not the alias name. If you need the alias name, use <a href="http://java.sun.com/javase/6/docs/api/java/sql/ResultSetMetaData.html#getColumnLabel(int)"><code>ResultSetMetaData.getColumnLabel()</code></a>. Some other database don't work like this yet (they don't follow the JDBC specification). If you need compatibility with those databases, use the <a href="features.html#compatibility">Compatibility Mode</a>, or set the system property <a href="../javadoc/org/h2/constant/SysProperties.html#h2.aliasColumnName">h2.aliasColumnName</a>.

@faq_1066_p
# This also applies to DatabaseMetaData calls that return a result set. The columns in the JDBC API are column labels, not column names.

@faq_1067_h3
#Float is Double?

@faq_1068_p
# For a table defined as <code>CREATE TABLE TEST(X FLOAT)</code> the method <code>ResultSet.getObject()</code> returns a <code>java.lang.Double</code>, I expect it to return a <code>java.lang.Float</code>. What's wrong?

@faq_1069_p
# This is not a bug. According the the JDBC specification, the JDBC data type <code>FLOAT</code> is equivalent to <code>DOUBLE</code>, and both are mapped to <code>java.lang.Double</code>. See also <a href="http://java.sun.com/j2se/1.5.0/docs/guide/jdbc/getstart/mapping.html#1055162">Mapping SQL and Java Types - 8.3.10 FLOAT</a>.

@faq_1070_h3
#Why is Opening my Database Slow?

@faq_1071_p
# To find out what the problem is, use the H2 Console and click on "Test Connection" instead of "Login". After the "Login Successful" appears, click on it (it's a link). This will list the top stack traces. Then either analyze this yourself, or post those stack traces in the Google Group.

@faq_1072_p
# Other possible reasons are: the database is very big (many GB), or contains linked tables that are slow to open.

@faq_1073_h3
#Is the GCJ Version Stable? Faster?
# The GCJ version is not as stable as the Java version. When running the regression test with the GCJ version, sometimes the application just stops at what seems to be a random point without error message. Currently, the GCJ version is also slower than when using the Sun VM. However, the startup of the GCJ version is faster than when using a VM.

For more information, see [Build/Translating](build.html#translating).

## Feature List

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- **H2 in Use**
- **Connection Modes**
- **Database URL Overview**
- **Connecting to an Embedded (Local) Database**
- **In-Memory Databases**
- **Database Files Encryption**
- **Database File Locking**
- **Opening a Database Only if it Already Exists**
- **Closing a Database**
@features_1012_a
# Ignore Unknown Settings

@features_1013_a
# Changing Other Settings when Opening a Connection

@features_1014_a
# Custom File Access Mode

@features_1015_a
# Multiple Connections

@features_1016_a
# Database File Layout

@features_1017_a
# Logging and Recovery

@features_1018_a
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@features_1020_a
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# Using Other Logging APIs

@features_1024_a
# Read Only Databases

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# Read Only Databases in Zip or Jar File

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# Graceful Handling of Low Disk Space Situations

@features_1027_a
# Computed Columns / Function Based Index
# Multi-Dimensional Indexes

# Using Passwords

# User-Defined Functions and Stored Procedures

# Triggers

# Compacting a Database

# Cache Settings

# Very fast database engine

# Open source

# Written in Java

# Supports standard SQL, JDBC API

# Embedded and Server mode, Clustering support

# Strong security features

# The PostgreSQL ODBC driver can be used

# Multi version concurrency
Disk based or in-memory databases and tables, read-only database support, temporary tables

Transaction support (read committed and serializable transaction isolation), 2-phase-commit

Multiple connections, table level locking

Cost based optimizer, using a genetic algorithm for complex queries, zero-administration

Scrollable and updatable result set support, large result set, external result sorting, functions can return a result set

Encrypted database (AES or XTEA), SHA-256 password encryption, encryption functions, SSL

SQL

Support for multiple schemas, information schema

Referential integrity / foreign key constraints with cascade, check constraints

Inner and outer joins, subqueries, read only views and inline views

Triggers and Java functions / stored procedures

Many built-in functions, including XML and lossless data compression

Wide range of data types including large objects (BLOB/CLOB) and arrays

Sequence and autoincrement columns, computed columns (can be used for function based indexes)

ORDER BY, GROUP BY, HAVING, UNION, LIMIT, TOP
Collation support, users, roles

Compatibility modes for IBM DB2, Apache Derby, HSQldb, MS SQL Server, MySQL, Oracle, and PostgreSQL.

Includes a solution for the SQL injection problem

User password authentication uses SHA-256 and salt

For server mode connections, user passwords are never transmitted in plain text over the network (even when using insecure connections; this only applies to the TCP server and not to the H2 Console however; it also doesn't apply if you set the password in the database URL)

All database files (including script files that can be used to backup data) can be encrypted using AES-128 and XTEA encryption algorithms

The remote JDBC driver supports TCP/IP connections over SSL/TLS

The built-in web server supports connections over SSL/TLS

Passwords can be sent to the database using char arrays instead of Strings

Small footprint (smaller than 1 MB), low memory requirements

Multiple index types (b-tree, tree, hash)

Support for multi-dimensional indexes

CSV (comma separated values) file support
Support for linked tables, and a built-in virtual 'range' table

EXPLAIN PLAN

# support, sophisticated trace options

#Database closing can be delayed or disabled to improve the performance

#Web-based Console application (translated to many languages) with autocomplete

#The database can generate SQL script files

#Contains a recovery tool that can dump the contents of the database

#Support for variables (for example to calculate running totals)

#Automatic re-compilation of prepared statements

#Uses a small number of database files

#Uses a checksum for each record and log entry for data integrity

#Well tested (high code coverage, randomized stress tests)

H2

Derby
@features_1091_a
HSQLDB

@features_1092_a
MySQL

@features_1093_a
PostgreSQL

@features_1094_td
Pure Java

@features_1095_td

@features_1096_td

@features_1097_td

@features_1098_td

@features_1099_td

@features_1100_td
(Java)

@features_1101_td

@features_1102_td

@features_1103_td

@features_1104_td

@features_1105_td

@features_1106_td
()
# In-Memory Mode

# Explain Plan
<table>
<thead>
<tr>
<th>Features</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>#Built-in Clustering/Replication</td>
<td></td>
<td>Yes *10</td>
</tr>
</tbody>
</table>
# User-Defined Datatypes
<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>#Row Level Locking</strong></td>
<td><em>Yes</em></td>
</tr>
<tr>
<td>#Yes</td>
<td>*9</td>
</tr>
</tbody>
</table>
# Multi Version Concurrency

# Multi-Threaded Statement Processing

# No

# Role Based Security

# Yes
<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#Updatable Result Sets</td>
<td>Yes *7</td>
</tr>
<tr>
<td>#Sequences</td>
<td></td>
</tr>
<tr>
<td>#Limit and Offset</td>
<td></td>
</tr>
<tr>
<td>#Temporary Tables</td>
<td>Yes *4</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------</td>
</tr>
<tr>
<td>#Information Schema</td>
<td>No *8</td>
</tr>
<tr>
<td>#Computed Columns</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td></td>
</tr>
<tr>
<td>@features_1221_td</td>
<td></td>
</tr>
<tr>
<td>@features_1222_td</td>
<td></td>
</tr>
<tr>
<td>@features_1223_td</td>
<td></td>
</tr>
<tr>
<td>@features_1224_td</td>
<td></td>
</tr>
<tr>
<td>@features_1225_td</td>
<td></td>
</tr>
<tr>
<td>@features_1226_td</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#Case Insensitive Columns</th>
</tr>
</thead>
<tbody>
<tr>
<td>@features_1227_td</td>
</tr>
<tr>
<td>@features_1228_td</td>
</tr>
<tr>
<td>@features_1229_td</td>
</tr>
<tr>
<td>@features_1230_td</td>
</tr>
<tr>
<td>@features_1231_td</td>
</tr>
<tr>
<td>@features_1232_td</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#Custom Aggregate Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>@features_1233_td</td>
</tr>
<tr>
<td>@features_1234_td</td>
</tr>
</tbody>
</table>
*1 HSQLDB supports text tables.

*2 MySQL supports linked MySQL tables under the name 'federated tables'.

*3 Derby support for roles based security and password checking as an option.

*4 Derby only supports global temporary tables.

*5 The default H2 jar file contains debug information, jar files for other databases do not.

*6 PostgreSQL supports functional indexes.

*7 Derby only supports updatable result sets if the query is not sorted.
# Derby doesn't support standard compliant information schema tables.

# When using MVCC (multi version concurrency).

# Derby and HSQLDB don't hide data patterns well.

# The MULTI_THREADED option is not enabled by default, and not yet supported when using MVCC.

It looks like the development of this database has stopped. The last release was February 2006.

It looks like the development of this database has stopped. The last release was August 2004.

# The following connection modes are supported:

- Embedded mode (local connections using JDBC)
- Server mode (remote connections using JDBC or ODBC over TCP/IP)
- Mixed mode (local and remote connections at the same time)
In embedded mode, an application opens a database from within the same JVM using JDBC. This is the fastest and easiest connection mode. The disadvantage is that a database may only be open in one virtual machine (and class loader) at any time. As in all modes, both persistent and in-memory databases are supported. There is no limit on the number of database open concurrently, or on the number of open connections.

When using the server mode (sometimes called remote mode or client/server mode), an application opens a database remotely using the JDBC or ODBC API. A server needs to be started within the same or another virtual machine, or on another computer. Many applications can connect to the same database at the same time, by connecting to this server. Internally, the server process opens the database(s) in embedded mode.

The server mode is slower than the embedded mode, because all data is transferred over TCP/IP. As in all modes, both persistent and in-memory databases are supported. There is no limit on the number of database open concurrently per server, or on the number of open connections.

Mixed Mode

The mixed mode is a combination of the embedded and the server mode. The first application that connects to a database does that in embedded mode, but also starts a server so that other applications (running in different processes or virtual machines) can concurrently access the same data. The local connections are as fast as if the database is used in just the embedded mode, while the remote connections are a bit slower.

The server can be started and stopped from within the application (using the server API), or automatically (automatic mixed mode). When using the automatic mixed mode, all clients that want to connect to the database (no matter if it's an local or remote connection) can do so using the exact same database URL.

This database supports multiple connection modes and connection settings. This is achieved using different database URLs. Settings in the URLs are not case sensitive.
# jdbc:h2:[file:][&lt;path&gt;]&[&lt;databaseName&gt;]

# jdbc:h2:~/test

# jdbc:h2:file:/data/sample

# jdbc:h2:file:C:/data/sample (Windows only)

# In-memory (private)

jdbc:h2:mem:

# In-memory (named)

jdbc:h2:mem:&lt;databaseName&gt;

# Server mode (remote connections)

# using TCP/IP

jdbc:h2:tcp://&lt;server&gt;[:&lt;port&gt;]/[&lt;path&gt;]&[&lt;databaseName&gt;]

jdbc:h2:tcp://localhost/~/test

@features_1293_a
#Server mode (remote connections)

@features_1294_a
# using SSL/TLS

@features_1295_td
# jdbc:h2:ssl://&lt;server&gt;[:&lt;port&gt;]/&lt;databaseName&gt;

@features_1296_td
# jdbc:h2:ssl://secureserv:8085/~sample;

@features_1297_a
#Using encrypted files

@features_1298_td
# jdbc:h2:&lt;url&gt;;CIPHER=[AES|XTEA]

@features_1299_td
# jdbc:h2:ssl://secureserv/~testdb;CIPHER=AES

@features_1300_td
# jdbc:h2:file:~/secure;CIPHER=XTEA

@features_1301_a
#File locking methods

@features_1302_td
# jdbc:h2:&lt;url&gt;;FILE_LOCK={FILE|SOCKET|NO}

@features_1303_td
# jdbc:h2:file:~/private;CIPHER=XTEA;FILE_LOCK=SOCKET

@features_1304_a
#Only open if it already exists

@features_1305_td
# jdbc:h2:&lt;url&gt;;IFEXISTS=TRUE

@features_1306_td
# jdbc:h2:file:~/sample;IFEXISTS=TRUE

@features_1307_a
#Don't close the database when the VM exits

@features_1308_td
# jdbc:h2:&lt;url&gt;;DB_CLOSE_ON_EXIT=FALSE
@features_1309_a
#Execute SQL on connection

@features_1310_td
# jdbc:h2:&lt;url&gt;&amp;INIT=RUNSCRIPT FROM '~/create.sql'

@features_1311_td
# jdbc:h2:file:~/sample;INIT=RUNSCRIPT FROM '~/create.sql'\;RUNSCRIPT FROM '~/populate.sql'

@features_1312_a
#User name and/or password

@features_1313_td
# jdbc:h2:&lt;url&gt;[;USER=&lt;username&gt;][;PASSWORD=&lt;value&gt;]

@features_1314_td
# jdbc:h2:file:~/sample;USER=sa;PASSWORD=123

@features_1315_a
#Debug trace settings

@features_1316_td
# jdbc:h2:&lt;url&gt;[;TRACE_LEVEL_FILE=&lt;level 0..3&gt;]

@features_1317_td
# jdbc:h2:file:~/sample;TRACE_LEVEL_FILE=3

@features_1318_a
#Ignore unknown settings

@features_1319_td
# jdbc:h2:&lt;url&gt;[;IGNORE_UNKNOWN_SETTINGS=TRUE

@features_1320_a
#Custom file access mode

@features_1321_td
# jdbc:h2:&lt;url&gt;[;ACCESS_MODE_DATA=rws

@features_1322_a
#Database in a zip file

@features_1323_td
# jdbc:h2:zip:&lt;zipFileName&gt;!/&lt;databaseName&gt;

@features_1324_td
# jdbc:h2:zip:~/db.zip!/test
# Compatibility mode

```java
jdbc:h2:~/test;MODE=MYSQL
```

# Auto-reconnect

```java
jdbc:h2:tcp://localhost/~/test;AUTO_RECONNECT=TRUE
```

# Automatic mixed mode

```java
jdbc:h2:~/test;AUTO_SERVER=TRUE
```

# Page size

```java
jdbc:h2:<url>;PAGE_SIZE=512
```

# Changing other settings

```java
jdbc:h2:<url>;<setting>=<value>[;<setting>=<value>...]
```

```java
jdbc:h2:file:~/sample;TRACE_LEVEL_SYSTEM_OUT=3
```

# The database URL for connecting to a local database is
<code>jdbc:h2:[file:][&lt;path&gt;]:&lt;databaseName&gt;</code>. The prefix <code>file:</code> is optional. If no
or only a relative path is used, then the current working directory is used as a starting point. The case sensitivity of
the path and database name depend on the operating system, however it is recommended to use lowercase letters
only. The database name must be at least three characters long (a limitation of <code>File.createTempFile</code>).
To point to the user home directory, use <code>~/</code>, as in: <code>jdbc:h2:~/test</code>.

@features_1341_h2
# In-Memory Databases

@features_1342_p
# For certain use cases (for example: rapid prototyping, testing, high performance operations, read-only databases), it may not be required to persist data, or persist changes to the data. This database supports the in-memory mode, where the data is not persisted.

@features_1343_p
# In some cases, only one connection to a in-memory database is required. This means the database to be opened is private. In this case, the database URL is <code>jdbc:h2:mem:</code> Opening two connections within the same virtual machine means opening two different (private) databases.

@features_1344_p
# Sometimes multiple connections to the same in-memory database are required. In this case, the database URL must include a name. Example: <code>jdbc:h2:mem:db1</code>. Accessing the same database using this URL only works within the same virtual machine and class loader environment.

@features_1345_p
# In-memory can be accessed remotely (or from multiple processes in the same machine) using TCP/IP or SSL/TLS. An example database URL is: <code>jdbc:h2:tcp://localhost/mem:db1</code>.

@features_1346_p
# By default, closing the last connection to a database closes the database. For an in-memory database, this means the content is lost. To keep the database open, add <code>;DB_CLOSE_DELAY=-1</code> to the database URL. To keep the content of an in-memory database as long as the virtual machine is alive, use <code>jdbc:h2:mem:test;DB_CLOSE_DELAY=-1</code>.

@features_1347_h2
# Database Files Encryption

@features_1348_p
# The database files can be encrypted. Two encryption algorithms are supported: AES and XTEA. To use file encryption, you need to specify the encryption algorithm (the 'cipher') and the file password (in addition to the user password) when connecting to the database.

@features_1349_h3
# Creating a New Database with File Encryption

@features_1350_p
# By default, a new database is automatically created if it does not exist yet. To create an encrypted database, connect to it as it would already exist.
# Connecting to an Encrypted Database

The encryption algorithm is set in the database URL, and the file password is specified in the password field, before the user password. A single space separates the file password and the user password; the file password itself may not contain spaces. File passwords and user passwords are case sensitive. Here is an example to connect to a password-encrypted database:

```
@features_1353_h3
# Encrypting or Decrypting a Database

@features_1354_p
# To encrypt an existing database, use the <code>ChangeFileEncryption</code> tool. This tool can also decrypt an encrypted database, or change the file encryption key. The tool is available from within the H2 Console in the tools section, or you can run it from the command line. The following command line will encrypt the database <code>test</code> in the user home directory with the file password <code>filepwd</code> and the encryption algorithm AES:
```

```
@features_1355_h2

@features_1356_p
# Whenever a database is opened, a lock file is created to signal other processes that the database is in use. If database is closed, or if the process that opened the database terminates, this lock file is deleted.

@features_1357_p
# The following file locking methods are implemented:

@features_1358_li
# The default method is <code>FILE</code> and uses a watchdog thread to protect the database file. The watchdog reads the lock file each second.

@features_1359_li
# The second method is <code>SOCKET</code> and opens a server socket. The socket method does not require reading the lock file every second. The socket method should only be used if the database files are only accessed by one (and always the same) computer.

@features_1360_li
# It is also possible to open the database without file locking; in this case it is up to the application to protect the database files. Failing to do so will result in a corrupted database. Using the method <code>NO</code> forces the database to not create a lock file at all. Please note that this is unsafe as another process is able to open the same database, possibly leading to data corruption.

@features_1361_p
# To open the database with a different file locking method, use the parameter <code>FILE_LOCK</code>. The following code opens the database with the 'socket' locking method:
@features_1362_p
# For more information about the algorithms, see <a href="advanced.html#file_locking_protocols">Advanced / File Locking Protocols</a>.

@features_1363_h2

@features_1364_p
# By default, when an application calls <code>DriverManager.getConnection(url, ...)</code> and the database specified in the URL does not yet exist, a new (empty) database is created. In some situations, it is better to restrict creating new databases, and only allow to open existing databases. To do this, add <code>;IFEXISTS=TRUE</code> to the database URL. In this case, if the database does not already exist, an exception is thrown when trying to connect. The connection only succeeds when the database already exists. The complete URL may look like this:

@features_1365_h2
# Closing a Database

@features_1366_h3

@features_1367_p
# Usually, a database is closed when the last connection to it is closed. In some situations this slows down the application, for example when it is not possible to keep at least one connection open. The automatic closing of a database can be delayed or disabled with the SQL statement <code>SET DB_CLOSE_DELAY &lt;seconds&gt;</code>. The parameter &lt;seconds&gt; specifies the number of seconds to keep a database open after the last connection to it was closed. The following statement will keep a database open for 10 seconds after the last connection was closed:

@features_1368_p
# The value -1 means the database is not closed automatically. The value 0 is the default and means the database is closed when the last connection is closed. This setting is persistent and can be set by an administrator only. It is possible to set the value in the database URL: <code>jdbc:h2:~/test;DB_CLOSE_DELAY=10</code>.

@features_1369_h3
# Don't Close a Database when the VM Exits

@features_1370_p
# By default, a database is closed when the last connection is closed. However, if it is never closed, the database is closed when the virtual machine exits normally, using a shutdown hook. In some situations, the database should not be closed in this case, for example because the database is still used at virtual machine shutdown (to store the shutdown process in the database for example). For those cases, the automatic closing of the database can be disabled in the database URL. The first connection (the one that is opening the database) needs to set the option in the database URL (it is not possible to change the setting afterwards). The database URL to disable database closing on exit is:

@features_1371_h2
# Execute SQL on Connection
Sometimes, particularly for in-memory databases, it is useful to be able to execute DDL or DML commands automatically when a client connects to a database. This functionality is enabled via the INIT property. Note that multiple commands may be passed to INIT, but the semicolon delimiter must be escaped, as in the example below.

Some applications (for example OpenOffice.org Base) pass some additional parameters when connecting to the database. Why those parameters are passed is unknown. The parameters `PREFERDOSLIKELINEENDS` and `IGNOREDRIVERPRIVILEGES` are such examples; they are simply ignored to improve the compatibility with OpenOffice.org. If an application passes other parameters when connecting to the database, usually the database throws an exception saying the parameter is not supported. It is possible to ignore such parameters by adding `;IGNORE_UNKNOWN_SETTINGS=TRUE` to the database URL.

In addition to the settings already described, other database settings can be passed in the database URL. Adding `;setting=value` at the end of a database URL is the same as executing the statement `SET setting value` just after connecting. For a list of supported settings, see [SQL Grammar](grammar.html).

Usually, the database opens the database file with the access mode `rw`, meaning read-write (except for read only databases, where the mode `r` is used). To open a database in read-only mode if the database file is not read-only, use `ACCESS_MODE_DATA=r`. Also supported are `rws` and `rwd`. This setting must be specified in the database URL:

For more information see [Durability Problems](advanced.html#durability_problems). On many operating systems the access mode `rws` does not guarantee that the data is written to the disk.

An application can open multiple databases at the same time, including multiple connections to the same database.
The number of open database is only limited by the memory available.

# If you want to access the same database at the same time from different processes or computers, you need to use the client/server mode. In this case, one process acts as the server, and the other processes (that could reside on other computers as well) connect to the server via TCP/IP (or SSL/TLS over TCP/IP for improved security).

# This database is multithreading-safe. That means, if an application is multi-threaded, it does not need to worry about synchronizing access to the database. Internally, most requests to the same database are synchronized. That means an application can use multiple threads that access the same database at the same time, however if one thread executes a long running query, the other threads need to wait.

# An application should normally use one connection per thread. This database synchronizes access to the same connection, but other databases may not do this.

# The database uses table level locks to give each connection a consistent state of the data. There are two kinds of locks: read locks (shared locks) and write locks (exclusive locks). All locks are released when the transaction commits or rolls back. When using the default transaction isolation level 'read committed', read locks are already released after each statement.

# If a connection wants to reads from a table, and there is no write lock on the table, then a read lock is added to the table. If there is a write lock, then this connection waits for the other connection to release the lock. If a connection cannot get a lock for a specified time, then a lock timeout exception is thrown.

# Usually, `<code>SELECT</code>` statements will generate read locks. This includes subqueries. Statements that modify data use write locks. It is also possible to lock a table exclusively without modifying data, using the statement `<code>SELECT ... FOR UPDATE</code>`. The statements `<code>COMMIT</code>` and `<code>ROLLBACK</code>` releases all open locks. The commands `<code>SAVEPOINT</code>` and `<code>ROLLBACK TO SAVEPOINT</code>` don't affect locks. The locks are also released when the autocommit mode changes, and for connections with autocommit set to true (this is the default), locks are released after each statement. The following statements generate locks:
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The number of seconds until a lock timeout exception is thrown can be set separately for each connection using the SQL command `<code>SET LOCK_TIMEOUT &lt;milliseconds&gt;</code>. The initial lock timeout (that is the timeout used for new connections) can be set using the SQL command `<code>SET DEFAULT_LOCK_TIMEOUT &lt;milliseconds&gt;</code>. The default lock timeout is persistent.

The following files are created for persistent databases:

- `test.h2.db`: Database file. Contains the transaction log, indexes, and data for all tables.
- `test.lock.db`: Database lock file. Automatically (re-)created while the database is in use.

Format: `<code>&lt;database&gt;.h2.db</code>`

Format: `<code>&lt;database&gt;.lock.db</code>`
# 1 per database (only if in use)

# test.trace.db

# Trace file (if the trace option is enabled).

# Contains trace information.

# Format: `<code>&lt;database&gt;.trace.db</code>`

# Renamed to `<code>&lt;database&gt;.trace.db.old</code>` is too big.

# 0 or 1 per database

# test.lob.db/*

# Directory containing one file for each

# BLOB or CLOB value larger than a certain size.

# Format: `<code>&lt;id&gt;.t&lt;tableId&gt;.lob.db</code>`

# 1 per large object

# test.123.temp.db

# Temporary file.

# Contains a temporary blob or a large result set.

# Format: `<code>&lt;database&gt;.&lt;id&gt;.temp.db</code>`
# Database name and location are not stored inside the database files.

# While a database is closed, the files can be moved to another directory, and they can be renamed as well (as long as all files of the same database start with the same name and the respective extensions are unchanged).

# As there is no platform specific data in the files, they can be moved to other operating systems without problems.

# When the database is closed, it is possible to backup the database files. Please note that index files do not need to be backed up, because they contain redundant data, and will be recreated automatically if they don't exist.

# To backup data while the database is running, the SQL command <code>SCRIPT</code> can be used.

# Whenever data is modified in the database and those changes are committed, the changes are written to the transaction log (except for in-memory objects). The changes to the main data area itself are usually written later on, to optimize disk access. If there is a power failure, the main data area is not up-to-date, but because the changes are in the transaction log, the next time the database is opened, the changes are re-applied automatically.

# All database engines behave a little bit different. Where possible, H2 supports the ANSI SQL standard, and tries to be compatible to other databases. There are still a few differences however:

# In MySQL text columns are case insensitive by default, while in H2 they are case sensitive. However H2 supports case insensitive columns as well. To create the tables with case insensitive texts, append <code>IGNORECASE=TRUE</code> to the database URL (example: <code>jdbc:h2:~/test;IGNORECASE=TRUE</code> ).
For certain features, this database can emulate the behavior of specific databases. Not all features or differences of those databases are implemented. Here is the list of currently supported modes and the differences to the regular mode:

### DB2 Compatibility Mode

To use the IBM DB2 mode, use the database URL `<code>jdbc:h2:~/test;MODE=DB2</code>` or the SQL statement `<code>SET MODE DB2</code>`.

- For aliased columns, `<code>ResultSetMetaData.getColumnName()</code>` returns the alias name and `<code>getTableName()</code>` returns `<code>null</code>`.

- Support for the syntax `<code>[OFFSET .. ROW] [FETCH ... ONLY]</code>` as an alternative for `<code>LIMIT .. OFFSET</code>`.

- Concatenating `<code>NULL</code>` with another value results in the other value.

### Derby Compatibility Mode

To use the Apache Derby mode, use the database URL `<code>jdbc:h2:~/test;MODE=Derby</code>` or the SQL statement `<code>SET MODE Derby</code>`.

- For aliased columns, `<code>ResultSetMetaData.getColumnName()</code>` returns the alias name and `<code>getTableName()</code>` returns `<code>null</code>`.

- For unique indexes, `<code>NULL</code>` is distinct. That means only one row with `<code>NULL</code>` in one of the columns is allowed.

- Concatenating `<code>NULL</code>` with another value results in the other value.

### HSQLDB Compatibility Mode
To use the HSQLDB mode, use the database URL <code>jdbc:h2:~/test;MODE=HSQLDB</code> or the SQL statement <code>SET MODE HSQLDB</code>.

For aliased columns, <code>ResultSetMetaData.getColumnName()</code> returns the alias name and <code>getTableName()</code> returns <code>null</code>.

When converting the scale of decimal data, the number is only converted if the new scale is smaller than the current scale. Usually, the scale is converted and 0s are added if required.

For unique indexes, <code>NULL</code> is distinct. That means only one row with <code>NULL</code> in one of the columns is allowed.

Text can be concatenated using '+'.

MS SQL Server Compatibility Mode

To use the MS SQL Server mode, use the database URL <code>jdbc:h2:~/test;MODE=MSSQLServer</code> or the SQL statement <code>SET MODE MSSQLServer</code>.

For aliased columns, <code>ResultSetMetaData.getColumnName()</code> returns the alias name and <code>getTableName()</code> returns <code>null</code>.

Identifiers may be quoted using square brackets as in <code>[Test]</code>.

For unique indexes, <code>NULL</code> is distinct. That means only one row with <code>NULL</code> in one of the columns is allowed.

Concatenating <code>NULL</code> with another value results in the other value.

Text can be concatenated using '+'.

MySQL Compatibility Mode

To use the MySQL mode, use the database URL <code>jdbc:h2:~/test;MODE=MySQL</code> or the SQL
statement `SET MODE MySQL`.

@features_1480_li
#When inserting data, if a column is defined to be `NOT NULL` and `NULL` is inserted, then a 0 (or empty string, or the current timestamp for timestamp columns) value is used. Usually, this operation is not allowed and an exception is thrown.

@features_1481_li
#Creating indexes in the `CREATE TABLE` statement is allowed using `INDEX(..)` or `KEY(..)`. Example: `create table test(id int primary key, name varchar(255), key idx_name(name));`.

@features_1482_li
#Meta data calls return identifiers in lower case.

@features_1483_li
#When converting a floating point number to an integer, the fractional digits are not truncated, but the value is rounded.

@features_1484_li
#Concatenating `NULL` with another value results in the other value.

@features_1485_h3
#Oracle Compatibility Mode

@features_1486_p
# To use the Oracle mode, use the database URL `jdbc:h2:~/test;MODE=Oracle` or the SQL statement `SET MODE Oracle`.

@features_1487_li
#For aliased columns, `ResultSetMetaData.getColumnName()` returns the alias name and `getTableName()` returns `null`.

@features_1488_li
#When using unique indexes, multiple rows with `NULL` in all columns are allowed, however it is not allowed to have multiple rows with the same values otherwise.

@features_1489_li
#Concatenating `NULL` with another value results in the other value.

@features_1490_h3
#PostgreSQL Compatibility Mode

@features_1491_p
# To use the PostgreSQL mode, use the database URL `jdbc:h2:~/test;MODE=PostgreSQL` or the SQL statement `SET MODE PostgreSQL`.

@features_1492_li
#For aliased columns, `<code>ResultSetMetaData.getColumnLabel()</code>` returns the alias name and
`<code>getColumnType()</code>` returns `<code>null</code>`.

@features_1493.li
#When converting a floating point number to an integer, the fractional digits are not be truncated, but the value is
rounded.

@features_1494.li
#The system columns `<code>CTID</code>` and `<code>OID</code>` are supported.

@features_1495.h2
#Auto-Reconnect

@features_1496.p
# The auto-reconnect feature causes the JDBC driver to reconnect to the database if the connection is lost. The
automatic re-connect only occurs when auto-commit is enabled; if auto-commit is disabled, an exception is thrown.
To enable this mode, append `<code>;AUTO_RECONNECT=TRUE</code>` to the database URL.

@features_1497.p
# Re-connecting will open a new session. After an automatic re-connect, variables and local temporary tables
definitions (excluding data) are re-created. The contents of the system table
`<code>INFORMATION_SCHEMA.SESSION_STATE</code>` contains all client side state that is re-created.

@features_1498.p
# If another connection uses the database in exclusive mode (enabled using `<code>SET EXCLUSIVE 1</code>` or
`<code>SET EXCLUSIVE 2</code>`), then this connection will try to re-connect until the exclusive mode ends.

@features_1499.h2
#Automatic Mixed Mode

@features_1500.p
# Multiple processes can access the same database without having to start the server manually. To do that, append
`<code>;AUTO_SERVER=TRUE</code>` to the database URL. You can use the same database URL independent of
whether the database is already open or not. This feature doesn't work with in-memory databases.

@features_1501.p
# When using this mode, the first connection to the database is made in embedded mode, and additionally a server is
started internally (as a daemon thread). If the database is already open in another process, the server mode is used
automatically.

@features_1502.p
# The application that opens the first connection to the database uses the embedded mode, which is faster than the
server mode. Therefore the main application should open the database first if possible. The first connection
automatically starts a server on a random port. This server allows remote connections, however only to this database
(to ensure that, the client reads `<code>.lock.db</code>` file and sends the the random key that is stored there to the
server). When the first connection is closed, the server stops. If other (remote) connections are still open, one of
them will then start a server (auto-reconnect is enabled automatically).
# All processes need to have access to the database files. If the first connection is closed (the connection that started
the server), open transactions of other connections will be rolled back (this may not be a problem if you don't disable
autocommit). Explicit client/server connections (using <code>jdbc:h2:tcp://</code> or <code>ssl://</code>) are not
supported. This mode is not supported for in-memory databases.

# Here is an example how to use this mode. Application 1 and 2 are not necessarily started on the same computer,
but they need to have access to the database files. Application 1 and 2 are typically two different processes (however
they could run within the same process).

#Page Size

# The page size for new databases is 2 KB (2048), unless the system property <code>h2.pageSize</code> is set to a
different value, or the page size is set explicitly in the database URL using <code>PAGE_SIZE=</code>. The page
size of existing databases can not be changed.

# To find problems in an application, it is sometimes good to see what database operations where executed. This
database offers the following trace features:

- Trace to <code>System.out</code> and/or to a file
- Support for trace levels <code>OFF, ERROR, INFO, DEBUG</code>
- The maximum size of the trace file can be set
- It is possible to generate Java source code from the trace file
- Trace can be enabled at runtime by manually creating a file

# The simplest way to enable the trace option is setting it in the database URL. There are two settings, one for
<code>System.out</code> (<code>TRACE_LEVEL_SYSTEM_OUT</code>) tracing, and one for file tracing
(<code>TRACE_LEVEL_FILE</code>). The trace levels are 0 for <code>OFF</code>, 1 for
<code>ERROR</code> (the default), 2 for <code>INFO</code>, and 3 for <code>DEBUG</code>. A database URL with both levels set to <code>DEBUG</code> is:

```java
SET TRACE_LEVEL_SYSTEM_OUT level
SET TRACE_LEVEL_FILE level
```

The trace level can be changed at runtime by executing the SQL command <code>SET TRACE_LEVEL_SYSTEM_OUT level</code> (for System.out tracing) or <code>SET TRACE_LEVEL_FILE level</code> (for file tracing). Example:

```java
# When using a high trace level, the trace file can get very big quickly. The default size limit is 16 MB, if the trace file exceeds this limit, it is renamed to <code>.old</code> and a new file is created. If another such file exists, it is deleted. To limit the size to a certain number of megabytes, use <code>SET TRACE_MAX_FILE_SIZE mb</code>. Example:
```

Java

# When setting the trace level to <code>INFO</code> or <code>DEBUG</code>, Java source code is generated as well. This simplifies reproducing problems. The trace file looks like this:

```java
# To filter the Java source code, use the <code>ConvertTraceFile</code> tool as follows:
```

#Using Other Logging APIs

By default, this database uses its own native 'trace' facility. This facility is called 'trace' and not 'log' within this database to avoid confusion with the transaction log. Trace messages can be written to both file and <code>System.out</code>. In most cases, this is sufficient, however sometimes it is better to use the same facility as the application, for example Log4j. To do that, this database support SLF4J.

```java
# is a simple facade for various logging APIs and allows to plug in the desired implementation at deployment time. SLF4J supports implementations such as Logback, Log4j, Jakarta Commons Logging (JCL), Java logging, x4juli, and Simple Log.
```
# To enable SLF4J, set the file trace level to 4 in the database URL:

```java
<code>SET TRACE_LEVEL_FILE 4</code>
```

# Changing the log mechanism is not possible after the database is open, that means executing the SQL statement when the database is already open will not have the desired effect. To use SLF4J, all required jar files need to be in the classpath. If it does not work, check the file 
> <code>&lt;database&gt;.trace.db</code> for error messages.

# If the database files are read-only, then the database is read-only as well. It is not possible to create new tables, add or modify data in this database. Only <code>SELECT</code> and <code>CALL</code> statements are allowed. To create a read-only database, close the database. Then, make the database file read-only. When you open the database now, it is read-only. There are two ways an application can find out whether database is read-only: by calling <code>Connection.isReadOnly()</code> or by executing the SQL statement <code>CALL READONLY()</code>.

# Using the Custom Access Mode, the database can also be opened in read-only mode, even if the database file is not read only.

# Read Only Databases in Zip or Jar File

# To create a read-only database in a zip file, first create a regular persistent database, and then create a backup. The database must not have pending changes, that means you need to close all connections to the database first. If you are using a database named <code>test</code>, an easy way to create a zip file is using the <code>Backup</code> tool. You can start the tool from the command line, or from within the H2 Console (Tools - Backup). Please note that the database must be closed when the backup is created. Therefore, the SQL statement <code>BACKUP TO</code> can not be used.

# When the zip file is created, you can open the database in the zip file using the following database URL:

```java
<code>Databases in zip files are read-only. The performance for some queries will be slower than when using a regular database, because random access in zip files is not supported (only streaming). How much this affects the performance depends on the queries and the data. The database is not read in memory; therefore large databases are supported as well. The same indexes are used as when using a regular database.

```
If the database needs more disk space, it calls the database event listener if one is installed. The application may then delete temporary files, or display a message and wait until the user has resolved the problem. To install a listener, run the SQL statement `<code>SET DATABASE_EVENT_LISTENER</code>` or use a database URL of the form `<code>jdbc:h2:~/test;DATABASE_EVENT_LISTENER=com.acme.DbListener</code>` (the quotes around the class name are required). See also the `<code>DatabaseEventListener</code>` API.

If a database cannot be opened because the boot info (the SQL script that is run at startup) is corrupted, then the database can be opened by specifying a database event listener. The exceptions are logged, but opening the database will continue.

Function indexes are not directly supported by this database, but they can be emulated by using computed columns. For example, if an index on the upper-case version of a column is required, create a computed column with the upper-case version of the original column, and create an index for this column:

When inserting data, it is not required (and not allowed) to specify a value for the upper-case version of the column, because the value is generated. But you can use the column when querying the table:

A tool is provided to execute efficient multi-dimension (spatial) range queries. This database does not support a specialized spatial index (R-Tree or similar). Instead, the B-Tree index is used. For each record, the multi-dimensional key is converted (mapped) to a single dimensional (scalar) value. This value specifies the location on a space-filling curve.

Currently, Z-order (also called N-order or Morton-order) is used; Hilbert curve could also be used, but the implementation is more complex. The algorithm to convert the multi-dimensional value is called bit-interleaving. The scalar value is indexed using a B-Tree index (usually using a computed column).

The method can result in a drastic performance improvement over just using an index on the first column. Depending on the data and number of dimensions, the improvement is usually higher than factor 5. The tool generates a SQL query from a specified multi-dimensional range. The method used is not database dependent, and the tool can easily be ported to other databases. For an example how to use the tool, please have a look at the sample code provided in `<code>TestMultiDimension.java</code>`.
Remember that weak passwords can be broken regardless of the encryption and security protocols. Don't use passwords that can be found in a dictionary. Also appending numbers does not make them secure. A way to create good passwords that can be remembered is, take the first letters of a sentence, use upper and lower case characters, and creatively include special characters. Example:

```
i'sE2rtPlUKtT
```

from the sentence `<code>it's easy to remember this password if you know the trick</code>.

---

**StringChar Arrays**

Java strings are immutable objects and cannot be safely 'destroyed' by the application. After creating a string, it will remain in the main memory of the computer at least until it is garbage collected. The garbage collection cannot be controlled by the application, and even if it is garbage collected the data may still remain in memory. It might also be possible that the part of memory containing the password is swapped to disk (because not enough main memory is available).

An attacker might have access to the swap file of the operating system. It is therefore a good idea to use char arrays instead of strings to store passwords. Char arrays can be cleared (filled with zeros) after use, and therefore the password will not be stored in the swap file.

---

This database supports using char arrays instead of string to pass user and file passwords. The following code can be used to do that:

```
This example requires Java 1.6. When using Swing, use `<code>javax.swing.JPasswordField</code>.
```

---

Instead of passing the user name as a separate parameter as in `<code> Connection conn = DriverManager.getConnection("jdbc:h2:~/test", "sa", "123"); </code>` the user name (and/or password) can be supplied in the URL itself: `<code> Connection conn = DriverManager.getConnection("jdbc:h2:~/test;USER=sa;PASSWORD=123"); </code>` The settings in the URL override the settings passed as a separate parameter.
In addition to the built-in functions, this database supports user-defined Java functions. In this database, Java functions can be used as stored procedures as well. A function must be declared (registered) before it can be used. A function can be defined using source code, or as a reference to a compiled class that is available in the classpath. By default, the function aliases are stored in the current schema.

Referencing a Compiled Method

When referencing a method, the class must already be compiled and included in the classpath where the database is running. Only static Java methods are supported; both the class and the method must be public. Example Java class:

```
The Java function must be registered in the database by calling <code>CREATE ALIAS ... FOR</code>:
```

For a complete sample application, see <code>src/test/org/h2/samples/Function.java</code>.

Declaring Functions as Source Code

When defining a function alias with source code, the database tries to compile the source code using the Sun Java compiler (the class <code>com.sun.tools.javac.Main</code>) if the <code>tools.jar</code> is in the classpath. If not, <code>javac</code> is run as a separate process. Only the source code is stored in the database; the class is compiled each time the database is re-opened. Source code is usually passed as dollar quoted text to avoid escaping problems, however single quotes can be used as well. Example:

```
The method name (<code>nextPrime</code> in the example above) is ignored. By default, the three packages <code>java.util, java.math, java.sql</code> are imported. If different import statements are required, they must be declared at the beginning and separated with the tag <code>@CODE</code>:
```

The following template is used to create a complete Java class:

```
The following template is used to create a complete Java class:
```

Functions that accept non-nullable parameters such as <code>int</code> will not be called if one of those parameters is <code>NULL</code>. Instead, the result of the function is <code>NULL</code>. If the function...
should be called if a parameter is `<code>NULL</code>`, you need to use `<code>java.lang.Integer</code>` instead.

```java
public static void callFunc1(java.sql.Connection conn) {
    // method implementation
}
```

# SQL types are mapped to Java classes and vice-versa as in the JDBC API. For details, see [Data Types](datatypes.html). There are two special cases: `<code>java.lang.Object</code>` is mapped to `<code>OTHER</code>` (a serialized object). Therefore, `<code>java.lang.Object</code>` cannot be used to match all SQL types (matching all SQL types is not supported). The second special case is `<code>Object[]</code>`: arrays of any class are mapped to `<code>ARRAY</code>`.

```java
public static void callFunc2(java.sql.Connection conn) {
    // method implementation
}
```

# Functions That Require a Connection

```java
public static void callFunc3(java.sql.Connection conn) {
    // method implementation
}
```

# Functions Throwing an Exception

```java
public static void callFunc4(java.sql.Connection conn) {
    // method implementation
}
```

# Functions Returning a Result Set

```java
public static void callFunc5(java.sql.Connection conn) {
    // method implementation
}
```

```java
public static void callFunc6() {
    // method implementation
}
```

### SimpleResultSet

```java
public static void callFunc7() {
    // method implementation
}
```

# A function that returns a result set can be used like a table. However, in this case the function is called at least twice: first while parsing the statement to collect the column names (with parameters set to `<code>null</code>` where not known at compile time). And then, while executing the statement to get the data (maybe multiple times if this is a join). If the function is called just to get the column list, the URL of the connection passed to the function is `<code>jdbc:columnlist:connection</code>`. Otherwise, the URL of the connection is `<code>jdbc:default:connection</code>`.
This database supports Java triggers that are called before or after a row is updated, inserted or deleted. Triggers can be used for complex consistency checks, or to update related data in the database. It is also possible to use triggers to simulate materialized views. For a complete sample application, see <code>src/test/org/h2/samples/TriggerSample.java</code>. A Java trigger must implement the interface <code>org.h2.api.Trigger</code>. The trigger class must be available in the classpath of the database engine (when using the server mode, it must be in the classpath of the server).

The connection can be used to query or update data in other tables. The trigger then needs to be defined in the database:

The trigger can be used to veto a change by throwing a <code>SQLException</code>.

Empty space in the database file re-used automatically. When closing the database, the database is automatically compacted for up to 1 second by default. To compact more, use the SQL statement SHUTDOWN COMPACT. However re-creating the database may further reduce the database size because this will re-build the indexes. Here is a sample function to do this:

See also the sample application <code>org.h2.samples.Compact</code>. The commands <code>SCRIPT / RUNSCRIPT</code> can be used as well to create a backup of a database and re-build the database from the script.

The database keeps most frequently used data in the main memory. The amount of memory used for caching can be changed using the setting <code>CACHE_SIZE</code>. This setting can be set in the database connection URL (<code>jdbc:h2:~/test;CACHE_SIZE=131072</code>), or it can be changed at runtime using <code>SET CACHE_SIZE size</code>. The size of the cache, as represented by <code>CACHE_SIZE</code> is measured in KB, with each KB being 1024 bytes. This setting has no effect for in-memory databases. For persistent databases, the setting is stored in the database and re-used when the database is opened the next time. However, when opening an existing database, the cache size is set to at most half the amount of memory available for the virtual machine (Runtime.getRuntime().maxMemory()), even if the cache size setting stored in the database is larger; however the setting stored in the database is kept. Setting the cache size in the database URL or explicitly using <code>SET CACHE_SIZE</code> overrides this value (even if larger than the physical memory). To get the current used maximum cache size, use the query <code>SELECT * FROM INFORMATION_SCHEMA SETTINGS WHERE NAME = 'info.CACHE_MAX_SIZE'</code>
# Also included is an experimental second level soft reference cache. Rows in this cache are only garbage collected on low memory. By default the second level cache is disabled. To enable it, use the prefix `<code>SOFTWARE</code>.
Example: `<code>jdbc:h2:~/test;CACHE_TYPE=SOFTWARE_LRU</code>`. The cache might not actually improve performance. If you plan to use it, please run your own test cases first.

# To get information about page reads and writes, and the current caching algorithm in use, call `<code>SELECT * FROM INFORMATION_SCHEMA.SETTINGS</code>`. The number of pages read / written is listed.
Welcome to H2, the free SQL database. The main feature of H2 are:

- It is free to use for everybody, source code is included
- Written in Java, but also available as native executable
- JDBC and (partial) ODBC API
- Embedded and client/server modes
- Clustering is supported
- A web client is included

If you are not automatically redirected to the main page, then Javascript is currently disabled or your browser does not support Javascript. Some features (for example the integrated search) require Javascript.

Please enable Javascript, or go ahead without it: <a href="main.html" style="font-size: 16px; font-weight: bold">H2 Database Engine</a>
# Roadmap

# History of this Database Engine

# Why Java

# Supporters


The development of H2 was started in May 2004, but it was first published on December 14th 2005. The main author of H2, Thomas Mueller, is also the original developer of Hypersonic SQL. In 2001, he joined PointBase Inc. where he wrote PointBase Micro, a commercial Java SQL database. At that point, he had to discontinue Hypersonic SQL. The HSQLDB Group was formed to continue to work on the Hypersonic SQL codebase. The name H2 stands for Hypersonic 2, however H2 does not share code with Hypersonic SQL or HSQLDB. H2 is built from scratch.

Java

The main reasons to use a Java database are:

- Very simple to integrate in Java applications
- Support for many different platforms
More secure than native applications (no buffer overflows)

User defined functions (or triggers) run very fast

Unicode support

Some think Java is too slow for low level operations, but this is no longer true. Garbage collection for example is now faster than manual memory management.

Developing Java code is faster than developing C or C++ code. When using Java, most time can be spent on improving the algorithms instead of porting the code to different platforms or doing memory management. Features such as Unicode and network libraries are already built-in. In Java, writing secure code is easier because buffer overflows can not occur. Features such as reflection can be used for randomized testing.

Java is future proof: a lot of companies support Java. Java is now open source.

To increase the portability and ease of use, this software depends on very few libraries. Features that are not available in open source Java implementations (such as Swing) are not used, or only used for optional features.

Many thanks for those who reported bugs, gave valuable feedback, spread the word, and translated this project. Also many thanks to the donors:

Code Lutin, France

Code 42 Software, Inc., Minneapolis

NetSuxxess GmbH, Germany

Poker Copilot, Steve McLeod, Germany

SkyCash, Poland
# Requirements
To run this database, the following software stack is known to work. Other software most likely also works, but is not tested as much.

## Database Engine

- Windows XP or Vista, Mac OS X, or Linux
- Sun JDK 1.5 or newer (using Retroweaver to convert to JDK 1.4 should work, but is not regularly tested)
- Recommended Windows file system: NTFS (FAT32 only supports files up to 4 GB)

## H2 Console

- Mozilla Firefox

As this database is written in Java, it can run on many different platforms. It is tested with Java 1.5 and 1.6 but can also be compiled to native code using GCJ. The source code does not use features of Java 1.6. Currently, the database is developed and tested on Windows XP and Mac OS X using the Sun JDK 1.6, but it also works in many other operating systems and using other Java runtime environments.
# To install the software, run the installer or unzip it to a directory of your choice.

```bash
@installation_1017_h2
```

```bash
@installation_1018_p
# After installing, you should get the following directory structure:
```

```
@installation_1019_th
```

```
@installation_1020_th
```

```
@installation_1021_td
bin
```

```
@installation_1022_td
JARbatch
```

```
@installation_1023_td
docs
```

```
@installation_1024_td
```

```
@installation_1025_td
docs/html
```

```
@installation_1026_td
HTML
```

```
@installation_1027_td
docs/javadoc
```

```
@installation_1028_td
Javadoc
```

```
@installation_1029_td
#ext
```

```
@installation_1030_td
#External dependencies (downloaded when building)
```

```
@installation_1031_td
service
```

```
@installation_1032_td
```
Windows Service

@installation_1033_td
src

@installation_1034_td
Source

@installation_1035_td
#src/docs_src

@installation_1036_td
#Documentation sources

@installation_1037_td
#src/installer

@installation_1038_td
#Installer, shell, and release build script

@installation_1039_td
#src/main

@installation_1040_td
#Database engine source code

@installation_1041_td
#src/test

@installation_1042_td
#Test source code

@installation_1043_td
#src/tools

@installation_1044_td
#Tools and database adapters source code

@jaqu_1000_h1
#JaQu

@jaqu_1001_a
# What is JaQu

@jaqu_1002_a
# Differences to Other Data Access Tools

@jaqu_1003_a
# Current State

@jaqu_1004_a
# Building the JaQu Library

@jaqu_1005_a
# Requirements

@jaqu_1006_a
# Example Code

@jaqu_1007_a
# Configuration

@jaqu_1008_a
# Natural Syntax

@jaqu_1009_a
# Other Ideas

@jaqu_1010_a
# Similar Projects

@jaqu_1011_h2
# What is JaQu

@jaqu_1012_p
# JaQu stands for Java Query and allows to access databases using pure Java. JaQu provides a fluent interface (or internal DSL) to access a database. JaQu is something like LINQ for Java (LINQ stands for "language integrated query" and is a Microsoft .NET technology). The following JaQu code:

@jaqu_1013_p
# stands for the SQL statement:

@jaqu_1014_h2
# Differences to Other Data Access Tools

@jaqu_1015_p
# Unlike SQL, JaQu can be easily integrated in Java applications. Because JaQu is pure Java, auto-complete in the IDE and Javadoc and are supported. Type checking is performed by the compiler. JaQu fully protects against SQL injection.

@jaqu_1016_p
# JaQu is more a replacement for JDBC than it is a replacement for tools like Hibernate. With JaQu, you don't write SQL statements as Strings. JaQu is much smaller and simpler than other persistence frameworks such as Hibernate, but it also does not provide all the features of those. Unlike iBatis and Hibernate, no XML or annotation based configuration is required; instead the configuration (if required at all) is done in pure Java, in the application itself.
JaQu does not require or contain any data caching mechanism. Like JDBC and iBatis, JaQu provides full control over when and what SQL statements are executed (but without having to write SQL statements as Strings).

# Restrictions

Primitive types (e.g. boolean, int, long, double) are not supported. Use java.lang.Boolean, Integer, Long, Double instead.

# Why in Java?

Most people use Java in their application. Mixing Java and another language (for example Scala or Groovy) in the same application is complicated: you would need to split the application and database code.

# Current State

Currently, JaQu is only tested with the H2 database. The API may change in future versions. JaQu is not part of the h2 jar file, however the source code is included in H2, under:

```
#src/test/org/h2/test/jaqu/*
# (samples and tests)
```

```
#src/tools/org/h2/jaqu/*
# (framework)
```

# Building the JaQu Library

To create the JaQu jar file, run: `build jarJaqu`. This will create the file `bin/h2jaqu.jar`. 

#
JaQu requires Java 1.5. Annotations are not needed. Currently, JaQu is only tested with the H2 database engine, however in theory it should work with any database that supports the JDBC API.

Example Code

Configuration

JaQu does not require any configuration when using the default mapping. To define table indices, or if you want to map a class to a table with a different name, or a field to a column with another name, create a function called define in the data class. Example:

The method define contains the mapping definition. It is called once when the class is used for the first time. Like annotations, the mapping is defined in the class itself. Unlike when using annotations, the compiler can check the syntax even for multi-column objects (multi-column indexes, multi-column primary keys and so on). Because the definition is written in regular Java, the configuration can depend on the environment. This is not possible using annotations. Unlike XML mapping configuration, the configuration is integrated in the class itself.

Natural Syntax

The plan is to support more natural (pure Java) syntax in conditions. To do that, the condition class is de-compiled to a SQL condition. A proof of concept decompiler is included (but it doesn't work yet). The planned syntax is:

Other Ideas

This project has just been started, and nothing is fixed yet. Some ideas for what to implement are:

Support queries on collections (instead of using a database).

Provide API level compatibility with JPA (so that JaQu can be used as an extension of JPA).

Internally use a JPA implementation (for example Hibernate) instead of SQL directly.

Use PreparedStatements and cache them.
# Similar Projects

@jaqu_1045_a
# Cement Framework

@jaqu_1046_a
# Dreamsource ORM

@jaqu_1047_a
# Empire-db

@jaqu_1048_a
# JEQUEL: Java Embedded QUery Language

@jaqu_1049_a
# Joist

@jaqu_1050_a
# JoSQL

@jaqu_1051_a
# LIQUidFORM

@jaqu_1052_a
# Quaere (Alias implementation)

@jaqu_1053_a
# Quaere

@jaqu_1054_a
# Querydsl

@jaqu_1055_a
# Squill

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#In Use and Links

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 49730
Those are just a few links to products using or supporting H2. If you want to add a link, please send it to the support email address or post it in the group.

@links_1002_a
# Books

@links_1003_a
# Extensions

@links_1004_a
# Blog Articles

@links_1005_a
# Database Frontends / Tools

@links_1006_a
# Products and Projects

@links_1007_h2
# Books

@links_1008_a
# Seam In Action

@links_1009_h2
# Extensions

@links_1010_a
# Grails H2 Database Plugin

@links_1011_a
# h2osgi: OSGi for the H2 Database

@links_1012_a
# H2Sharp: ADO.NET interface for the H2 database engine

@links_1013_a
# H2 Spatial: spatial functions to H2 database

@links_1014_h2
# Blog Articles

@links_1015_a
# Analyzing CSVs with H2 in under 10 minutes (2009-12-07)

@links_1016_a
# Efficient sorting and iteration on large databases (2009-06-15)
@links_1017_a
# Porting Flexive to the H2 Database (2008-12-05)

@links_1018_a
# H2 Database with GlassFish (2008-11-24)

@links_1019_a
# Using H2 Database with Glassfish and Toplink (2008-08-07)

@links_1020_a
# H2 Database - Performance Tracing (2008-04-30)

@links_1021_a
# Testing your JDBC data access layer with DBUnit and H2 (2007-09-18)

@links_1022_a
# Open Source Databases Comparison (2007-09-11)

@links_1023_a
# The Codist: The Open Source Frameworks I Use (2007-07-23)

@links_1024_a
# The Codist: SQL Injections: How Not To Get Stuck (2007-05-08)

@links_1025_a
# One Man Band: (Helma + H2) == "to easy" (2007-03-11)

@links_1026_a
# David Coldrick's Weblog: New Version of H2 Database Released (2007-01-06)

@links_1027_a
# The Codist: Write Your Own Database, Again (2006-11-13)

@links_1028_h2
# Project Pages

@links_1029_a
# Ohloh

@links_1030_a
# Freshmeat Project Page

@links_1031_a
# Free Open Source Software For Us

@links_1032_a
# Wikipedia
@links_1033_a
# Java Source Net

@links_1034_a
# Linux Package Manager

@links_1035_h2
# Database Frontends / Tools

@links_1036_a
# DB Solo

@links_1037_p
# SQL query tool.

@links_1038_a
# DbVisualizer

@links_1039_p
# Database tool.

@links_1040_a
# Execute Query

@links_1041_p
# Database utility written in Java.

@links_1042_a
# [fleXive]

@links_1043_p
# JavaEE 5 open source framework for the development of complex and evolving (web-)applications.

@links_1044_a
# HenPlus

@links_1045_p
# HenPlus is a SQL shell written in Java.

@links_1046_a
# OpenOffice

@links_1047_p
# Base is OpenOffice.org's database application. It provides access to relational data sources.

@links_1048_a
# RazorSQL
# SQL Developer

# Universal Database Frontend.

# SQL Workbench/J

# Free DBMS-independent SQL tool.

# SQuirreL SQL Client

# Graphical tool to view the structure of a database, browse the data, issue SQL commands etc.

# SQuirreL DB Copy Plugin

# Tool to copy data from one database to another.

# Products and Projects

# AccuProcess

# Visual business process modeling and simulation software for business users.

# Adeptia BPM

# A Business Process Management (BPM) suite to quickly and easily automate business processes and workflows.

# Adeptia Integration

# Process-centric, services-based application integration suite.
Aejaks

A server-side scripting environment to build AJAX enabled web applications.

Axiom Stack

A web framework that let's you write dynamic web applications with Zen-like simplicity.

Apache Cayenne

Open source persistence framework providing object-relational mapping (ORM) and remoting services.

Apache Jackrabbit

Open source implementation of the Java Content Repository API (JCR).

Apache OpenJPA

Open source implementation of the Java Persistence API (JPA).

AppFuse

Helps building web applications.

BGBlitz

The Swiss army knife of Backgammon.

Blojsom

Java-based multi-blog, multi-user software package (Mac OS X Weblog Server).
# Bonita

Open source workflow solution for handing long-running, user-oriented processes providing out of the box workflow and business process management features.

# Bookmarks Portlet

JSR 168 compliant bookmarks managementportlet application.

# Claros inTouch

Ajax communication suite with mail, addresses, notes, IM, and rss reader.

# CrashPlan PRO Server

Easy and cross platform backup solution for business and service providers.

# DbUnit

A JUnit extension (also usable with Ant) targeted for database-driven projects.

# Dinamica Framework

Ajax/J2EE framework for RAD development (mainly oriented toward hispanic markets).

# Ebean ORM Persistence Layer

Open source Java Object Relational Mapping tool.

# Eclipse CDO

The CDO (Connected Data Objects) Model Repository is a distributed shared model framework for EMF models,
and a fast server-based O/R mapping solution.

- **Epictetus**
  - A free cross-platform database tool.

- **Fabric3**
  - Fabric3 is a project implementing a federated service network based on the Service Component Architecture specification (http://www.osoa.org).

- **FIT4Data**
  - A testing framework for data management applications built on the Java implementation of FIT.

- **Flux**
  - A Java job scheduler, file transfer, workflow, and BPM.

- **GBIF Integrated Publishing Toolkit (IPT)**
  - The GBIF IPT is an open source, Java based web application that connects and serves three types of biodiversity data: taxon primary occurrence data, taxon checklists and general resource metadata.

- **GNU Gluco Control**
  - Helps you to manage your diabetes.

- **Golden T Studios**
  - Fun-to-play games with a simple interface.

- **Group Session**
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

@links_1112_p
# Open source web groupware.

@links_1113_a
# HA-JDBC

@links_1114_p
# High-Availability JDBC: A JDBC proxy that provides light-weight, transparent, fault tolerant clustering capability to any underlying JDBC driver.

@links_1115_a
# Harbor

@links_1116_p
# Pojo Application Server.

@links_1117_a
# Hibernate

@links_1118_p
# Relational persistence for idiomatic Java (O-R mapping tool).

@links_1119_a
# Hibicius

@links_1120_p
# Online Banking Client for the HBCI protocol.

@links_1121_a
# ImageMapper

@links_1122_p
# ImageMapper frees users from having to use file browsers to view their images. They get fast access to images and easy cataloguing of them via a user friendly interface.

@links_1123_a
# JAMWiki

@links_1124_p
# Java-based Wiki engine.

@links_1125_a
# Jala

@links_1126_p
# Open source collection of JavaScript modules.
@links_1127_a
# Java Simon

@links_1128_p
# Simple Monitoring API.

@links_1129_a
# JBoss jBPM

@links_1130_p
# A platform for executable process languages ranging from business process management (BPM) over workflow to service orchestration.

@links_1131_a
# JBoss Jopr

@links_1132_p
# An enterprise management solution for JBoss middleware projects and other application technologies.

@links_1133_a
# JGeocoder

@links_1134_p
# Free Java geocoder. Geocoding is the process of estimating a latitude and longitude for a given location.

@links_1135_a
# JGrass

@links_1136_p
# Java Geographic Resources Analysis Support System. Free, multi platform, open source GIS based on the GIS framework of uDig.

@links_1137_a
# Jena

@links_1138_p
# Java framework for building Semantic Web applications.

@links_1139_a
# JMatter

@links_1140_p
# Framework for constructing workgroup business applications based on the Naked Objects Architectural Pattern.

@links_1141_a
# JotBot

@links_1142_p
# Records your day at user defined intervals.

@links_1143_a
# JPOX

@links_1144_p
# Java persistent objects.

@links_1145_a
# Liftweb

@links_1146_p
# A Scala-based, secure, developer friendly web framework.

@links_1147_a
# LiquiBase

@links_1148_p
# A tool to manage database changes and refactorings.

@links_1149_a
# Luntbuild

@links_1150_p
# Build automation and management tool.

@links_1151_a
# localdb

@links_1152_p
# A tool that locates the full file path of the folder containing the database files.

@links_1153_a
# Magnolia

@links_1154_p

@links_1155_a
# MiniConnectionPoolManager

@links_1156_p
# A lightweight standalone JDBC connection pool manager.

@links_1157_a
# Mr. Persister
# Simple, small and fast object relational mapping.

# Myna Application Server

# Java web app that provides dynamic web content and Java libraries access from JavaScript.

# MyTunesRSS lets you listen to your music wherever you are.

# NCGC CurveFit

From: NIH Chemical Genomics Center, National Institutes of Health, USA. An open source application in the life sciences research field. This application handles chemical structures and biological responses of thousands of compounds with the potential to handle million+ compounds. It utilizes an embedded H2 database to enable flexible query/retrieval of all data including advanced chemical substructure and similarity searching. The application highlights an automated curve fitting and classification algorithm that outperforms commercial packages in the field. Commercial alternatives are typically small desktop software that handle a few dose response curves at a time. A couple of commercial packages that do handle several thousand curves are very expensive tools (&gt;60k USD) that require manual curation of analysis by the user; require a license to Oracle; lack advanced query/retrieval; and the ability to handle chemical structures.

# Nuxeo

# Standards-based, open source platform for building ECM applications.

# nWire

# Eclipse plug-in which expedites Java development. It's main purpose is to help developers find code quicker and easily understand how it relates to the rest of the application, thus, understand the application structure.

# Ontology Works

# This company provides semantic technologies including deductive information repositories (the Ontology Works Knowledge Servers), semantic information fusion and semantic federation of legacy databases, ontology-based
domain modeling, and management of the distributed enterprise.

@links_1171_a
# Ontoprise OntoBroker

@links_1172_p
# SemanticWeb-Middleware. It supports all W3C Semantic Web recommendations: OWL, RDF, RDFS, SPARQL, and F-Logic.

@links_1173_a
# Open Anzo

@links_1174_p
# Semantic Application Server.

@links_1175_a
# OpenTelegard

@links_1176_p
# An OpenSource BBS Software written in JRuby.

@links_1177_a
# OpenGroove

@links_1178_p
# OpenGroove is a groupware program that allows users to synchronize data.

@links_1179_a
# OpenSocial Development Environment (OSDE)

@links_1180_p
# Development tool for OpenSocial application.

@links_1181_a
# Orion

@links_1182_p
# J2EE Application Server.

@links_1183_a
# P5H2

@links_1184_p
# A library for the <a href="http://www.processing.org">Processing</a> programming language and environment.

@links_1185_a
# Phase-6
A computer based learning software.

# Pickle

Pickle is a Java library containing classes for persistence, concurrency, and logging.

# Piman

Water treatment projects data management.

# PolePosition

Open source database benchmark.

# Poormans

Very basic CMS running as a SWT application and generating static html pages.

# Railo

Railo is an alternative engine for the Cold Fusion Markup Language, that compiles code programmed in CFML into Java bytecode and executes it on a servlet engine.

# Razuna

Open source Digital Asset Management System with integrated Web Content Management.

# RIFE

A full-stack web application framework with tools and APIs to implement most common web features.

# Rutema
@links_1202_p
# Rutema is a test execution and management tool for heterogeneous development environments written in Ruby.

@links_1203_a
# Sava

@links_1204_p
# Open-source web-based content management system.

@links_1205_a
# Scriptella

@links_1206_p
# ETL (Extract-Transform-Load) and script execution tool.

@links_1207_a
# Sesar

@links_1208_p
# Dependency Injection Container with Aspect Oriented Programming.

@links_1209_a
# SemmleCode

@links_1210_p
# Eclipse plugin to help you improve software quality.

@links_1211_a
# SeQuaLite

@links_1212_p
# A free, light-weight, java data access framework.

@links_1213_a
# ShapeLogic

@links_1214_p
# Toolkit for declarative programming, image processing and computer vision.

@links_1215_a
# Shellbook

@links_1216_p
# Desktop publishing application.

@links_1217_a
# Signsoft intelliBO
# Persistence middleware supporting the JDO specification.

# SimpleORM

# Simple Java Object Relational Mapping.

# SymmetricDS

# A web-enabled, database independent, data synchronization/replication software.

# SmartFoxServer

# Platform for developing multiuser applications and games with Macromedia Flash.

# Social Bookmarks Friend Finder

# A GUI application that allows you to find users with similar bookmarks to the user specified (for delicious.com).

# Springfuse

# Code generation For Spring, Spring MVC &amp; Hibernate.

# SQLOrm

# Java Object Relation Mapping.

# StorYBook

# A summary-based tool for novelist and script writers. It helps to keep the overview over the various traces a story has.
# StreamCruncher

@links_1234_p
# Event (stream) processing kernel.

@links_1235_a
# Tune Backup

@links_1236_p
# Easy-to-use backup solution for your iTunes library.

@links_1237_a
# weblica

@links_1238_p
# Desktop CMS.

@links_1239_a
# Web of Web

@links_1240_p
# Collaborative and realtime interactive media platform for the web.

@links_1241_a
# Werkzeugkasten

@links_1242_p
# Minimum Java Toolset.

@links_1243_a
# VPDA

@links_1244_p
# View providers driven applications is a Java based application framework for building applications composed from server components - view providers.

@links_1245_a
# Volunteer database

@links_1246_p
# A database front end to register volunteers, partnership and donation for a Non Profit organization.

@mainWeb_1000_h1
H2

@mainWeb_1001_p
# Welcome to H2, the Java SQL database. The main features of H2 are:
# Very fast, open source, JDBC API

# Embedded and server modes; in-memory databases

# Browser based Console application

# Small footprint: around 1 MB jar file size

## Version 1.2.140 (2010-07-25):

# Windows Installer (4 MB)

# All Platforms (zip, 5 MB)

# All Downloads

# For non-technical issues, use:
Derby

HSQLDB

MySQL

PostgreSQL

Pure Java

#Memory Mode
Multi Version Concurrency

(jar/dll size)

#~1 MB

#~2 MB

#~1 MB

#~4 MB

#~6 MB

See also the <a href="features.html#comparison">detailed comparison</a>.
Get a fast overview.

Go through the samples.
# See what this database can do and how to use these features.

# Performance Comparison

# PolePosition Benchmark

# Application Profiling

# Database Profiling

# Database Performance Tuning

# Using the Built-In Profiler

# Fast Database Import

#Performance Comparison

# In many cases H2 is faster than other (open source and not open source) database engines. Please note this is mostly a single connection benchmark run on one computer.

#Embedded

#Test Case

#Unit

H2

HSQldb
<table>
<thead>
<tr>
<th>Derby</th>
<th>#Simple: Init</th>
<th>#ms</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>#241</td>
</tr>
<tr>
<td></td>
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<td>#431</td>
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<tr>
<td></td>
<td></td>
<td>#1027</td>
</tr>
<tr>
<td></td>
<td>#Simple: Query (random)</td>
<td>#ms</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#193</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#267</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#748</td>
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<tr>
<td></td>
<td>#Simple: Query (sequential)</td>
<td>#ms</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#89</td>
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<td>#658</td>
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@performance_1031_td
#Simple: Update (random)

@performance_1032_td
#ms

@performance_1033_td
#406

@performance_1034_td
#772

@performance_1035_td
#12175

@performance_1036_td
#Simple: Delete (sequential)

@performance_1037_td
#ms

@performance_1038_td
#155

@performance_1039_td
#266

@performance_1040_td
#6281

@performance_1041_td
#Simple: Memory Usage

@performance_1042_td
#MB

@performance_1043_td
#7

@performance_1044_td
#13

@performance_1045_td
#16

@performance_1046_td
#BenchA: Init
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<tr>
<td>BenchA: Transactions ms</td>
<td>1071</td>
</tr>
<tr>
<td>BenchA: Memory Usage MB</td>
<td>8</td>
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<td>BenchB: Init ms</td>
<td>1075</td>
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<td>BenchB: Init ms</td>
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<td>BenchB: Init ms</td>
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<tr>
<td>Performance</td>
<td>Value</td>
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<tr>
<td>------------</td>
<td>--------</td>
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<tr>
<td>BenchB: Transactions</td>
<td>ms</td>
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<td></td>
<td>ms</td>
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<td>13</td>
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<td></td>
<td>ms</td>
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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 49756
<table>
<thead>
<tr>
<th>Execution Time (ms)</th>
<th>Memory Usage (MB)</th>
<th>Executed Statements</th>
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<tbody>
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<td>1382</td>
<td>12</td>
<td>322929</td>
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<tr>
<td>865</td>
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</tr>
<tr>
<td>3527</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td>#Performance</td>
<td>#Total time</td>
<td>#ms</td>
</tr>
<tr>
<td>--------------</td>
<td>------------</td>
<td>-----</td>
</tr>
<tr>
<td>H2</td>
<td>HSQLDB</td>
<td></td>
</tr>
<tr>
<td>Database</td>
<td>Simple: Init</td>
<td>Simple: Query (random)</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Derby</td>
<td>#1715</td>
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<td>#4450</td>
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<td>#3093</td>
<td>#3201</td>
</tr>
<tr>
<td>Operation</td>
<td>Time (ms)</td>
<td></td>
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<tr>
<td>--------------------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>Simple: Query</td>
<td>3313</td>
<td></td>
</tr>
<tr>
<td>Simple: Update</td>
<td>1944</td>
<td></td>
</tr>
<tr>
<td>Simple: Delete</td>
<td>1862</td>
<td></td>
</tr>
</tbody>
</table>

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 49760
@performance_1143_td
#ms

@performance_1144_td
#778

@performance_1145_td
#1118

@performance_1146_td
#7032

@performance_1147_td
#1682

@performance_1148_td
#1882

@performance_1149_td
#Simple: Memory Usage

@performance_1150_td
#MB

@performance_1151_td
#8

@performance_1152_td
#14

@performance_1153_td
#18

@performance_1154_td
#1

@performance_1155_td
#2

@performance_1156_td
#BenchA: Init

@performance_1157_td
#ms

@performance_1158_td
#1264
<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Transactions (ms)</th>
<th>Memory Usage (MB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BenchA</td>
<td>1686</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>2734</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>2867</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>3225</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5998</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6829</td>
<td></td>
</tr>
<tr>
<td></td>
<td>14323</td>
<td></td>
</tr>
<tr>
<td></td>
<td>11491</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10571</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
BenchB: Init

BenchB: Transactions
@performance_1191_td
#BenchB: Memory Usage

@performance_1192_td
#MB

@performance_1193_td
#18

@performance_1194_td
#16

@performance_1195_td
#13

@performance_1196_td
#2

@performance_1197_td
#2

@performance_1198_td
#BenchC: Init

@performance_1199_td
#ms

@performance_1200_td
#1333

@performance_1201_td
#968

@performance_1202_td
#1769

@performance_1203_td
#1693

@performance_1204_td
#2645

@performance_1205_td
#BenchC: Transactions

@performance_1206_td
#ms
<table>
<thead>
<tr>
<th>BenchC: Memory Usage</th>
<th>MB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executed statements</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Total time</td>
<td>Statements per second</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>322929</td>
<td>10058</td>
</tr>
<tr>
<td>322929</td>
<td>9347</td>
</tr>
<tr>
<td>322929</td>
<td>53791</td>
</tr>
<tr>
<td>322929</td>
<td>53216</td>
</tr>
<tr>
<td>34546</td>
<td>10058</td>
</tr>
<tr>
<td>32106</td>
<td>9347</td>
</tr>
<tr>
<td>32106</td>
<td>53791</td>
</tr>
<tr>
<td>32106</td>
<td>53216</td>
</tr>
</tbody>
</table>

---

*Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 49766*
H2

Version 1.2.137 (2010-06-06) was used for the test. For most operations, the performance of H2 is about the same as for HSQLDB. One situation where H2 is slow is large result sets, because they are buffered to disk if more than a certain number of records are returned. The advantage of buffering is: there is no limit on the result set size.

HSQLDB

Version 2.0.0 was used for the test. Cached tables are used in this test (<code>hsqldb.default_table_type=cached</code>), and the write delay is 1 second (<code>SET WRITE_DELAY 1</code>).

Derby

Version 10.6.1.0 was used for the test. Derby is clearly the slowest embedded database in this test. This seems to be a structural problem, because all operations are really slow. It will be hard for the developers of Derby to improve the performance to a reasonable level. A few problems have been identified: leaving autocommit on is a problem for Derby. If it is switched off during the whole test, the results are about 20% better for Derby. Derby calls <code>FileChannel.force(false)</code>, but only twice per log file (not on each commit). Disabling this call improves performance for Derby by about 2%. Unlike H2, Derby does not call <code>FileDescriptor.sync()</code> on each checkpoint. Derby supports a testing mode (system property <code>derby.system.durability=test</code>) where durability is disabled. According to the documentation, this setting should be used for testing only, as the database may not recover after a crash. Enabling this setting improves performance by a factor of 2.6 (embedded mode) or 1.4 (server mode). Even if enabled, Derby is still less than half as fast as H2 in default mode.

PostgreSQL

Version 8.4.4 was used for the test. The following options were changed in <code>postgresql.conf: fsync = off, commit_delay = 1000</code>. PostgreSQL is run in server mode. The memory usage number is incorrect, because only the memory usage of the JDBC driver is measured.

MySQL
# Version 5.1.47-community was used for the test. MySQL was run with the InnoDB backend. The setting
`innodb_flush_log_at_trx_commit` (found in the `my.ini / my.cnf` file) was set to 0. Otherwise (and by default), MySQL is slow (around 140 statements per second in this test) because it tries to flush the data to disk for each commit. For small transactions (when autocommit is on) this is really slow. But many use cases use small or relatively small transactions. Too bad this setting is not listed in the configuration wizard, and it always overwritten when using the wizard. You need to change this setting manually in the file `my.ini / my.cnf`, and then restart the service. The memory usage number is incorrect, because only the memory usage of the JDBC driver is measured.

# Firebird

# Firebird 1.5 (default installation) was tested, but the results are not published currently. It is possible to run the performance test with the Firebird database, and any information on how to configure Firebird for higher performance are welcome.

# Why Oracle / MS SQL Server / DB2 are Not Listed

# The license of these databases does not allow to publish benchmark results. This doesn't mean that they are fast. They are in fact quite slow, and need a lot of memory. But you will need to test this yourself. SQLite was not tested because the JDBC driver doesn't support transactions.

# About this Benchmark

# How to Run

# This test was as follows:

# Separate Process per Database

# For each database, a new process is started, to ensure the previous test does not impact the current test.

# Number of Connections

# This is mostly a single-connection benchmark. BenchB uses multiple connections; the other tests use one connection.
# Real-World Tests

Good benchmarks emulate real-world use cases. This benchmark includes 4 test cases: BenchSimple uses one table and many small updates / deletes. BenchA is similar to the TPC-A test, but single connection / single threaded (see also: www.tpc.org). BenchB is similar to the TPC-B test, using multiple connections (one thread per connection). BenchC is similar to the TPC-C test, but single connection / single threaded.

# Comparing Embedded with Server Databases

This is mainly a benchmark for embedded databases (where the application runs in the same virtual machine as the database engine). However MySQL and PostgreSQL are not Java databases and cannot be embedded into a Java application. For the Java databases, both embedded and server modes are tested.

# Test Platform

This test is run on Mac OS X 10.6. No virus scanner was used, and disk indexing was disabled. The VM used is Sun JDK 1.6.

# Multiple Runs

When a Java benchmark is run first, the code is not fully compiled and therefore runs slower than when running multiple times. A benchmark should always run the same test multiple times and ignore the first run(s). This benchmark runs three times, but only the last run is measured.

# Memory Usage

It is not enough to measure the time taken, the memory usage is important as well. Performance can be improved by using a bigger cache, but the amount of memory is limited. HSQLDB tables are kept fully in memory by default; this benchmark uses 'disk based' tables for all databases. Unfortunately, it is not so easy to calculate the memory usage of PostgreSQL and MySQL, because they run in a different process than the test. This benchmark currently does not print memory usage of those databases.

# Delayed Operations

Some databases delay some operations (for example flushing the buffers) until after the benchmark is run. This
benchmark waits between each database tested, and each database runs in a different process (sequentially).

@performance_1274_h4
#Transaction Commit / Durability

@performance_1275_p
# Durability means transaction committed to the database will not be lost. Some databases (for example MySQL) try to enforce this by default by calling <code>fsync()</code> to flush the buffers, but most hard drives don't actually flush all data. Calling the method slows down transaction commit a lot, but doesn't always make data durable. When comparing the results, it is important to think about the effect. Many database suggest to 'batch' operations when possible. This benchmark switches off autocommit when loading the data, and calls commit after each 1000 inserts. However many applications need 'short' transactions at runtime (a commit after each update). This benchmark commits after each update / delete in the simple benchmark, and after each business transaction in the other benchmarks. For databases that support delayed commits, a delay of one second is used.

@performance_1276_h4
#Using Prepared Statements

@performance_1277_p
# Wherever possible, the test cases use prepared statements.

@performance_1278_h4
#Currently Not Tested: Startup Time

@performance_1279_p
# The startup time of a database engine is important as well for embedded use. This time is not measured currently. Also, not tested is the time used to create a database and open an existing database. Here, one (wrapper) connection is opened at the start, and for each step a new connection is opened and then closed.

@performance_1280_h4
#PolePosition Benchmark

@performance_1281_p
# The PolePosition is an open source benchmark. The algorithms are all quite simple. It was developed / sponsored by db4o. This test was not run for a longer time, so please be aware that the results below are for older database versions (H2 version 1.1, HSQLDB 1.8, Java 1.4).

@performance_1282_th
#Test Case

@performance_1283_th
#Unit

@performance_1284_th
H2

@performance_1285_th
HSQLDB
MySQL
<table>
<thead>
<tr>
<th>Function Call</th>
<th>Argument</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melbourne delete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#ms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#147</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#133</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#176</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sepang write</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#ms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#965</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#1201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#3213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sepang read</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#765</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#948</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#3455</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sepang read_hot</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
@performance_1318_td
#ms

@performance_1319_td
#789

@performance_1320_td
#859

@performance_1321_td
#3563

@performance_1322_td
#Sepang delete

@performance_1323_td
#ms

@performance_1324_td
#1384

@performance_1325_td
#1596

@performance_1326_td
#6214

@performance_1327_td
#Bahrain write

@performance_1328_td
#ms

@performance_1329_td
#1186

@performance_1330_td
#1387

@performance_1331_td
#6904

@performance_1332_td
#Bahrain query_indexed_string

@performance_1333_td
#ms
@performance_1366_td
#3191

@performance_1367_td
#Barcelona read

@performance_1368_td
#ms

@performance_1369_td
#119

@performance_1370_td
#160

@performance_1371_td
#1177

@performance_1372_td
#Barcelona query

@performance_1373_td
#ms

@performance_1374_td
#20

@performance_1375_td
#5169

@performance_1376_td
#101

@performance_1377_td
#Barcelona delete

@performance_1378_td
#ms

@performance_1379_td
#388

@performance_1380_td
#319

@performance_1381_td
#3287
There are a few problems with the PolePosition test:

HSQldb uses in-memory tables by default while H2 uses persistent tables. The HSQLDB version included in PolePosition does not support changing this, so you need to replace `<code>poleposition-0.20/lib/hsqldb.jar</code>` with a newer version (for example `<code>hsqldb-1.8.0.7.jar</code>`), and then use the setting `<code>hsqldb.connecturl=jdbc:hsqldb:file:data/hsqldb/dbbench2;hsqldb.default_table_type=cached;sql.enforce_size=true</code>` in the file `<code>Jdbc.properties</code>`.

HSQldb keeps the database open between tests, while H2 closes the database (losing all the cache). To change that, use the database URL `<code>jdbc:h2:file:data/h2/dbbench;DB_CLOSE_DELAY=-1</code>`

The amount of cache memory is quite important, specially for the PolePosition test. Unfortunately, the PolePosition test does not take this into account.

Before trying to optimize performance, it is important to understand where the problem is (what part of the application is slow). Blind optimization or optimization based on guesses should be avoided, because usually it is not an efficient strategy. There are various ways to analyze an application. Sometimes two implementations can be compared using `<code>System.currentTimeMillis()</code>`. But this does not work for complex applications with many modules, and for memory problems.
A simple way to profile an application is to use the built-in profiling tool of java. Example:

```java
@performance_1395_p
# Unfortunately, it is only possible to profile the application from start to end. Another solution is to create a number of full thread dumps. To do that, first run <code>jps -l</code> to get the process id, and then run <code>jstack &lt;pid&gt;</code> or <code>kill -QUIT &lt;pid&gt;</code> (Linux) or press Ctrl+C (Windows).
```

A simple profiling tool is included in H2. To use it, the application needs to be changed slightly. Example:

```java
@performance_1396_p
# The profiler is built into the H2 Console tool, to analyze databases that open slowly. To use it, run the H2 Console, and then click on 'Test Connection'. Afterwards, click on "Test successful" and you get the most common stack traces, which helps to find out why it took so long to connect. You will only get the stack traces if opening the database took more than a few seconds.
```

### Database Profiling

The <code>ConvertTraceFile</code> tool generates SQL statement statistics at the end of the SQL script file. The format used is similar to the profiling data generated when using <code>java -Xrunhprof</code>. For this to work, the trace level needs to be 2 or higher (<code>TRACE_LEVEL_FILE=2</code>). The easiest way to set the trace level is to append the setting to the database URL, for example:

```sql
<code>jdbc:h2:~/test;TRACE_LEVEL_FILE=2</code> or <code>jdbc:h2:tcp://localhost/~/test;TRACE_LEVEL_FILE=2</code>. As an example, execute the the following script using the H2 Console:
```

After running the test case, convert the <code>.trace.db</code> file using the <code>ConvertTraceFile</code> tool. The trace file is located in the same directory as the database file.

### Database Performance Tuning

#### Keep Connections Open or Use a Connection Pool

If your application opens and closes connections a lot (for example, for each request), you should consider using a connection pool. Opening a connection using <code>DriverManager.getConnection</code> is specially slow if the database is closed. By default the database is closed if the last connection is closed.
If you open and close connections a lot but don't want to use a connection pool, consider keeping a 'sentinel' connection open for as long as the application runs, or use delayed database closing. See also [Closing a database](features.html#closing_a_database).

---

Use a Modern JVM

Newer JVMs are faster. Upgrading to the latest version of your JVM can provide a "free" boost to performance. Switching from the default Client JVM to the Server JVM using the `server` command-line option improves performance at the cost of a slight increase in start-up time.

---

Virus Scanners

Some virus scanners scan files every time they are accessed. It is very important for performance that database files are not scanned for viruses. The database engine never interprets the data stored in the files as programs, that means even if somebody would store a virus in a database file, this would be harmless (when the virus does not run, it cannot spread). Some virus scanners allow to exclude files by suffix. Ensure files ending with `.db` are not scanned.

---

If the performance hot spots are in the database engine, in many cases the performance can be optimized by creating additional indexes, or changing the schema. Sometimes the application does not directly generate the SQL statements, for example if an O/R mapping tool is used. To view the SQL statements and JDBC API calls, you can use the trace options. For more information, see [Using the Trace Options](features.html#trace_options).

---

Index Usage

This database uses indexes to improve the performance of `SELECT`, `UPDATE`, `DELETE`. If a column is used in the `WHERE` clause of a query, and if an index exists on this column, then the index can be used. Multi-column indexes are used if all or the first columns of the index are used. Both equality lookup and range scans are supported. Indexes are used to order result sets, but only if the condition uses the same index or no index at all. The results are sorted in memory if required. Indexes are created automatically for primary key and unique constraints. Indexes are also created for foreign key constraints, if required. For other columns, indexes need to be created manually using the `CREATE INDEX` statement.

---

How Data is Stored Internally
# For persistent databases, if a table is created with a single column primary key of type `<code>BIGINT, INT, SMALLINT, TINYINT</code>`, then the data of the table is organized in this way. This is sometimes also called a "clustered index" or "index organized table".

H2 internally stores table data and indexes in the form of b-trees. Each b-tree stores entries as a list of unique keys (one or more columns) and data (zero or more columns). The table data is always organized in the form of a "data b-tree" with a single column key of type `<code>long</code>`. If a single column primary key of type `<code>BIGINT, INT, SMALLINT, TINYINT</code>` is specified when creating the table, then this column is used as the key of the data b-tree. If no primary key has been specified, if the primary key column is of another data type, or if the primary key contains more than one column, then a hidden auto-increment column of type `<code>BIGINT</code>` is added to the table, which is used as the key for the data b-tree. All other columns of the table are stored within the data area of this data b-tree (except for large `<code>BLOB, CLOB</code>` columns, which are stored externally).

For each additional index, one new "index b-tree" is created. The key of this b-tree consists of the indexed columns, plus the key of the data b-tree. If a primary key is created after the table has been created, or if the primary key contains multiple column, or if the primary key is not of the data types listed above, then the primary key is stored in a new index b-tree.

This database uses a cost based optimizer. For simple and queries and queries with medium complexity (less than 7 tables in the join), the expected cost (running time) of all possible plans is calculated, and the plan with the lowest cost is used. For more complex queries, the algorithm first tries all possible combinations for the first few tables, and the remaining tables added using a greedy algorithm (this works well for most joins). Afterwards a genetic algorithm is used to test at most 2000 distinct plans. Only left-deep plans are evaluated.

After the statement is parsed, all expressions are simplified automatically if possible. Operations are evaluated only once if all parameters are constant. Functions are also optimized, but only if the function is constant (always returns the same result for the same parameter values). If the `<code>WHERE</code>` clause is always false, then the table is not accessed at all.

If the query only counts all rows of a table, then the data is not accessed. However, this is only possible if no `<code>WHERE</code>` clause is used, that means it only works for queries of the form `<code>SELECT COUNT(*) FROM table</code>`.
# Updating Optimizer Statistics / Column Selectivity

When executing a query, at most one index per joined table can be used. If the same table is joined multiple times, for each join only one index is used. Example: for the query `<code>SELECT * FROM TEST T1, TEST T2 WHERE T1.NAME='A' AND T2.ID=T1.ID</code>`, two index can be used, in this case the index on NAME for T1 and the index on ID for T2.

If a table has multiple indexes, sometimes more than one index could be used. Example: if there is a table `<code>TEST(ID, NAME, FIRSTNAME)</code>` and an index on each column, then two indexes could be used for the query `<code>SELECT * FROM TEST WHERE NAME='A' AND FIRSTNAME='B'</code>`, the index on NAME or the index on FIRSTNAME. It is not possible to use both indexes at the same time. Which index is used depends on the selectivity of the column. The selectivity describes the 'uniqueness' of values in a column. A selectivity of 100 means each value appears only once, and a selectivity of 1 means the same value appears in many or most rows. For the query above, the index on NAME should be used if the table contains more distinct names than first names.

The SQL statement `<code>ANALYZE</code>` can be used to automatically estimate the selectivity of the columns in the tables. This command should be run from time to time to improve the query plans generated by the optimizer.

# In-Memory (Hash) Indexes

Using in-memory indexes, specially in-memory hash indexes, can speed up queries and data manipulation.

In-memory indexes are automatically used for in-memory databases, but can also be created for persistent databases using `<code>CREATE MEMORY TABLE</code>`. In many cases, the rows itself will also be kept in-memory. Please note this may cause memory problems for large tables.

In-memory hash indexes are backed by a hash table and are usually faster than regular indexes. However, hash indexes only supports direct lookup (`<code>WHERE ID = ?</code>`) but not range scan (`<code>WHERE ID &lt; ?</code>`). To use hash indexes, use HASH as in: `<code>CREATE UNIQUE HASH INDEX</code>` and `<code>CREATE TABLE ... (ID INT PRIMARY KEY HASH,...)</code>`.

# Use Prepared Statements

If possible, use prepared statements with parameters.
# Prepared Statements and IN(...) 

@performance_1435_p
# Avoid generating SQL statements with a variable size IN(...) list. Instead, use a prepared statement with arrays as in the following example:

@performance_1436_h3
# Optimization Examples

@performance_1437_p
# See `<code>src/test/org/h2/samples/optimizations.sql</code>` for a few examples of queries that benefit from special optimizations built into the database.

@performance_1438_h3
# Cache Size and Type

@performance_1439_p
# By default the cache size of H2 is quite small. Consider using a larger cache size, or enable the second level soft reference cache. See also `<a href="features.html#cache_settings">Cache Settings</a>`.

@performance_1440_h3

@performance_1441_p
# Each data type has different storage and performance characteristics:

@performance_1442_li
# The `<code>DECIMAL/NUMERIC</code>` type is slower and requires more storage than the `<code>REAL</code>` and `<code>DOUBLE</code>` types.

@performance_1443_li
# Text types are slower to read, write, and compare than numeric types and generally require more storage.

@performance_1444_li
# See `<a href="advanced.html#large_objects">Large Objects</a>` for information on `<code>BINARY</code>` vs. `<code>BLOB</code>` and `<code>VARCHAR</code>` vs. `<code>CLOB</code>` performance.

@performance_1445_li
# Parsing and formatting takes longer for the `<code>TIME</code>`, `<code>DATE</code>`, and `<code>TIMESTAMP</code>` types than the numeric types.

@performance_1446_code
# `SMALLINT/TINYINT/BOOLEAN`

@performance_1447_li
# are not significantly smaller or faster to work with than `<code>INTEGER</code>` in most modes.

@performance_1448_h3
#Sorted Insert Optimization

@performance_1449_p
# To reduce disk space usage and speed up table creation, an optimization for sorted inserts is available. When used, b-tree pages are split at the insertion point. To use this optimization, add `<code>SORTED</code>` before the `<code>SELECT</code>` statement:

@performance_1450_h2
#Using the Built-In Profiler

@performance_1451_p
# A very simple Java profiler is built-in. To use it, use the following template:

@performance_1452_h2
#Fast Database Import

@performance_1453_p
# To speed up large imports, consider using the following options temporarily:

@performance_1454_code
#SET LOG 0

@performance_1455_li
# (disabling the transaction log)

@performance_1456_code
#SET CACHE_SIZE

@performance_1457_li
# (a large cache is faster)

@performance_1458_code
#SET LOCK_MODE 0

@performance_1459_li
# (disable locking)

@performance_1460_code
#SET UNDO_LOG 0

@performance_1461_li
# (disable the session undo log)

@performance_1462_p
# These options can be set in the database URL:
`<code>jdbc:h2:~/test;LOG=0;CACHE_SIZE=65536;LOCK_MODE=0;UNDO_LOG=0</code>`.

Most of those options are not recommended for regular use, that means you need to reset them after use.
# Embedding H2 in an Application

# The H2 Console Application

H2

# This database can be used in embedded mode, or in server mode. To use it in embedded mode, you need to:

- Add the `<code>h2*.jar</code>` to the classpath (H2 does not have any dependencies)
- Use the JDBC driver class: `<code>org.h2.Driver</code>`
- The database URL `<code>jdbc:h2:~/test</code>` opens the database `<code>test</code>` in your user home directory
- A new database is automatically created

# The Console lets you access a SQL database using a browser interface.

# If you don't have Windows XP, or if something does not work as expected, please see the detailed description in the `<a href="tutorial.html">Tutorial</a>`.

# Install the software using the Windows Installer (if you did not yet do that).
# Click [Start], [All Programs], [H2], and [H2 Console (Command Line)]:

# A new console window appears:

# Also, a new browser page should open with the URL http://localhost:8082. You may get a security warning from the firewall. If you don't want other computers in the network to access the database on your machine, you can let the firewall block these connections. Only local connections are required at this time.

# Select [Generic H2] and click [Connect]:

# You are now logged in.

# Click on the [Sample SQL Script]:

# The SQL commands appear in the command area.

# Click [Run]

# On the left side, a new entry TEST is added below the database icon. The operations and results of the statements are shown below the script.

# Click on [Disconnect]:

# to close the connection.

# Close the console window. For more information, see the Tutorial.

# New (feature) requests will usually be added at the very end of the list. The priority is increased for important and popular requests. Of course, patches are always welcome, but are not always applied as is. See also Providing Patches.

# Version 1.3.x: Planned Changes

* Enable h2.lobInDatabase (store CLOB and BLOB in the database file).

* Set h2.analyzeAuto to 2000 (automatic ANALYZE).

* Enable h2.functionsInSchema (allow to store functions in a schema).

* Enable h2.selectForUpdateMvcc (MVCC and SELECT FOR UPDATE).

* Enable h2.largeTransactions (support for very large transactions). Change documentation for MAX_MEMORY_UNDO in help.csv, because now changes to tables without a primary key can be buffered to disk. Later, change MAX_MEMORY_UNDO to reflect number of bytes instead of record (also remove Constants.UNDO_BLOCK_SIZE). Later, change undo log file format (fillAligned no longer required; var int).

* Enable h2.nestedJoins (nested joins and right outer joins).

* Enable h2.optimizeOr (convert OR conditions to IN(...) if possible).

* Disable h2.databaseToUpper (database short names are converted to uppercase).
#Enable h2.dropRestrict (default action for DROP is RESTRICT). Change documentation.

@roadmap_1012_h2
#Priority 1

@roadmap_1013_li
#Bugfixes

@roadmap_1014_li
#More tests with MULTI_THREADED=1

@roadmap_1015_li
#Server side cursors

@roadmap_1016_h2
#Priority 2

@roadmap_1017_li
#Improve test code coverage.

@roadmap_1018_li
#Test multi-threaded in-memory db access.

@roadmap_1019_li
#Access rights: remember the owner of an object. Create, alter and drop privileges. COMMENT: allow owner of object to change it. Issue 208.

@roadmap_1020_li
#Full outer joins.

@roadmap_1021_li
#Clustering: support mixed clustering mode (one embedded, others in server mode).

@roadmap_1022_li
#Clustering: reads should be randomly distributed (optional) or to a designated database on RAM (parameter: READ_FROM=3).

@roadmap_1023_li
#PostgreSQL catalog: use BEFORE SELECT triggers instead of views over metadata tables.

@roadmap_1024_li
#Compatibility: automatically load functions from a script depending on the mode - see FunctionsMySQL.java, issue 211.

@roadmap_1025_li
#Test very large databases and LOBs (up to 256 GB).

@roadmap_1026_li
#Support hints for the optimizer (which index to use, enforce the join order).

@roadmap_1027_li
#Sequence: add features [NO] MINVALUE, MAXVALUE, CYCLE.

@roadmap_1028_li
#Deferred integrity checking (DEFERRABLE INITIALLY DEFERRED).

@roadmap_1029_li
#Groovy Stored Procedures: http://groovy.codehaus.org/Groovy+SQL

@roadmap_1030_li
#Add a migration guide (list differences between databases).

@roadmap_1031_li
#Migrate database tool (also from other database engines). For Oracle, maybe use DBMS_METADATA.GET_DDL
/ GET_DEPENDENT_DDL.

@roadmap_1032_li
#Optimization: automatic index creation suggestion using the trace file?

@roadmap_1033_li
#Compression performance: don't allocate buffers, compress / expand in to out buffer.

@roadmap_1034_li
#Rebuild index functionality to shrink index size and improve performance.

@roadmap_1035_li
#Don't use deleteOnExit (bug 4513817: File.deleteOnExit consumes memory).

@roadmap_1036_li
#Console: add accesskey to most important commands (A, AREA, BUTTON, INPUT, LABEL, LEGEND, TEXTAREA).

@roadmap_1037_li
#Test performance again with SQL Server, Oracle, DB2.

@roadmap_1038_li
#Test with Spatial DB in a box / JTS: http://www.opengeospatial.org/standards/sfs - OpenGIS Implementation
Specification.

@roadmap_1039_li
#Write more tests and documentation for MVCC (Multi Version Concurrency Control).

@roadmap_1040_li
#Find a tool to view large text file (larger than 100 MB), with find, page up and down (like less), truncate before /
after.
@roadmap_1041_li
Implement, test, document XACo3ection and so on.

@roadmap_1042_li
Pluggable data type (for streaming, hashing, compression, validation, conversion, encryption).

@roadmap_1043_li
CHECK: find out what makes CHECK=TRUE slow, move to CHECK2.

@roadmap_1044_li
Drop with invalidate views (so that source code is not lost). Check what other databases do exactly.

@roadmap_1045_li
Index usage for (ID, NAME)=(1, 'Hi'); document.

@roadmap_1046_li
Make DDL (Data Definition) operations transactional.

@roadmap_1047_li
RANK() and DENSE_RANK(), Partition using OVER().

@roadmap_1048_li
Set a connection read only (Connection.setReadOnly) or using a connection parameter.

@roadmap_1049_li
Optimizer: use an index for IS NULL and IS NOT NULL (including linked tables). ID IS NOT NULL could be
corverted to ID &gt;= Integer.MIN_VALUE.

@roadmap_1050_li
Access rights: finer grained access control (grant access for specific functions).

@roadmap_1051_li
Version check: docs / web console (using Javascript), and maybe in the library (using TCP/IP).

@roadmap_1052_li
Web server classloader: override findResource / getResourceFrom.

@roadmap_1053_li
Cost for embedded temporary view is calculated wrong, if result is constant.

@roadmap_1054_li
Comparison: pluggable sort order: natural sort.

@roadmap_1055_li
Count index range query (count(*) where id between 10 and 20).

@roadmap_1056_li
Performance: update in-place.
Recursive Queries (see details).

Eclipse plugin.

Asynchronous queries to support publish/subscribe: SELECT ... FOR READ WAIT [maxMillisToWait]. See also MS SQL Server “Query Notification”.

#Fulltext search Lucene: analyzer configuration.

#Fulltext search (native): reader / tokenizer / filter.

#Linked schema using CSV files: one schema for a directory of files; support indexes for CSV files.

#iReport to support H2.

#Implement missing JDBC API (CallableStatement,...).

#Compression of the cache.

#Include SMPT (mail) client (alert on cluster failure, low disk space,...).

#JSON parser and functions.

#Server: client ping from time to time (to avoid timeout - is timeout a problem?).

#Copy database: tool with config GUI and batch mode, extensible (example: compare).

#Document, implement tool for long running transactions using user-defined compensation statements.

#Support SET TABLE DUAL READONLY.
#GCJ: what is the state now?

@roadmap_1073_1
#Events for: database Startup, Connections, Login attempts, Disconnections, Prepare (after parsing), Web Server. See http://docs.openlinksw.com/virtuoso/fn_dbev_startup.html

@roadmap_1074_1
#Optimization: log compression.

@roadmap_1075_1
#ROW_NUMBER() OVER([ORDER BY columnName]).

@roadmap_1076_1

@roadmap_1077_1
#Compatibility: in MySQL, HSQLDB, /0.0 is NULL; in PostgreSQL, Derby: division by zero.

@roadmap_1078_1
#Functional tables should accept parameters from other tables (see FunctionMultiReturn) SELECT * FROM TEST T, P2C(T.A, T.R).

@roadmap_1079_1
#Custom class loader to reload functions on demand.

@roadmap_1080_1
#Clustering: when a database is back alive, automatically synchronize with the master.

@roadmap_1081_1
#Test http://mysql-je.sourceforge.net/

@roadmap_1082_1
#Performance: automatically build in-memory indexes if the whole table is in memory.

@roadmap_1083_1
#H2 Console: the webclient could support more features like phpMyAdmin.

@roadmap_1084_1
#Use Janino to convert Java to C++.

@roadmap_1085_1
#The HELP information schema can be directly exposed in the Console.

@roadmap_1086_1
#Maybe use the 0x1234 notation for binary fields, see MS SQL Server.
@roadmap_1087_li
#Support Oracle CONNECT BY in some way: http://www.adp-gmbh.ch/ora/sql/connect_by.html
http://philip.greenspun.com/sql/trees.html

@roadmap_1088_li

@roadmap_1089_li

@roadmap_1090_li
#Version column (number/sequence and timestamp based).

@roadmap_1091_li
#Optimize getGeneratedKey: send last identity after each execute (server).

@roadmap_1092_li
#Test and document UPDATE TEST SET (ID, NAME) = (SELECT ID*10, NAME || '!' FROM TEST T WHERE T.ID=TEST.ID).

@roadmap_1093_li
#Max memory rows / max undo log size: use block count / row size not row count.

@roadmap_1094_li
#Support 123L syntax as in Java; example: SELECT (2000000000*2).

@roadmap_1095_li
#Implement point-in-time recovery.

@roadmap_1096_li
#LIKE: improved version for larger texts (currently using naive search).

@roadmap_1097_li
#Automatically convert to the next 'higher' data type whenever there is an overflow.

@roadmap_1098_li
#Throw an exception when the application calls getInt on a Long (optional).

@roadmap_1099_li
#Default date format for input and output (local date constants).

@roadmap_1100_li
#Support custom Collators.

@roadmap_1101_li
#Document ROWNUM usage for reports: SELECT ROWNUM, * FROM (subquery).
@roadmap_1102_li
# File system that writes to two file systems (replication, replicating file system).

@roadmap_1103_li
# Standalone tool to get relevant system properties and add it to the trace output.

@roadmap_1104_li
# Support `call proc(1=value)` (PostgreSQL, Oracle).

@roadmap_1105_li
# Console: improve editing data (Tab, Shift-Tab, Enter, Up, Down, Shift+Del?).

@roadmap_1106_li
# Console: autocomplete Ctrl+Space inserts template.

@roadmap_1107_li
# Option to encrypt .trace.db file.

@roadmap_1108_li
# Write Behind Cache on SATA leads to data corruption See also
http://sr5tech.com/write_back_cache_experiments.htm and
http://www.jasonbrome.com/blog/archives/2004/04/03/writecache_enabled.html

@roadmap_1109_li
# Functions with unknown return or parameter data types: serialize / deserialize.

@roadmap_1110_li
# Auto-Update feature for database, .jar file.

@roadmap_1111_li
# ResultSet SimpleResultSet.readFromURL(String url): id varchar, state varchar, released timestamp.

@roadmap_1112_li
# Partial indexing (see PostgreSQL).

@roadmap_1113_li
# Add GUI to build a custom version (embedded, fulltext,...) using build flags.

@roadmap_1114_li
# http://rubyforge.org/projects/hypersonic/

@roadmap_1115_li
# Add a sample application that runs the H2 unit test and writes the result to a file (so it can be included in the user app).

@roadmap_1116_li
# Count on a column that can not be null could be optimized to COUNT(*).
#Table order: ALTER TABLE TEST ORDER BY NAME DESC (MySQL compatibility).

#Issue 159: System property for the H2 Console and TCP configuration (which .h2.server.properties and .h2.keystore to use).

#Backup tool should work with other databases as well.

#Console: -ifExists doesn't work for the console. Add a flag to disable other dbs.

#Check if 'FSUTIL behavior set disablelastaccess 1' improves the performance (fsutil behavior query disablelastaccess).

#Java static code analysis: http://pmd.sourceforge.net/

#Java static code analysis: http://www.eclipse.org/tptp/

#Compatibility for CREATE SCHEMA AUTHORIZATION.

#Implement Clob / Blob truncate and the remaining functionality.

#Tree join functionality.

#Add multiple columns at the same time with ALTER TABLE .. ADD .. ADD ...

#Use JDK 1.4 file locking for the database file and for the lock file (but not yet by default); writing a system property to detect concurrent access from the same VM (different classloaders).

#Pure SQL triggers (example: update parent table if the child table is changed).

#Add H2 to Gem (Ruby install system).

#Order conditions inside AND / OR to optimize the performance.
@roadmap_1132_li
#Support Oracle functions: TRUNC, NVL2, TO_CHAR, TO_DATE, TO_NUMBER.

@roadmap_1133_li
#Support linked JCR tables

@roadmap_1134_li
#Read InputStream when executing, as late as possible (maybe only embedded mode). Problem with re-execute.

@roadmap_1135_li
#Native fulltext search: min word length; store word positions

@roadmap_1136_li
#Add an option to the SCRIPT command to generate only portable / standard SQL

@roadmap_1137_li
#Updatable Views (simple cases first)

@roadmap_1138_li
#Improve create index performance

@roadmap_1139_li
#Implement more JDBC 4.0 features

@roadmap_1140_li
#Support TRANSFORM / PIVOT as in MS Access

@roadmap_1141_li
#SELECT * FROM (VALUES (...), (...), ....) AS alias(f1, ...)

@roadmap_1142_li
#Support updatable views with join on primary keys (to extend a table)

@roadmap_1143_li
#Public interface for functions (not public static)

@roadmap_1144_li
#Support reading the transaction log.

@roadmap_1145_li
#Eliminate undo log records if stored on disk (just one pointer per block, not per record)

@roadmap_1146_li

@roadmap_1147_li
#Updatable result set on table without primary key or unique index.
@roadmap_1148_li
# Use LinkedList instead of ArrayList where applicable.

@roadmap_1149_li
# Allow execution time prepare for SELECT * FROM CSVREAD(?, 'columnNameString')

@roadmap_1150_li
# Support data type INTERVAL.

@roadmap_1151_li
# Support % operator (modulo).

@roadmap_1152_li
# Support JMX: create an MBean for each database and server (support JConsole). See
http://java.sun.com/j2se/1.5.0/docs/api/java/lang/management/ManagementFactory.html#getPlatformMBeanServer( )
http://java.sun.com/j2se/1.5.0/docs/guide/management/agent.html

@roadmap_1153_li
# Support nested transactions.

@roadmap_1154_li
# Add a benchmark for big databases, and one for many users.

@roadmap_1155_li
# Compression in the result set (repeating values in the same column) over TCP/IP.

@roadmap_1156_li
# Support curtimestamp (like curtime, curdate).

@roadmap_1157_li
# Support ANALYZE [TABLE][INDEX] tableName COMPUTE|ESTIMATE|DELETE STATISTICS ptnOption options.

@roadmap_1158_li
# Release locks (shared or exclusive) on demand

@roadmap_1159_li
# Support OUTER UNION

@roadmap_1160_li
# Support parameterized views (similar to CSVREAD, but using just SQL for the definition)

@roadmap_1161_li
# A way (JDBC driver) to map an URL (jdbc:h2map:cl) to a connection object

@roadmap_1162_li
#Option for SCRIPT to only process one or a set of tables, and append to a file

@roadmap_1163_li

#Support linked tables to the current database

@roadmap_1164_li

#Support dynamic linked schema (automatically adding/updating/removing tables)

@roadmap_1165_li

#Clustering: adding a node should be very fast and without interrupting clients (very short lock)

@roadmap_1166_li

#Compatibility with Derby: VALUES(1), (2); SELECT * FROM (VALUES (1), (2)) AS myTable(c1)

@roadmap_1167_li

#Compatibility: # is the start of a single line comment (MySQL) but date quote (Access). Mode specific

@roadmap_1168_li

#Run benchmarks with JDK 1.5, JDK 1.6, java -server

@roadmap_1169_li

#Optimizations: faster hash function for strings, byte arrays

@roadmap_1170_li

#DatabaseEventListener: callback for all operations (including expected time, RUNSCRIPT) and cancel functionality

@roadmap_1171_li

#Benchmark: add a graph to show how databases scale (performance/database size)

@roadmap_1172_li

#Implement a SQLData interface to map your data over to a custom object

@roadmap_1173_li

#In the MySQL and PostgreSQL mode, use lower case identifiers by default (DatabaseMetaData.storesLowerCaseIdentifiers = true)

@roadmap_1174_li

#Support multiple directories (on different hard drives) for the same database

@roadmap_1175_li

#Server protocol: use challenge response authentication, but client sends hash(user+password) encrypted with response

@roadmap_1176_li

#Support EXECUTE (doesn't return a result set, compatible to MS SQL Server)

@roadmap_1177_li
#Support native XML data type

@roadmap_1178_li
#Support triggers with a string property or option: SpringTrigger, OSGITrigger

@roadmap_1179_li
#Ability to resize the cache array when resizing the cache

@roadmap_1180_li
#Time based cache writing (one second after writing the log)

@roadmap_1181_li
#Check state of H2 driver for DDLUtils: https://issues.apache.org/jira/browse/DDLUTILS-185

@roadmap_1182_li
#Index usage for REGEXP LIKE.

@roadmap_1183_li
#Compatibility: add a role DBA (like ADMIN).

@roadmap_1184_li
#Better support multiple processors for in-memory databases.

@roadmap_1185_li
#Support N'text'

@roadmap_1186_li
#Support compatibility for jdbc:hsqldb:res:

@roadmap_1187_li
#Provide an Java SQL builder with standard and H2 syntax

@roadmap_1188_li
#Trace: write OS, file system, JVM,... when opening the database

@roadmap_1189_li
#Support indexes for views (probably requires materialized views)

@roadmap_1190_li
#Document SET SEARCH_PATH, BEGIN, EXECUTE, parameters

@roadmap_1191_li
#Browser: use Desktop.isDesktopSupported and browse when using JDK 1.6

@roadmap_1192_li
#Server: use one listener (detect if the request comes from an PG or TCP client)

@roadmap_1193_li
#Optimize SELECT MIN(ID), MAX(ID), COUNT(*) FROM TEST WHERE ID BETWEEN 100 AND 200

@roadmap_1194_li
#Sequence: PostgreSQL compatibility (rename, create) http://www.postgresql.org/docs/8.2/static/sql-altersequence.html

@roadmap_1195_li
#DISTINCT: support large result sets by sorting on all columns (additionally) and then removing duplicates.

@roadmap_1196_li
#Support a special trigger on all tables to allow building a transaction log reader.

@roadmap_1197_li
#File system with a background writer thread; test if this is faster

@roadmap_1198_li
#Better document the source code

@roadmap_1199_li
#Support select * from dual a left join dual b on b.x=(select max(x) from dual)

@roadmap_1200_li
#Optimization: don't lock when the database is read-only

@roadmap_1201_li
#Issue 146: Support merge join.

@roadmap_1202_li
#Integrate spatial functions from http://geosysin.iict.ch/irstv-trac/wiki/H2spatial/Download

@roadmap_1203_li
#Cluster: hot deploy (adding a node at runtime)

@roadmap_1204_li
#Compact databases without having to close the database (vacuum).

@roadmap_1205_li
#Support COSH, SINH, and TANH functions

@roadmap_1206_li
#Oracle: support DECODE method (convert to CASE WHEN).

@roadmap_1207_li
#Native search: support "phrase search", wildcard search (* and ?), case-insensitive search, boolean operators, and grouping

@roadmap_1208_li
#Improve documentation of access rights
@roadmap_1209_li
#Support ENUM data type (see MySQL, PostgreSQL, MS SQL Server, maybe others)

@roadmap_1210_li
#Remember the user defined data type (domain) of a column

@roadmap_1211_li
#Support Jackcess (MS Access databases)

@roadmap_1212_li
#Built-in methods to write large objects (BLOB and CLOB): FILE_WRITE('test.txt', 'Hello World')

@roadmap_1213_li
#Improve time to open large databases (see mail 'init time for distributed setup')

@roadmap_1214_li
#Move Maven 2 repository from hsql.sf.net to h2database.sf.net

@roadmap_1215_li
#Java 1.5 tool: JdbcUtils.closeSilently(s1, s2,...)

@roadmap_1216_li
#Javadoc: document design patterns used

@roadmap_1217_li
#Write an article about SQLInjection (h2/src/docsr/html/images/SQLInjection.txt)

@roadmap_1218_li
#Convert SQL-injection-2.txt to html document, include SQLInjection.java sample

@roadmap_1219_li
#Support OUT parameters in user-defined procedures.

@roadmap_1220_li
#Web site design: http://www.igniterealtime.org/projects/openfire/index.jsp

@roadmap_1221_li
#HSQLDB compatibility: Openfire server uses: CREATE SCHEMA PUBLIC AUTHORIZATION DBA; CREATE USER SA PASSWORD ''; GRANT DBA TO SA; SET SCHEMA PUBLIC

@roadmap_1222_li
#Translation: use ?? in help.csv

@roadmap_1223_li
#Translated .pdf

@roadmap_1224_li
#MySQL compatibility: update test1 t1, test2 t2 set t1.id = t2.id where t1.id = t2.id;

@roadmap_1225_li
#Recovery tool: bad blocks should be converted to INSERT INTO SYSTEM_ERRORS(...), and things should go into the .trace.db file

@roadmap_1226_li
#RECOVER=2 to backup the database, run recovery, open the database

@roadmap_1227_li
#Recovery should work with encrypted databases

@roadmap_1228_li
#Corruption: new error code, add help

@roadmap_1229_li
#Space reuse: after init, scan all storages and free those that don't belong to a live database object

@roadmap_1230_li
#Use FilterIn / FilterOut putStream?

@roadmap_1231_li
#Access rights: add missing features (users should be 'owner' of objects; missing rights for sequences; dropping objects)

@roadmap_1232_li
#Support NOCACHE table option (Oracle).

@roadmap_1233_li
#Support table partitioning.

@roadmap_1234_li
#Index usage for UPDATE ... WHERE .. IN (SELECT...)

@roadmap_1235_li
#Add regular javadocs (using the default doclet, but another css) to the homepage.

@roadmap_1236_li
#The database should be kept open for a longer time when using the server mode.

@roadmap_1237_li
#Javadocs: for each tool, add a copy & paste sample in the class level.

@roadmap_1238_li
#Javadocs: add @author tags.

@roadmap_1239_li
#Fluent API for tools: Server.createTcpServer().setPort(9081).setPassword(password).start();
#MySQL compatibility: real SQL statement for DESCRIBE TEST

#Use a default delay of 1 second before closing a database.

#Write (log) to system table before adding to internal data structures.

#Support very large deletes and updates.

#Doclet (javadocs): constructors are not listed.

#Support direct lookup for MIN and MAX when using WHERE (see todo.txt / Direct Lookup).

#Support other array types (String[], double[]) in PreparedStatement setObject(int, Object);

#MVCC should not be memory bound (uncommitted data is kept in memory in the delta index; maybe using a regular b-tree index solves the problem).

#Oracle compatibility: support NLS_DATE_FORMAT.

#Cluster: add feature to make sure cluster nodes can not get out of sync (for example by stopping one process).

#H2 Console: support CLOB/BLOB download using a link.

#Support flashback queries as in Oracle.

#Import / Export of fixed with text files.

#Support getGeneratedKeys to return multiple rows when used with batch updates. This is supported by MySQL, but not Derby. Both PostgreSQL and HSQLDB don't support getGeneratedKeys. Also support it when using INSERT ... SELECT.

#HSQLDB compatibility: automatic data type for SUM if value is the value is too big (by default use the same type
as the data).

@roadmap_1255_li
#Improve the optimizer to select the right index for special cases: where id between 2 and 4 and booleanColumn

@roadmap_1256_li
#Linked tables: make hidden columns available (Oracle: rowid and ora_rowscn columns).

@roadmap_1257_li
#H2 Console: in-place autocomplete.

@roadmap_1258_li
#Support large databases: split database files to multiple directories / disks (similar to tablespaces).

@roadmap_1259_li
#Support to assign a primary key index a user defined name.

@roadmap_1260_li
#H2 Console: support configuration option for fixed width (monospace) font.

@roadmap_1261_li
#Native fulltext search: support analyzers (specially for Chinese, Japanese).

@roadmap_1262_li
#Automatically compact databases from time to time (as a background process).

@roadmap_1263_li
#Support GRANT SELECT, UPDATE ON *.

@roadmap_1264_li
#Test Eclipse DTP.

@roadmap_1265_li
#H2 Console: autocomplete: keep the previous setting

@roadmap_1266_li
#MySQL, MS SQL Server compatibility: support case sensitive (mixed case) identifiers without quotes.

@roadmap_1267_li
#executeBatch: option to stop at the first failed statement.

@roadmap_1268_li
#Implement OLAP features as described here: http://www.devx.com/getHelpOn/10MinuteSolution/16573/0/page/5

@roadmap_1269_li
#Support Oracle ROWID (unique identifier for each row).

@roadmap_1270_li
# Server mode: improve performance for batch updates.

@roadmap_1271

# Applets: support read-only databases in a zip file (accessed as a resource).

@roadmap_1272

# Long running queries / errors / trace system table.

@roadmap_1273

# H2 Console should support JaQu directly.

@roadmap_1274

# H2 Console: support single file upload and directory download (optional).

@roadmap_1275

# Document FTL_SEARCH, FTL_SEARCH_DATA.

@roadmap_1276

# Sequences: CURRVAL should be session specific. Compatibility with PostgreSQL.

@roadmap_1277

# Support DatabaseMetaData.insertsAreDetected: updatable result sets should detect inserts.

@roadmap_1278

# Auto-server: add option to define the IP address range or list.

@roadmap_1279

# Index creation using deterministic functions.

@roadmap_1280

# Support DELETE with TOP or LIMIT. See also: http://dev.mysql.com/doc/refman/5.1/de/delete.html

@roadmap_1281

# ANALYZE: for unique indexes that allow null, count the number of null.

@roadmap_1282

# AUTO_SERVER: support changing IP addresses (disable a network while the database is open).

@roadmap_1283

# Avoid using java.util.Calendar internally because it's slow, complicated, and buggy.

@roadmap_1284

# Support TRUNCATE .. CASCADE like PostgreSQL.

@roadmap_1285

# Support opening a database that is in the classpath, maybe using a new file system.

@roadmap_1286
# Fulltext search: lazy result generation using SimpleRowSource.

@roadmap_1287_li
# Support transformation to join for user defined functions, as for IN(SELECT...).

@roadmap_1288_li
# Fulltext search: support alternative syntax: WHERE FTL_CONTAINS(name, 'hello').

@roadmap_1289_li
# MySQL compatibility: support REPLACE, see http://dev.mysql.com/doc/refman/5.1/de/replace.html

@roadmap_1290_li
# MySQL compatibility: support INSERT INTO table SET column1 = value1, column2 = value2

@roadmap_1291_li
# Docs: add a one line description for each functions and SQL statements at the top (in the link section).

@roadmap_1292_li
# Javadoc search: weight for titles should be higher ('random' should list Functions as the best match).

@roadmap_1293_li
# Replace information_schema tables with regular tables that are automatically re-built when needed. Use indexes.

@roadmap_1294_li
# Delete temporary files or objects using finalize.

@roadmap_1295_li
# Oracle compatibility: support calling 0-parameters functions without parenthesis. Make constants obsolete.

@roadmap_1296_li
# MySQL, HSQLDB compatibility: support where 'a'=1 (not supported by Derby, PostgreSQL)

@roadmap_1297_li
# Allow calling function with no parameters without parenthesis. See http://code.google.com/p/h2database/issues/detail?id=50

@roadmap_1298_li
# CSV: currently # is a line comment and can start at any field. Make it optional.

@roadmap_1299_li
# Finer granularity for SLF4J trace - See http://code.google.com/p/h2database/issues/detail?id=62

@roadmap_1300_li
# Add database creation date and time to the database.

@roadmap_1301_li
# Support ASSERTION.
@roadmap_1302_li
#MVCC: support multi-threaded kernel with multi-version concurrency.

@roadmap_1303_li
#MySQL compatibility: support comparing 1='a'

@roadmap_1304_li

@roadmap_1305_li
#PostgreSQL compatibility: test DbVisualizer and Squirrel SQL using a new PostgreSQL JDBC driver.

@roadmap_1306_li
#RunScript should be able to read from system in (or quite mode for Shell).

@roadmap_1307_li
#Natural join: support select x from dual natural join dual.

@roadmap_1308_li
#Natural join: somehow support this: select a.x, b.x, x from dual a natural join dual b

@roadmap_1309_li
#Use the Java service provider mechanism to register file systems and function libraries.

@roadmap_1310_li
#MySQL compatibility: for auto_increment columns, convert 0 to next value (as when inserting NULL).

@roadmap_1311_li
#Optimization for multi-column IN: use an index if possible. Example: (A, B) IN((1, 2), (2, 3)).

@roadmap_1312_li
#Optimization for EXISTS: convert to inner join or IN(..) if possible.

@roadmap_1313_li
#Functions: support hashcode(value); cryptographic and fast

@roadmap_1314_li
#Serialized file lock: support long running queries.

@roadmap_1315_li
#Network: use 127.0.0.1 if other addresses don't work.

@roadmap_1316_li
#Pluggable network protocol (currently Socket/ServerSocket over TCP/IP) - see also TransportServer with master slave replication.

@roadmap_1317_li
#Select for update in mvcc mode: only lock the selected records.
@roadmap_1318_li
#Support reading JCR data: one table per node type; query table; cache option

@roadmap_1319_li
#OSGi: create a sample application, test, document.

@roadmap_1320_li
#help.csv: use complete examples for functions; run as test case.

@roadmap_1321_li
#Functions to calculate the memory and disk space usage of a table, a row, or a value.

@roadmap_1322_li
#Re-implement PooledConnection; use a lightweight connection object.

@roadmap_1323_li
#Doclet: convert tests in javadocs to a java class.

@roadmap_1324_li
#Doclet: format fields like methods, but support sorting by name and value.

@roadmap_1325_li
#Doclet: shrink the html files.

@roadmap_1326_li
#MySQL compatibility: support REPLACE - See http://code.google.com/p/h2database/issues/detail?id=73

@roadmap_1327_li
#MySQL compatibility: support SET NAMES 'latin1' - See also http://code.google.com/p/h2database/issues/detail?id=56

@roadmap_1328_li
#MySQL compatibility: DELETE .. FROM .. USING - See http://dev.mysql.com/doc/refman/5.0/en/delete.html

@roadmap_1329_li
#Allow to scan index backwards starting with a value (to better support ORDER BY DESC).

@roadmap_1330_li
#Java Service Wrapper: try http://yajsw.sourceforge.net/

@roadmap_1331_li
#Batch parameter for INSERT, UPDATE, and DELETE, and commit after each batch. See also MySQL DELETE.

@roadmap_1332_li
#MySQL compatibility: support ALTER TABLE .. MODIFY COLUMN.

@roadmap_1333_li
#Use a lazy and auto-close input stream (open resource when reading, close on eof).

@roadmap_1334_li
#PostgreSQL compatibility: generate_series.

@roadmap_1335_li
#Connection pool: 'reset session' command (delete temp tables, rollback, autocommit true).

@roadmap_1336_li
#Improve SQL documentation, see http://www.w3schools.com/sql/

@roadmap_1337_li
#MySQL compatibility: DatabaseMetaData.stores*() methods should return the same values. Test with SquirrelSQL.

@roadmap_1338_li
#MS SQL Server compatibility: support DATEPART syntax.

@roadmap_1339_li
#Sybase/DB2/Oracle compatibility: support out parameters in stored procedures - See http://code.google.com/p/h2database/issues/detail?id=83

@roadmap_1340_li
#Support INTERVAL data type (see Oracle and others).

@roadmap_1341_li
#Combine Server and Console tool (only keep Server).

@roadmap_1342_li
#Store the Lucene index in the database itself.

@roadmap_1343_li
#Support standard MERGE statement: http://en.wikipedia.org/wiki/Merge_%28SQL%29

@roadmap_1344_li
#Oracle compatibility: support DECODE(x, ...).

@roadmap_1345_li
#Console: Start Browser: if ip number changed, try localhost instead.

@roadmap_1346_li
#MVCC: compare concurrent update behavior with PostgreSQL and Oracle.

@roadmap_1347_li
#HSQLDB compatibility: CREATE FUNCTION (maybe using a Function interface).

@roadmap_1348_li
#HSQLDB compatibility: support CALL "java.lang.Math.sqrt"(2.0)
#Support comma as the decimal separator in the CSV tool.

#Compatibility: Support jdbc:default:connection using ThreadLocal (part of SQLJ)

#Compatibility: Java functions with SQLJ Part1 http://www.acm.org/sigmod/record/issues/9912/standards.pdf.gz

#Compatibility: Java functions with SQL/PSM (Persistent Stored Modules) - need to find the documentation.

#CACHE_SIZE: automatically use a fraction of Runtime.maxMemory - maybe automatically the second level cache.

#Support date/time/timestamp as documented in http://en.wikipedia.org/wiki/ISO_8601

#PostgreSQL compatibility: when in PG mode, treat BYTEA data like PG.


#Support =ANY(array) as in PostgreSQL. See also http://www.postgresql.org/docs/8.0/interactive/arrays.html

#IBM DB2 compatibility: support PREVIOUS VALUE FOR sequence.

#MySQL compatibility: alter table add index i(c), add constraint c foreign key(c) references t(c);

#Compatibility: use different LIKE ESCAPE characters depending on the mode (disable for Derby, HSQLDB, DB2, Oracle, MSQLServer).

#Oracle compatibility: support CREATE SYNONYM table FOR schema.table.

#Optimize A=? OR B=? to UNION if the cost is lower.

#FTP: document the server, including -ftpTask option to execute / kill remote processes
FTP: problems with multithreading?

FTP: implement SFTP / FTPS

FTP: access to a database (.csv for a table, a directory for a schema, a file for a lob, a script.sql file).

More secure default configuration if remote access is enabled.

Improve database file locking (maybe use native file locking). The current approach seems to be problematic if the file system is on a remote share (see Google Group 'Lock file modification time is in the future').

Document internal features such as BELONGS_TO_TABLE, NULL_TO_DEFAULT, SEQUENCE.

Issue 107: Prefer using the ORDER BY index if LIMIT is used.

An index on (id, name) should be used for a query: select * from t where s=? order by i

Support reading sequences using DatabaseMetaData.getTables(null, null, null, new String[]{"SEQUENCE"}). See PostgreSQL.

Add option to enable TCP_NODELAY using Socket.setTcpNoDelay(true).

Maybe disallow = within database names (jdbc:h2:mem:MODE=DB2 means database name MODE=DB2).

Fast alter table add column.

Improve concurrency for in-memory database operations.

Issue 122: Support for connection aliases for remote tcp connections.

Fast scrambling (strong encryption doesn't help if the password is included in the application).
#Support using system properties in database URLs (may be a security problem).

@roadmap_1380_li
#Issue 126: The index name should be "IDX_" plus the constraint name unless there is a conflict, in which case append a number.

@roadmap_1381_li
#Issue 127: Support activation/deactivation of triggers

@roadmap_1382_li
#Issue 130: Custom log event listeners

@roadmap_1383_li
#Issue 131: IBM DB2 compatibility: sysibm.sysdummy1

@roadmap_1384_li
#Issue 132: Use Java enum trigger type.

@roadmap_1385_li
#Issue 134: IBM DB2 compatibility: session global variables.

@roadmap_1386_li
#Cluster: support load balance with values for each server / auto detect.

@roadmap_1387_li
#FTL_SET_OPTION(keyString, valueString) with key stopWords at first.

@roadmap_1388_li
#Pluggable access control mechanism.

@roadmap_1389_li
#Fulltext search (Lucene): support streaming CLOB data.

@roadmap_1390_li
#Document/example how to create and read an encrypted script file.

@roadmap_1391_li
#Check state of https://issues.apache.org/jira/browse/OPENJPA-1367 (H2 does support cross joins).

@roadmap_1392_li
#Fulltext search (Lucene): only prefix column names with _ if they already start with _. Instead of DATA / QUERY / modified use _DATA, _QUERY, _MODIFIED if possible.

@roadmap_1393_li
#Support a way to create or read compressed encrypted script files using an API.

@roadmap_1394_li
#Scripting language support (Javascript).
# The network client should better detect if the server is not an H2 server and fail early.

# H2 Console: support CLOB/BLOB upload.

# Move away from system properties where possible.

# Database file lock: detect hibernate / standby / very slow threads (compare system time).

# Automatic detection of redundant indexes.

# Maybe reject join without "on" (except natural join).

# Implement GiST (Generalized Search Tree for Secondary Storage).

# Function to read a number of bytes/characters from an BLOB or CLOB.

# Issue 156: Support SELECT ? UNION SELECT ?.

# Automatic mixed mode: support a port range list (to avoid firewall problems).

# Support the pseudo column rowid, oid, _rowid_.

# H2 Console / large result sets: stream early instead of keeping a whole result in-memory

# Support TRUNCATE for linked tables.

# UNION: evaluate INTERSECT before UNION (like most other database except Oracle).

# Delay creating the information schema, and share metadata columns.

# TCP Server: use a nonce (number used once) to protect unencrypted channels against replay attacks.
@roadmap_1411_li
#Simplify running scripts and recovery: CREATE FORCE USER (overwrites an existing user).

@roadmap_1412_li
#Support CREATE DATABASE LINK (a custom JDBC driver is already supported).

@roadmap_1413_li
#Issue 163: Allow to create foreign keys on metadata types.

@roadmap_1414_li
#Logback: write a native DBAppender.

@roadmap_1415_li
#Cache size: don't use more cache than what is available.

@roadmap_1416_li
#Tree index: Instead of an AVL tree, use a general balanced trees or a scapegoat tree.

@roadmap_1417_li
#User defined functions: allow to store the bytecode (of just the class, or the jar file of the extension) in the database.

@roadmap_1418_li
#Compatibility: ResultSet.getObject() on a CLOB (TEXT) should return String for PostgreSQL and MySQL.

@roadmap_1419_li
#Optimizer: WHERE X=? AND Y IN(?), it always uses the index on Y. Should be cost based.

@roadmap_1420_li
#Make the cache scan resistant (currently a small cache is faster than a large cache for large table scans).

@roadmap_1421_li
#Issue 178: Optimizer: index usage when both ascending and descending indexes are available.

@roadmap_1422_li
#Issue 179: Related subqueries in HAVING clause

@roadmap_1423_li
#IBM DB2 compatibility: NOT NULL WITH DEFAULT. Similar to MySQL Mode.convertInsertNullToZero.

@roadmap_1424_li
#Creating primary key: always create a constraint.

@roadmap_1425_li
#Support a data type "timestamp with timezone" using java.util.Calendar.

@roadmap_1426_li
# Maybe use a different page layout: keep the data at the head of the page, and ignore the tail (don't store / read it). This may increase write / read performance depending on the file system.

@roadmap_1427_li
# Indexes of temporary tables are currently kept in-memory. Is this how it should be?

@roadmap_1428_li
# The Shell tool should support the same built-in commands as the H2 Console.

@roadmap_1429_li
# Maybe use PhantomReference instead of finalize.

@roadmap_1430_li
# Database file name suffix: a way to use no or a different suffix (for example using a slash).

@roadmap_1431_li
# Database file name suffix: should only have one dot by default. Example: .h2db

@roadmap_1432_li
# Issue 196: Function based indexes

@roadmap_1433_li
# Fix the disk space leak (killing the process at the exact right moment will increase the disk space usage; this space is not re-used). See TestDiskSpaceLeak.java

@roadmap_1434_li
# ROWNUM: Oracle compatibility when used within a subquery. Issue 198.

@roadmap_1435_li
# Allow to access the database over HTTP (possibly using port 80) and a servlet in a REST way.

@roadmap_1436_li
# ODBC: encrypted databases are not supported because the ;CIPHER= can not be set.

@roadmap_1437_li
# Support CLOB and BLOB update, specially conn.createBlob().setBinaryStream(1);

@roadmap_1438_li
# Optimizer: index usage when both ascending and descending indexes are available. Issue 178.

@roadmap_1439_li
# Triggers: support user defined execution order. Oracle: CREATE OR REPLACE TRIGGER TEST_2 BEFORE INSERT ON TEST FOR EACH ROW FOLLOWS TEST_1. SQL specifies that multiple triggers should be fired in time-of-creation order. PostgreSQL uses name order, which was judged to be more convenient. Derby: triggers are fired in the order in which they were created.

@roadmap_1440_li
# PostgreSQL compatibility: combine "users" and "roles". See: http://www.postgresql.org/docs/8.1/interactive/user-
@roadmap_1441_li
#Improve documentation of system properties: only list the property names, default values, and description.

@roadmap_1442_li
#Support running totals / cumulative sum using SUM(..) OVER(..).

@roadmap_1443_li
#Improve object memory size calculation. Use constants for known VMs, or use reflection to call java.lang.instrument.Instrumentation.getObjectSize(Object objectToSize)

@roadmap_1444_li
#Triggers: NOT NULL checks should be done after running triggers (Oracle behavior, maybe others).

@roadmap_1445_li
#Log long running transactions (similar to long running statements).

@roadmap_1446_li
#Support schema specific domains.

@roadmap_1447_li
#Parameter data type is data type of other operand. Issue 205.

@roadmap_1448_li
#Some combinations of nested join with right outer join are not supported.

@roadmap_1449_li
#DatabaseEventListener.openConnection(id) and closeConnection(id).

@roadmap_1450_li
#Compatibility for data type CHAR (Derby, HSQLDB). Issue 212.

@roadmap_1451_li
#Compatibility with MySQL TIMESTAMPDIFF. Issue 209.

@roadmap_1452_li
#Optimizer: use a histogram of the data, specially for non-normal distributions.

@roadmap_1453_li
#Trigger: allow declaring as source code (like functions).

@roadmap_1454_li
#User defined aggregate: allow declaring as source code (like functions).

@roadmap_1455_li
#The error "table not found" is sometimes caused by using the wrong database. Add "(this database is empty)" to the exception message if applicable.
@roadmap_1456_li
#PostgreSQL compatibility: support escape with double \\.

@roadmap_1457_li
#Document the TCP server "management_db". Maybe include the IP address of the client.

@roadmap_1458_li
#Use javax.tools.JavaCompilerTool instead of com.sun.tools.javac.Main

@roadmap_1459_h2
#Not Planned

@roadmap_1460_li
#HSQLDB (did) support this: select id i from test where i&lt;0 (other databases don't). Supporting it may break compatibility.

@roadmap_1461_li
#String.intern (so that Strings can be compared with ==) will not be used because some VMs have problems when used extensively.

@roadmap_1462_li
#In prepared statements, identifier names (table names and so on) can not be parameterized. Adding such a feature would complicate the source code without providing reasonable speedup, and would slow down regular prepared statements.

@sourceError_1000_h1
#Error Analyzer

@sourceError_1001_a

@sourceError_1002_a

@sourceError_1003_h2
#&nbsp; &lt;a href="javascript:select('details')" id = "detailsTab">Details&lt;/a&gt;&nbsp; &lt;a href="javascript:select('source')" id = "sourceTab">Source Code&lt;/a&gt;

@sourceError_1004_p
#Paste the error message and stack trace below and click on 'Details' or 'Source Code':

@sourceError_1005_b
#Error Code:

@sourceError_1006_b
#Product Version:
# Using Apache ActiveMQ

# Using H2 within NetBeans

# Using Databases in Web Applications

# CSV (Comma Separated Values) Support

# Upgrade, Backup, and Restore

# Command Line Tools

# The Shell Tool

# Using OpenOffice Base

# Java Web Start / JNLP

# Using a Connection Pool

# Fulltext Search

# User-Defined Variables

# Date and Time

# Using Spring

H2

# The H2 Console application lets you access a SQL database using a browser interface. This can be a H2 database, or another database that supports the JDBC API.
# This is a client / server application, so both a server and a client (a browser) are required to run it.

# Depending on your platform and environment, there are multiple ways to start the application:

OS

Windows

# Click [Start], [All Programs], [H2], and [H2 Console (Command Line)]

# When using the Sun JDK 1.5, a window with the title 'H2 Console' should appear. When using the Sun JDK 1.6, an icon will be added to the system tray:

# If you don't get the window and the system tray icon, then maybe Java is not installed correctly (in this case, try another way to start the application). A browser window should open and point to the Login page at


Windows

# Open a file browser, navigate to <code>h2/bin</code>, and double click on <code>h2.bat</code>.

# A console window appears. If there is a problem, you will see an error message in this window. A browser window will open and point to the Login page (URL: <code>http://localhost:8082</code>).

Any

# Double click on the <code>h2*.jar</code> file. This only works if the <code>.jar</code> suffix is associated with java.
# Open a console window, navigate to the directory `<code>h2/bin</code>` and type:

```
```

# If you start the server, you may get a security warning from the firewall (if you have installed one). If you don't want other computers in the network to access the application on your machine, you can let the firewall block those connections. The connection from the local machine will still work. Only if you want other computers to access the database on this computer, you need allow remote connections in the firewall.

# It has been reported that when using Kaspersky 7.0 with firewall, the H2 Console is very slow when connecting over the IP address. A workaround is to connect using localhost, however this only works on the local machine.

# A small firewall is already built into the server: other computers may not connect to the server by default. To change this, go to 'Preferences' and select 'Allow connections from other computers'.

Java

# To find out which version of Java is installed, open a command prompt and type:

```
```

# If you get an error message, you may need to add the Java binary directory to the path environment variable.

# Error Message 'Port may be in use'

# You can only start one instance of the H2 Console, otherwise you will get the following error message: "The Web server could not be started. Possible cause: another server is already running...". It is possible to start multiple console applications on the same computer (using different ports), but this is usually not required as the console supports multiple concurrent connections.

# If the port is in use by another application, you may want to start the H2 Console on a different port. This can be done by changing the port in the file `<code>.h2.server.properties</code>`. This file is stored in the user directory (for Windows, this is usually in `<code>Documents and Settings/&lt;username&gt;</code>`). The relevant entry is `webPort`. 
If the server started successfully, you can connect to it using a web browser. JavaScript needs to be enabled. If you started the server on the same computer as the browser, open the URL `<code>http://localhost:8082</code>`. If you want to connect to the application from another computer, you need to provide the IP address of the server, for example: `<code>http://192.168.0.2:8082</code>`. If you enabled SSL on the server side, the URL needs to start with `<code>https://</code>`.

Multiple concurrent browser sessions are supported. As that the database objects reside on the server, the amount of concurrent work is limited by the memory available to the server application.

At the login page, you need to provide connection information to connect to a database. Set the JDBC driver class of your database, the JDBC URL, user name and password. If you are done, click [Connect].

You can save and reuse previously saved settings. The settings are stored in a properties file (see `Settings of the H2 Console`).

Error messages in are shown in red. You can show/hide the stack trace of the exception by clicking on the message.

Additional database drivers to connect to other databases (MySQL, PostgreSQL, HSQLDB,...) can be registered by adding the Jar file location of the driver to the environment variables `<code>H2DRIVERS</code>` or `<code>CLASSPATH</code>`. Example (Windows): to add the database driver library `<code>C:\Programs\hsqldb\lib\hsqldb.jar</code>`, set the environment variable `<code>H2DRIVERS</code>` to `<code>C:\Programs\hsqldb\lib\hsqldb.jar</code>`.

Multiple drivers can be set; each entry needs to be separated with a `<code>;</code>` (Windows) or `<code>:</code>` (other operating systems). Spaces in the path names are supported. The settings must not be quoted.
# Using the H2 Console

The H2 Console application has three main panels: the toolbar on top, the tree on the left, and the query / result panel on the right. The database objects (for example, tables) are listed on the left panel. Type in a SQL command on the query panel and click 'Run'. The result of the command appears just below the command.

# The table name and column names can be inserted in the script by clicking them in the tree. If you click on a table while the query is empty, then `<code>SELECT * FROM ...</code>` is added as well. While typing a query, the table that was used is automatically expanded in the tree. For example if you type `<code>SELECT * FROM TEST T WHERE T.</code>` then the table TEST is automatically expanded in the tree.

To log out of the database, click 'Disconnect' in the toolbar panel. However, the server is still running and ready to accept new sessions.

# Special H2 Console Syntax

The H2 Console supports a few built-in commands. Those are interpreted within the H2 Console, that means they work with any database. They need to be at the beginning of a statement (before any remarks), otherwise they are not parsed correctly. If in doubt, add ';' before the command.
# @autocommit_false;

@tutorial_1077_td
# Enable or disable autocommit.

@tutorial_1078_td
# @cancel;

@tutorial_1079_td
# Cancel the currently running statement.

@tutorial_1080_td
# @columns null null TEST;

@tutorial_1081_td
# @index_info&nbsp;null&nbsp;null&nbsp;null&nbsp;TEST;

@tutorial_1082_td
# @tables;

@tutorial_1083_td
# @tables null null TEST;

@tutorial_1084_td
# Call the corresponding DatabaseMetaData.get method. Patterns are case sensitive (usually identifiers are
upper case). For information about the parameters, see the Javadoc documentation. Missing parameters at the end are
set to null. The complete list of commands is: <code>@attributes @best_row_identifier @catalogs @columns
@column_privileges @cross_references @exported_keys @imported_keys @index_info @primary_keys
@procedures @procedure_columns @schemas @super_tables @super_types @tables @table_privileges
@table_types @type_info @udts @version_columns</code>

@tutorial_1085_td
# @edit select * from test;

@tutorial_1086_td
# Use an updatable result set.

@tutorial_1087_td
# @generated&nbsp;insert&nbsp;into&nbsp;test()&nbsp;values();

@tutorial_1088_td
# Show the result of <code>Statement.getGeneratedKeys()</code>.

@tutorial_1089_td
# @history;

@tutorial_1090_td
# Show the command history.
@tutorial_1091_td  
# @info;

@tutorial_1092_td  
# Display the result of various <code>Connection</code> and <code>DatabaseMetaData</code> methods.

@tutorial_1093_td  
# @list select * from test;

@tutorial_1094_td  
# Show the result set in list format (each column on its own line, with row numbers).

@tutorial_1095_td  
# @loop 1000 select ?, ?/*rnd*/;

@tutorial_1096_td  
# @loop 1000 @statement select ?;

@tutorial_1097_td  
# Run the statement this many times. Parameters (<code>?</code>) are set using a loop from 0 up to x - 1. Random values are used for each <code>?</code>. A Statement object is used instead of a PreparedStatement if <code>@statement</code> is used. Result sets are read until <code>ResultSet.next()</code> returns <code>false</code>. Timing information is printed.

@tutorial_1098_td  
# @maxrows&nbsp;20;

@tutorial_1099_td  
# Set the maximum number of rows to display.

@tutorial_1100_td  
# @memory;

@tutorial_1101_td  
# Show the used and free memory. This will call <code>System.gc()</code>.

@tutorial_1102_td  
# @meta&nbsp;select&nbsp;1;

@tutorial_1103_td  
# List the <code>ResultSetMetaData</code> after running the query.

@tutorial_1104_td  
# @parameter_meta&nbsp;select&nbsp;?;

@tutorial_1105_td  
# Show the result of the <code>PreparedStatement.getParameterMetaData()</code> calls. The statement is not
executed.

@tutorial_1106_td
# @prof_start;

@tutorial_1107_td
# call\nbsp;hash('SHA256',\nbsp;',\nbsp;1000000);

@tutorial_1108_td
# @prof_stop;

@tutorial_1109_td
# Start / stop the built-in profiling tool. The top 3 stack traces of the statement(s) between start and stop are listed (if there are 3).

@tutorial_1110_td
# @prof_stop;

@tutorial_1111_td
# @sleep 10;

@tutorial_1112_td
# @prof_stop;

@tutorial_1113_td
# Sleep for a number of seconds. Used to profile a long running query or operation that is running in another session (but in the same process).

@tutorial_1114_td
# @transaction_isolation;

@tutorial_1115_td
# @transaction_isolation\nbsp;2;

@tutorial_1116_td
# Display (without parameters) or change (with parameters 1, 2, 4, 8) the transaction isolation level.

@tutorial_1117_h2
#Settings of the H2 Console

@tutorial_1118_p
# The settings of the H2 Console are stored in a configuration file called <code>.h2.server.properties</code> in your user home directory. For Windows installations, the user home directory is usually <code>C:\Documents and Settings\[username]\</code>. The configuration file contains the settings of the application and is automatically created when the H2 Console is first started.

@tutorial_1119_h2
JDBC
To connect to a database, a Java application first needs to load the database driver, and then get a connection. A simple way to do that is using the following code:

This code first loads the driver (Class.forName(...)) and then opens a connection (using DriverManager.getConnection()). The driver name is "org.h2.Driver". The database URL always needs to start with jdbc:h2: to be recognized by this database. The second parameter in the getConnection() call is the user name (sa for System Administrator in this example). The third parameter is the password. In this database, user names are not case sensitive, but passwords are.

By default, if the database specified in the URL does not yet exist, a new (empty) database is created automatically. The user that created the database automatically becomes the administrator of this database.

Auto-creating new database can be disabled, see Opening a Database Only if it Already Exists.

H2 currently supports three server: a web server (for the H2 Console), a TCP server (for client/server connections) and an PG server (for PostgreSQL clients). Please note that only the web server supports browser connections. The servers can be started in different ways, one is using the Server tool.

Starting the Server Tool from Command Line

To start the Server tool from the command line with the default settings, run:

This will start the tool with the default options. To get the list of options and default values, run:

There are options available to use other ports, and start or not start parts.
# To remotely connect to a database using the TCP server, use the following driver and database URL:

@tutorial_1133_li
JDBC driver class: <code>org.h2.Driver</code>

@tutorial_1134_li
Database URL: <code>jdbc:h2:tcp://localhost/~/test</code>

@tutorial_1135_p
For details about the database URL, see also in Features. Please note that you can't connect with a web browser to this URL. You can only connect using a H2 client (over JDBC).

@tutorial_1136_h3
Starting the TCP Server within an Application

@tutorial_1137_p
Servers can also be started and stopped from within an application. Sample code:

@tutorial_1138_h3
TCP

@tutorial_1139_p
The TCP server can be stopped from another process. To stop the server from the command line, run:

@tutorial_1140_p
To stop the server from a user application, use the following code:

@tutorial_1141_p
This function will only stop the TCP server. If other server were started in the same process, they will continue to run. To avoid recovery when the databases are opened the next time, all connections to the databases should be closed before calling this method. To stop a remote server, remote connections must be enabled on the server. Shutting down a TCP server can be protected using the option <code>-tcpPassword</code> (the same password must be used to start and stop the TCP server).

@tutorial_1142_h2
Hibernate

@tutorial_1143_p
This database supports Hibernate version 3.1 and newer. You can use the HSQLDB Dialect, or the native H2 Dialect. Unfortunately the H2 Dialect included in some versions of Hibernate is buggy. A [patch for Hibernate](http://opensource.atlassian.com/projects/hibernate/browse/HHH-3401) has been submitted and is now applied. The dialect for the newest version of Hibernate is also available at <code>src/tools/org/hibernate/dialect/H2Dialect.java.txt</code>. You can rename it to <code>H2Dialect.java</code> and include this as a patch in your application, or upgrade to a version of Hibernate where this is fixed.

@tutorial_1144_p
When using compatibility modes such as <code>MODE=MySQL</code> when using Hibernate is not supported
when using <code>H2Dialect</code>.

@tutorial_1145_h2
#Using TopLink and Glassfish

@tutorial_1146_p
# To use H2 with Glassfish (or Sun AS), set the Datasource Classname to
<code>org.h2.jdbcx.JdbcDataSource</code>. You can set this in the GUI at Application Server - Resources - JDBC
- Connection Pools, or by editing the file <code>sun-resources.xml</code>: at element <code>jdbc-connection-
pool</code>, set the attribute <code>datasource-classname</code> to <code>org.h2.jdbcx.JdbcDataSource</code>.

@tutorial_1147_p
# The H2 database is compatible with HSQLDB and PostgreSQL. To take advantage of H2 specific features, use the
<code>H2Platform</code>. The source code of this platform is included in H2 at
<code>src/tools/oracle/toplink/essentials/platform/database/DatabasePlatform.java.txt</code>. You will need to
copy this file to your application, and rename it to .java. To enable it, change the following setting in
persistence.xml:

@tutorial_1148_p
# In old versions of Glassfish, the property name is <code>toplink.platform.class.name</code>.

@tutorial_1149_p
# To use H2 within Glassfish, copy the h2*.jar to the directory <code>glassfish/glassfish/lib</code>.

@tutorial_1150_h2
#Using EclipseLink

@tutorial_1151_p
# To use H2 in EclipseLink, use the platform class
<code>org.eclipse.persistence.platform.database.H2Platform</code>. If this platform is not available in your

@tutorial_1152_h2
#Using Apache ActiveMQ

@tutorial_1153_p
# When using H2 as the backend database for Apache ActiveMQ, please use the
<code>TransactDatabaseLocker</code> instead of the default locking mechanism. Otherwise the database file will
grow without bounds. The problem is that the default locking mechanism uses an uncommitted
<code>UPDATE</code> transaction, which keeps the transaction log from shrinking (causes the database file to
grow). Instead of using an <code>UPDATE</code> statement, the <code>TransactDatabaseLocker</code> uses
<code>SELECT ... FOR UPDATE</code> which is not problematic. To use it, change the ApacheMQ
configuration element <code>&lt;jdbcPersistenceAdapter&gt;&lt;/jdbcPersistenceAdapter&gt;</code> element, property
<code>databaseLocker="org.apache.activemq.store.jdbc.adapter.TransactDatabaseLocker"</code>. However, using
the MVCC mode will again result in the same problem. Therefore, please do not use the MVCC mode in this case.
Another (more dangerous) solution is to set <code>useDatabaseLock</code> to false.
# Using H2 within NetBeans

The project [H2 Database Engine Support For NetBeans](http://netbeans.org/community/project/h2) allows you to start and stop the H2 server from within the IDE.

### Web

There are multiple ways to access a database from within web applications. Here are some examples if you use Tomcat or JBoss.

### Servlet

Add the h2*.jar file to your web application, and add the following snippet to your web.xml file (between the `<code>context-param</code>` and the `<code>filter</code>` section):

For details on how to access the database, see the file `<code>DbStarter.java</code>`. By default this tool opens an embedded connection using the database URL `<code>jdbc:h2:~/test</code>`, user name `<code>sa</code>`, and password `<code>sa</code>`. If you want to use this connection within your servlet, you can access as follows:
@tutorial_1165_code
#DbStarter

@tutorial_1166_p
# can also start the TCP server, however this is disabled by default. To enable it, use the parameter
<code>db.tcpServer</code> in the file <code>web.xml</code>. Here is the complete list of options. These options
need to be placed between the <code>description</code> tag and the <code>listener</code> / <code>filter</code> tags:

@tutorial_1167_p
# When the web application is stopped, the database connection will be closed automatically. If the TCP server is
started within the <code>DbStarter</code>, it will also be stopped automatically.

@tutorial_1168_h3
#Using the H2 Console Servlet

@tutorial_1169_p
# The H2 Console is a standalone application and includes its own web server, but it can be used as a servlet as well.
To do that, include the the <code>h2*.jar</code> file in your application, and add the following configuration to
your <code>web.xml</code>:

@tutorial_1170_p
# For details, see also <code>src/tools WEB-INF/web.xml</code>.

@tutorial_1171_p
# To create a web application with just the H2 Console, run the following command:

@tutorial_1172_h2
CSV (Comma Separated Values)

@tutorial_1173_p
# The CSV file support can be used inside the database using the functions <code>CSVREAD</code> and
<code>CSVWRITE</code>, or it can be used outside the database as a standalone tool.

@tutorial_1174_h3
CSV

@tutorial_1175_p
# A CSV file can be read using the function <code>CSVREAD</code>. Example:

@tutorial_1176_h3
#Importing Data from a CSV File

@tutorial_1177_p
# A fast way to load or import data (sometimes called 'bulk load') from a CSV file is to combine table creation with
import. Optionally, the column names and data types can be set when creating the table. Another option is to use
<code>INSERT INTO ... SELECT</code>.
CSV

# The built-in function `<code>CSVWRITE</code>` can be used to create a CSV file from a query. Example:

JavaCSV

# The `<code>Csv</code>` tool can be used in a Java application even when not using a database at all. Example:

JavaCSV

# It is possible to read a CSV file without opening a database. Example:

# The recommended way to upgrade from one version of the database engine to the next version is to create a backup of the database (in the form of a SQL script) using the old engine, and then execute the SQL script using the new engine.

# There are different ways to backup a database. For example, it is possible to copy the database files. However, this is not recommended while the database is in use. Also, the database files are not human readable and quite large. The recommended way to backup a database is to create a compressed SQL script file. This can be done using the `<code>Script</code>` tool:

# It is also possible to use the SQL command `<code>SCRIPT</code>` to create the backup of the database. For more information about the options, see the SQL command `<code>SCRIPT</code>`. The backup can be done remotely, however the file will be created on the server side. The built in FTP server could be used to retrieve the file from the server.
To restore a database from a SQL script file, you can use the `RunScript` tool:

For more information about the options, see the SQL command `RUNSCRIPT`. The restore can be done remotely, however the file needs to be on the server side. The built in FTP server could be used to copy the file to the server. It is also possible to use the SQL command `RUNSCRIPT` to execute a SQL script. SQL script files may contain references to other script files, in the form of `RUNSCRIPT` commands. However, when using the server mode, the references script files need to be available on the server side.

The `Backup` SQL statement and the `Backup` tool both create a zip file with all database files. However, the contents of this file are not human readable.

Unlike than the SCRIPT statement, the `BACKUP` statement does not lock the database objects when using the multi-threaded mode, and therefore does not block other users. The resulting backup is transactionally consistent:

The `Backup` tool (`org.h2.tools.Backup`) can not be used to create an online backup; the database must not be in use while running this program.

Creating a backup by copying the database files while the database is running is not supported, except if the file systems support creating snapshots. The problem is that it can't be guaranteed that the data is copied in the right order.

This database comes with a number of command line tools. To get more information about a tool, start it with the parameter `-?`, for example:

The command line tools are:

- `Backup`
  - creates a backup of a database.
# allows changing the file encryption password or algorithm of a database.

# starts the browser based H2 Console.

# converts a .trace.db file to a Java application and SQL script.

# creates a cluster from a standalone database.

# deletes all files belonging to a database.

# helps recovering a corrupted database.

# restores a backup of a database.

# runs a SQL script against a database.
# allows converting a database to a SQL script for backup or migration.

Server

# is used in the server mode to start a H2 server.

#Shell

# is a command line database tool.

# The tools can also be called from an application by calling the main or another public method. For details, see the Javadoc documentation.

#The Shell Tool

# The Shell tool is a simple interactive command line tool. To start it, type:

# You will be asked for a database URL, JDBC driver, user name, and password. The connection setting can also be set as command line parameters. After connecting, you will get the list of options. The built-in commands don't need to end with a semicolon, but SQL statements are only executed if the line ends with a semicolon <code>;</code>. This allows to enter multi-line statements:

# By default, results are printed as a table. For results with many column, consider using the list mode:

OpenOffice Base

# OpenOffice.org Base supports database access over the JDBC API. To connect to a H2 database using OpenOffice Base, you first need to add the JDBC driver to OpenOffice. The steps to connect to a H2 database are:

#Start OpenOffice Writer, go to [Tools], [Options]

#Make sure you have selected a Java runtime environment in OpenOffice.org / Java
@tutorial_1234_li
#Click [Class Path...], [Add Archive...]

@tutorial_1235_li
#Select your h2 jar file (location is up to you, could be wherever you choose)

@tutorial_1236_li
#Click [OK] (as much as needed), stop OpenOffice (including the Quickstarter)

@tutorial_1237_li
#Start OpenOffice Base

@tutorial_1238_li
#Connect to an existing database; select [JDBC]; [Next]

@tutorial_1239_li
#Example datasource URL: <code>jdbc:h2:~/test</code>

@tutorial_1240_li
#JDBC driver class: <code>org.h2.Driver</code>

@tutorial_1241_p
# Now you can access the database stored in the current users home directory.

@tutorial_1242_p
# To use H2 in NeoOffice (OpenOffice without X11):

@tutorial_1243_li
#In NeoOffice, go to [NeoOffice], [Preferences]

@tutorial_1244_li
#Look for the page under [NeoOffice], [Java]

@tutorial_1245_li
#Click [Class Path], [Add Archive...]

@tutorial_1246_li
#Select your h2 jar file (location is up to you, could be wherever you choose)

@tutorial_1247_li
#Click [OK] (as much as needed), restart NeoOffice.

@tutorial_1248_p
# Now, when creating a new database using the "Database Wizard":

@tutorial_1249_li
#Click [File], [New], [Database].
#Select [Connect to existing database] and the select [JDBC]. Click next.

Example datasource URL: `<code>jdbc:h2:~/test</code>`

JDBC driver class: `<code>org.h2.Driver</code>`

Another solution to use H2 in NeoOffice is:

Package the h2 jar within an extension package

Install it as a Java extension in NeoOffice

This can be done by create it using the NetBeans OpenOffice plugin. See also <a href="http://wiki.services.openoffice.org/wiki/Extensions_development_java">Extensions Development</a>.

Java Web Start / JNLP

When using Java Web Start / JNLP (Java Network Launch Protocol), permissions tags must be set in the .jnlp file, and the application .jar file must be signed. Otherwise, when trying to write to the file system, the following exception will occur: `<code>java.security.AccessControlException</code>: access denied (`<code>java.io.FilePermission ... read</code>`). Example permission tags:

Using a Connection Pool

For H2, opening a connection is fast if the database is already open. Still, using a connection pool improves performance if you open and close connections a lot. A simple connection pool is included in H2. It is based on the <a href="http://www.sourceforge.net/projects/mcp/">Mini Connection Pool Manager</a> from Christian d'Heureuse. There are other, more complex, open source connection pools available, for example the <a href="http://jakarta.apache.org/commons/dbcp/">Apache Commons DBCP</a>. For H2, it is about twice as faster to get a connection from the built-in connection pool than to get one using `<code>DriverManager.getConnection()</code>`. The build-in connection pool is used as follows:

H2 includes two fulltext search implementations. One is using Apache Lucene, and the other (the native...
implementation) stores the index data in special tables in the database.

@tutorial_1263_h3
# Using the Native Fulltext Search

@tutorial_1264_p
# To initialize, call:

@tutorial_1265_p
# You need to initialize it in each database where you want to use it. Afterwards, you can create a fulltext index for a table using:

@tutorial_1266_p
# PUBLIC is the schema name, TEST is the table name. The list of column names (column separated) is optional, in this case all columns are indexed. The index is updated in realtime. To search the index, use the following query:

@tutorial_1267_p
# This will produce a result set that contains the query needed to retrieve the data:

@tutorial_1268_p
# To get the raw data, use <code>FT_SEARCH_DATA('Hello', 0, 0);</code>. The result contains the columns <code>SCHEMA</code> (the schema name), <code>TABLE</code> (the table name), <code>COLUMNS</code> (an array of column names), and <code>KEYS</code> (an array of objects). To join a table, use a join as in: <code>SELECT T.* FROM FT_SEARCH_DATA('Hello', 0, 0) FT, TEST T WHERE FT.TABLE='TEST' AND T.ID=FT.KEYS[0];</code>

@tutorial_1269_p
# You can also call the index from within a Java application:

@tutorial_1270_h3
Lucene

@tutorial_1271_p
# To use the Lucene full text search, you need the Lucene library in the classpath. How to do that depends on the application; if you use the H2 Console, you can add the Lucene jar file to the environment variables <code>H2DRIVERS</code> or <code>CLASSPATH</code>. To initialize the Lucene fulltext search in a database, call:

@tutorial_1272_p
# You need to initialize it in each database where you want to use it. Afterwards, you can create a full text index for a table using:

@tutorial_1273_p
# PUBLIC is the schema name, TEST is the table name. The list of column names (column separated) is optional, in this case all columns are indexed. The index is updated in realtime. To search the index, use the following query:

@tutorial_1274_p
# This will produce a result set that contains the query needed to retrieve the data:
# To get the raw data, use `<code>FTL_SEARCH_DATA('Hello', 0, 0);</code>`. The result contains the columns `<code>SCHEMA</code>` (the schema name), `<code>TABLE</code>` (the table name), `<code>COLUMNS</code>` (an array of column names), and `<code>KEYS</code>` (an array of objects). To join a table, use a join as in: `<code>SELECT T.* FROM FTL_SEARCH_DATA('Hello', 0, 0) FT, TEST T WHERE FT.TABLE='TEST' AND T.ID=FT.KEYS[0];</code>`

# You can also call the index from within a Java application:

# User-Defined Variables

# This database supports user-defined variables. Variables start with `<code>@</code>` and can be used wherever expressions or parameters are allowed. Variables are not persisted and session scoped, that means only visible from within the session in which they are defined. A value is usually assigned using the `SET` command:

# The value can also be changed using the `SET()` method. This is useful in queries:

# Variables that are not set evaluate to `<code>NULL</code>`. The data type of a user-defined variable is the data type of the value assigned to it, that means it is not necessary (or possible) to declare variable names before using them. There are no restrictions on the assigned values; large objects (LOBs) are supported as well.

# Date and Time

# Date, time and timestamp values support ISO 8601 formatting, including time zone:

# If the time zone is not set, the value is parsed using the current time zone setting of the system. Date and time information is stored in H2 database files in GMT (Greenwich Mean Time). If the database is opened using another system time zone, the date and time will change accordingly. If you want to move a database from one time zone to the other and don't want this to happen, you need to create a SQL script file using the `<code>SCRIPT</code>` command or `<code>Script</code>` tool, and then load the database using the `<code>RUNSCRIPT</code>` command or the `<code>RunScript</code>` tool in the new time zone.

# Using Spring

# Use the following configuration to start and stop the H2 TCP server using the Spring Framework:
# The `<code>destroy-method</code>` will help prevent exceptions on hot-redeployment or when restarting the server.

Found in path(s):
* `/opt/cola/permits/1362377181_1657710873.5984848/0/h2-1-2-140-wso2v3-source-tar-gz/h2-1.2.140-wso2v3/repo/h2-1/2/140-wso2v3/h2-1.2.140-wso2v3/src/docsrc/text/_docs_ja.utf8.txt`

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* Iso8601:
* Initial Developer: Robert Rathsack (firstName dot lastName at gmx dot de)
*/

Found in path(s):
* `/opt/cola/permits/1362377181_1657710873.5984848/0/h2-1-2-140-wso2v3-source-tar-gz/h2-1.2.140-wso2v3/repo/h2-1/2/140-wso2v3/h2-1.2.140-wso2v3/src/main/org/h2/util/DateTimeUtils.java`

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Found in path(s):
* `/opt/cola/permits/1362377181_1657710873.5984848/0/h2-1-2-140-wso2v3-source-tar-gz/h2-1.2.140-wso2v3/repo/h2-1/2/140-wso2v3/h2-1.2.140-wso2v3/src/test/org/h2/test/unit/TestDateIso8601.java`

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* This code is based on the LZF algorithm from Marc Lehmann. It is a
* re-implementation of the C code:
* http://cvs.schmorp.de/liblzf/lzf_c.c?view=markup
* http://cvs.schmorp.de/liblzf/lzf_d.c?view=markup
* According to a mail from Marc Lehmann, it's OK to use his algorithm:
* Date: 2010-07-15 15:57
* Subject: Re: Question about LZF licensing
* ...
* The algorithm is not copyrighted (and cannot be copyrighted afaik) - as long
* as you wrote everything yourself, without copying my code, that's just fine
* (looking is of course fine too).
* ...
* Still I would like to keep his copyright info:
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 * Initial Developer: H2 Group
 * The variable size number format code is a port from SQLite,
 * but stored in reverse order (least significant bits in the first byte).
 */

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 * fields enclosed by brackets "[[]]" replaced with your
 * own identifying information: Portions Copyright [yyyy]
 * [name of copyright owner]
 */

// Copyright (c) 1998, 2006, Oracle. All rights reserved.
package oracle.toplink.essentials.platform.database;

import java.io.IOException;
import java.io.Writer;
import java.util.Hashtable;
import oracle.toplink.essentials.exceptions.ValidationException;
import oracle.toplink.essentials.expressions.ExpressionOperator;
import oracle.toplink.essentials.internal.databaseaccess.FieldTypeDefinition;
import oracle.toplink.essentials.queryframework.ValueReadQuery;

/**
 * This platform provides H2 specific behaviour.
 * To enable this platform change the following setting in persistence.xml:
 * <property
 * &lt;pre>
 * */
In old versions of Glassfish, the property name is
<code>toplink.platform.class.name</code>. See also: https://glassfish.dev.java.net/issues/show_bug.cgi?id=4042

@author Thomas Mueller
@author Marcio Borges (http://www.marciowb.net/blog/2008_08_01_)

public class H2Platform extends DatabasePlatform {

    protected Hashtable buildFieldTypes() {
        Hashtable fieldTypeMapping = super.buildFieldTypes();
        fieldTypeMapping.put(Boolean.class, new FieldTypeDefinition("TINYINT", false));
        fieldTypeMapping.put(Integer.class, new FieldTypeDefinition("INTEGER", false));
        fieldTypeMapping.put(Long.class, new FieldTypeDefinition("NUMERIC", 19));
        fieldTypeMapping.put(Float.class, new FieldTypeDefinition("REAL", false));
        fieldTypeMapping.put(Double.class, new FieldTypeDefinition("REAL", false));
        fieldTypeMapping.put(Short.class, new FieldTypeDefinition("SMALLINT", false));
        fieldTypeMapping.put(Byte.class, new FieldTypeDefinition("SMALLINT", false));
        fieldTypeMapping.put(java.math.BigInteger.class, new FieldTypeDefinition("NUMERIC", 38));
        fieldTypeMapping.put(java.math.BigDecimal.class, new FieldTypeDefinition("NUMERIC", 38).setLimits(38, -19, 19));
        fieldTypeMapping.put(Number.class, new FieldTypeDefinition("NUMERIC", 38).setLimits(38, -19, 19));
        fieldTypeMapping.put(Byte[].class, new FieldTypeDefinition("BINARY", false));
        fieldTypeMapping.put(Character[].class, new FieldTypeDefinition("LONGVARCHAR", false));
        fieldTypeMapping.put(byte[].class, new FieldTypeDefinition("BINARY", false));
        fieldTypeMapping.put(char[].class, new FieldTypeDefinition("LONGVARCHAR", false));
        fieldTypeMapping.put(java.sql.Blob.class, new FieldTypeDefinition("BINARY", false));
        fieldTypeMapping.put(java.sql.Clob.class, new FieldTypeDefinition("LONGVARCHAR", false));
        fieldTypeMapping.put(java.sql.Date.class, new FieldTypeDefinition("DATE", false));
        fieldTypeMapping.put(java.sql.Time.class, new FieldTypeDefinition("TIME", false));
        fieldTypeMapping.put(java.sql.Timestamp.class, new FieldTypeDefinition("TIMESTAMP", false));
        return fieldTypeMapping;
    }

    public boolean isH2() {
        return true;
    }

    public boolean supportsForeignKeyConstraints() {
        return true;
    }

    public ValueReadQuery buildSelectQueryForNativeSequence(String seqName, Integer size) {
        StringBuffer buff = new StringBuffer();
        return buff.toString();
    }
}
buff.append("SELECT MAX(NEXT VALUE FOR ");
buff.append(getQualifiedSequenceName(seqName));
buff.append(") FROM SYSTEM_RANGE(1, ");
buff.append(size);
buff.append(")");
String sql = buff.toString();
return new ValueReadQuery(sql);
}

public boolean supportsNativeSequenceNumbers() {
    return true;
}

protected String getQualifiedSequenceName(String seqName) {
    if (getTableQualifier().equals("") ) {
        return seqName;
    }
    return getTableQualifier() + "." + seqName;
}

public boolean supportsSelectForUpdateNoWait() {
    return true;
}

protected ExpressionOperator todayOperator() {
    return ExpressionOperator.simpleFunctionNoParentheses(ExpressionOperator.Today, "SYSDATE");
}

protected void initializePlatformOperators() {
    super.initializePlatformOperators();
    addOperator(ExpressionOperator.simpleMath(ExpressionOperator.Concat, "||"));
}

public boolean shouldUseJDBCOuterJoinSyntax() {
    return false;
}

public boolean supportsSequenceObjects() {
    return true;
}

public boolean supportsIdentity() {
    return true;
}

public ValueReadQuery buildSelectQueryForIdentity() {  
    return new ValueReadQuery("SELECT IDENTITY()");
}
public void printFieldIdentityClause(Writer writer) throws ValidationException {
    try {
        writer.write(" IDENTITY");
    } catch (final IOException ioException) {
        throw ValidationException.fileError(ioException);
    }
}

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * Copyright 2004-2010 H2 Group. Multiple-Licensed under the H2 License, 
 * Version 1.0, and under the Eclipse Public License, Version 1.0 
 * Initial Developer: Jan Kotek
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

advanced_1000_h1=Advanced
advanced_1001_a=\ Result Sets
advanced_1002_a=\ Large Objects
advanced_1003_a=\ Linked Tables
advanced_1004_a=\ Recursive Queries
advanced_1005_a=\ Transaction Isolation
advanced_1006_a=\ Multi-Version Concurrency Control (MVCC)
advanced_1007_a=\ Clustering / High Availability
advanced_1008_a=\ Two Phase Commit
advanced_1009_a=\ Compatibility
advanced_1010_a=\ Standards Compliance
advanced_1011_a=Run as Windows Service
advanced_1012_a=ODBC Driver
advanced_1013_a=Using H2 in Microsoft .NET
advanced_1014_a=ACID
advanced_1015_a=Durability Problems
advanced_1016_a=Using the Recover Tool
advanced_1017_a=File Locking Protocols
advanced_1018_a=File Locking Method 'Serialized'
advanced_1019_a=Protection against SQL Injection
advanced_1020_a=Protection against Remote Access
advanced_1021_a=Restricting Class Loading and Usage
advanced_1022_a=Security Protocols
advanced_1023_a=SSL/TLS Connections
advanced_1024_a=Universally Unique Identifiers (UUID)
advanced_1025_a=Settings Read from System Properties
advanced_1026_a=Setting the Server Bind Address
advanced_1027_a=Pluggable File System
advanced_1028_a=Database Upgrade
advanced_1029_a=Limits and Limitations
advanced_1030_a=Glossary and Links
advanced_1031_h2=Result Sets
advanced_1032_h3=Statements that Return a Result Set
advanced_1033_p=The following statements return a result set: <code>SELECT, EXPLAIN, CALL, SCRIPT, SHOW, HELP</code>. All other statements return an update count.
advanced_1034_h3=Limiting the Number of Rows
advanced_1035_p=Before the result is returned to the application, all rows are read by the database. Server side cursors are not supported currently. If only the first few rows are interesting for the application, then the result set size should be limited to improve the performance. This can be done using <code>LIMIT</code> in a query (example: <code>SELECT * FROM TEST LIMIT 100</code>), or by using <code>Statement.setMaxRows(max)</code>.
advanced_1036_h3=Large Result Sets and External Sorting
advanced_1037_p=For large result set, the result is buffered to disk. The threshold can be defined using the statement <code>SET MAX_MEMORY_ROWS</code>. If <code>ORDER BY</code> is used, the sorting is done using an external sort algorithm. In this case, each block of rows is sorted using quick sort, then written to disk; when reading the data, the blocks are merged together.
advanced_1038_h2=Large Objects
advanced_1039_h3=Storing and Reading Large Objects
advanced_1040_p=If it is possible that the objects don't fit into memory, then the data type CLOB (for textual data) or BLOB (for binary data) should be used. For these data types, the objects are not fully read into memory, by using streams. To store a BLOB, use <code>PreparedStatement.setBinaryStream</code>. To store a CLOB, use <code>PreparedStatement.setCharacterStream</code>. To read a BLOB, use <code>ResultSet.getBinaryStream</code>, and to read a CLOB, use <code>ResultSet.getCharacterStream</code>. When using the client/server mode, large BLOB and CLOB data is stored in a temporary file on the client side.
advanced_1041_h3=When to use CLOB/BLOB
advanced_1042_p=This database stores large LOB (CLOB and BLOB) objects as separate files. Small LOB objects are stored in-place, the threshold can be set using <a href="grammar.html#set_max_length_inplace_lob" class="notranslate" >MAX_LENGTH_INPLACE_LOB</a>, but there is still an overhead to use CLOB/BLOB. Because of this, BLOB and CLOB should never be used for columns with a maximum size below about 200 bytes.
The best threshold depends on the use case; reading in-place objects is faster than reading from separate files, but slows down the performance of operations that don't involve this column.

**Large Object Compression**

CLOB and BLOB values can be compressed by using `<a href="#set_compress_lob" class="notranslate">SET COMPRESS_LOB</a>. The LZF algorithm is faster but needs more disk space. By default compression is disabled, which usually speeds up write operations. If you store many large compressible values such as XML, HTML, text, and uncompressed binary files, then compressing can save a lot of disk space (sometimes more than 50%), and read operations may even be faster.

**Linked Tables**

This database supports linked tables, which means tables that don't exist in the current database but are just links to another database. To create such a link, use the `<code>CREATE LINKED TABLE</code>` statement:

```
CREATE LINKED TABLE
```

You can then access the table in the usual way. Whenever the linked table is accessed, the database issues specific queries over JDBC. Using the example above, if you issue the query `<code>SELECT * FROM LINK WHERE ID=1</code>`, then the following query is run against the PostgreSQL database:

```
SELECT * FROM TEST WHERE ID=1
```

The same happens for insert and update statements. Only simple statements are executed against the target database, that means no joins. Prepared statements are used where possible.

**Transaction Isolation**

Transaction isolation is provided for all data manipulation language (DML) statements. Most data definition language (DDL) statements commit the current transaction. See the `<a href="#grammar">Grammar</a>` for details.

This database supports the following transaction isolation levels:

- **Read Committed**
  - This is the default level. Read locks are released immediately after executing the statement, but write locks are kept until the transaction commits. Higher concurrency is possible when using this level.
  - To enable, execute the SQL statement `<code>SET LOCK_MODE 3</code>` or append `<code>;LOCK_MODE=3</code>` to the database URL:
    ```
    jdbc:h2:/~/test;LOCK_MODE=3
    ```

- **Serializable**
  - Both read locks and write locks are kept until the transaction commits. To enable, execute the SQL statement `<code>SET LOCK_MODE 1</code>` or append `<code>;LOCK_MODE=1</code>` to the database URL:
    ```
    jdbc:h2:/~/test;LOCK_MODE=1
    ```

- **Read Uncommitted**
  - This level means that transaction isolation is disabled.
  - To enable, execute the SQL statement `<code>SET LOCK_MODE 0</code>` or append `<code>;LOCK_MODE=0</code>` to the database URL:
    ```
    jdbc:h2:/~/test;LOCK_MODE=0
    ```

- **Dirty Reads**
  - When using the isolation level ‘serializable’, dirty reads, non-repeatable reads, and phantom reads are prohibited.
  - Means a connection can read uncommitted changes made by another connection.
Possible with: read uncommitted, read committed
Non-Repeatable Reads
A connection reads a row, another connection changes a row and commits, and the first connection re-reads the same row and gets the new result.
Possible with: read uncommitted, read committed
Phantom Reads
A connection reads a set of rows using a condition, another connection inserts a row that falls in this condition and commits, then the first connection re-reads using the same condition and gets the new row.
Possible with: read uncommitted, read committed
Table Level Locking
The database allows multiple concurrent connections to the same database. To make sure all connections only see consistent data, table level locking is used by default. This mechanism does not allow high concurrency, but is very fast. Shared locks and exclusive locks are supported. Before reading from a table, the database tries to add a shared lock to the table (this is only possible if there is no exclusive lock on the object by another connection). If the shared lock is added successfully, the table can be read. It is allowed that other connections also have a shared lock on the same object. If a connection wants to write to a table (update or delete a row), an exclusive lock is required. To get the exclusive lock, other connection must not have any locks on the object. After the connection commits, all locks are released. This database keeps all locks in memory. When a lock is released, and multiple connections are waiting for it, one of them is picked at random.
Lock Timeout
If a connection cannot get a lock on an object, the connection waits for some amount of time (the lock timeout). During this time, hopefully the connection holding the lock commits and it is then possible to get the lock. If this is not possible because the other connection does not release the lock for some time, the unsuccessful connection will get a lock timeout exception. The lock timeout can be set individually for each connection.
Multi-Version Concurrency Control (MVCC)
The MVCC feature allows higher concurrency than using (table level or row level) locks. When using MVCC in this database, delete, insert and update operations will only issue a shared lock on the table. An exclusive lock is still used when adding or removing columns, when dropping the table, and when using <code>SELECT ... FOR UPDATE</code>. Connections only 'see' committed data, and own changes. That means, if connection A updates a row but doesn't commit this change yet, connection B will see the old value. Only when the change is committed, the new value is visible by other connections (read committed). If multiple connections concurrently try to update the same row, the database waits until it can apply the change, but at most until the lock timeout expires.
To use the MVCC feature, append <code>;MVCC=TRUE</code> to the database URL:
MVCC is disabled by default. The MVCC feature is not fully tested yet. The limitations of the MVCC mode are:
complete undo log must fit in memory when using multi-version concurrency (the setting <code>MAX_MEMORY_UNDO</code> has no effect). It is not possible to enable or disable this setting while the database is already open. The setting must be specified in the first connection (the one that opens the database).
Clustering / High Availability
This database supports a simple clustering / high availability mechanism. The architecture is:
two database servers run on two different computers, and on both computers is a copy of the same database. If both servers run, each database operation is executed on both computers. If one server fails (power, hardware or network failure), the other server can still continue to work. From this point on, the operations will be executed only on one server until the other server is back up.
Clustering can only be used in the server mode (the embedded mode does not support clustering). The cluster can be re-created using the <code>CreateCluster</code> tool without stopping the database.
remaining server. Applications that are still connected are automatically disconnected, however when appending
<code>;AUTO_RECONNECT=TRUE</code>, they will recover from that.

1. To initialize the cluster, use the following steps:
   1. Create a database
   2. Use the <code>CreateCluster</code> tool to copy the database to another location and initialize
      the clustering. Afterwards, you have two databases containing the same data.
   3. Start two servers (one for each copy of the database)
   4. You are now ready to connect to the databases with the client application(s)

2. Using the CreateCluster Tool

   To understand how clustering works, please try out the following example. In this example, the
   two databases reside on the same computer, but usually, the databases will be on different servers.

   To initialize the cluster, use the following steps:
   1. Create a database
   2. Use the <code>CreateCluster</code> tool to copy the database to another location and initialize
      the clustering. Afterwards, you have two databases containing the same data.
   3. Start two servers (one for each copy of the database)
   4. You are now ready to connect to the databases with the client application(s)

3. To restore the cluster, you first need to delete the database that failed, then restart the server that
   was stopped, and re-run the <code>CreateCluster</code> tool.

4. To find out which cluster nodes are currently running, execute the following SQL statement:

   If the result is <code>''</code> (two single quotes), then the cluster mode is disabled.
   Otherwise, the list of servers is returned, enclosed in single quote. Example:
   <code>'server1:9191,server2:9191'</code>.

5. When using the cluster modes, result sets are read fully in memory by the client, so that there is
   no problem if the server dies that executed the query. Result sets must fit in memory on the client side.

6. The two phase commit protocol is supported. 2-phase-commit works as follows:

   1. Autocommit needs to be switched off
   2. A transaction is started, for example by inserting a row
   3. The transaction is marked 'prepared' by executing the SQL statement <code>PREPARE
      COMMIT transactionName</code>
   4. The transaction can now be committed or rolled back
   5. If a problem occurs before the transaction was successfully committed or rolled back (for
      example because a network problem occurred), the transaction is in the state 'in-doubt'
When re-connecting to the database, the in-doubt transactions can be listed with
<code>SELECT * FROM INFORMATION_SCHEMA.IN_DOUBT</code>

Each transaction in this list must now be committed or rolled back by executing
<code>COMMIT TRANSACTION transactionName</code> or <code>ROLLBACK TRANSACTION transactionName</code>

The database needs to be closed and re-opened to apply the changes

This database is (up to a certain point) compatible to other databases such as HSQLDB, MySQL and PostgreSQL. There are certain areas where H2 is incompatible.

At this time, this database engine commits a transaction (if autocommit is switched on) just before returning the result. For a query, this means the transaction is committed even before the application scans through the result set, and before the result set is closed. Other database engines may commit the transaction in this case when the result set is closed.

There is a list of keywords that can't be used as identifiers (table names, column names and so on), unless they are quoted (surrounded with double quotes). The list is currently:
<code>CROSS, CURRENT_DATE, CURRENT_TIME, CURRENT_TIMESTAMP, DISTINCT, EXCEPT, EXISTS, FALSE, FOR, FROM, FULL, GROUP, HAVING, INNER, INTERSECT, IS, JOIN, LIKE, LIMIT, MINUS, NATURAL, NOT, NULL, ON, ORDER, PRIMARY, ROWNUM, SELECT, SYSDATE, SYSTIME, SYSTIMESTAMP, TODAY, TRUE, UNION, UNIQUE, WHERE</code>

Certain words of this list are keywords because they are functions that can be used without '(' for compatibility, for example <code>CURRENT_TIMESTAMP</code>.

This database tries to be as much standard compliant as possible. For the SQL language, ANSI/ISO is the main standard. There are several versions that refer to the release date: SQL-92, SQL:1999, and SQL:2003. Unfortunately, the standard documentation is not freely available. Another problem is that important features are not standardized. Whenever this is the case, this database tries to be compatible to other databases.

Using a native wrapper / adapter, Java applications can be run as a Windows Service. There are various tools available to do that. The Java Service Wrapper from <a href="http://wrapper.tanukisoftware.org">Tanuki Software, Inc.</a> is included in the installation. Batch files are provided to install, start, stop and uninstall the H2 Database Engine Service. This service contains the TCP Server and the H2 Console web application. The batch files are located in the directory <code>h2/service</code>.

The service needs to be registered as a Windows Service first. To do that, double click on <code>1_install_service.bat</code>. If successful, a command prompt window will pop up and disappear immediately. If not, a message will appear.

You can start the H2 Database Engine Service using the service manager of Windows, or by double clicking on <code>2_start_service.bat</code>. Please note that the batch file does not print an error message if the service is not installed.

After installing and starting the service, you can connect to the H2 Console application using a browser. Double clicking on <code>3_start_browser.bat</code> to do that. The default port (8082) is hard coded in the batch file.

To stop the service, double click on <code>4_stop_service.bat</code>. Please note that the
batch file does not print an error message if the service is not installed or started.

To uninstall the service, double click on `<code>5_uninstall_service.bat</code>`. If successful, a command prompt window will pop up and disappear immediately. If not, a message will appear.

To use other databases (for example MySQL), the location of the JDBC drivers of those databases need to be added to the environment variables `<code>H2DRIVERS</code>` or `<code>CLASSPATH</code>` before installing the service. Multiple drivers can be set; each entry needs to be separated with a `<code></code>` (Windows) or `<code></code>` (other operating systems). Spaces in the path names are supported. The settings must not be quoted.

This database does not come with its own ODBC driver at this time, but it supports the PostgreSQL network protocol. Therefore, the PostgreSQL ODBC driver can be used. Support for the PostgreSQL network protocol is quite new and should be viewed as experimental. It should not be used for production applications.

To use the PostgreSQL ODBC driver on 64 bit versions of Windows, first run `<code>c:\windows/syswow64/odbcad32.exe</code>`. At this point you set up your DSN just like you would on any other system. See also: `<a href="http://archives.postgresql.org/pgsql-odbc/2005-09/msg00125.php">Re\: ODBC Driver on Windows 64 bit</a>`

First, the ODBC driver must be installed. Any recent PostgreSQL ODBC driver should work, however version 8.2 `<code>psqlodbc-08_02*</code>` or newer is recommended. The Windows version of the PostgreSQL ODBC driver is available at `<a href="http://www.postgresql.org/ftp/odbc/versions/msi">http://www.postgresql.org/ftp/odbc/versions/msi</a>`.

After installing the driver, a new Data Source must be added. In Windows, run `<code>odbcad32.exe</code>` to open the Data Source Administrator. Then click on 'Add..' and select the PostgreSQL Unicode driver. Then click 'Finish'. You will be able to change the connection properties. The property column represents the property key in the `<code>odbc.ini</code>` file (which may be different from the GUI).

After installing the driver, a new Data Source must be added. In Windows, run `<code>odbcad32.exe</code>` to open the Data Source Administrator. Then click on 'Add..' and select the PostgreSQL Unicode driver. Then click 'Finish'. You will be able to change the connection properties. The property column represents the property key in the `<code>odbc.ini</code>` file (which may be different from the GUI).
The name must be at least 3 characters.

The server name or IP address.

Username

The database user name.

SSL

false (disabled)

Port

5435

The port where the PG Server is listening.

Password

The database password.

To improve performance, please enable 'server side prepare' under Options / Datasource / Page 2 / Server side prepare.

Afterwards, you may use this data source.

At this time, only a subset of the PostgreSQL network protocol is implemented. Also, there may be compatibility problems on the SQL level, with the catalog, or with text encoding. Problems are fixed as they are found. Currently, statements can not be canceled when using the PG protocol. Also, H2 does not provide index meta over ODBC.

PostgreSQL ODBC Driver Setup requires a database password; that means it is not possible to connect to H2 databases without password. This is a limitation of the ODBC driver.

Currently, the PG Server does not support challenge response or encrypt passwords. This may be a problem if an attacker can listen to the data transferred between the ODBC driver and the server, because the password is readable to the attacker. Also, it is currently not possible to use encrypted SSL connections. Therefore the ODBC driver should not be used where security is important.

When using Microsoft Access to edit data in a linked H2 table, you may need to enable the following option: Tools - Options - Edit/Find - ODBC fields.

The database can be used from Microsoft .NET even without using Java, by using IKVM.NET. You can access a H2 database on .NET using the JDBC API, or using the ADO.NET interface.

An implementation of the ADO.NET interface is available in the open source project <a href="http://code.google.com/p/h2sharp">H2Sharp</a>.

The database can be used from .NET using the JDBC API on .NET

A .NET API for H2 is available in the open source project <a href="http://code.google.com/p/h2sharp">H2Sharp</a>.

Using the JDBC API on .NET

Install the .NET Framework from <a href="http://www.microsoft.com">Microsoft</a>

IKVM.NET has not yet been tested.

Copy the <code>h2*.jar</code> file to <code>ikvm/bin</code>

Run the H2 Console using <code>ikvm -jar h2*.jar</code>

Convert the H2 Console to an <code>.exe</code> file using <code>ikvmc -target:winexe</code>
h2*.jar</code>. You may ignore the warnings.

advanced_1199_li=Create a <code>.dll</code> file using (change the version accordingly):
<code>ikvmc.exe -target:library -version:1.0.69.0 h2*.jar</code>

advanced_1200_p=If you want your C# application use H2, you need to add the <code>h2.dll</code> and the <code>IKVM.OpenJDK.ClassLibrary.dll</code> to your C# solution. Here some sample code:

advanced_1201_h2=ACID

advanced_1202_p=In the database world, ACID stands for:

advanced_1203_li=Atomicity: transactions must be atomic, meaning either all tasks are performed or none.
advanced_1204_li=Consistency: all operations must comply with the defined constraints.
advanced_1205_li=Isolation: transactions must be isolated from each other.
advanced_1206_li=Durability: committed transaction will not be lost.

advanced_1207_h3=Atomicity

advanced_1208_p=Transactions in this database are always atomic.

advanced_1209_h3=Consistency

advanced_1210_p=By default, this database is always in a consistent state. Referential integrity rules are enforced except when explicitly disabled.

advanced_1211_h3=Isolation

advanced_1212_p=For H2, as with most other database systems, the default isolation level is 'read committed'. This provides better performance, but also means that transactions are not completely isolated. H2 supports the transaction isolation levels 'serializable', 'read committed', and 'read uncommitted'.

advanced_1213_h3=Durability

advanced_1214_p=This database does not guarantee that all committed transactions survive a power failure. Tests show that all databases sometimes lose transactions on power failure (for details, see below). Where losing transactions is not acceptable, a laptop or UPS (uninterruptible power supply) should be used. If durability is required for all possible cases of hardware failure, clustering should be used, such as the H2 clustering mode.

advanced_1215_h2=Durability Problems

advanced_1216_p=Complete durability means all committed transaction survive a power failure. Some databases claim they can guarantee durability, but such claims are wrong. A durability test was run against H2, HSQLDB, PostgreSQL, and Derby. All of those databases sometimes lose committed transactions. The test is included in the H2 download, see <code>org.h2.test.poweroff.Test</code>.

advanced_1217_h3=Ways to (Not) Achieve Durability

advanced_1218_p=Making sure that committed transactions are not lost is more complicated than it seems first. To guarantee complete durability, a database must ensure that the log record is on the hard drive before the commit call returns. To do that, databases use different methods. One is to use the 'synchronous write' file access mode. In Java, <code>RandomAccessFile</code> supports the modes <code>rws</code> and <code>rwd</code>:

advanced_1219_code=rwd

advanced_1220_li=: every update to the file's content is written synchronously to the underlying storage device.
advanced_1221_code=rws

advanced_1222_li: in addition to <code>rwd</code>, every update to the metadata is written synchronously.

advanced_1223_p=A test (<code>org.h2.test.poweroff.TestWrite</code>) with one of those modes achieves around 50 thousand write operations per second. Even when the operating system write buffer is disabled, the write rate is around 50 thousand operations per second. This feature does not force changes to disk because it does not flush all buffers. The test updates the same byte in the file again and again. If the hard drive was able to write at this rate, then the disk would need to make at least 50 thousand revolutions per second, or 3 million RPM (revolutions per minute). There are no such hard drives. The hard drive used for the test is about 7200 RPM, or about 120 revolutions per second. There is an overhead, so the maximum write rate must be lower than that.

advanced_1224_p=Calling <code>fsync</code> flushes the buffers. There are two ways to do that in Java:
advanced_1225_code=FileDescriptor.sync()
advanced_1226_li=. The documentation says that this forces all system buffers to synchronize with the underlying device. This method is supposed to return after all in-memory modified copies of buffers associated with this file descriptor have been written to the physical medium.

advanced_1227_code=FileChannel.force()
advanced_1228_li=\ (since JDK 1.4). This method is supposed to force any updates to this channel's file to be written to the storage device that contains it.

advanced_1229_p=\ By default, MySQL calls <code>fsync</code> for each commit. When using one of those methods, only around 60 write operations per second can be achieved, which is consistent with the RPM rate of the hard drive used. Unfortunately, even when calling <code>FileDescriptor.sync()</code> or <code>FileChannel.force()</code>, data is not always persisted to the hard drive, because most hard drives do not obey <code>fsync()</code>:</li>


advanced_1230_p=\ Trying to flush hard drive buffers is hard, and if you do the performance is very bad. First you need to make sure that the hard drive actually flushes all buffers. Tests show that this can not be done in a reliable way. Then the maximum number of transactions is around 60 per second. Because of those reasons, the default behavior of H2 is to delay writing committed transactions.

advanced_1231_p=\ In H2, after a power failure, a bit more than one second of committed transactions may be lost. To change the behavior, use <code>SET WRITE_DELAY</code> and <code>CHECKPOINT SYNC</code>. Most other databases support commit delay as well. In the performance comparison, commit delay was used for all databases that support it.

advanced_1232_h3=Running the Durability Test
advanced_1233_p=\ To test the durability / non-durability of this and other databases, you can use the test application in the package <code>org.h2.test.poweroff</code>. Two computers with network connection are required to run this test. One computer just listens, while the test application is run (and power is cut) on the other computer. The computer with the listener application opens a TCP/IP port and listens for an incoming connection. The second computer first connects to the listener, and then created the databases and starts inserting records. The connection is set to 'autocommit', which means after each inserted record a commit is performed automatically. Afterwards, the test computer notifies the listener that this record was inserted successfully. The listener computer displays the last inserted record number every 10 seconds. Now, switch off the power manually, then restart the computer, and run the application again. You will find out that in most cases, none of the databases contains all the records that the listener computer knows about. For details, please consult the source code of the listener and test application.

advanced_1234_h2=Using the Recover Tool
advanced_1235_p=\ The <code>Recover</code> tool can be used to extract the contents of a database file, even if the database is corrupted. It also extracts the content of the transaction log and large objects (CLOB or BLOB). To run the tool, type on the command line:

advanced_1236_p=\ For each database in the current directory, a text file will be created. This file contains raw insert statements (for the data) and data definition (DDL) statements to recreate the schema of the database. This file can be executed using the <code>RunScript</code> tool or a <code>RUNSCRIPT FROM</code> SQL statement. The script includes at least one <code>CREATE USER</code> statement. If you run the script against a database that was created with the same user, or if there are conflicting users, running the script will fail. Consider running the script against a database that was created with a user name that is not in the script.

advanced_1237_p=\ The <code>Recover</code> tool creates a SQL script from database file. It also processes the transaction log.

advanced_1238_h2=File Locking Protocols
advanced_1239_p=\ Multiple concurrent connections to the same database are supported, however a database file
can only be open for reading and writing (in embedded mode) by one process at the same time. Otherwise, the processes would overwrite each other's data and corrupt the database file. To protect against this problem, whenever a database is opened, a lock file is created to signal other processes that the database is in use. If the database is closed, or if the process that opened the database stops normally, this lock file is deleted.

In special cases (if the process did not terminate normally, for example because there was a power failure), the lock file is not deleted by the process that created it. That means the existence of the lock file is not a safe protocol for file locking. However, this software uses a challenge-response protocol to protect the database files. There are two methods (algorithms) implemented to provide both security (that is, the same database files cannot be opened by two processes at the same time) and simplicity (that is, the lock file does not need to be deleted manually by the user). The two methods are 'file method' and 'socket methods'.

The file locking protocols have the following limitation: if a shared file system is used, and the machine with the lock owner is sent to sleep (standby or hibernate), another machine may take over. If the machine that originally held the lock wakes up, the database may become corrupt. If this situation can occur, the application must ensure the database is closed when the application is put to sleep.

The default method for database file locking is the 'File Method'. The algorithm is:

- If the lock file does not exist, it is created (using the atomic operation <code>File.createNewFile</code>). Then, the process waits a little bit (20 ms) and checks the file again. If the file was changed during this time, the operation is aborted. This protects against a race condition when one process deletes the lock file just after another one create it, and a third process creates the file again. It does not occur if there are only two writers.

- If the file can be created, a random number is inserted together with the locking method ('file'). Afterwards, a watchdog thread is started that checks regularly (every second once by default) if the file was deleted or modified by another (challenger) thread / process. Whenever that occurs, the file is overwritten with the old data. The watchdog thread runs with high priority so that a change to the lock file does not get through undetected even if the system is very busy. However, the watchdog thread does use very little resources (CPU time), because it waits most of the time. Also, the watchdog only reads from the hard disk and does not write to it.

- If the lock file exists and was recently modified, the process waits for some time (up to two seconds). If it was still changed, an exception is thrown (database is locked). This is done to eliminate race conditions with many concurrent writers. Afterwards, the file is overwritten with a new version (challenge). After that, the thread waits for 2 seconds. If there is a watchdog thread protecting the file, he will overwrite the change and this process will fail to lock the database. However, if there is no watchdog thread, the lock file will still be as written by this thread. In this case, the file is deleted and atomically created again. The watchdog thread is started in this case and the file is locked.

This algorithm is tested with over 100 concurrent threads. In some cases, when there are many concurrent threads trying to lock the database, they block each other (meaning the file cannot be locked by any of them) for some time. However, the file never gets locked by two threads at the same time. However using that many concurrent threads / processes is not the common use case. Generally, an application should throw an error to the user if it cannot open a database, and not try again in a (fast) loop.

There is a second locking mechanism implemented, but disabled by default. To use it, append <code>;FILE_LOCK=SOCKET</code> to the database URL. The algorithm is:

- If the lock file does not exist, it is created. Then a server socket is opened on a defined port, and kept open. The port and IP address of the process that opened the database is written into the lock file.

- If the lock file exists, and the lock method is 'file', then the software switches to the 'file' method.

If the original process is still running, the port is in use and this process throws an exception (database is in use). If
the original process died (for example due to a power failure, or abnormal termination of the virtual machine), then the port was released. The new process deletes the lock file and starts again.

advanced_1253_p=This method does not require a watchdog thread actively polling (reading) the same file every second. The problem with this method is, if the file is stored on a network share, two processes (running on different computers) could still open the same database files, if they do not have a direct TCP/IP connection.

advanced_1254_h2=File Locking Method ‘Serialized’
advanced_1255_p=This locking mode allows to open multiple connections to the same database. The connections may be opened from multiple processes and from different computers. When writing to the database, access is automatically synchronized internally. Write operations are slower than when using the server mode, and concurrency is relatively poor. The advantage of this mode is that there is no need to start a server.

advanced_1256_p=To enable this feature, append <code>;FILE_LOCK=SERIALIZED</code> to the database URL.

advanced_1257_p=This feature is relatively new. When using it for production, please ensure your use case is well tested (if possible with automated test cases).

advanced_1258_h2=Protection against SQL Injection
advanced_1259_h3=What is SQL Injection
advanced_1260_p=This database engine provides a solution for the security vulnerability known as 'SQL Injection'. Here is a short description of what SQL injection means. Some applications build SQL statements with embedded user input such as:

advanced_1261_p=If this mechanism is used anywhere in the application, and user input is not correctly filtered or encoded, it is possible for a user to inject SQL functionality or statements by using specially built input such as (in this example) this password: <code>' OR ''='</code>. In this case the statement becomes:

advanced_1262_p=Which is always true no matter what the password stored in the database is. For more information about SQL Injection, see <a href="#glossary_links">Glossary and Links</a>.

advanced_1263_h3=Disabling Literals
advanced_1264_p=SQL Injection is not possible if user input is not directly embedded in SQL statements. A simple solution for the problem above is to use a prepared statement:

advanced_1265_p=This database provides a way to enforce usage of parameters when passing user input to the database. This is done by disabling embedded literals in SQL statements. To do this, execute the statement:

advanced_1266_p=Afterwards, SQL statements with text and number literals are not allowed any more. That means, SQL statement of the form <code>WHERE NAME='abc'</code> or <code>WHERE CustomerId=10</code> will fail. It is still possible to use prepared statements and parameters as described above. Also, it is still possible to generate SQL statements dynamically, and use the Statement API, as long as the SQL statements do not include literals. There is also a second mode where number literals are allowed: <code>SET ALLOW_LITERALS NUMBERS</code>. To allow all literals, execute <code>SET ALLOW_LITERALS ALL</code> (this is the default setting). Literals can only be enabled or disabled by an administrator.

advanced_1267_h3=Using Constants
advanced_1268_p=Disabling literals also means disabling hard-coded 'constant' literals. This database supports defining constants using the <code>CREATE CONSTANT</code> command. Constants can be defined only when literals are enabled, but used even when literals are disabled. To avoid name clashes with column names, constants can be defined in other schemas:

advanced_1269_p=Even when literals are enabled, it is better to use constants instead of hard-coded number or text literals in queries or views. With constants, typos are found at compile time, the source code is easier to understand and change.

advanced_1270_h3=Using the ZERO() Function
advanced_1271_p=It is not required to create a constant for the number 0 as there is already a built-in function <code>ZERO()</code>:

advanced_1272_h2=Protection against Remote Access
By default this database does not allow connections from other machines when starting the H2 Console, the TCP server, or the PG server. Remote access can be enabled using the command line options \texttt{-webAllowOthers}, \texttt{-tcpAllowOthers}, \texttt{-pgAllowOthers}. If you enable remote access, please also consider using the options \texttt{-baseDir}, \texttt{-ifExists}, so that remote users can not create new databases or access existing databases with weak passwords. When using the option \texttt{-baseDir}, only databases within that directory may be accessed. Ensure the existing accessible databases are protected using strong passwords.

### Restricting Class Loading and Usage

By default there is no restriction on loading classes and executing Java code for admins. That means an admin may call system functions such as \texttt{System.setProperty} by executing:\n
To restrict users (including admins) from loading classes and executing code, the list of allowed classes can be set in the system property \texttt{h2.allowedClasses} in the form of a comma separated list of classes or patterns (items ending with \texttt{*}). By default all classes are allowed. Example:\n
This mechanism is used for all user classes, including database event listeners, trigger classes, user-defined functions, user-defined aggregate functions, and JDBC driver classes (with the exception of the H2 driver) when using the H2 Console.

### Security Protocols

The following paragraphs document the security protocols used in this database. These descriptions are very technical and only intended for security experts that already know the underlying security primitives.

#### User Password Encryption

When a user tries to connect to a database, the combination of user name, @, and password are hashed using SHA-256, and this hash value is transmitted to the database. This step does not protect against an attacker that re-uses the value if he is able to listen to the (unencrypted) transmission between the client and the server. But, the passwords are never transmitted as plain text, even when using an unencrypted connection between client and server. That means if a user reuses the same password for different things, this password is still protected up to some point. See also 'RFC 2617 - HTTP Authentication: Basic and Digest Access Authentication' for more information.

When a new database or user is created, a new random salt value is generated. The size of the salt is 64 bits. Using the random salt reduces the risk of an attacker pre-calculating hash values for many different (commonly used) passwords.

The combination of user-password hash value (see above) and salt is hashed using SHA-256. The resulting value is stored in the database. When a user tries to connect to the database, the database combines user-password hash value with the stored salt value and calculates the hash value. Other products use multiple iterations (hash the hash value again and again), but this is not done in this product to reduce the risk of denial of service attacks (where the attacker tries to connect with bogus passwords, and the server spends a lot of time calculating the hash value for each password). The reasoning is: if the attacker has access to the hashed passwords, he also has access to the data in plain text, and therefore does not need the password any more. If the data is protected by storing it on another computer and only accessible remotely, then the iteration count is not required at all.

#### File Encryption

The database files can be encrypted using two different algorithms: AES-128 and XTEA (using 32 rounds). The reasons for supporting XTEA is performance (XTEA is a bit faster as AES in some environments) and to have an alternative algorithm if AES is suddenly broken. Please note that the XTEA implementation used in this database only uses 32 rounds and not 64 rounds as recommended by its inventor (as of 2010, the best known attack is on 27 rounds).

When a user tries to connect to an encrypted database, the combination of \texttt{file@} and the file password is hashed using SHA-256. This hash value is transmitted to the server.

When a new database file is created, a new cryptographically secure random salt value is generated.
generated. The size of the salt is 64 bits. The combination of the file password hash and the salt value is hashed 1024 times using SHA-256. The reason for the iteration is to make it harder for an attacker to calculate hash values for common passwords.

The resulting hash value is used as the key for the block cipher algorithm (AES-128 or XTEA with 32 rounds). Then, an initialization vector (IV) key is calculated by hashing the key again using SHA-256. This is to make sure the IV is unknown to the attacker. The reason for using a secret IV is to protect against watermark attacks.

Before saving a block of data (each block is 8 bytes long), the following operations are executed: first, the IV is calculated by encrypting the block number with the IV key (using the same block cipher algorithm). This IV is combined with the plain text using XOR. The resulting data is encrypted using the AES-128 or XTEA algorithm.

When decrypting, the operation is done in reverse. First, the block is decrypted using the key, and then the IV is calculated combined with the decrypted text using XOR.

Therefore, the block cipher mode of operation is CBC (cipher-block chaining), but each chain is only one block long. The advantage over the ECB (electronic codebook) mode is that patterns in the data are not revealed, and the advantage over multi block CBC is that flipped cipher text bits are not propagated to flipped plaintext bits in the next block.

Database encryption is meant for securing the database while it is not in use (stolen laptop and so on). It is not meant for cases where the attacker has access to files while the database is in use. When he has write access, he can for example replace pieces of files with pieces of older versions and manipulate data like this.

File encryption slows down the performance of the database engine. Compared to unencrypted mode, database operations take about 2.2 times longer when using XTEA, and 2.5 times longer using AES (embedded mode).

To protect against remote brute force password attacks, the delay after each unsuccessful login gets double as long. Use the system properties `<code>h2.delayWrongPasswordMin</code>` and `<code>h2.delayWrongPasswordMax</code>` to change the minimum (the default is 250 milliseconds) or maximum delay (the default is 4000 milliseconds, or 4 seconds). The delay only applies for those using the wrong password. Normally there is no delay for a user that knows the correct password, with one exception: after using the wrong password, there is a delay of up to (randomly distributed) the same delay as for a wrong password. This is to protect against parallel brute force attacks, so that an attacker needs to wait for the whole delay. Delays are synchronized. This is also required to protect against parallel attacks.

There is only one exception message for both wrong user and for wrong password, to make it harder to get the list of user names. It is not possible from the stack trace to see if the user name was wrong or the password.

The web server supports HTTP and HTTPS connections using `<code>SSLServerSocket</code>`. There is a default self-certified certificate to support an easy starting point, but custom certificates are supported as well.

Remote SSL/TLS connections are supported using the Java Secure Socket Extension (`<code>SSLServerSocket, SSLSocket</code>`). By default, anonymous SSL is enabled. The default cipher suite is `<code>SSL_DH_anon_WITH_RC4_128_MD5</code>`.

To use your own keystore, set the system properties `<code>javax.net.ssl.keyStore</code>` and `<code>javax.net.ssl.keyStorePassword</code>` before starting the H2 server and client. See also `<a href="http://java.sun.com/javase/6/docs/technotes/guides/security/jsse/JSSERefGuide.html#CustomizingStores">Customizing the Default Key and Trust Stores, Store Types, and Store Passwords</a>` for more information.

To disable anonymous SSL, set the system property `<code>h2.enableAnonymousSSL</code>`
to false.

This database supports UUIDs. Also supported is a function to create new UUIDs using a cryptographically strong pseudo random number generator. With random UUIDs, the chance of two having the same value can be calculated using the probability theory. See also 'Birthday Paradox'. Standardized randomly generated UUIDs have 122 random bits. 4 bits are used for the version (Randomly generated UUID), and 2 bits for the variant (Leach-Salz). This database supports generating such UUIDs using the built-in function <code>RANDOM_UUID()</code>. Here is a small program to estimate the probability of having two identical UUIDs after generating a number of values:

Some values are:

<table>
<thead>
<tr>
<th>Number of UUIDs</th>
<th>Probability of Duplicates</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2^{36} \approx 68',719',476',736$</td>
<td>$0.000',000',000',000',000',000',000$,</td>
</tr>
<tr>
<td>$2^{41} \approx 2',199',023',255',552$</td>
<td>$0.000',000',000',000',000',000$,</td>
</tr>
<tr>
<td>$2^{46} \approx 70',368',744',177',664$</td>
<td>$0.000',000',000',000',000',000$,</td>
</tr>
</tbody>
</table>

To help non-mathematicians understand what those numbers mean, here a comparison: one's annual risk of being hit by a meteorite is estimated to be one chance in 17 billion, that means the probability is about $0.000',000',000',000',000'$.06.

H2 has experimental support for recursive queries, using so called "common table expressions". Examples:

Recursive queries need to be of the type <code>UNION ALL</code>, and the recursion needs to be on the second part of the query. No tables or views with the name of the table expression may exist. Different table expression names need to be used when using multiple distinct table expressions within the same transaction and for the same session. All columns of the table expression are of type <code>VARCHAR</code>. Parameters are only supported within the last <code>SELECT</code> statement (a workaround is to use session variables like <code>@start</code> within the table expression). The syntax is:

Some settings of the database can be set on the command line using <code>-D propertyName=value</code>. It is usually not required to change those settings manually. The settings are case sensitive. Example:

The current value of the settings can be read in the table <code>INFORMATION_SCHEMA.SETTINGS</code>. For a complete list of settings, see <a href="../javadoc/org/h2/constant/SysProperties.html">SysProperties</a>.

Usually server sockets accept connections on any/all local addresses. This may be a problem on multi-homed hosts. To bind only to one address, use the system property <code>h2.bindAddress</code>. This setting is used for both regular server sockets and for SSL server sockets. IPv4 and IPv6 address formats are supported.

This database supports a pluggable file system API. The file system implementation is selected using a file name prefix. The following file systems are included:

read-only zip-file based file system. Format: <code>zip://zipFileName!/fileName</code>.
advanced_1328_code=split:\nadvanced_1329_li=\ file system that splits files in 1 GB files (stackable with other file systems).
advanced_1330_code=nio:\nadvanced_1331_li=\ file system that uses \texttt{FileChannel} instead of \texttt{RandomAccessFile} (faster in some operating systems).
advanced_1332_code=nioMapped:\nadvanced_1333_li=\ file system that uses memory mapped files (faster in some operating systems). Please note that there currently is a file size limitation of 2 GB when using this file system. To work around this limitation, combine it with the split file system:\texttt{split:nioMapped:test}.
advanced_1334_code=memFS:\nadvanced_1335_li=in-memory file system (slower than mem; experimental; mainly used for testing the database engine itself).
advanced_1336_code=memLZF:\nadvanced_1337_li=compressing in-memory file system (slower than memFS but uses less memory; experimental; mainly used for testing the database engine itself).
advanced_1338_p=As an example, to use the the \texttt{nio} file system, use the following database URL:\texttt{jdbc:h2:nio:~/test}.
advanced_1339_p=\ To register a new file system, extend the classes \texttt{org.h2.store.fs.FileSystem, FileObject}, and call the method \texttt{FileSystem.register} before using it.
advanced_1340_h2=Database Upgrade
advanced_1341_p=In version 1.2, H2 introduced a new file store implementation which is incompatible to the one used in versions &lt; 1.2. To automatically convert databases to the new file store, it is necessary to include an additional jar file. The file can be found at \url{http://h2database.com/h2mig_pagestore_addon.jar}. If this file is in the classpath, every connect to an older database will result in a conversion process.
advanced_1342_p=The conversion itself is done internally via \texttt{script to'} and \texttt{runscript from'}. After the conversion process, the files will be renamed from
advanced_1343_code=dbName.data.db
advanced_1344_li=to \texttt{dbName.data.db.backup}
advanced_1345_code=dbName.index.db
advanced_1346_li=to \texttt{dbName.index.db.backup}
advanced_1347_p=by default. Also, the temporary script will be written to the database directory instead of a temporary directory. Both defaults can be customized via
advanced_1348_code=org.h2.upgrade.DbUpgradeNonPageStoreToCurrent.setDeleteOldDb(boolean)
advanced_1349_code=org.h2.upgrade.DbUpgradeNonPageStoreToCurrent.setScriptInTmpDir(boolean)
advanced_1350_p=prior opening a database connection.
advanced_1351_p=Since version 1.2.140 it is possible to let the old h2 classes (v 1.2.128) connect to the database. The automatic upgrade .jar file must be present, and the url must contain NO_UPGRADE=TRUE.
advanced_1352_h2=Limits and Limitations
advanced_1353_p=This database has the following known limitations:
advanced_1354_li=Database file size limits (excluding BLOB and CLOB data): With the default storage mechanism, the maximum file size is currently 256 GB for the data, and 256 GB for the index. With the page store (experimental): 4 TB or higher.
advanced_1355_li=BLOB and CLOB size limits: every CLOB or BLOB can be up to 256 GB.
advanced_1356_li=The maximum file size for FAT or FAT32 file systems is 4 GB. That means when using FAT or FAT32, the limit is 4 GB for the data. This is the limitation of the file system. The database does provide a workaround for this problem, it is to use the file name prefix \texttt{split:}. In that case files are split into files of 1 GB by default. An example database URL is:\texttt{jdbc:h2:split:~/test}. 

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Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 49891
The maximum number of rows per table is 2,147,483,648.

The larger the database, the more main memory is required. With the version 1.1 storage mechanism, the minimum main memory required for a 12 GB database was around 240 MB. With the current page store, the minimum main memory required is much lower, around 1 MB for each 8 GB database file size.

Limit on the complexity of SQL statements. Statements of the following form will result in a stack overflow exception:

- There is no limit for the following entities, except the memory and storage capacity: maximum identifier length (table name, column name, and so on); maximum number of tables, columns, indexes, triggers, and other database objects; maximum statement length, number of parameters per statement, tables per statement, expressions in order by, group by, having, and so on; maximum rows per query; maximum columns per table, columns per index, indexes per table, lob columns per table, and so on; maximum row length, index row length, select row length; maximum length of a varchar column, decimal column, literal in a statement.

For limitations on data types, see the documentation of the respective Java data type or the data type documentation of this database.

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AES-128</td>
<td>A block encryption algorithm. See also: <a href="http://en.wikipedia.org/wiki/Advanced_Encryption_Standard">Wikipedia: AES</a></td>
</tr>
<tr>
<td>Birthday Paradox</td>
<td>Describes the higher than expected probability that two persons in a room have the same birthday. Also valid for randomly generated UUIDs. See also: <a href="http://en.wikipedia.org/wiki/Birthday_paradox">Wikipedia: Birthday Paradox</a></td>
</tr>
<tr>
<td>Digest</td>
<td>Protocol to protect a password (but not to protect data). See also: <a href="http://www.faqs.org/rfcs/rfc2617.html">RFC 2617: HTTP Digest Access Authentication</a></td>
</tr>
<tr>
<td>GCJ</td>
<td>Compiler for Java. <a href="http://gcc.gnu.org/java">GNU Compiler for the Java</a> and <a href="http://www.dobysoft.com/products/nativej">NativeJ (commercial)</a></td>
</tr>
<tr>
<td>HTTPS</td>
<td>A protocol to provide security to HTTP connections. See also: <a href="http://www.ietf.org/rfc/rfc2818.txt">RFC 2818: HTTP Over TLS</a></td>
</tr>
<tr>
<td>Salt</td>
<td>Random number to increase the security of passwords. See also: <a href="http://en.wikipedia.org/wiki/Key_deriavation_function">Wikipedia: Key derivation function</a></td>
</tr>
<tr>
<td>SHA-256</td>
<td>A cryptographic one-way hash function. See also: <a href="http://en.wikipedia.org/wiki/SHA_family">Wikipedia: SHA hash functions</a></td>
</tr>
<tr>
<td>SQL Injection</td>
<td>A security vulnerability where an application embeds SQL statements or expressions in user input. See also: <a href="http://en.wikipedia.org/wiki/SQL_injection">Wikipedia: SQL Injection</a></td>
</tr>
<tr>
<td>Watermark Attack</td>
<td>Security problem of certain encryption programs where the existence of certain data can be proven without decrypting. For more information, search in the internet for 'watermark attack cryptoloop'</td>
</tr>
</tbody>
</table>
advanced_1385_td=SSL/TLS
advanced_1387_td=XTEA
advanced_1388_td=A block encryption algorithm. See also:\ <a href="http://en.wikipedia.org/wiki/XTEA">Wikipedia\: XTEA</a>
build_1000_h1=Build
build_1001_a=\ Portability
build_1002_a=\ Environment
build_1003_a=\ Building the Software
build_1004_a=\ Build Targets
build_1005_a=\ Using Maven 2
build_1006_a=\ Translating
build_1007_a=\ Providing Patches
build_1008_a=\ Reporting Problems or Requests
build_1009_a=\ Automated Build
build_1010_a=\ Generating Railroad Diagrams
build_1011_h2=Portability
build_1012_p=\ This database is written in Java and therefore works on many platforms. It can also be compiled to a native executable using GCJ.
build_1013_p=\ For Java 1.4, the jar file needs to be converted first using \<a href="http://retrotranslator.sourceforge.net">Retrotranslator</a>.
build_1014_h2=Environment
build_1015_p=\ To run this database, a Java Runtime Environment (JRE) version 1.5 or higher is required.
build_1016_p=\ To create the database executables, the following software stack was used. To use this database, it is not required to install this software however.
build_1017_li=Mac OS X and Windows XP
build_1018_a=Sun JDK Version 1.5 and 1.6
build_1019_a=Eclipse Version 3.4
build_1021_a=Emma Java Code Coverage
build_1022_a=Mozilla Firefox
build_1023_a=OpenOffice
build_1024_a=NSIS 2.38
build_1025_li=(Nullsoft Scriptable Install System)
build_1026_a=Maven
build_1027_h2=Building the Software
build_1028_p=\ You need to install a JDK, for example the Sun JDK version 1.5 or 1.6. Ensure that Java binary directory is included in the \<code>PATH</code> environment variable, and that the environment variable \<code>JAVA_HOME</code> points to your Java installation. On the command line, go to the directory \<code>h2</code> and execute the following command:\
build_1029_p=\ For Linux and OS X, use \<code>/build.sh</code> instead of \<code>build</code>.
build_1030_p=\ You will get a list of targets. If you want to build the \<code>jar</code> file, execute (Windows):\ build_1031_p=\ To run the build tool in shell mode, use the command line option \<code>-</code> as in \<code>/build.sh -</code>.
build_1032_h3=Switching the Source Code
By default the source code uses Java 1.6 features, however Java 1.5 is supported as well. To switch the source code to the installed version of Java, run:

```
By default the source code uses Java 1.6 features, however Java 1.5 is supported as well. To switch the source code to the installed version of Java, run:
```

The build system can generate smaller jar files as well. The following targets are currently supported:

```
jarClient
```
creates the file `<code>h2client.jar</code>`. This only contains the JDBC client.

```
jarSmall
```
creates the file `<code>h2small.jar</code>`. This only contains the embedded database. Debug information is disabled.

```
jarJaqu
```
creates the file `<code>h2jaqu.jar</code>`. This only contains the JaQu (Java Query) implementation. All other jar files do not include JaQu.

```
javadocImpl
```
creates the Javadocs of the implementation.

To create the file `<code>h2client.jar</code>`, go to the directory `<code>h2</code>` and execute the following command:

```
To create the file `<code>h2client.jar</code>`, go to the directory `<code>h2</code>` and execute the following command:
```

You can include the database in your Maven 2 project as a dependency. Example:

```
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```

New versions of this database are first uploaded to http://hsql.sourceforge.net/m2-repo/ and then automatically synchronized with the main Maven repository; however after a new release it may take a few hours before they are available there.

```
To build a `<code>h2-*-SNAPSHOT.jar</code>` file and upload it the to the local Maven 2 repository, execute the following command:
```

```
Afterwards, you can include the database in your Maven 2 project as a dependency:
```

To translate the H2 Console, start it and select Preferences / Translate. After you are done, send the translated `<code>*.prop</code>` file to the Google Group. The web site is currently translated using Google.

If you like to provide patches, please consider the following guidelines to simplify merging them:

```
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```

Only use Java 1.5 features (do not use Java 1.6) (see `<a href="#environment">Environment</a>`).

Follow the coding style used in the project, and use Checkstyle (see above) to verify. For example, do not use tabs (use spaces instead). The checkstyle configuration is in `<code>src/installer/checkstyle.xml</code>`.

A template of the Eclipse settings are in `<code>src/installer/eclipse.settings/*</code>`. If you want to use them, you need to copy them to the `<code>.settings</code>` directory. The formatting options (e.g., `<code>eclipseCodeStyle</code>`) are also included.

Please provide test cases and integrate them into the test suite. For Java level tests, see `<code>src/test/org/h2/test/TestAll.java</code>`. For SQL level tests, see `<code>src/test/org/h2/test/TestSimple.in.txt</code>` or `<code>src/test/org/h2/test/test.in.txt</code>`. The test cases should cover at least 90% of the changed and new code; use a code coverage tool to verify that (see above). or use the build target `<code>coverage</code>`.

Verify that you did not break other features: run the test cases by executing `<code>build test</code>`.
Provide end user documentation if required (<code>src/docsrc/html/*</code>),
Run <code>src/installer/buildRelease</code> to find and fix formatting errors.
Verify the formatting using <code>build docs</code> and <code>build javadoc</code>.
Submit patches as <code>.patch</code> files (compressed if big). To create a patch using Eclipse, use Team / Create Patch.
For legal reasons, patches need to be public in the form of an email to the <a href="http://groups.google.com/group/h2-database">group</a>, or in the form of an <a href="http://code.google.com/p/h2database/issues/list">issue report or attachment</a>. Significant contributions need to include the following statement:
"I wrote the code, it's mine, and I'm contributing it to H2 for distribution multiple-licensed under the H2 License, version 1.0, and under the Eclipse Public License, version 1.0 (http://h2database.com/html/license.html)."
Please consider the following checklist if you have a question, want to report a problem, or if you have a feature request:
Feature requests are always welcome, even if the feature is already on the <a href="roadmap.html">roadmap</a>. Your mail will help prioritize feature requests. If you urgently need a feature, consider <a href="#providing_patches">providing a patch</a>.
Before posting problems, check the <a href="faq.html">FAQ</a> and do a <a href="http://google.com">Google search</a>. When got an unexpected exception, please try the <a href="sourceError.html">Error Analyzer tool</a>. If this doesn't help, please report the problem, including the complete error message and stack trace, and the root cause stack trace(s).
When sending source code, please use a public web clipboard such as <a href="http://pastebin.com">Pastebin</a>, <a href="http://cl1p.net">Cl1p</a>, or <a href="http://www.mysticpaste.com/new">Mystic Paste</a> to avoid formatting problems. Please keep test cases as simple and short as possible, but so that the problem can still be reproduced. As a template, use: <a href="http://h2database.googlecode.com/svn/trunk/h2/src/test/org/h2/samples/HelloWorld.java">HelloWorld.java</a>. Method that simply call other methods should be avoided, as well as unnecessary exception handling. Please use the JDBC API and no external tools or libraries. The test should include all required initialization code, and should be started with the main method.
For large attachments, use a public temporary storage such as <a href="http://rapidshare.com">Rapidshare</a>. Google Group versus issue tracking: Use the <a href="http://groups.google.com/group/h2-database">Google Group</a> for questions or if you are not sure it's a bug. If you are sure it's a bug, you can create an <a href="http://code.google.com/p/h2database/issues/list">issue</a>, but you don't need to (sending an email to the group is enough). Please note that only few people monitor the issue tracking system.
For out-of-memory problems, please analyze the problem yourself first, for example using the command line option <code>-XX:+HeapDumpOnOutOfMemoryError</code> and a memory analysis tool such as the <a href="http://www.eclipse.org/mat">Eclipse Memory Analyzer (MAT)</a>. It may take a few days to get an answers. Please do not double post.
Automated Build
This build process is automated and runs regularly. The build process includes running the tests and code coverage, using the command line <code>/build.sh clean jar coverage -Dh2.ftpPassword=...</code>
The last results are available here:

- Test Output
- Code Coverage Summary
- Code Coverage Details (download, 1.3 MB)
- Build Newsfeed
- Latest Jar File (download, 1 MB)

The railroad diagrams are HTML, formatted as nested tables. The diagrams are generated as follows:

- The BNF parser (<code>org.h2.bnf.Bnf</code>) reads and parses the BNF from the file <code>help.csv</code>.
- The page parser (<code>org.h2.server.web.PageParser</code>) reads the template HTML file and fills in the diagrams.

To generate railroad diagrams for other grammars, see the package <code>org.h2.jcr</code>. This package is used to generate the SQL-2 railroad diagrams for the JCR 2.0 specification.

Change Log

- Version 1.2.140 (2010-07-25)
  - The default MAX_LOG_SIZE is now 16 MB instead of 2 MB. Some uses cases are 3 times faster now.
  - Improved cache memory usage calculation.
  - Only resources that are actually used are loaded in memory. This can reduce the memory usage by about 400 KB.
  - Profiling: the jar file can now be installed as an agent using java -javaagent:h2*.jar - this was be used to more accurately calculate the memory footprint of the cache. It has no effect when using H2 (using this feature in an application is not needed and not recommended).
  - The cache was not used efficiently when reading (behaving like a FIFO cache instead of an LRU cache).
  - Storinglobs in the database has been changed. It is now faster. Unfortunately, the change is not backward compatible; if you have used h2.lobInDatabase before you will need to re-build the database.
  - SHUTDOWN COMPACT is now faster.
  - H2 Console: requesting the status did not always show the window on top of others.
  - H2 Console: on some system, the browser windows got opened when requesting a new one.
  - The built-in profiling tool now uses a default stack depth of 32 elements and a default interval of 10 ms.
  - Database files now grows in 1 MB blocks (and at least 20% at a time), instead of always 256 KB. This speeds up loading a new database.
  - H2 Console: new built-in command @sleep to help profile another session.
  - For improved performance, LOG=0 and LOG=1 are again supported. LOG=0 means the transaction log is disabled completely (fastest; for loading a database). LOG=1 means the transaction log is enabled, but FileDescriptor.sync is disabled (if no protection against power failure is required). LOG=2 is the default (transaction log is enabled, FileDescriptor.sync for each checkpoint).
  - After deleting a lot of data (for example by dropping or altering tables, or indexes, or after a large transaction), opening a large database was very slow. Fixed.
  - When killing the process after creating and dropping many tables (specially temporary tables),
the database could not be opened sometimes.

changelog_1019_li=CAST(NULL AS ...) doesn't forget the data type, precision, and scale any longer.

changelog_1020_li=Experimental support for recursive queries (see 'Advanced' - 'Recursive Queries' for details).

changelog_1021_li=Problems with JDK 1.6.0_18 have been reported in the class StringUtils.quoteRemarkSQL. This method is now changed.

changelog_1022_li=The "small jar" distribution did not include the CompressTool, which was required for some operations. Fixed.

changelog_1023_li=The build tool now supports (minimalistic) shell mode, started using ./build.sh -

changelog_1024_li=IS NULL comparison with nested queries and linked tables did not work. Example: select *
from (select x from test) where x is null.

changelog_1025_li=Support for null-safe equals. This includes the ANSI SQL standard syntax A IS [NOT] DISTINCT FROM B as well as the shorter A IS [NOT] B.

changelog_1026_li=Primary key violations threw a strange exception message when using a single column INT or BIGINT key.

changelog_1027_li=EXPLAIN ANALYZE now also lists the number of pages read from the file.

changelog_1028_li=Memory mapped files: There was a bug in version 1.2.139 so that memory mapped files could only be used together with split, for example: split:nioMapped: - the problem is now solved. It is still a good idea to use split:nioMapped: to work around the 2 GB limitation of memory mapped files.

changelog_1029_li=Memory mapped files: the system property h2.nioCleanerHack is now disabled by default because it was not always working as expected. Now System.gc() is used in a loop until the buffer is garbage collected. This of course is also not a nice solution, but the only one known to work. See also http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=4724038

changelog_1030_li=Bugfixes for the automatic 1.1 db migration.

changelog_1031_li=If an old 1.1 database file version is found on connect, it is now possible to let the old h2 classes (v 1.2.128) connect to the database. The automatic upgrade .jar file must be present, and the url must contain NO_UPGRADE=TRUE

changelog_1032_li=The automatic upgrade temporary script file is now encrypted.

changelog_1033_li=Version 1.2.139 (2010-07-10)

changelog_1034_li=There was a bug in the internal IntIntHashMap. There were no known side effects however.

changelog_1035_li=ANALYZE now uses less memory.

changelog_1036_li=Memory mapped file system: improved error messages if there is a problem.

changelog_1037_li=The Lucene fulltext search did not work well when using special file systems such as split or nioMapped.

changelog_1038_li=The memory mapped file system (nioMapped: file prefix) couldn't seek past the file length.

changelog_1039_li=Some file system operations did not work with stacked file systems (for example split and nioMapped). This also affected the DeleteDbFiles tool.

changelog_1040_li=New experimental query cache. The cache is only used if the SQL statement and all parameters match. Each session has its own cache with the given size. Only the last returned result per query is cached. Only SELECT statements are cached (excluding UNION and FOR UPDATE statements). This works for both statements and prepared statement. To enable, set the system property h2.commandCacheSize to a value larger than 0. There is currently no plan to enable this option by default in future versions.

changelog_1041_li=Conditions with many OR operations could throw an UnsupportedOperationException if h2.optimizeOr was enabled.

changelog_1042_li=XA connection: after transaction commit or rollback, the physical connection is set into autocommit mode.

changelog_1043_li=MULTI_THREADED did not work correctly and could throw the exception "try to add a record twice" for larger databases because cache access was not correctly synchronized.

changelog_1044_li=Automatic database upgrade from non page store is now possible. If the classes from the
The MultiDimension tools was extended with a few helper methods. The API was unified a bit.

**ODBC**: MS Access could not link to a table with unique index or primary key. To solve this problem, index meta data is currently disabled for ODBC. When using the new H2 version to access a database over ODBC, the PostgreSQL catalog is automatically upgraded. Using a database with an upgraded PostgreSQL catalog with an older version of H2 is still possible, but not over ODBC.

**ODBC**: MS Access could not link to a table with a name containing '_'.

**ODBC**: additional connection settings can now be added to the database name. Example: ~/test;cipher=xtea. Therefore, encrypted databases are supported.

Local temporary tables can now be created without having to commit a transaction using CREATE LOCAL TEMPORARY TABLE TEMP(ID INT PRIMARY KEY) TRANSACTIONAL.

New system property h2.dropRestrict (default false) to change the default action for DROP TABLE and DROP VIEW (false for CASCADE, true for RESTRICT). The plan is to enable this property by default in version 1.3.x.

DROP TABLE now also supports CASCADE (still the default) and RESTRICT.

The wrong exception was thrown when trying to connect to a server if the server was not running.

UNION queries where the first query contains a nested query were parsed incorrectly. Example: "select 1 from (select 2 from dual) union select 3 from dual" was parsed as "select 1 from ((select 2 from dual) union select 3 from dual)". Fixed.

Support ALTER SCHEMA name RENAME TO newName (rename schema). (patch from Kerry Sainsbury)

The benchmarks have been run using recent database versions.

Version 1.2.137 could still not be converted to Java 1.4 (because the Retrotranslator doesn't support BigDecimal.precision).

Cluster: non-admin users could not connect when one of the cluster node was stopped. Issue 206.

DROP VIEW now supports the CASCADE and RESTRICT clauses (patch from Kerry Sainsbury)

CREATE VIEW now supports the OR REPLACE clause (patch from Kerry Sainsbury)

Build tool: ability to only run one test using the -Dtest=className setting. eg: build -Dtest=org.h2.test.db.TestViewDropView test (patch from Kerry Sainsbury).
changelog_1067_h2=Version 1.2.137 (2010-06-06)
changelog_1068_li=Statements with a nested query and a condition that was always NULL threw an IndexOutOfBoundsException. Example: select * from (select null as x) where x=1
changelog_1069_li=The changes that were made to support large transactions also fixed a bug with large transactions (when the undo log file size is larger than 2 GB).
changelog_1070_li=Experimental feature to support very large transactions (except when using MVCC). To enable, set the system property h2.largeTransactions to true. If enabled, changes to tables without a primary key can be buffered to disk. The plan is to enable this feature by default in version 1.3.x.
changelog_1071_li=H2 Console: editing result sets is now also working for database other than H2, if they do support updatable result sets. Add "@edit" before the query. Only limited testing has been done on this feature, some data types may not work (please provide feedback if you find issues).
changelog_1072_li=Cluster: an open transaction was committed when a cluster node was stopped (because disabling the cluster executes SET CLUSTER ", which committed the transaction). Transaction are no longer committed when calling SET CLUSTER. Issue 199.
changelog_1073_li=Cluster: non-admin users couldn't connect to the cluster and couldn't disable the cluster. Issue 201.
changelog_1074_li=Cluster: NEXTVAL('sequence') was only called on one cluster node, therefore sequence values could get out of sync.
changelog_1075_li=Version 1.2.136 could not be converted to Java 1.4 (because the Retrotranslator doesn't support BigDecimal.precision). A workaround has been implemented.
changelog_1076_li=The error code of IO exceptions in CSV functions was incorrect.
changelog_1077_li=The TriggerPassData example now uses a prefix (the database name).
changelog_1078_li=The wrong exception was thrown when trying to reference a table that doesn't support references such as a table in the information schema.
changelog_1079_li=Server.shutdownTcpServer can now stop all TCP servers on this JVM.
changelog_1080_li=JdbcConnectionPool: the default connection timeout is now 30 seconds (it used to be 5 minutes).
changelog_1081_li=LOB storage: LOBs added with "h2.lobInDatabase" enabled couldn't be read later with this option disabled.
changelog_1082_h2=Version 1.2.136 (2010-05-24)
changelog_1083_li=When using ORDER BY and there are both ascending and descending indexes, the database used the first index even when the second one could be used for sorting.
changelog_1084_li=Conditions of the form columnName IS NULL now use an index. To disable this feature, set the system property h2.optimizeIsNull to false.
changelog_1085_li=H2 Console: when the settings were not stored yet (for example when running for the first time), the last recently used settings were not stored. A workaround was to create the file ".h2.server.properties" manually in the current user home directory, with the contents:
webAllowOthers=false, webPort=8082, webSSL=false, 0=Generic H2 (Embedded)|org.h2.Driver\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\\n
changelog_1086_li=The source code is now switched to Java 6 (JDK 1.6) by default. Java 5 (JDK 1.5) is still supported, and the jar file is still compiled for Java 5.
changelog_1087_li=The BOM (the byte-order-mark) character 0xFEFF at the beginning of the file is ignored. This is for compatibility with Microsoft Excel.
changelog_1088_li=When opening an existing database, the cache size is set to at most half the amount of memory available for the virtual machine (Runtime.getRuntime().maxMemory()), even if the cache size setting stored in the database is larger. Setting the cache size in the database URL or explicitly using SET CACHE_SIZE overrides this value (even if larger than the physical memory).
changelog_1089_li=INFORMATION_SCHEMA.SETTINGS: the cache size is now returned in KB.
changelog_1090_li=New system property h2.selectForUpdateMvcc, the default is false (the feature is disabled).

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When enabled, SELECT ... FOR UPDATE only locks the selected rows in the MVCC mode. Aggregate or GROUP BY queries are not allowed in this case.

c changelog_1091_li=Profiler\: improved message if there was no stack trace.
c changelog_1092_li=The H2 Console can now be used within another application, in a frame or iframe. Issue 197.
c changelog_1093_li=Recover tool\: the statistics section now includes page type counts again.
c changelog_1094_li=Queries with multiple IN(...\) conditions sometimes return the wrong results when there was a multi-column index for the column.
c changelog_1095_li=Queries with IN(..., NULL\) did sometimes return the wrong results when there was a index for the column.
c changelog_1096_li=DECIMAL\: faster precision and memory usage calculations.
c changelog_1097_li=A new class org.h2.tools.TriggerAdapter allows to use the ResultSet interface within trigger implementations.
c changelog_1098_li=A subselect which used an index could lead to wrong results. Fixed.
c changelog_1099_li=Creating a cached temporary non persistent table with a primary key threw a NullPointerException.
c changelog_1100_h2=Version 1.2.135 (2010-05-08)
c changelog_1101_li=Temporary files were not deleted when using large transactions, disabling autocommit, and closing the session without committing.
c changelog_1102_li=Queries using multiple IN(\.) conditions on the same table could cause repeated rows in the result set.
c changelog_1103_li=Translation\: Lubomir Grajciar translated the H2 Console as well as all error message to Slovensky. Thanks a lot!
c changelog_1104_li=There was a possible Java level deadlock when opening an uninitialized database and using a file system that also opened a database.
c changelog_1105_li=When killing the process while the database was writing a checkpoint, while it was closing, or while running recovery (while removing temporary tables from a previous run), the database could become corrupt. A new test case has been implemented to ensure such problems can not occur in the future.
c changelog_1106_li=File system\: new method FileSystem.setReadOnly.
c changelog_1107_li=The page size for new databases can now be set in the database URL using ;PAGE_SIZE=512. Currently this feature is only used to simplify testing.
c changelog_1108_li=New system property h2.functionsInSchema (default is false). If enabled, the SCRIPT statement always includes the schema name in the CREATE ALIAS statement (even if the schema is PUBLIC). This is not backward compatible with H2 versions 1.2.134 and older.
c changelog_1109_li=Functions\: it is no longer required to add a space after a comma in the parameter list. Example:\ CREATE ALIAS PARSE_INT FOR "java.lang.Integer.parseInt(java.lang.String,int)"
c changelog_1110_li=Functions now reside within a schema, similar to sequences. If you do create such functions in schemas other than PUBLIC, then the database can not be opened with older versions of H2.
c changelog_1111_li=Cluster\: after a cluster node failed, the second cluster node can now be re-created and started without having to stop the first cluster node, and without having to stop running applications. To do that, append ;AUTO_RECONNECT=TRUE to the database URL.
c changelog_1112_li=Auto-reconnect\: if another connection uses the database in exclusive mode then this connection will try to re-connect until the exclusive mode ends. This is important when using the cluster mode.
c changelog_1113_li=SET EXCLUSIVE now supports 0 (disable), 1 (enable), and 2 (enable and close all other connections).
c changelog_1114_li=Installing the H2 as a service should now work on Windows 7. The batch files now explicitly set the directory using pushd "%~dp0".
c changelog_1115_li=Temporary tables can now be 'cached', that means indexes of temporary tables can be persisted. This enables very large temporary tables (both local and global).
changelog_1116_li=The CreateCluster tool now sets the source database in exclusive mode before copying data to the new database.
changelog_1117_li=The H2 Console now stream results one statement / result set at a time (using chunked transfer encoding). To disable, set the system property h2.consoleStream to false. This feature is not supported when using a servlet container.
changelog_1118_li=The H2 Console did not call the CreateCluster tool with the correctly escaped parameters.
changelog_1119_li=Improved PostgreSQL compatibility for ALTER TABLE ALTER COLUMN.
changelog_1120_li=Commas at the end of INSERT ... VALUES (), (), are now supported.
changelog_1121_li=The H2 Console "Start Browser" button now works even when the IP address changes while the tool runs (for example, because a wireless connection breaks, or when enabling / disabling the network connection).
changelog_1122_li=When casting from float or double to BigDecimal, the result was sometimes unexpected, because "new BigDecimal(double val)" was used. Now "BigDecimal.valueOf(double val)" and "new BigDecimal(Float.toString(f))" are used. But it is still not recommended to use float or double for currency values (see data type documentation).
changelog_1123_li=Global temporary tables are now deleted when closing the database. Before, they were deleted when opening the database the next time.
changelog_1124_li=UNIQUE was not listed as a keyword.
changelog_1125_li=Improved error message when an non-SQL-exception occurred in a user defined function. The method name and parameters are included in the error message.
changelog_1126_li=For some queries, the exception did not include the SQL statement. Example:\ select x from system_range(1, 2) group by 'a'.
changelog_1127_li=The Shell tool will execute SQL statements passed as using the command line parameter -sql. 
changelog_1128_li=If InetAddress.getLocalHost() fails, the database should now throw an exception.
changelog_1129_li=New columns INFORMATION_SCHEMA.INDEXES.INDEX_CLASS and INFORMATION_SCHEMA.TABLES.TABLE_CLASS.
changelog_1130_li=INFORMATION_SCHEMA.INDEXES.SQL now contains the CREATE INDEX statement instead of just the fully qualified index name.
changelog_1131_li=Version 1.2.134 (2010-04-23)
changelog_1132_li=New system property h2.analyzeAuto (default 0 meaning disabled) to automatically run ANALYZE after that many changes to a table. For details, see the Javadoc of this system property. The plan is to set this property to 2000 in version 1.3.x.
changelog_1133_li=JdbcXAConnection.start() does not support TMJOIN. Issue 189.
changelog_1134_li=MySQL compatibility:\ TIMESTAMPDIFF is now an alias for DATEDIFF.
changelog_1135_li=MERGE did not respect foreign key and check constraints.
changelog_1136_li=ALTER TABLE ALTER COLUMN:\ changing the data type of a column no longer makes it nullable.
changelog_1137_li=When using AUTO_SERVER=TRUE, the server is now started as a daemon thread. This was a problem when using Tomcat and a connection pool.
changelog_1138_li=Servers can now be started as a daemon thread using the command line options -tcpDaemon, -pgDaemon, and -webDaemon.
changelog_1139_li=H2 Console:\ the built-in commands are now documented.
changelog_1140_li=REPLACE:\ if any parameter is null, the result is null.
changelog_1141_li=Queries with DISTINCT and ORDER BY will now use the index on ORDER BY if possible. This is specially important for queries used inside IN(SELECT ...).
changelog_1142_li=The new statement EXPLAIN ANALYZE executes the statement, and displays the query plan with the actual row scan count for each table.
changelog_1143_li=H2 Console:\ the auto-complete feature didn't quote column names that need quoting. Issue 186.
The experimental LOB storage mechanism now supports all features of the old one. To use it, set the system property "h2.lobInDatabase" to "true". If you have used this feature in version 1.2.133, you need to export and re-import the database using SCRIPT / RUNSCRIPT.

The functions isBeforeFirst() and isAfterLast() were not compliant to the JDBC spec. If the ResultSet contains no rows, they must return false. Fixed.

Filesystem parameters like "split:\" didn't work in server mode with baseDir set.

If baseDir is set, and a database name is given which points to a directory outside the baseDir (eg. "./dbname"), an exception is thrown.

A new experimental LOB storage mechanism is available. When enabled, CLOB and BLOB data is stored in hidden tables in the database. To use it, set the system property "h2.lobInDatabase" to "true". Compression is not yet implemented. Duplicate objects are only stored once. Usually writing is slower, but reading is faster (mainly because of caching).

The Shell tool threw a NumberFormatException on an empty statement.

The h2small-* .jar did not support "drop all objects delete files". Now it is supported (the DeleteDbFiles tool is now included).

Operations that don't fit in memory are now faster. Temporary file handling was changed.

The default maximum log stream size is now 2 MB. This is a good value according to some performance tests.

New system property "h2.syncMethod" to configure what method to call when closing the database, on checkpoint, and on CHECKPOINT SYNC. The default is "sync" which calls RandomAccessFile.getFD().sync().

ROWNUM could not be used for pagination. The follow query returned no rows:\ select x from (select *, rownum as r from system_range(1, 3)) where r=2;

Workaround for a java.sql.Date issue: years above 9999 are not formatted correctly. When calling ResultSet.getString() on a date value, an alternative formatting algorithm is used.

Prepared statements with nested subqueries did not always return the correct result. Example:\ select ?, ?, (select count(*) from test t, (select id from test where 0=?) t2 where t2.id=t.id) from test

When using MULTI_THREADED=TRUE, the exception following exception could be thrown: "object already exists: TABLES"

Comparison of integer columns against float numbers was not always correct. Issue 182.

Editing the result of a multi-line queries failed. Issue 183.

If the settings file (.h2.properties) can't be accessed, the exception is now ignored.

The implementation of a Java to C (source code level) converter has been started. The plan is: it should be possible to convert H2 (or a part of it) to C so that the database can be run without a JVM. This will be a long term project (it may take a year or so).

User defined table implementation can now be used using CREATE TABLE ... ENGINE. Thanks to Sergi Vladykin for implementing this feature!

Improved MS SQL Server compatibility: support string concatenation using "+" . Thanks to Stepan for the patch!

When using the multi-threaded mode, running ANALYZE concurrently in multiple connections could throw an exception.

The MERGE statement is now about 30% faster when using a PreparedStatement.

Multi-column indexes where the second or later column was descending did not always produce correct results (rows were missing in the result set, or the result set was empty).

When using large transactions or a small log size, the database could get very slow (profiling shows the hotspot is in FileObjectDisk.sync()).
The Shell tool now prints the stack trace when the list mode is enabled.

Compilation was incorrect if the source code contained characters that are not supported by the default file encoding.

the JdbcDataSource now also supports a 'description' property.
The Shell tool threw a ArrayIndexOutOfBoundsException after 20 statements.
When using the small version of H2 ('jarClient'), the first call to Connection.createBlob (or similar) could throw a ClassNotfoundException because the file org.h2.store.fs.FileSystemZip is not included. This missing class is now ignored.

Literals of type BIGINT now have the correct data type.

Older versions of H2 (version 1.2.127 and older) could not connect to a new version (version 1.2.129 and newer). The connection blocked when trying to connect. Now the connection no longer blocks, instead a SQL exception is thrown.

In versions 1.2.129 and 1.2.130, a database could not be opened sometimes after dropping tables or indexes, and then creating new indexes for existing tables. The exception contained the text "parent not found" (version 1.2.129) or "Table not found" (version 1.2.130).

After the database was closed, a null pointer exception could occur in Database.flush.
An ArrayIndexOutOfBoundsException could occur in the page store (eg. on "delete from table"). Fixed.

EXPLAIN: The query plan now contains ".tableScan" if a table scan is used.
IN(..): when combining and IN(..) condition with a condition that didn't use an index, the result could contain duplicate rows.
IN(..): the index was not used if there were multiple IN(..) conditions.

For foreign key constraints, the metadata column
INFORMATION_SCHEMA.INDEXESCONSTRAINT_NAME was not set for non-unique indexes.
PostgreSQL compatibility: when using the following exception was thrown: Column "T.TYPTYPMOD" not found. Fixed. This is only when using psqlodbc_08_04*.
A tool to migrate an old database from the non-page store format to the newest version has been added in src/tools/org/h2/dev/util/Migrate.java. This file is not included in the jar file currently.
When using temporary tables, the database didn't shrink sometimes when closing. Also, sometimes a database could not recover normally.
Large transactions could run out of heap space. The maximum size of a transaction is now much larger.
The default setting for the system property h2.webMaxValueLength is now 100000 (it was 10000 before).
Creating a database was delayed about 2 seconds if the directory didn't exist.
Implement the INIT feature. If the database URL contains ";INIT=...;" then the DDL or DML commands following are executed on startup. Example URL: jdbc:h2:mem:test;INIT=RUNSCRIPT FROM '~/create.sql' (patch from Kerry Sainsbury).

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longer time, and was not tested.
 changelog_1199_li=The file system abstraction no longer throws SQL exceptions.
 changelog_1200_li=DatabaseEventListener.diskSpaceIsLow has changed.
 changelog_1201_li=The CompressTool no longer throw as SQL exceptions. Instead, it throws runtime exceptions.
 changelog_1202_li=SimpleResultSet.addColumn and addRow now can throw a IllegalStateException instead of a
 SQLException.
 changelog_1203_li=When doing an index lookup, decimal values with the same value but different scale (for
 example 0.00 and 0.0) where not considered equal in version 1.2.128. Now they are (unlike BigDecimal.equals()).
 changelog_1204_li=The BNF parser now uses the visitor pattern.
 changelog_1205_li=Converting a UUID to bytes was incorrect. Because of that, updatable result sets on tables with
 UUID primary key did not work.
 changelog_1206_li=The database URL property DATABASE_EVENT_LISTENER_OBJECT is no longer
 supported (there are problems passing objects when the PostgreSQL driver is installed as well).
 changelog_1207_li=H2 Console\: asynchronous login (using a DatabaseEventListener) is no longer supported.
 changelog_1208_li=A workaround for a Windows socket problem has been implemented. Thanks a lot to Sergi
 Vladykin.
 changelog_1209_li=The Recover tool did not convert correctly convert CLOB data with non-ASCII characters.
 changelog_1210_li=Tools\: the method run(String... args) has been renamed to runTool(String... args).
 changelog_1211_li=Server.startWebServer(Connection) was not working as expected.
 changelog_1212_li=The database URL option ACCESS_MODE_LOG is no longer supported.
 changelog_1213_li=The database URL option RECOVER has currently no effect.
 changelog_1214_li=Converting an old (non-page store) database is no longer supported using this version.
 changelog_1215_li=The following system properties are no longer supported\: h2.overflowExceptions, h2.optimizeDropDependencies, h2.optimizeGroupSorted, h2.optimizeMinMax, h2.optimizeNot, h2.optimizeIn, h2.optimizeInJoin, h2.reuseSpace*. Most of them were there for a long time, but always with the same value. There
 was no unit test with the other value. So changing them was potentially dangerous (not a lot, but still).
 changelog_1216_li=The setting LOG has currently no effect (it only had an effect when the page store was
 disabled).
 changelog_1217_li=Disabling the page store is no longer supported. The old storage mechanism has been removed, shrinking the jar file size by almost 10%.
 changelog_1218_li=The translated resources are now stored in UTF-8 format.
 changelog_1219_li=The Windows service wrapper now detects if multiple versions of H2 are installed.
 changelog_1220_h2=Version 1.2.128 (2010-01-30)
 changelog_1221_li=There are known errors on rollback when the page store is disabled and at the same time MVCC
 is used. See http://code.google.com/p/h2database/issues/detail?id=158
 changelog_1222_li=The DeleteDbFiles tool deleted all files in the .lob.db directory, even files that didn't belong to
 the database.
 changelog_1223_li=Automatic conversion of old databases to the page store format failed if the database contained
 LOB files.
 changelog_1224_li=Nested subqueries didn't work for INSERT INTO and IN(\dots). Example\: insert into test ((select
 1));
 changelog_1225_li=If the database was already closed using SHUTDOWN IMMEDIATELY, closing a second
 connection could throw a NullPointerException if there was a local temporary table.
 changelog_1226_li=Less classes are loaded when using the database in embedded mode.
 changelog_1227_li=The information schema tables are only initialized when needed. This reduces memory usage
 and speeds up creating in-memory databases. Each in-memory database needs about 8 KB of heap memory.
 changelog_1228_li=Nested UNION/INTERSECT queries with brackets could produce the wrong result if used
 within a subquery. Example\: select count(*) from (select 1 union (select 2 intersect select 2)) x;
Comparing a column against a constant expression with a higher precision or length than the column could give wrong results (the expression was truncated before comparing).

Improved PostgreSQL compatibility (support SHOW DEFAULT_TRANSACTION_ISOLATION).

The javadocs for Csv.write and read used the wrong default charset.

If the table was locked in exclusive mode (such as SELECT ... FOR UPDATE), another session could query the table. This is now longer possible.

If a FOR UPDATE query was executed twice (using a PreparedStatement), the table was not locked.

INSTEAD OF triggers are now supported. Such triggers can be defined on views.

If set to false, identifiers in SQL statements are case sensitive even if they are not quoted.

Slightly improved performance if the table is already locked.

CompressLZF: faster decompression.

The wrong size was sent for VARCHAR data. Thanks again to Sergi Vladykin for the patch.

New system property h2.identifiersToUpper. If set to false, identifiers in SQL statements are case sensitive even if they are not quoted.

If the table is already locked.

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If the table is already locked.

CompressLZF: faster decompression.

The wrong size was sent for VARCHAR data. Thanks again to Sergi Vladykin for the patch.
changelog_1260_li=Trying to open a database in read-only mode when a .lock.db file exists will now fail with a nice error message.
changelog_1261_li=H2 Console\: data that is too long is now abbreviated as follows\: text... (100000 characters). A large binary is abbreviated as follows\: abedef... (100000 bytes).
changelog_1262_li=Faster data conversion from BIGINT or INT to DECIMAL.
changelog_1263_li=Server-less multi-connection mode\: try to delete log files if switching between read/write operations.
changelog_1264_li=CompressLZF\: Faster decompress and improved javadocs
changelog_1265_h2=Version 1.2.126 (2009-12-18)
changelog_1266_li=The ChangeFileEncryption tool will now fail with an exception if the database is still in use.
The Backup tool will also fail except when running in quiet mode.
changelog_1267_li=CSVREAD\: when reading the column names from the CSV file, column names that contain no special characters are considered case insensitive now.
changelog_1268_li=Optimization index conditions of the form 'column\=NULL' (which is always false; unlike 'column IS NULL').
changelog_1269_li=Script command and tool\: the primary key constraint is now listed before inserting the data. This will result in a smaller database when using the page store.
changelog_1270_li=Statements with IN\(\text{SELECT}\)\: conditions could produce the wrong result. Example\: index on id, name; query\: select * from test where id between 1 and 3 and name in (select 'World').
changelog_1271_li=Statements with IN\(\ldots\)\: conditions could produce the wrong result when using views or nested select statements. Example\: index on id; index on name; query\: select * from (select * from test) where id=1 and name in('a', 'b'). select * from (select * from test) where id=1 and name in('Hello', 'World').
changelog_1272_li=Page store\: a rollback of a relatively large transaction could fail with an ArrayIndexOutOfBoundsException or a 'row not found' exception in the PageBtreeIndex in some cases.
changelog_1273_li=JaQu\: the decompiler has been improved, and a few test cases already work. It is still incomplete however.
changelog_1274_li=LIKE\: any letter is now allowed after the escape character (which is still \(\backslash \) by default). Previously, an exception was thrown (unlike other databases) if it was not the escape character, \(\_ \) or \(\% \). If the escape character appears at the end of the pattern, the result is it is ignored (like PostgreSQL and MS SQL Server).
changelog_1275_li=The reserve heap memory is no longer used.
changelog_1276_li=Database.checkpoint() could throw a NullPointerException.
changelog_1277_h2=Version 1.2.125 (2009-12-06)
changelog_1278_li=Lucene fulltext search\: the Lucene field names now match the table column names, except if the column names start with \_ (in which case another \_ is prepended). Unfortunately this change means existing fulltext indexes need to be re-built.
changelog_1279_li=The shell tool now has a very simple statement history.
changelog_1280_li=The zip file system implementation now supports the \ '~/' home directory prefix. Example database URL\: jdbc:h2:zip:\ '~/test.zip'\!/test
changelog_1281_li=Right outer joins on tables that were already 'inner joined' was processed incorrectly.
changelog_1282_li=Temporary files from LOB objects were not deleted early enough when using the server mode.
changelog_1283_li=Trying to alter a temporary table threw a strange exception. It is still not possible to do that, but the exception message is better now.
changelog_1284_li=When the system property h2.maxMemoryRowsDistinct was set, and using SELECT DISTINCT, the temporary table was not correctly dropped. This could cause problems in recovery when the process was killed.
changelog_1285_li=Trigger that are called before a select statement are now supported. This allows to create tables that work like materialized views.
changelog_1286_li=Non-row based triggers were called even if the action didn't match the declared action (INSERT
triggers were also called when deleting rows). This has been changed. The MERGE statement calls both INSERT and DELETE triggers.

changelog_1287_li=Statements with IN(...) conditions could produce the wrong result or a data conversion error (since version 1.2.120). Examples: index on id, name, condition: id=1 and name in('Hello', 'x'); index on id, query: select * from (select * from test) where id=1 and name in('Hello', 'World').

changelog_1288_li=The CompressTool was not multithreading safe. Because of this, the following database operations where also not multithreading safe (even when using different databases): the SCRIPT command (only when using compression), the COMPRESS function, and storing CLOB or BLOB data (only when compression is enabled).

changelog_1289_li=The compression algorithm "LZF" is now about 33% faster than before when compressing small block (around 2 KB). It is much faster than Deflate, but the compression ratio is lower. Some of the optimizations are from Sam Van Oort, thanks a lot!

changelog_1290_li=Compressing large blocks of data didn't work when using the "Deflate" compression algorithm. Compressing a lot of data could run out of heap memory.

changelog_1291_li=The test cases don't access the file system directly, this simplifies GAE for Java testing. Thanks to Vince Bonfanti.

changelog_1292_li=More bugs in the server-less multi-connection mode have been fixed.

changelog_1293_li=When running against an old database, the SCRIPT statement could generate a SQL script that contained duplicate indexes (PRIMARY_KEY_E).

changelog_1294_li=JdbcConnectionPool.getConnection() could throw a NullPointerException.

changelog_1295_li=User defined functions: the source code is now available using SELECT SOURCE FROM INFORMATION_SCHEMA.FUNCTION_ALIASES.

changelog_1296_li=Compressing large blocks of data didn't work after re-opening the database.

changelog_1297_li=The newsfeeds are now Atom 1.0 standard compliant.

changelog_1298_li=The database is now closed after an out of memory exception, because the database could get corrupt otherwise.

changelog_1299_li=Better error message if both AUTO_SERVER and SERIALIZED parameters are set to TRUE.

changelog_1300_li=Drop table did not delete lob files in old file store (not PAGE_STORE).

changelog_1301_h2=Version 1.2.124 (2009-11-20)

changelog_1302_li=Clustering: there is now a way to detect which cluster instances are running.

changelog_1303_li=The file lock thread is now stopped when the database is closed.

changelog_1304_li=Issue 140: the Script tool now supports writing to a stream.

changelog_1305_li=Issue 138: the trace output of Statement.execute(String, int) and executeUpdate was incorrect.

changelog_1306_li=Page store: new databases can not be opened with older versions.

changelog_1307_li=Page store: multi-column indexes didn't work if the cache was very small.

changelog_1308_li=Page store: opening a database could theoretically result in an endless loop.

changelog_1309_li=Page store: adding large indexed columns could get very slow.

changelog_1310_li=Page store: after a duplicate key exception, an ArrayIndexOutOfBoundsException could be thrown (only for very large rows).

changelog_1311_li=Page store: the recover tool sometimes generated a script file that contained duplicate data.

changelog_1312_li=Page store: sometimes opening a read-only database failed.

changelog_1313_li=Page store: opening a database sometimes failed if large rows where updated, or if a table was truncated before.

changelog_1314_li=Page store: when using a very small page size (128 bytes or smaller), writing a large row could result in an endless recursion. This is only a theoretical problem, as the page size is 2 KB.

changelog_1315_li=Page store: getting the min value from a descending index with NULL entries could return the wrong result.
changelog_1317_li=Page store:\ improved auto-recovery after power failure.
changelog_1318_li=The JDBC client did not detect that it was not talking to an H2 server. This could result in
strange exceptions when trying to connect to another kind of server.
changelog_1319_li=User defined functions can be created with source code. Example:\ CREATE ALIAS HI AS 'String hi() { return "Hello"; }'
changelog_1320_li=Database file lock:\ the exception "lock file modified in the future" is no longer thrown; instead,
opening the file will be delayed by 2 seconds.
changelog_1321_li=Inserting LOBs got slower each time the process was restarted. It could loop endlessly after
about 1000 process restarts.
changelog_1322_li=Issue 117:\ Multi-version concurrency:\ concurrent MERGE statements now work.
changelog_1323_li=Improved read-only database detection.
changelog_1324_h2=Version 1.2.123 (2009-11-08)
changelog_1325_li=Page store:\ new databases can not be opened with older versions.
changelog_1326_li=Page store:\ updating large rows (rows with more than 2000 bytes of data) could corrupt the
database.
changelog_1327_li=Page store:\ inserting very large rows failed with ArrayIndexOutOfBoundsException.
changelog_1328_li=When using multi-threaded kernel mode, setting disabling locking (LOCK_MODE=0) will
now throw an exception. At this time this combination will result in corruption when multiple threads try to update
the same table.
changelog_1329_li=The fulltext search methods and fields are now protected instead of private, to make the classes
more easily extensible.
changelog_1330_li=The Lucene fulltext search now also returns the score.
changelog_1331_li=\ New function SCOPE_IDENTITY() to avoid problems when inserting rows in a trigger.
changelog_1332_li=Statement.getGeneratedKeys() returned the wrong value if a trigger changed the identity value
after inserting the row.
changelog_1333_li=Improved error messages:\ identifiers and values are now quoted.
changelog_1334_li=Improved error message when casting a value failed:\ the column name and type is included in
the message.
changelog_1335_li=Improved support for GAE for Java thanks to Vince Bonfanti.
changelog_1336_h2=Version 1.2.122 (2009-10-28)
changelog_1337_li=The native fulltext search now supports streaming CLOB data.
changelog_1338_li=If the database URL ends with ;PAGE_STORE=TRUE and a database in the old format exists,
it is automatically converted to the new page store format if possible. A backup of the database is created first.
Automatic conversion is not supported if the database was not closed normally (if it contains uncommitted
transactions).
changelog_1339_li=Dropping the current user is now allowed if another admin user exists.
changelog_1340_li=Values of type BINARY or BLOB could not be converted to the data type OTHER.
changelog_1341_li=SHUTDOWN COMPACT now fully compacts the database.
changelog_1342_li=New system properties h2.maxCompactCount and h2.maxCompactTime to allow changing the
default behavior (at most 2 seconds compacting when closing the database).
changelog_1343_li=New sorted insert optimization (see Performance / Database Performance Tuning).
changelog_1344_li=Issue 116:\ The files h2*-sources.jar and h2*-javadoc.jar are now in the Maven repository.
changelog_1345_li=Page store:\ opening a large database was slow if it was not closed before.
changelog_1346_li=Page store:\ new write and read counters in the meta data table. Use SELECT * FROM
INFORMATION_SCHEMA SETTINGS WHERE NAME IN ( 'info.FILE_WRITE_TOTAL', 'info.FILE_WRITE',
'info.FILE_READ', 'info.CACHE_MAX_SIZE', 'info.CACHE_SIZE')
changelog_1347_li=The SQL syntax is documented using (railroad) diagrams. The diagrams are HTML,
changelog_1348_li=The documentation is no longer available in Japanese because the translation was too much out
of sync. Please use the Google translation instead.

changelog_1349_li=Certain queries were not sorted if subselect queries were involved
changelog_1350_li=More bugs in the server-less multi-connection mode have been fixed: 90097 The database is
read only, caches must be cleared on reconnect, etc.
changelog_1351_h2=Version 1.2.121 (2009-10-11)
changelog_1352_li=Better support GaeVFS (Google App Engine Virtual File System) thanks to Thanks to Vince
Bonfanti.
changelog_1353_li=CSVREAD didn't close the file. Thanks to Vince Bonfanti for the patch!
changelog_1354_li=If a database in the old format exists, it is now used. The system property is used for new
databases, or if databases exist in both formats. In any case, the flag in the URL overrides this logic.
changelog_1355_li=Page store bugs were fixed. Large values in indexed columns could corrupt the index.
changelog_1356_li=The page store did not work when using Retrotranslator (because the Retrotranslator doesn't
support Integer.reverse and Long.reverse).
changelog_1357_li=New system property h2.pageStoreTrim to disable shrinking the database when closing
(disabled by default, meaning by default the database is trimmed).
changelog_1358_h2=Version 1.2.120 (2009-10-04)
changelog_1359_li=This is a beta version.
changelog_1360_li=Large updates could throw an ArrayIndexOutOfBoundsException in RowList.writeRow.
changelog_1361_li=In version 1.2, the following system properties are now enabled by default: h2.pageStore,
h2.nullConcatIsNull, h2.optimizeInList. The default value for h2.defaultMaxLengthInplaceLob is now 4096 (it was
1024 with version 1.1).
changelog_1362_li=New databases are now stored in the new 'page store' file format. Existing databases are kept in
the old file format. To use the old file format, append ;PAGE_STORE=FALSE to the database URL or set the
system property h2.pageStore to false.
changelog_1363_li=Issue 125: Renaming primary keys was not persistent. Fixed. Unfortunately, databases created
by this version can not be opened with older versions because of this change.
changelog_1364_li=Issue 124: Hibernate schema validation failed for decimal/numeric columns. This problem is
fixed in the Hibernate dialect that is included with H2 (src/tools/org/hibernate/dialect/H2Dialect.java.txt), but not in
Hibernate yet.
changelog_1365_li=PostgreSQL compatibility: function LASTVAL() as an alias for IDENTITY().
changelog_1366_li=Linked tables now support default values when inserting, updating or merging.
changelog_1367_li=Bugfixes in the page store.
changelog_1368_li=Possibility to set a vendor id in Constants.java, so that unofficial builds are distinguishable from
official releases.
changelog_1369_li=Allow writing to linked tables in readonly databases.
changelog_1370_h2=Version 1.1.119 (2009-09-26)
changelog_1371_li=SQL statements in the exception message are no longer included if they contain '--hide--'.
changelog_1372_li=Temporary local tables did not always work after reconnect if AUTO_SERVER=TRUE
changelog_1373_li=New system property h2.defaultMaxLengthInplaceLob to change the default maximum size of
an in-place LOB object.
changelog_1374_li=New system property h2.nullConcatIsNull to change the default null concatenation behavior.
The default will be enabled in version 1.2.
changelog_1375_li=The cache algorithm TQ is disabled in this version, because it is unstable, and because the
current implementation does not have any measurable advantages over the default.
changelog_1376_li=New committer: Christian Peter. He works for <a href="http://www.docware.com">Docware</a> and helped a lot finding and fixing bugs, and generally improving
the database. He is now a committer.
changelog_1377_li=ChangeFileEncryption did not work with Lob subdirectories. Fixed.
changelog_1378_li=Issue 121: JaQu: new simple update and merge methods.
changelog_1379_li=Issue 120: JaQu didn’t close result sets.
changelog_1380_li=Issue 119: JaQu creates wrong WHERE conditions on some inputs.
changelog_1381_li=The new page store mechanism is now alpha-level quality. The next release will most likely be "1.2.120 beta" where this mode is enabled by default. To use it right now, append ;PAGE_STORE=TRUE to the database URL. The file format of this mode will probably not change any more.
changelog_1382_li=SELECT COUNT(*) FROM SYSTEM_RANGE(...) returned the wrong result. Fixed.
changelog_1383_li=The Recover tool now also processes the log files, however applying those changes is still a manual process.
changelog_1384_li=New sample application that shows how to pass data to a trigger.
changelog_1385_li=More bugs in the server-less multi-connection mode have been fixed: On Windows, two processes could write to the same database at the same time.
changelog_1386_li=When loading triggers or other client classes (static functions, database event listener, user aggregate functions, other JDBC drivers), the database now uses the context class loader if the class could not be found using Class.forName().
changelog_1387_li=Updating many rows with the same CLOB or BLOB values could result in FileNotFoundException.
changelog_1388_li=Statement.getConnection() threw an exception if the connection was already closed.
changelog_1389_li=The native fulltext index kept a reference to a database after the database was closed.
changelog_1390_li=Non-unique in-memory hash indexes are now supported. Thanks a lot to Sergi Vladykin for the patch!
changelog_1391_li=The optimizer does a better job for joins if indexes are missing.
cheatSheet_1000_h1=H2 Database Engine Cheat Sheet
cheatSheet_1001_h2=Using H2
cheatSheet_1002_a=H2 is <a href="http://code.google.com/p/h2database/source">open source</a>, <a href="license.html">free to use and distribute</a>.
cheatSheet_1004_a=To start the <a href="quickstart.html#h2_console" class="link">H2 Console tool</a>, double click the jar file, or run <code>java -jar h2*.jar</code>, <code>h2.bat</code>, or <code>h2.sh</code>.
cheatSheet_1005_li=A new database is automatically created by default.
cheatSheet_1006_li=Closing the last connection closes the database.
cheatSheet_1007_a=Documentation:
cheatSheet_1008_a=Reference: <a href="grammar.html">SQL grammar</a>, <a href="functions.html">functions</a>, <a href="datatypes.html">data types</a>, <a href="tutorial.html#command_line_tools">tools</a>, <a href="../javadoc/index.html">API</a>.
cheatSheet_1009_a=Features:
cheatSheet_1010_a=Fulltext search, encryption, read-only, database in zip, CSV.
cheatSheet_1011_a=API.
cheatSheet_1012_a=Documentation.
cheatSheet_1013_ps\ Reference: <a href="grammar.html">SQL grammar</a>, <a href="functions.html">functions</a>, <a href="datatypes.html">data types</a>, <a href="tutorial.html#fulltext">fulltext search</a>, <a href="features.html#file_encryption">encryption</a>, <a href="features.html#read_only">read-only</a>, <a href="features.html#database_in_zip">database in zip</a>, <a href="features.html#csv">CSV</a>, <a href="features.html#auto_reconnect">auto-reconnect</a>. 

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reconnect</a>, <a href="features.html#triggers" class="link">triggers</a>, <a href="features.html#user_defined_functions" class="link">user functions</a></p>

**cheatSheet_1016_a=Database URLs**

- **cheatSheet_1017_a=Embedded**
  - **cheatSheet_1018_code=jdbc:h2:~/test**
  - \`test\` in the user home directory
- **cheatSheet_1019_p=\`test\` in the directory/data**
- **cheatSheet_1021_code=jdbc:h2:test**
  - \`test\` in the current(\!) working directory
- **cheatSheet_1024_a=In-Memory**
  - **cheatSheet_1025_code=jdbc:h2:mem\test**
  - **cheatSheet_1026_p=multiple connections in one process**
- **cheatSheet_1028_p=\unnamed private; one connection**
- **cheatSheet_1029_a=Server Mode**
  - **cheatSheet_1030_code=jdbc:h2:tcp://localhost/~/test**
  - **cheatSheet_1031_p=user home dir**
  - **cheatSheet_1032_code=jdbc:h2:tcp://localhost//data/test**
  - **cheatSheet_1033_p=absolute dir**
- **cheatSheet_1034_a=Server start**
  - **cheatSheet_1035_p=<code>java -cp *.jar org.h2.tools.Server</code>**
- **cheatSheet_1036_a=Settings**
  - **cheatSheet_1037_code=jdbc:h2:..;MODE=MySQL**
  - **cheatSheet_1038_a=compatibility (or HSQLDB,...)**
  - **cheatSheet_1039_code=jdbc:h2:..;TRACE_LEVEL_FILE\=3**
  - **cheatSheet_1040_a=log to *.trace.db**
- **cheatSheet_1041_a=Using the JDBC API**
- **cheatSheet_1042_a=Connection Pool**
- **cheatSheet_1043_a=Maven 2**
- **cheatSheet_1044_a=Hibernate**
  - **cheatSheet_1045_p=\hibernate.cfg.xml (or use the HSQLDialect):\c**
- **cheatSheet_1046_a=TopLink and Glassfish**
  - **cheatSheet_1047_p=\Datasource class:\c\org.h2.jdbcx.JdbcDataSource</code>**
- **cheatSheet_1048_code=oracle.toplink.essentials.platform.**
- **cheatSheet_1049_code=database.H2Platform**

**download_1000_h1=Downloads**

- **download_1001_h3=Version 1.2.140 (2010-07-25)**
- **download_1002_a=Windows Installer**
- **download_1003_a=Platform-Independent Zip**
- **download_1004_h3=Version 1.2.139 (2010-07-10, Last Stable)**
- **download_1005_a=Windows Installer**
- **download_1006_a=Platform-Independent Zip**
- **download_1007_h3=Download Mirror and Older Versions**
- **download_1008_a=Platform-Independent Zip**
- **download_1009_h3=Jar File**
- **download_1010_a=Maven.org**
- **download_1011_a=Sourceforge.net**
download_1012_a=Latest Automated Build (not released)
download_1013_h3=Database Upgrade Helper Files
download_1014_a=Upgrade database from 1.1 to the current version
download_1015_h3=Subversion Source Repository
download_1016_a=Google Code
download_1017_p=\F For details about changes, see the <a href="changelog.html">Change Log</a>.
download_1018_h3=News and Project Information
download_1019_a=Atom Feed
download_1020_a=RSS Feed
download_1021_a=DOAP File
download_1022_p=\ (<a href="http://trac.usefulinc.com/doap">what is this</a>)
faq_1000_h1= Frequently Asked Questions
faq_1001_a=\ I Have a Problem or Feature Request
faq_1002_a=\ Are there Known Bugs? When is the Next Release?
faq_1003_a=\ Is this Database Engine Open Source?
faq_1004_a=\ My Query is Slow
faq_1005_a=\ How to Create a New Database?
faq_1006_a=\ How to Connect to a Database?
faq_1007_a=\ Where are the Database Files Stored?
faq_1008_a=\ What is the Size Limit (Maximum Size) of a Database?
faq_1009_a=\ Is it Reliable?
faq_1010_a=\ Why is Opening my Database Slow?
faq_1011_a=\ Column Names are Incorrect?
faq_1012_a=\ Float is Double?
faq_1013_a=\ Is the GCJ Version Stable? Faster?
faq_1014_a=\ How to Translate this Project?
faq_1015_h3= I Have a Problem or Feature Request
faq_1016_p=\ Please read the <a href="build.html#support">support checklist</a>.
faq_1017_h3= Are there Known Bugs? When is the Next Release?
faq_1018_p=\ Usually, bugs get fixes as they are found. There is a release every few weeks. Here is the list of
known and confirmed issues:
faq_1020_li=Tomcat and Glassfish 3 set most static fields (final or non-final) to <code>null</code> when
unloading a web application. This can cause a <code>NullPointerException</code> in H2 versions 1.1.107 and
older, and may still not work in newer versions. Please report it if you run into this issue. In Tomcat &gt;= 6.0 this
behavior can be disabled by setting the system property
<code>org.apache.catalina.loader.WebappClassLoader.ENABLE_CLEAR_REFERENCES</code>=false</code>, however
Tomcat may then run out of memory. A known workaround is to put the <code>h2*.jar</code> file in a shared
<code>lib</code> directory (<code>common/lib</code>).
faq_1021_li=Some problems have been found with right outer join. Internally, it is converted to left outer join,
which does not always produce the same results as other databases when used in combination with other joins.
faq_1022_li=When using Install4j before 4.1.4 on Linux and enabling <code>pack200</code>, the
<code>h2*.jar</code> becomes corrupted by the install process, causing application failure. A workaround is to add
an empty file <code>h2*.jar.nopack</code> next to the <code>h2*.jar</code> file. This problem is solved in
Install4j 4.1.4.
faq_1023_p=\ For a complete list, see <a href="http://code.google.com/p/h2database/issues/list">Open Issues</a>.
faq_1024_h3=Is this Database Engine Open Source?
faq_1025_p=Yes. It is free to use and distribute, and the source code is included. See also under license.
faq_1026_h3=My Query is Slow
faq_1027_p=Slow <code>SELECT</code> (or <code>DELETE, UPDATE, MERGE</code>) statement can have multiple reasons. Follow this checklist:
faq_1028_li=Run <code>ANALYZE</code> (see documentation for details).
faq_1029_li=Run the query with <code>EXPLAIN</code> and check if indexes are used (see documentation for details).
faq_1030_li=If required, create additional indexes and try again using <code>ANALYZE</code> and <code>EXPLAIN</code>.
faq_1031_li=If it doesn't help please report the problem.
faq_1032_h3=How to Create a New Database?
faq_1033_p=By default, a new database is automatically created if it does not yet exist. See <a href="tutorial.html#creating_new_databases">Creating New Databases</a>.
faq_1034_h3=How to Connect to a Database?
faq_1035_p=The database driver is <code>org.h2.Driver</code>, and the database URL starts with <code>jdbc:h2:</code>. To connect to a database using JDBC, use the following code:
faq_1036_h3=Where are the Database Files Stored?
faq_1037_p=When using database URLs like <code>jdbc:h2:</code>, the database is stored in the user directory. For Windows, this is usually <code>C:\Documents and Settings\&lt;userName&gt;</code>. If the base directory is not set (as in <code>jdbc:h2:~/test</code>), the database files are stored in the directory where the application is started (the current working directory). When using the H2 Console application from the start menu, this is <code>&lt;Installation Directory&gt;/bin</code>. The base directory can be set in the database URL. A fixed or relative path can be used. When using the URL <code>jdbc:h2:file:~/test</code>, the database is stored in the directory <code>data</code> (relative to the current working directory). The directory is created automatically if it does not yet exist. It is also possible to use the fully qualified directory name (and for Windows, drive name). Example: <code>jdbc:h2:file:C:/data/test</code>
faq_1038_h3=What is the Size Limit (Maximum Size) of a Database?
faq_1039_p=See <a href="advanced.html#limits_limitations">Limits and Limitations</a>.
faq_1040_h3=Is it Reliable?
faq_1041_p=That is not easy to say. It is still a quite new product. A lot of tests have been written, and the code coverage of these tests is very high. Randomized stress tests are run regularly. But there are probably still bugs that have not yet been found (as with most software). Some features are known to be dangerous, they are only supported for situations where performance is more important than reliability. Those dangerous features are:
faq_1042_li=Disabling the transaction log or FileDescriptor.sync() using LOG\=0 or LOG\=1.
faq_1043_li=Using the transaction isolation level <code>READ_UNCOMMITTED</code> (<code>LOCK_MODE 0</code>) while at the same time using multiple connections.
faq_1044_li=Disabling database file protection using (setting <code>FILE_LOCK</code> to <code>NO</code> in the database URL).
faq_1045_li=Disabling referential integrity using <code>SET REFERENTIAL_INTEGRITY FALSE</code>.
faq_1046_p=In addition to that, running out of memory should be avoided. In older versions, OutOfMemory errors while using the database could corrupt a databases.
faq_1047_p=This database is well tested using automated test cases. The tests run every night and run for more than one hour. But not all areas of this database are equally well tested. When using one of the following features for production, please ensure your use case is well tested (if possible with automated test cases). The areas that are not well tested are:
faq_1048_li=Platforms other than Windows XP, Linux, Mac OS X, or JVMs other than Sun 1.5 or 1.6
faq_1049_li=The features <code>AUTO_SERVER</code> and <code>AUTO_RECONNECT</code>
faq_1050_li=The file locking method 'Serialized'
faq_1051_li=Cluster mode, 2-phase commit, savepoints
faq_1052_li=24/7 operation
faq_1053_li=Fulltext search
faq_1054_li=Operations on LOBs over 2 GB
faq_1055_li=Some operations on databases larger than 500 MB may be slower than expected
faq_1056_li=The optimizer may not always select the best plan
faq_1057_p=\ Areas considered experimental are:
faq_1058_li=The PostgreSQL server
faq_1059_li=Multi-threading within the engine using <code>SET MULTI_THREADED=1</code>
faq_1060_li=Compatibility modes for other databases (only some features are implemented)
faq_1061_li=The soft reference cache (CACHE_TYPE=SOFT_LRU). It might not improve performance, and out of memory issues have been reported.
faq_1062_p=\ Some users have reported that after a power failure, the database cannot be opened sometimes. In this case, use a backup of the database or the Recover tool. Please report such problems. The plan is that the database automatically recovers in all situations.
faq_1063_h3=Column Names are Incorrect?
faq_1064_p=\ For the query <code>SELECT ID AS X FROM TEST</code> the method <code>ResultSetMetaData.getColumnName()</code> returns <code>ID</code>, I expect it to return <code>X</code>. What's wrong?
faq_1065_p=\ This is not a bug. According the the JDBC specification, the method <code>ResultSetMetaData.getColumnName()</code> should return the name of the column and not the alias name. If you need the alias name, use <a href="http://java.sun.com/javase/6/docs/api/java/sql/ResultSetMetaData.html#getColumnLabel(int)"> <code>ResultSetMetaData.getColumnLabel()</code> </a>. Some other database don't work like this yet (they don't follow the JDBC specification). If you need compatibility with those databases, use the <a href="features.html#compatibility">Compatibility Mode</a>, or set the system property <a href="../javadoc/org/h2/constant/SysProperties.html#h2.aliasColumnName"> <code>h2.aliasColumnName</code> </a>.
faq_1066_p=\ This also applies to DatabaseMetaData calls that return a result set. The columns in the JDBC API are column labels, not column names.
faq_1067_h3=Float is Double?
faq_1068_p=\ For a table defined as <code>CREATE TABLE TEST(X FLOAT)</code> the method <code>ResultSet.getObject()</code> returns a <code>java.lang.Double</code>, I expect it to return a <code>java.lang.Float</code>. What's wrong?
faq_1069_p=\ This is not a bug. According the the JDBC specification, the JDBC data type <code>FLOAT</code> is equivalent to <code>DOUBLE</code>, and both are mapped to <code>java.lang.Double</code>. See also <a href="http://java.sun.com/j2se/1.5.0/docs/guide/jdbcstart/mapping.html#1055162"> Mapping SQL and Java Types - 8.3.10 FLOAT</a>.
faq_1070_h3=Why is Opening my Database Slow?
faq_1071_p=\ To find out what the problem is, use the H2 Console and click on "Test Connection" instead of "Login". After the "Login Successful" appears, click on it (it's a link). This will list the top stack traces. Then either analyze this yourself, or post those stack traces in the Google Group.
faq_1072_p=\ Other possible reasons are:\ the database is very big (many GB), or contains linked tables that are slow to open.
faq_1073_h3=Is the GCJ Version Stable? Faster?
faq_1074_p=\ The GCJ version is not as stable as the Java version. When running the regression test with the GCJ version, sometimes the application just stops at what seems to be a random point without error message. Currently,
the GCJ version is also slower than when using the Sun VM. However, the startup of the GCJ version is faster than when using a VM.

faq_1075_h3=How to Translate this Project?
faq_1076_p=For more information, see &lt;a href="build.html#translating">Build/Translating</a>.

features_1000_h1=Features
features_1001_a=Feature List
features_1002_a=Comparison to Other Database Engines
features_1003_a=H2 in Use
features_1004_a=Connection Modes
features_1005_a=Database URL Overview
features_1006_a=Connecting to an Embedded (Local) Database
features_1007_a=In-Memory Databases
features_1008_a=Database Files Encryption
features_1009_a=Database File Locking
features_1010_a=Opening a Database Only if it Already Exists
features_1011_a=Closing a Database
features_1012_a=Ignore Unknown Settings
features_1013_a=Changing Other Settings when Opening a Connection
features_1014_a=Custom File Access Mode
features_1015_a=Multiple Connections
features_1016_a=Database File Layout
features_1017_a=Logging and Recovery
features_1018_a=Compatibility
features_1019_a=Auto-Reconnect
features_1020_a=Automatic Mixed Mode
features_1021_a=Page Size
features_1022_a=Using the Trace Options
features_1023_a=Using Other Logging APIs
features_1024_a=Read Only Databases
features_1025_a=Read Only Databases in Zip or Jar File
features_1026_a=Graceful Handling of Low Disk Space Situations
features_1027_a=Computed Columns / Function Based Index
features_1028_a=Multi-Dimensional Indexes
features_1029_a=Using Passwords
features_1030_a=User-Defined Functions and Stored Procedures
features_1031_a=Triggers
features_1032_a=Compacting a Database
features_1033_a=Cache Settings
features_1034_h2=Feature List
features_1035_h3=Main Features
features_1036_li=Very fast database engine
features_1037_li=Open source
features_1038_li=Written in Java
features_1039_li=Supports standard SQL, JDBC API
features_1040_li=Embedded and Server mode, Clustering support
features_1041_li=Strong security features
features_1042_li=The PostgreSQL ODBC driver can be used
features_1043_li=Multi version concurrency
features_1044_h3=Additional Features
features_1045_li=Disk based or in-memory databases and tables, read-only database support, temporary tables
features_1046_li=Transaction support (read committed and serializable transaction isolation), 2-phase-commit
features_1047_li=Multiple connections, table level locking
features_1048_li=Cost based optimizer, using a genetic algorithm for complex queries, zero-administration
features_1049_li=Scrollable and updatable result set support, large result set, external result sorting, functions can return a result set
features_1050_li=Encrypted database (AES or XTEA), SHA-256 password encryption, encryption functions, SSL
features_1051_h3=SQL Support
features_1052_li=Support for multiple schemas, information schema
features_1053_li=Referential integrity / foreign key constraints with cascade, check constraints
features_1054_li=Inner and outer joins, subqueries, read only views and inline views
features_1055_li=Triggers and Java functions / stored procedures
features_1056_li=Many built-in functions, including XML and lossless data compression
features_1057_li=Wide range of data types including large objects (BLOB/CLOB) and arrays
features_1058_li=Sequence and autoincrement columns, computed columns (can be used for function based indexes)
features_1059_code=ORDER BY, GROUP BY, HAVING, UNION, LIMIT, TOP
features_1060_li=Collation support, users, roles
features_1061_li=Compatibility modes for IBM DB2, Apache Derby, HSQLDB, MS SQL Server, MySQL, Oracle, and PostgreSQL.
features_1062_h3=Security Features
features_1063_li=Includes a solution for the SQL injection problem
features_1064_li=User password authentication uses SHA-256 and salt
features_1065_li=For server mode connections, user passwords are never transmitted in plain text over the network (even when using insecure connections; this only applies to the TCP server and not to the H2 Console however; it also doesn't apply if you set the password in the database URL)
features_1066_li=All database files (including script files that can be used to backup data) can be encrypted using AES-128 and XTEA encryption algorithms
features_1067_li=The remote JDBC driver supports TCP/IP connections over SSL/TLS
features_1068_li=The built-in web server supports connections over SSL/TLS
features_1069_li=Passwords can be sent to the database using char arrays instead of Strings
features_1070_h3=Other Features and Tools
features_1071_li=Small footprint (smaller than 1 MB), low memory requirements
features_1072_li=Multiple index types (b-tree, tree, hash)
features_1073_li=Support for multi-dimensional indexes
features_1074_li=CSV (comma separated values) file support
features_1075_li=Support for linked tables, and a built-in virtual 'range' table
features_1076_code=EXPLAIN PLAN
features_1077_li=support, sophisticated trace options
features_1078_li=Database closing can be delayed or disabled to improve the performance
features_1079_li=Web-based Console application (translated to many languages) with autocomplete
features_1080_li=The database can generate SQL script files
features_1081_li=Contains a recovery tool that can dump the contents of the database
features_1082_li=Support for variables (for example to calculate running totals)
features_1083_li=Automatic re-compilation of prepared statements
features_1084_li=Uses a small number of database files
features_1085_li=Uses a checksum for each record and log entry for data integrity
<table>
<thead>
<tr>
<th>Feature</th>
<th>H2</th>
<th>Derby</th>
<th>HSQLDB</th>
<th>MySQL</th>
<th>PostgreSQL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure Java</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Embedded Mode (Java)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>Performance (Embedded)</td>
<td>Fast</td>
<td>Fast</td>
<td>Slow</td>
<td>Fast</td>
<td>N/A</td>
</tr>
<tr>
<td>In-Memory Mode</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>Explain Plan</td>
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<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Built-in Clustering / Replication</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
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</tr>
<tr>
<td>Encrypted Database</td>
<td>Yes</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes *10</td>
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<td>Yes *10</td>
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<td>Feature</td>
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<tr>
<td>Linked Tables</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>ODBC Driver</td>
<td>Yes</td>
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<tr>
<td>Fulltext Search</td>
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<tr>
<td>User-Defined Datatypes</td>
<td>Yes</td>
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<tr>
<td>Files per Database</td>
<td>Few</td>
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<tr>
<td>Row Level Locking</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>Multi Version Concurrency</td>
<td>Yes</td>
<td>No</td>
<td>*9</td>
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<tr>
<td>Multi-Threaded Statement Processing</td>
<td>Yes</td>
<td>No</td>
<td>*11</td>
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features_1230_td=Yes
features_1231_td=Yes *6
features_1232_td=Custom Aggregate Functions
features_1233_td=Yes
features_1234_td=No
features_1235_td=Yes
features_1236_td=Yes
features_1237_td=Yes
features_1238_td=Footprint (jar/dll size)
features_1239_td=~1 MB *5
features_1240_td=~2 MB
features_1241_td=~1 MB
features_1242_td=~4 MB
features_1243_td=~6 MB
features_1244_p= *1 HSQLDB supports text tables.
features_1245_p= *2 MySQL supports linked MySQL tables under the name ‘federated tables’.
features_1246_p= *3 Derby support for roles based security and password checking as an option.
features_1247_p= *4 Derby only supports global temporary tables.
features_1248_p= *5 The default H2 jar file contains debug information, jar files for other databases do not.
features_1249_p= *6 PostgreSQL supports functional indexes.
features_1250_p= *7 Derby only supports updatable result sets if the query is not sorted.
features_1251_p= *8 Derby doesn’t support standard compliant information schema tables.
features_1252_p= *9 When using MVCC (multi version concurrency).
features_1254_p= *11 The MULTI_THREADED option is not enabled by default, and not yet supported when using MVCC.
features_1255_h3=DaffodilDb and One$Db
features_1256_p= It looks like the development of this database has stopped. The last release was February 2006.
features_1257_h3=McKoi
features_1258_p= It looks like the development of this database has stopped. The last release was August 2004.
features_1259_h2=H2 in Use
features_1260_p= For a list of applications that work with or use H2, see: <a href="links.html">Links</a>.
features_1261_h2=Connection Modes
features_1262_p= The following connection modes are supported:
features_1263_li=Embedded mode (local connections using JDBC)
features_1264_li=Server mode (remote connections using JDBC or ODBC over TCP/IP)
features_1265_li=Mixed mode (local and remote connections at the same time)
features_1266_h3=Embedded Mode
features_1267_p= In embedded mode, an application opens a database from within the same JVM using JDBC. This is the fastest and easiest connection mode. The disadvantage is that a database may only be open in one virtual machine (and class loader) at any time. As in all modes, both persistent and in-memory databases are supported. There is no limit on the number of database open concurrently, or on the number of open connections.
features_1268_h3=Server Mode
features_1269_p= When using the server mode (sometimes called remote mode or client/server mode), an application opens a database remotely using the JDBC or ODBC API. A server needs to be started within the same or another virtual machine, or on another computer. Many applications can connect to the same database at the same
time, by connecting to this server. Internally, the server process opens the database(s) in embedded mode.

The server mode is slower than the embedded mode, because all data is transferred over TCP/IP. As in all modes, both persistent and in-memory databases are supported. There is no limit on the number of database open concurrently per server, or on the number of open connections.

### Mixed Mode

The mixed mode is a combination of the embedded and the server mode. The first application that connects to a database does that in embedded mode, but also starts a server so that other applications (running in different processes or virtual machines) can concurrently access the same data. The local connections are as fast as if the database is used in just the embedded mode, while the remote connections are a bit slower.

The server can be started and stopped from within the application (using the server API), or automatically (automatic mixed mode). When using the automatic mixed mode, all clients that want to connect to the database (no matter if it’s an local or remote connection) can do so using the exact same database URL.

### Database URL Overview

This database supports multiple connection modes and connection settings. This is achieved using different database URLs. Settings in the URLs are not case sensitive.

<table>
<thead>
<tr>
<th>Topic</th>
<th>URL Format and Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Embedded (local)</td>
<td>jdbc:h2:[file:]&lt;&gt;&amp;lt;path&amp;gt;&lt;databaseName&amp;gt;</td>
</tr>
<tr>
<td>In-memory (private)</td>
<td>jdbc:h2:mem:&lt;&gt;&amp;lt;databaseName&amp;gt;</td>
</tr>
<tr>
<td>In-memory (named)</td>
<td>jdbc:h2:mem:&lt;databaseName&gt;</td>
</tr>
<tr>
<td>Server mode (remote connections)</td>
<td>jdbc:h2:tcp://&lt;server&gt;:&lt;port&gt;/&lt;path&gt;&lt;databaseName&gt;</td>
</tr>
<tr>
<td>Server mode (remote connections)</td>
<td>using SSL/TLS</td>
</tr>
<tr>
<td>Using encrypted files</td>
<td>jdbc:h2:&lt;url&gt;;CIPHER=[AES</td>
</tr>
<tr>
<td>File locking methods</td>
<td>jdbc:h2:&lt;url&gt;;FILE_LOCK={FILE</td>
</tr>
<tr>
<td>Only open if it already exists</td>
<td>jdbc:h2:&lt;url&gt;;IFEXISTS=TRUE</td>
</tr>
<tr>
<td>Don't close the database when the VM exits</td>
<td>jdbc:h2:&lt;url&gt;;IFEXISTS=TRUE</td>
</tr>
</tbody>
</table>
Connecting to an Embedded (Local) Database

The database URL for connecting to a local database is \( \text{jdbc:h2:file:}[]\{\text{path}\}\{\text{databaseName}\} \). The prefix \( \text{jdbc:h2:} \) is optional. If no or only a relative path is used, then the current working directory is used as a starting point. The case sensitivity of the path and database name depend on the operating system, however it is recommended to use lowercase letters only. The database name must be at least three characters long (a limitation of \( \text{File.createTempFile} \)). To point to the user home directory, use \( \text{jdbc:h2:}~/\text{test} \). Opening two connections within the same virtual machine means opening two different (private) databases.

In-Memory Databases

For certain use cases (for example: rapid prototyping, testing, high performance operations, read-only databases), it may not be required to persist data, or persist changes to the data. This database supports the in-memory mode, where the data is not persisted.

In some cases, only one connection to an in-memory database is required. This means the database to be opened is private. In this case, the database URL is \( \text{jdbc:h2:mem:\{database\}} \). Opening two connections within the same virtual machine means opening two different (private) databases.

Sometimes multiple connections to the same in-memory database are required. In this case, the database URL must include a name. Example: \( \text{jdbc:h2:mem:db1} \). Accessing the same database
In-memory can be accessed remotely (or from multiple processes in the same machine) using TCP/IP or SSL/TLS. An example database URL is: <code>jdbc:h2:tcp://localhost/mem:db1</code>. By default, closing the last connection to a database closes the database. For an in-memory database, this means the content is lost. To keep the database open, add <code>;DB_CLOSE_DELAY=-1</code> to the database URL. To keep the content of an in-memory database as long as the virtual machine is alive, use <code>jdbc:h2:mem:test;DB_CLOSE_DELAY=-1</code>.

The database files can be encrypted. Two encryption algorithms are supported: AES and XTEA. To use file encryption, you need to specify the encryption algorithm (the ‘cipher’) and the file password (in addition to the user password) when connecting to the database.

By default, closing the last connection to a database closes the database. For an in-memory database, this means the content is lost. To keep the database open, add <code>;DB_CLOSE_DELAY=-1</code> to the database URL. To keep the content of an in-memory database as long as the virtual machine is alive, use <code>jdbc:h2:mem:test;DB_CLOSE_DELAY=-1</code>.

The database files can be encrypted. Two encryption algorithms are supported: AES and XTEA. To use file encryption, you need to specify the encryption algorithm (the ‘cipher’) and the file password (in addition to the user password) when connecting to the database.

By default, a new database is automatically created if it does not exist yet. To create an encrypted database, connect to it as it would already exist.

By default, when an application calls <code>DriverManager.getConnection(url, ...)</code> and the database specified in the URL does not yet exist, a new (empty) database is created. In some situations, it is better to restrict creating new databases, and only allow to open existing databases. To do this, add <code>;IFEXISTS=TRUE</code> to the database URL. In this case, if the database does not already exist, an exception is thrown when trying to connect. The connection only succeeds when the database already exists. The

For more information about the algorithms, see <a href="advanced.html#file_locking_protocols">Advanced / File Locking Protocols</a>.

**Closing a Database**

Usually, a database is closed when the last connection to it is closed. In some situations this slows down the application, for example when it is not possible to keep at least one connection open. The automatic closing of a database can be delayed or disabled with the SQL statement `<code>SET DB_CLOSE_DELAY &lt;seconds&gt;</code>. The parameter &lt;seconds&gt; specifies the number of seconds to keep a database open after the last connection to it was closed. The following statement will keep a database open for 10 seconds after the last connection was closed:

```sql
dbc:h2://~/test;DB_CLOSE_DELAY=10
```

The value -1 means the database is not closed automatically. The value 0 is the default and means the database is closed when the last connection is closed. This setting is persistent and can be set by an administrator only. It is possible to set the value in the database URL:

```sql
dbc:h2://~/test;DB_CLOSE_DELAY=10
```

**Don't Close a Database when the VM Exits**

By default, a database is closed when the last connection is closed. However, if it is never closed, the database is closed when the virtual machine exits normally, using a shutdown hook. In some situations, the database should not be closed in this case, for example because the database is still used at virtual machine shutdown (to store the shutdown process in the database for example). For those cases, the automatic closing of the database can be disabled in the database URL. The first connection (the one that is opening the database) needs to set the option in the database URL (it is not possible to change the setting afterwards). The database URL to disable database closing on exit is:

```sql
dbc:h2://~/test;DB_CLOSE_DELAY=-1
```

**Execute SQL on Connection**

Sometimes, particularly for in-memory databases, it is useful to be able to execute DDL or DML commands automatically when a client connects to a database. This functionality is enabled via the INIT property. Note that multiple commands may be passed to INIT, but the semicolon delimiter must be escaped, as in the example below.

```sql
dbc:h2://~/test;INIT=CREATE DATABASE test FREE SPACE 100MB
```

**Ignore Unknown Settings**

Some applications (for example OpenOffice.org Base) pass some additional parameters when connecting to the database. Why those parameters are passed is unknown. The parameters `<code>PREFERDOSLIKELINEENDS</code>` and `<code>IGNOREDRIVERPRIVILEGES</code>` are such examples; they are simply ignored to improve the compatibility with OpenOffice.org. If an application passes other parameters when connecting to the database, usually the database throws an exception saying the parameter is not supported. It is possible to ignored such parameters by adding `<code>;IGNORE_UNKNOWN_SETTINGS=TRUE</code>` to the database URL.

**Changing Other Settings when Opening a Connection**

In addition to the settings already described, other database settings can be passed in the database URL. Adding `<code>;setting=value</code>` at the end of a database URL is the same as executing the statement `<code>SET setting value</code>` just after connecting. For a list of supported settings, see `<a href="grammar.html">SQL Grammar</a>`.

**Custom File Access Mode**

Usually, the database opens the database file with the access mode `<code>rw</code>`, meaning read-write (except for read only databases, where the mode `<code>r</code>` is used). To open a database in read-only mode if the database file is not read-only, use `<code>ACCESS_MODE_DATA=r</code>`. Also supported are `<code>rws</code>` and `<code>rwd</code>`. This setting must be specified in the database URL:

```sql
dbc:h2://~/test;ACCESS_MODE_DATA=r
```

For more information see `<a href="advanced.html#durability_problems">Durability Problems</a>`. On many operating systems the access mode `<code>rw</code>` does not guarantee that the data is written to the disk.

**Multiple Connections**
Opening Multiple Databases at the Same Time

An application can open multiple databases at the same time, including multiple connections to the same database. The number of open database is only limited by the memory available.

Multiple Connections to the Same Database: Client/Server

If you want to access the same database at the same time from different processes or computers, you need to use the client/server mode. In this case, one process acts as the server, and the other processes (that could reside on other computers as well) connect to the server via TCP/IP (or SSL/TLS over TCP/IP for improved security).

Multithreading Support

This database is multithreading-safe. That means, if an application is multi-threaded, it does not need to worry about synchronizing access to the database. Internally, most requests to the same database are synchronized. That means an application can use multiple threads that access the same database at the same time, however if one thread executes a long running query, the other threads need to wait.

An application should normally use one connection per thread. This database synchronizes access to the same connection, but other databases may not do this.

Locking, Lock-Timeout, Deadlocks

The database uses table level locks to give each connection a consistent state of the data. There are two kinds of locks: read locks (shared locks) and write locks (exclusive locks). All locks are released when the transaction commits or rolls back. When using the default transaction isolation level 'read committed', read locks are already released after each statement.

If a connection wants to reads from a table, and there is no write lock on the table, then a read lock is added to the table. If there is a write lock, then this connection waits for the other connection to release the lock. If a connection cannot get a lock for a specified time, then a lock timeout exception is thrown.

Usually, <code>SELECT</code> statements will generate read locks. This includes subqueries. Statements that modify data use write locks. It is also possible to lock a table exclusively without modifying data, using the statement <code>SELECT ... FOR UPDATE</code>. The statements <code>COMMIT</code> and <code>ROLLBACK</code> releases all open locks. The commands <code>SAVEPOINT</code> and <code>ROLLBACK TO SAVEPOINT</code> don't affect locks. The locks are also released when the autocommit mode changes, and for connections with autocommit set to true (this is the default), locks are released after each statement. The following statements generate locks:

<table>
<thead>
<tr>
<th>Type of Lock</th>
<th>SQL Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read</td>
<td>&lt;code&gt;SELECT * FROM TEST;&lt;/code&gt;</td>
</tr>
<tr>
<td>Read</td>
<td>&lt;code&gt;CALL SELECT MAX(ID) FROM TEST;&lt;/code&gt;</td>
</tr>
<tr>
<td>Read</td>
<td>&lt;code&gt;SCRIPT;&lt;/code&gt;</td>
</tr>
<tr>
<td>Write</td>
<td>&lt;code&gt;SELECT * FROM TEST WHERE 1=0 FOR UPDATE;&lt;/code&gt;</td>
</tr>
<tr>
<td>Write</td>
<td>&lt;code&gt;INSERT INTO TEST VALUES(1, 'Hello');&lt;/code&gt;</td>
</tr>
<tr>
<td>Write</td>
<td>&lt;code&gt;INSERT INTO TEST SELECT * FROM TEST;&lt;/code&gt;</td>
</tr>
<tr>
<td>Write</td>
<td>&lt;code&gt;UPDATE TEST SET NAME='Hi';&lt;/code&gt;</td>
</tr>
<tr>
<td>Write</td>
<td>&lt;code&gt;DELETE FROM TEST;&lt;/code&gt;</td>
</tr>
<tr>
<td>Write</td>
<td>&lt;code&gt;ALTER TABLE TEST ...;&lt;/code&gt;</td>
</tr>
<tr>
<td>Write</td>
<td>&lt;code&gt;CREATE INDEX ... ON TEST ...;&lt;/code&gt;</td>
</tr>
<tr>
<td>Write</td>
<td>&lt;code&gt;DROP INDEX ...;&lt;/code&gt;</td>
</tr>
</tbody>
</table>

The number of seconds until a lock timeout exception is thrown can be set separately for each
connection using the SQL command `<code>SET LOCK_TIMEOUT &lt;milliseconds&gt;</code>. The initial lock timeout (that is the timeout used for new connections) can be set using the SQL command `<code>SET DEFAULT_LOCK_TIMEOUT &lt;milliseconds&gt;</code>. The default lock timeout is persistent.

### Database File Layout

The following files are created for persistent databases:

<table>
<thead>
<tr>
<th>File Name</th>
<th>Description</th>
<th>Number of Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>test.h2.db</td>
<td>Database file. Contains the transaction log, indexes, and data for all tables.</td>
<td>1 per database</td>
</tr>
<tr>
<td>test.lock.db</td>
<td>Database lock file. Automatically (re-)created while the database is in use.</td>
<td>1 per database</td>
</tr>
<tr>
<td>test.trace.db</td>
<td>Trace file (if the trace option is enabled). Contains trace information.</td>
<td>1 per database</td>
</tr>
<tr>
<td>test.lobs.db/*</td>
<td>Directory containing one file for each BLOB or CLOB value larger than a certain size.</td>
<td>1 per large object</td>
</tr>
<tr>
<td>test.123.temp.db</td>
<td>Temporary file. Contains a temporary blob or a large result set.</td>
<td>1 per object</td>
</tr>
</tbody>
</table>

### Moving and Renaming Database Files

Database name and location are not stored inside the database files. While a database is closed, the files can be moved to another directory, and they can be renamed as well (as long as all files of the same database start with the same name and the respective extensions are unchanged).

As there is no platform specific data in the files, they can be moved to other operating systems without problems.

### Backup

When the database is closed, it is possible to backup the database files. Please note that index files do not need to be backed up, because they contain redundant data, and will be recreated automatically if they don't exist.

To backup data while the database is running, the SQL command `<code>SCRIPT</code>` can be used.
Whenever data is modified in the database and those changes are committed, the changes are written to the transaction log (except for in-memory objects). The changes to the main data area itself are usually written later on, to optimize disk access. If there is a power failure, the main data area is not up-to-date, but because the changes are in the transaction log, the next time the database is opened, the changes are re-applied automatically.

All database engines behave a little bit different. Where possible, H2 supports the ANSI SQL standard, and tries to be compatible to other databases. There are still a few differences however:

In MySQL text columns are case insensitive by default, while in H2 they are case sensitive. However H2 supports case insensitive columns as well. To create the tables with case insensitive texts, append <code>IGNORECASE=TRUE</code> to the database URL (example):
<code>jdbc:h2:~/test;IGNORECASE=TRUE</code>.

Compatibility Modes

For certain features, this database can emulate the behavior of specific databases. Not all features or differences of those databases are implemented. Here is the list of currently supported modes and the differences to the regular mode:

**DB2 Compatibility Mode**

To use the IBM DB2 mode, use the database URL <code>jdbc:h2:~/test;MODE=DB2</code> or the SQL statement <code>SET MODE DB2</code>.

For aliased columns, <code>ResultSetMetaData.getColumnName()</code> returns the alias name and <code>getTableName()</code> returns <code>null</code>.

Support for the syntax <code>[OFFSET .. ROW] [FETCH ... ONLY]</code> as an alternative for <code>LIMIT .. OFFSET</code>.

Concatenating <code>NULL</code> with another value results in the other value.

**Derby Compatibility Mode**

To use the Apache Derby mode, use the database URL <code>jdbc:h2:~/test;MODE=Derby</code> or the SQL statement <code>SET MODE Derby</code>.

For aliased columns, <code>ResultSetMetaData.getColumnName()</code> returns the alias name and <code>getTableName()</code> returns <code>null</code>.

For unique indexes, <code>NULL</code> is distinct. That means only one row with <code>NULL</code> in one of the columns is allowed.

Concatenating <code>NULL</code> with another value results in the other value.

**HSQLDB Compatibility Mode**

To use the HSQLDB mode, use the database URL <code>jdbc:h2:~/test;MODE=HSQLDB</code> or the SQL statement <code>SET MODE HSQLDB</code>.

For aliased columns, <code>ResultSetMetaData.getColumnName()</code> returns the alias name and <code>getTableName()</code> returns <code>null</code>.

When converting the scale of decimal data, the number is only converted if the new scale is smaller than the current scale. Usually, the scale is converted and 0s are added if required.

For unique indexes, <code>NULL</code> is distinct. That means only one row with <code>NULL</code> in one of the columns is allowed.

Text can be concatenated using ‘+’.

**MS SQL Server Compatibility Mode**

To use the MS SQL Server mode, use the database URL <code>jdbc:h2:~/test;MODE=MSSQLServer</code> or the SQL statement <code>SET MODE MSSQLServer</code>.

For aliased columns, <code>ResultSetMetaData.getColumnName()</code> returns the alias name and <code>getTableName()</code> returns <code>null</code>. 
Identifiers may be quoted using square brackets as in `<code>[Test]</code>.

For unique indexes, `<code>NULL</code>` is distinct. That means only one row with `<code>NULL</code>` in one of the columns is allowed.

Concatenating `<code>NULL</code>` with another value results in the other value.

Text can be concatenated using `'+'`.

**MySQL Compatibility Mode**

To use the MySQL mode, use the database URL `<code>jdbc:h2:~/test;MODE=MySQL</code>` or the SQL statement `<code>SET MODE MySQL</code>`.

When inserting data, if a column is defined to be `<code>NOT NULL</code>` and `<code>NULL</code>` is inserted, then a 0 (or empty string, or the current timestamp for timestamp columns) value is used. Usually, this operation is not allowed and an exception is thrown.

Creating indexes in the `<code>CREATE TABLE</code>` statement is allowed using `<code>INDEX(</code>)` or `<code>KEY(</code>)`. Example:\ `<code>create table test(id int primary key, name varchar(255), key idx_name(name));</code>`

Meta data calls return identifiers in lower case.

When converting a floating point number to an integer, the fractional digits are not truncated, but the value is rounded.

**Oracle Compatibility Mode**

For aliased columns, `<code>ResultSetMetaData.getColumnName()</code>` returns the alias name and `<code>getTableName()</code>` returns `<code>null</code>`. For unique indexes, multiple rows with `<code>NULL</code>` in all columns are allowed, however it is not allowed to have multiple rows with the same values otherwise.

Concatenating `<code>NULL</code>` with another value results in the other value.

**PostgreSQL Compatibility Mode**

For aliased columns, `<code>ResultSetMetaData.getColumnName()</code>` returns the alias name and `<code>getTableName()</code>` returns `<code>null</code>`. When converting a floating point number to an integer, the fractional digits are not truncated, but the value is rounded.

The system columns `<code>CTID</code>` and `<code>OID</code>` are supported.

The auto-reconnect feature causes the JDBC driver to reconnect to the database if the connection is lost. The automatic re-connect only occurs when auto-commit is enabled; if auto-commit is disabled, an exception is thrown. To enable this mode, append `<code>;AUTO_RECONNECT=TRUE</code>` to the database URL.

Re-connecting will open a new session. After an automatic re-connect, variables and local temporary tables definitions (excluding data) are re-created. The contents of the system table `<code>INFORMATION_SCHEMA.SESSION_STATE</code>` contains all client side state that is re-created.

If another connection uses the database in exclusive mode (enabled using `<code>SET EXCLUSIVE 1</code>` or `<code>SET EXCLUSIVE 2</code>`), then this connection will try to re-connect until the exclusive mode ends.

Multiple processes can access the same database without having to start the server manually. To do that, append `<code>;AUTO_SERVER=TRUE</code>` to the database URL. You can use the same database.
When using this mode, the first connection to the database is made in embedded mode, and additionally a server is started internally (as a daemon thread). If the database is already open in another process, the server mode is used automatically.

The application that opens the first connection to the database uses the embedded mode, which is faster than the server mode. Therefore the main application should open the database first if possible. The first connection automatically starts a server on a random port. This server allows remote connections, however only to this database (to ensure that, the client reads <code>.lock.db</code> file and sends the the random key that is stored there to the server). When the first connection is closed, the server stops. If other (remote) connections are still open, one of them will then start a server (auto-reconnect is enabled automatically).

All processes need to have access to the database files. If the first connection is closed (the connection that started the server), open transactions of other connections will be rolled back (this may not be a problem if you don't disable autocommit). Explicit client/server connections (using <code>jdbc:h2:tcp://</code> or <code>ssl://</code>) are not supported. This mode is not supported for in-memory databases.

Here is an example how to use this mode. Application 1 and 2 are not necessarily started on the same computer, but they need to have access to the database files. Application 1 and 2 are typically two different processes (however they could run within the same process).

The page size for new databases is 2 KB (2048), unless the system property <code>h2.pageSize</code> is set to a different value, or the page size is set explicitly in the database URL using <code>PAGE_SIZE=</code>. The page size of existing databases cannot be changed.

To find problems in an application, it is sometimes good to see what database operations were executed. This database offers the following trace features:
- Trace to <code>System.out</code> and/or to a file
- Support for trace levels <code>OFF, ERROR, INFO, DEBUG</code>
- The maximum size of the trace file can be set
- It is possible to generate Java source code from the trace file
- Trace can be enabled at runtime by manually creating a file

The simplest way to enable the trace option is setting it in the database URL. There are two settings, one for <code>System.out</code> (<code>TRACE_LEVEL_SYSTEM_OUT</code>) tracing, and one for file tracing (<code>TRACE_LEVEL_FILE</code>). The trace levels are 0 for <code>OFF</code>, 1 for <code>ERROR</code> (the default), 2 for <code>INFO</code>, and 3 for <code>DEBUG</code>. A database URL with both levels set to <code>DEBUG</code> is:

The trace level can be changed at runtime by executing the SQL command <code>SET TRACE_LEVEL_SYSTEM_OUT level</code> (for <code>System.out</code> tracing) or <code>SET TRACE_LEVEL_FILE level</code> (for file tracing). Example:

When using a high trace level, the trace file can get very big quickly. The default size limit is 16 MB, if the trace file exceeds this limit, it is renamed to <code>.old</code> and a new file is created. If another such file exists, it is deleted. To limit the size to a certain number of megabytes, use <code>SET TRACE_MAX_FILE_SIZE mb</code>. Example:

When setting the trace level to <code>INFO</code> or <code>DEBUG</code>, Java source code is generated as well. This simplifies reproducing problems. The trace file looks like this:

To filter the Java source code, use the <code>ConvertTraceFile</code> tool as follows:
The generated file <code>Test.java</code> will contain the Java source code. The generated source code may be too large to compile (the size of a Java method is limited). If this is the case, the source code needs to be split in multiple methods. The password is not listed in the trace file and therefore not included in the source code.

Using Other Logging APIs

By default, this database uses its own native 'trace' facility. This facility is called 'trace' and not 'log' within this database to avoid confusion with the transaction log. Trace messages can be written to both file and <code>System.out</code>. In most cases, this is sufficient, however sometimes it is better to use the same facility as the application, for example Log4j. To do that, this database support SLF4J.

SLF4J is a simple facade for various logging APIs and allows to plug in the desired implementation at deployment time. SLF4J supports implementations such as Logback, Log4j, Jakarta Commons Logging (JCL), Java logging, x4juli, and Simple Log.

To enable SLF4J, set the file trace level to 4 in the database URL:

Changing the log mechanism is not possible after the database is open, that means executing the SQL statement <code>SET TRACE_LEVEL_FILE 4</code> when the database is already open will not have the desired effect. To use SLF4J, all required jar files need to be in the classpath. If it does not work, check the file <code>&lt;database&gt;.trace.db</code> for error messages.

Read Only Databases

If the database files are read-only, then the database is read-only as well. It is not possible to create new tables, add or modify data in this database. Only <code>SELECT</code> and <code>CALL</code> statements are allowed. To create a read-only database, close the database. Then, make the database file read-only. When you open the database now, it is read-only. There are two ways an application can find out whether database is read-only: by calling <code>Connection.isReadOnly()</code> or by executing the SQL statement <code>CALL READONLY()</code>.

Using the <a href="#custom_access_mode">Custom Access Mode</a> the database can also be opened in read-only mode, even if the database file is not read only.

Read Only Databases in Zip or Jar File

To create a read-only database in a zip file, first create a regular persistent database, and then create a backup. The database must not have pending changes, that means you need to close all connections to the database first. If you are using a database named <code>test</code>, an easy way to create a zip file is using the <code>Backup</code> tool. You can start the tool from the command line, or from within the H2 Console (Tools - Backup). Please note that the database must be closed when the backup is created. Therefore, the SQL statement <code>BACKUP TO</code> can not be used.

When the zip file is created, you can open the database in the zip file using the following database URL:

Databases in zip files are read-only. The performance for some queries will be slower than when using a regular database, because random access in zip files is not supported (only streaming). How much this affects the performance depends on the queries and the data. The database is not read in memory; therefore large databases are supported as well. The same indexes are used as when using a regular database.

Graceful Handling of Low Disk Space Situations

If the database needs more disk space, it calls the database event listener if one is installed. The application may then delete temporary files, or display a message and wait until the user has resolved the problem. To install a listener, run the SQL statement <code>SET DATABASE_EVENT_LISTENER</code> or use a database URL of the form

The quotes around the class name are required. See also the <code>DatabaseEventListener</code> API.

Opening a Corrupted Database
If a database cannot be opened because the boot info (the SQL script that is run at startup) is corrupted, then the database can be opened by specifying a database event listener. The exceptions are logged, but opening the database will continue.

Function indexes are not directly supported by this database, but they can be emulated by using computed columns. For example, if an index on the upper-case version of a column is required, create a computed column with the upper-case version of the original column, and create an index for this column:

When inserting data, it is not required (and not allowed) to specify a value for the upper-case version of the column, because the value is generated. But you can use the column when querying the table:

A tool is provided to execute efficient multi-dimension (spatial) range queries. This database does not support a specialized spatial index (R-Tree or similar). Instead, the B-Tree index is used. For each record, the multi-dimensional key is converted (mapped) to a single dimensional (scalar) value. This value specifies the location on a space-filling curve.

Currently, Z-order (also called N-order or Morton-order) is used; Hilbert curve could also be used, but the implementation is more complex. The algorithm to convert the multi-dimensional value is called bit-interleaving. The scalar value is indexed using a B-Tree index (usually using a computed column).

The method can result in a drastic performance improvement over just using an index on the first column. Depending on the data and number of dimensions, the improvement is usually higher than factor 5. The tool generates a SQL query from a specified multi-dimensional range. The method used is not database dependent, and the tool can easily be ported to other databases. For an example how to use the tool, please have a look at the sample code provided in <code>TestMultiDimension.java</code>.

Remember that weak passwords can be broken regardless of the encryption and security protocols. Don't use passwords that can be found in a dictionary. Also appending numbers does not make them secure. A way to create good passwords that can be remembered is, take the first letters of a sentence, use upper and lower case characters, and creatively include special characters. Example:

from the sentence <code>it's easy to remember this password if you know the trick</code>.

Java strings are immutable objects and cannot be safely 'destroyed' by the application. After creating a string, it will remain in the main memory of the computer at least until it is garbage collected. The garbage collection cannot be controlled by the application, and even if it is garbage collected the data may still remain in memory. It might also be possible that the part of memory containing the password is swapped to disk (because not enough main memory is available).

An attacker might have access to the swap file of the operating system. It is therefore a good idea to use char arrays instead of strings to store passwords. Char arrays can be cleared (filled with zeros) after use, and therefore the password will not be stored in the swap file.

This database supports using char arrays instead of string to pass user and file passwords. The following code can be used to do that:

This example requires Java 1.6. When using Swing, use <code>javax.swing.JPasswordField</code>.

Instead of passing the user name as a separate parameter as in <code>Connection conn = DriverManager.getConnection("jdbc:h2:~/test", "sa", "123");</code> the user name (and/or password) can be supplied in the URL itself: <code>Connection conn = DriverManager.getConnection("jdbc:h2:~/test;USER=sa;PASSWORD=123");</code> The settings in the URL override the
settings passed as a separate parameter.

In addition to the built-in functions, this database supports user-defined Java functions. In this database, Java functions can be used as stored procedures as well. A function must be declared (registered) before it can be used. A function can be defined using source code, or as a reference to a compiled class that is available in the classpath. By default, the function aliases are stored in the current schema.

When referencing a method, the class must already be compiled and included in the classpath where the database is running. Only static Java methods are supported; both the class and the method must be public. Example Java class:

```java
public static int nextPrime(int x) {
    // implementation...
    return result;
}
```

A function must be registered in the database by calling `CREATE ALIAS ... FOR`:

```sql
CREATE ALIAS nextPrime FOR ...
```

For a complete sample application, see `src/test/org/h2/samples/Function.java`.

When defining a function alias with source code, the database tries to compile the source code using the Sun Java compiler (the class `<code>com.sun.tools.javac.Main</code>`) if the `<code>tools.jar</code>` is in the classpath. If not, `<code>javac</code>` is run as a separate process. Only the source code is stored in the database; the class is compiled each time the database is re-opened. Source code is usually passed as dollar quoted text to avoid escaping problems, however single quotes can be used as well. Example:

```sql
CREATE ALIAS nextPrime FOR 'java.util.Arrays.asList(nextPrime(2), nextPrime(3), nextPrime(5), nextPrime(7), nextPrime(11)).
```

The method name (```nextPrime``` in the example above) is ignored. By default, the three packages `<code>java.util, java.math, java.sql</code>` are imported. If different import statements are required, they must be declared at the beginning and separated with the tag `<code>@CODE</code>`:

```sql
CREATE ALIAS nextPrime FOR @CODE
```

The following template is used to create a complete Java class:

```java
public class NextPrime {
    public static int nextPrime(int x) {
        // implementation...
        return result;
    }
}
```

The method name is ignored. By default, the three packages `<code>java.util, java.math, java.sql</code>` are imported. If different import statements are required, they must be declared at the beginning and separated with the tag `<code>@CODE</code>`:

```sql
CREATE ALIAS nextPrime FOR @CODE
```

The following template is used to create a complete Java class:

```java
public class NextPrime {
    public static int nextPrime(int x) {
        // implementation...
        return result;
    }
}
```

SQL types are mapped to Java classes and vice-versa as in the JDBC API. For details, see `<a href="datatypes.html">Data Types</a>`. There are two special cases: `<code>java.lang.Object</code>` is mapped to `<code>OTHER</code>` (a serialized object). Therefore, `<code>java.lang.Object</code>` can not be used to match all SQL types (matching all SQL types is not supported). The second special case is `<code>Object[]</code>`: arrays of any class are mapped to `<code>ARRAY</code>`.

If the first parameter of a Java function is a `<code>java.sql.Connection</code>`, then the connection to database is provided. This connection does not need to be closed before returning. When calling the method from within the SQL statement, this connection parameter does not need to be (can not be) specified.

If a function throws an exception, then the current statement is rolled back and the exception is thrown to the application. SQLException are directly re-thrown to the calling application; all other exceptions are first converted to a SQLException.

Functions may returns a result set. Such a function can be called with the `<code>CALL</code>` statement:

```sql
CALL nextPrime()
```

A function can create a result set using the `<code>SimpleResultSet</code>` tool:

```java
SimpleResultSet rs = function.executeQuery();
```

A function that returns a result set can be used like a table. However, in this case the function is
called at least twice: first while parsing the statement to collect the column names (with parameters set to `null` where not known at compile time). And then, while executing the statement to get the data (maybe multiple times if this is a join). If the function is called just to get the column list, the URL of the connection passed to the function is `jdbc:columnlist:connection` otherwise, the URL of the connection is `jdbc:default:connection`.

**Features**

- **Triggers**
  - This database supports Java triggers that are called before or after a row is updated, inserted or deleted. Triggers can be used for complex consistency checks, or to update related data in the database. It is also possible to use triggers to simulate materialized views. For a complete sample application, see `src/test/org/h2/samples/TriggerSample.java`. A Java trigger must implement the interface `org.h2.api.Trigger`. The trigger class must be available in the classpath of the database engine (when using the server mode, it must be in the classpath of the server).

- **Compacting a Database**
  - Empty space in the database file re-used automatically. When closing the database, the database is automatically compacted for up to 1 second by default. To compact more, use the SQL statement SHUTDOWN COMPACT. However re-creating the database may further reduce the database size because this will re-build the indexes. Here is a sample function to do this:

```java
features_1584_p=The connection can be used to query or update data in other tables. The trigger then needs to be defined in the database:
features_1585_p=The trigger can be used to veto a change by throwing a `SQLException`.
features_1586_p=The database keeps most frequently used data in the main memory. The amount of memory used for caching can be changed using the setting `CACHE_SIZE`. This setting can be set in the database connection URL (`jdbc:h2:~/test;CACHE_SIZE=131072`) or set at runtime using `SET CACHE_SIZE size`. The size of the cache, as represented by `CACHE_SIZE` is measured in KB, with each KB being 1024 bytes. This setting has no effect for in-memory databases. For persistent databases, the setting is stored in the database and re-used when the database is opened the next time. However, when opening an existing database, the cache size is set to at most half the amount of memory available for the virtual machine (Runtime.getRuntime().maxMemory()), even if the cache size setting stored in the database is larger; however the setting stored in the database is kept. Setting the cache size in the database URL or explicitly using `SET CACHE_SIZE` overrides this value (even if larger than the physical memory). To get the current used maximum cache size, use the query `SELECT * FROM INFORMATION_SCHEMA.SETTINGS WHERE NAME = 'info.CACHE_MAX_SIZE'`.

- **Cache Settings**
  - Also included is an experimental second level soft reference cache. Rows in this cache are only garbage collected on low memory. By default the second level cache is disabled. To enable it, use the prefix `SOFT_`. Example: `jdbc:h2:~/test;CACHE_TYPE=SOFT_LRU` The cache might not actually improve performance. If you plan to use it, please run your own test cases first.

To get information about page reads and writes, and the current caching algorithm in use, call `SELECT * FROM INFORMATION_SCHEMA.SETTINGS`. The number of pages read / written is listed.
Welcome to H2, the free SQL database. The main feature of H2 are:

- It is free to use for everybody, source code is included
- Written in Java, but also available as native executable
- JDBC and (partial) ODBC API
- Embedded and client/server modes
- Clustering is supported
- A web client is included

If you are not automatically redirected to the main page, then Javascript is currently disabled or your browser does not support Javascript. Some features (for example the integrated search) require Javascript.

The up-to-date change log is available at http://www.h2database.com/html/changelog.html

The development of H2 was started in May 2004, but it was first published on December 14th 2005. The main author of H2, Thomas Mueller, is also the original developer of Hypersonic SQL. In 2001, he joined PointBase Inc. where he wrote PointBase Micro, a commercial Java SQL database. At that point, he had to discontinue Hypersonic SQL. The HSQLDB Group was formed to continued to work on the Hypersonic SQL codebase. The name H2 stands for Hypersonic 2, however H2 does not share code with Hypersonic SQL or HSQLDB. H2 is built from scratch.

The main reasons to use a Java database are:

- Very simple to integrate in Java applications
- Support for many different platforms
- More secure than native applications (no buffer overflows)
- User defined functions (or triggers) run very fast
- Unicode support

Some think Java is too slow for low level operations, but this is no longer true. Garbage collection for example is now faster than manual memory management. Developing Java code is faster than developing C or C++ code. When using Java, most time can be spent on improving the algorithms instead of porting the code to different platforms or doing memory management. Features such as Unicode and network libraries are already built-in. In Java, writing secure code is easier because buffer overflows can not occur. Features such as reflection can be used for randomized testing.

Java is future proof: a lot of companies support Java. Java is now open source. To increase the portability and ease of use, this software depends on very few libraries. Features that are not available in open source Java implementations (such as Swing) are not used, or only used for optional features.

Many thanks for those who reported bugs, gave valuable feedback, spread the word, and translated this project. Also many thanks to the donors:

- Code Lutin, France
- Code 42 Software, Inc., Minneapolis
- NetSuxxess GmbH, Germany
- Poker Copilot, Steve McLeod, Germany
- SkyCash, Poland
- Lumber-mill, Inc., Japan
- Martin Wildam, Austria
- Donald Bleyl, USA
- Frank Berger, Germany
- Ashwin Jayaprakash, USA
- Florent Ramierre, France
- Jun Iyama, Japan
- Antonio Casqueiro, Portugal
- Oliver Computing LLC, USA
- Harpal Grover Consulting Inc., USA
- Elisabetta Berluni, Italy
- William Gilbert, USA
- Antonio Dieguez Rojas, Chile
To run this database, the following software stack is known to work. Other software most likely also works, but is not tested as much.

**Database Engine**
- Windows XP or Vista, Mac OS X, or Linux
- Sun JDK 1.5 or newer (using Retroweaver to convert to JDK 1.4 should work, but is not regularly tested)
- Recommended Windows file system: NTFS (FAT32 only supports files up to 4 GB)

**Supported Platforms**
- Java 1.5 and 1.6 but can also be compiled to native code using GCJ. The source code does not use features of Java 1.6. Currently, the database is developed and tested on Windows XP and Mac OS X using the Sun JDK 1.6, but it also works in many other operating systems and using other Java runtime environments.

**Installing the Software**
- To install the software, run the installer or unzip it to a directory of your choice.
- After installing, you should get the following directory structure:
  - Directory
  - Contents
  - bin
  - JAR and batch files
  - docs
  - Documentation
JaQu stands for Java Query and allows to access databases using pure Java. JaQu provides a fluent interface (or internal DSL) to access a database. JaQu is something like LINQ for Java (LINQ stands for "language integrated query" and is a Microsoft .NET technology). The following JaQu code:

```java
jaqu_1000_h1=JaQu
jaqu_1001_a=What is JaQu
jaqu_1002_a=\ Differences to Other Data Access Tools
jaqu_1003_a=\ Current State
jaqu_1004_a=\ Building the JaQu Library
jaqu_1005_a=\ Requirements
jaqu_1006_a=\ Example Code
jaqu_1007_a=\ Configuration
jaqu_1008_a=\ Natural Syntax
jaqu_1009_a=\ Other Ideas
jaqu_1010_a=\ Similar Projects
jaqu_1011_h2=What is JaQu
jaqu_1012_p=JaQu stands for Java Query and allows to access databases using pure Java. JaQu provides a fluent interface (or internal DSL) to access a database. JaQu is something like LINQ for Java (LINQ stands for "language integrated query" and is a Microsoft .NET technology). The following JaQu code:
jaqu_1013_p=stands for the SQL statement:
jaqu_1014_h2=Differences to Other Data Access Tools
jaqu_1015_p=Unlike SQL, JaQu can be easily integrated in Java applications. Because JaQu is pure Java, auto-complete in the IDE and Javadoc and are supported. Type checking is performed by the compiler. JaQu fully protects against SQL injection.
jaqu_1016_p=JaQu is more a replacement for JDBC than it is a replacement for tools like Hibernate. With JaQu, you don't write SQL statements as Strings. JaQu is much smaller and simpler than other persistence frameworks such as Hibernate, but it also does not provide all the features of those. Unlike iBatis and Hibernate, no XML or annotation based configuration is required; instead the configuration (if required at all) is done in pure Java, in the application itself.
jaqu_1017_p=JaQu does not require or contain any data caching mechanism. Like JDBC and iBatis, JaQu provides full control over when and what SQL statements are executed (but without having to write SQL statements as Strings).
jaqu_1018_h3=Restrictions
Primitive types (e.g., `<code>boolean, int, long, double</code>`) are not supported. Use `<code>java.lang.Boolean, Integer, Long, Double</code>` instead.

Most people use Java in their application. Mixing Java and another language (for example Scala or Groovy) in the same application is complicated: you would need to split the application and database code.

Currently, JaQu is only tested with the H2 database. The API may change in future versions. JaQu is not part of the h2 jar file, however the source code is included in H2, under:

`src/test/org/h2/test/jaqu/*`
`src/tools/org/h2/jaqu/*`

(samples and tests)

(software)

To create the JaQu jar file, run: `<code>build jar JaQu</code>`. This will create the file `<code>bin/h2jaqu.jar</code>`.

JaQu requires Java 1.5. Annotations are not needed. Currently, JaQu is only tested with the H2 database engine, however in theory it should work with any database that supports the JDBC API.

JaQu does not require any configuration when using the default mapping. To define table indices, or if you want to map a class to a table with a different name, or a field to a column with another name, create a function called `<code>define</code>` in the data class. Example:

The method `<code>define</code>` contains the mapping definition. It is called once when the class is used for the first time. Unlike annotations, the mapping is defined in the class itself. Unlike when using annotations, the compiler can check the syntax even for multi-column objects (multi-column indexes, multi-column primary keys and so on). Because the definition is written in regular Java, the configuration can depend on the environment. This is not possible using annotations. Unlike XML mapping configuration, the configuration is integrated in the class itself.

The plan is to support more natural (pure Java) syntax in conditions. To do that, the condition class is de-compiled to a SQL condition. A proof of concept decompiler is included (but it doesn't work yet). The planned syntax is:

This project has just been started, and nothing is fixed yet. Some ideas for what to implement are:

- Support queries on collections (instead of using a database).
- Provide API level compatibility with JPA (so that JaQu can be used as an extension of JPA).
- Internally use a JPA implementation (for example Hibernate) instead of SQL directly.
- Use PreparedStatements and cache them.

Also consider:

- Cement Framework
- Dreamsourse ORM
- Empire-db
- JEQUEL: Java Embedded QUEry Language
- Joist
- JoSQL
- LIQUidFORM
- Quaere (Alias implementation)
jaqu_1053_a=Quaere
jaqu_1054_a=Querydsl
jaqu_1055_a=Squill
license_1000_h1=License
license_1001_a=\ Summary and License FAQ
license_1002_a=H2 License - Version 1.0
license_1003_a=Eclipse Public License - Version 1.0
license_1004_h2=Summary and License FAQ
license_1005_p=H2 is dual licensed and available under a modified version of the MPL 1.1 (<a href="http://www.mozilla.org/MPL">Mozilla Public License</a>) or under the (unmodified) EPL 1.0 (<a href="http://opensource.org/licenses/eclipse-1.0.php">Eclipse Public License</a>). The changes to the MPL are underlined. There is a License FAQ for both the MPL and the EPL, most of that is applicable to the H2 License as well.
license_1007_li=You can use H2 for free. You can integrate it into your application (including commercial applications), and you can distribute it.
license_1008_li=Files containing only your code are not covered by this license (it is 'commercial friendly').
license_1009_li=Modifications to the H2 source code must be published.
license_1010_li=You don't need to provide the source code of H2 if you did not modify anything.
license_1011_p=However, nobody is allowed to rename H2, modify it a little, and sell it as a database engine without telling the customers it is in fact H2. This happened to HSQLDB: a company called 'bungisoft' copied HSQLDB, renamed it to 'RedBase', and tried to sell it, hiding the fact that it was in fact just HSQLDB. It seems 'bungisoft' does not exist any more, but you can use the <a href="http://www.archive.org">Wayback Machine</a> and visit old web pages of <code>http://www.bungisoft.com</code>.
license_1012_p=About porting the source code to another language (for example C# or C++): converted source code (even if done manually) stays under the same copyright and license as the original code. The copyright of the ported source code does not (automatically) go to the person who ported the code.
license_1013_h2=H2 License - Version 1.0
license_1014_h3=1. Definitions
license_1015_b=1.0.1. "Commercial Use"
license_1016_p=means distribution or otherwise making the Covered Code available to a third party.
license_1017_b=1.1. "Contributor"
license_1018_p=means each entity that creates or contributes to the creation of Modifications.
license_1019_b=1.2. "Contributor Version"
license_1020_p=means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.
license_1021_b=1.3. "Covered Code"
license_1022_p=means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.
license_1023_b=1.4. "Electronic Distribution Mechanism"
license_1024_p=means a mechanism generally accepted in the software development community for the electronic transfer of data.
license_1025_b=1.5. "Executable"
license_1026_p=means Covered Code in any form other than Source Code.
license_1027_b=1.6. "Initial Developer"
license_1028_p=means the individual or entity identified as the Initial Developer in the Source Code notice required by <a href="/exhibit-a">Exhibit A</a>.
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license_1030_p=means a work which combines Covered Code or portions thereof with code not governed by the
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license_1032_p=a means this document.
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license_1038_p=1.9.b. Any new file that contains any part of the Original Code or previous Modifications.
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license_1040_p=a means Source Code of computer software code which is described in the Source Code notice
required by <a href="#exhibit-a">Exhibit A</a> as Original Code, and which, at the time of its release under this
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license_1042_p=a means any patent claim(s), now owned or hereafter acquired, including without limitation,
method, process, and apparatus claims, in any patent Licensable by grantor.
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license_1044_p=a means the preferred form of the Covered Code for making modifications to it, including all
modules it contains, plus any associated interface definition files, scripts used to control compilation and installation
of an Executable, or source code differential comparisons against either the Original Code or another well known,
available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form,
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license_1045_b=1.12. "You" (or "Your")
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of, this License or a future version of this License issued under <a href="#section-6.1">Section 6.1.</a> For legal
entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For
purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of
such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding
shares or beneficial ownership of such entity.
license_1047_h3=2. Source Code License
license_1048_h4=2.1. The Initial Developer Grant
license_1049_p=a The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license,
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You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

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Those are just a few links to products using or supporting H2. If you want to add a link, please send
it to the support email address or post it in the group.

- **Books**
  - Seam In Action
  - Analyzing CSVs with H2 in under 10 minutes (2009-12-07)
  - Efficient sorting and iteration on large databases (2009-06-15)
  - Porting Flexive to the H2 Database (2008-12-05)
  - H2 Database with GlassFish (2008-11-24)
  - Using H2 Database with Glassfish and Toplink (2008-08-07)
  - H2 Database - Performance Tracing (2008-04-30)
  - Testing your JDBC data access layer with DBUnit and H2 (2007-09-18)
  - Open Source Databases Comparison (2007-09-11)
  - The Codist: The Open Source Frameworks I Use (2007-07-23)
  - SQL Injections: How Not To Get Stuck (2007-03-11)
  - One Man Band: (Helma + H2) \=\to easy\ (2007-03-11)
  - New Version of H2 Database Released (2007-01-06)
  - Write Your Own Database, Again (2006-11-13)

- **Extensions**
  - Grails H2 Database Plugin
  - h2osgi: OSGi for the H2 Database
  - H2Sharp: ADO.NET interface for the H2 database engine
  - H2 Spatial: spatial functions to H2 database

- **Blog Articles**
  - Analyzing CSVs with H2 in under 10 minutes (2009-12-07)
  - Efficient sorting and iteration on large databases (2009-06-15)
  - Porting Flexive to the H2 Database (2008-12-05)
  - H2 Database with GlassFish (2008-11-24)
  - Using H2 Database with Glassfish and Toplink (2008-08-07)
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  - New Version of H2 Database Released (2007-01-06)
  - Write Your Own Database, Again (2006-11-13)

- **Database Frontends / Tools**
  - DB Solo: SQL query tool.
  - DbVisualizer: Database tool.
  - Execute Query: Database utility written in Java.
  - h2osgi: OSGi for the H2 Database
  - H2Sharp: ADO.NET interface for the H2 database engine
  - H2 Spatial: spatial functions to H2 database

- **Projects**
  - Ohloh
  - Freshmeat Project Page
  - Free Open Source Software For Us
  - Wikipedia
  - Java Source Net
  - Linux Package Manager
  - Base is OpenOffice.org's database application. It provides access to relational data sources.

- **Open Source Databases Comparison**
  - David Coldrick's Weblog: New Version of H2 Database Released (2007-01-06)

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**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 49948**
An SQL query tool, database browser, SQL editor, and database administration tool.

Universal Database Frontend.

SQL Workbench/J

Free DBMS-independent SQL tool.

Graphical tool to view the structure of a database, browse the data, issue SQL commands etc.

Tool to copy data from one database to another.

Products and Projects

Tool to copy data from one database to another.

Visual business process modeling and simulation software for business users.

A Business Process Management (BPM) suite to quickly and easily automate business processes and workflows.

Process-centric, services-based application integration suite.

A server-side scripting environment to build AJAX enabled web applications.

A web framework that let's you write dynamic web applications with Zen-like simplicity.

Open source persistence framework providing object-relational mapping (ORM) and remoting services.

A Open source implementation of the Java Content Repository API (JCR).

Open source implementation of the Java Persistence API (JPA).

Helps building web applications.

The Swiss army knife of Backgammon.

Java-based multi-blog, multi-user software package (Mac OS X Weblog Server).

Open source workflow solution for handling long-running, user-oriented processes providing out of the box workflow and business process management features.

JSR 168 compliant bookmarks management portlet application.

Ajax communication suite with mail, addresses, notes, IM, and rss reader.

Easy and cross platform backup solution for business and service providers.

A JUnit extension (also usable with Ant) targeted for database-driven projects.

Ajax/J2EE framework for RAD development (mainly oriented toward hispanic markets).

Ebean ORM Persistence Layer
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Eclipse CDO
The CDO (Connected Data Objects) Model Repository is a distributed shared model framework for EMF models, and a fast server-based O/R mapping solution.

Epictetus
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Fabric3
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- **JGrass**
  - Java Geographic Resources Analysis Support System. Free, multi platform, open source GIS based on the GIS framework of uDig.

- **Jena**
  - Java framework for building Semantic Web applications.

- **JMatter**
  - Framework for constructing workgroup business applications based on the Naked Objects Architectural Pattern.

- **JotBot**
  - Records your day at user defined intervals.

- **JPOX**
  - Java persistent objects.

- **Liftweb**
  - A Scala-based, secure, developer friendly web framework.

- **LiquiBase**
  - A tool to manage database changes and refactorings.

- **Luntbuild**
  - Build automation and management tool.

- **localdb**
  - A tool that locates the full file path of the folder containing the database files.

- **Magnolia**

- **MiniConnectionPoolManager**
  - A lightweight standalone JDBC connection pool manager.

- **Mr. Persister**
  - Simple, small and fast object relational mapping.

- **Myna Application Server**
  - Java web app that provides dynamic web content and Java libraries access from JavaScript.

- **MyTunesRSS**
  - Lets you listen to your music wherever you are.

- **NCGC CurveFit**
  - From NIH Chemical Genomics Center, National Institutes of Health, USA. An open source application in the life sciences research field. This application handles chemical structures and biological responses of thousands of compounds with the potential to handle million+ compounds. It utilizes an embedded H2 database to enable flexible query/retrieval of all data including advanced chemical substructure and similarity searching. The application highlights an automated curve fitting and classification algorithm that outperforms commercial packages in the field. Commercial alternatives are typically small desktop software that handle a few dose response curves at a time. A couple of commercial packages that do handle several thousand curves are very expensive tools (&gt;60k USD) that require manual curation of analysis by the user; require a license to Oracle; lack advanced query/retrieval; and the ability to handle chemical structures.

- **Nuxeo**
  - Standards-based, open source platform for building ECM applications.

- **nWire**
  - Eclipse plug-in which expedites Java development. It's main purpose is to help developers find code quicker and easily understand how it relates to the rest of the application, thus, understand the application structure.

- **Ontology Works**
This company provides semantic technologies including deductive information repositories (the Ontology Works Knowledge Servers), semantic information fusion and semantic federation of legacy databases, ontology-based domain modeling, and management of the distributed enterprise.

It supports all W3C Semantic Web recommendations: OWL, RDF, RDFS, SPARQL, and F-Logic.

An OpenSource BBS Software written in JRuby.

OpenGroove is a groupware program that allows users to synchronize data.

OpenSocial Development Environment (OSDE) Development tool for OpenSocial application.

Orion J2EE Application Server.

PSH2

A library for the <a href="http://www.processing.org">Processing</a> programming language and environment.

A computer based learning software.

Pickle is a Java library containing classes for persistence, concurrency, and logging.

Piman

Water treatment projects data management.

PolePosition

Open source database benchmark.

Poormans

Very basic CMS running as a SWT application and generating static html pages.

Phase-6

Railo is an alternative engine for the Cold Fusion Markup Language, that compiles code programmed in CFML into Java bytecode and executes it on a servlet engine.

Razuna

Open source Digital Asset Management System with integrated Web Content Management.

RIFE

A full-stack web application framework with tools and APIs to implement most common web features.

Rutema

Rutema is a test execution and management tool for heterogeneous development environments written in Ruby.

Sava

Open-source web-based content management system.

Scriptella

ETL (Extract-Transform-Load) and script execution tool.

Sesar

Dependency Injection Container with Aspect Oriented Programming.

SemmleCode

Eclipse plugin to help you improve software quality.
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma

SeQuaLite: A free, light-weight, java data access framework.
ShapeLogic: Toolkit for declarative programming, image processing and computer vision.
Shellbook: Desktop publishing application.
Signsoft intelliBO: Persistence middleware supporting the JDO specification.
SymmetricDS: A web-enabled, database independent, data synchronization/replication software.
SmartFoxServer: Platform for developing multiuser applications and games with Macromedia Flash.
Social Bookmarks Friend Finder: A GUI application that allows you to find users with similar bookmarks to the user specified (for delicious.com).
Springfuse: Code generation For Spring, Spring MVC & Hibernate.
SQLOrm: Java Object Relation Mapping.
StorYBook: A summary-based tool for novelist and script writers. It helps to keep the overview over the various traces a story has.
StreamCruncher: Event (stream) processing kernel.
Tune Backup: Easy-to-use backup solution for your iTunes library.
weblica: Desktop CMS.
Web of Web: Collaborative and realtime interactive media platform for the web.
Werkzeugkasten: Minimum Java Toolset.
VPDA: View providers driven applications is a Java based application framework for building applications composed from server components - view providers.
Volunteer database: A database front end to register volunteers, partnership and donation for a Non Profit organization.

Welcome to H2, the Java SQL database. The main features of H2 are:
- Very fast, open source, JDBC API
- Embedded and server modes; in-memory databases
- Browser based Console application
- Small footprint: around 1 MB jar file size
- Download

Version 1.2.140 (2010-07-25):
Windows Installer (4 MB)
<table>
<thead>
<tr>
<th>Feature</th>
<th>Derby</th>
<th>HSQLDB</th>
<th>MySQL</th>
<th>PostgreSQL</th>
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<tr>
<td>Memory Mode</td>
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<td>Fulltext Search</td>
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<td>Multi Version Concurrency</td>
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See also the <a href="features.html#comparison">detailed comparison</a>.

**Newsfeeds:**
- Full text (Atom)
- Header only (RSS)

**Email Newsletter:**
Subscribe to <a href="http://groups.google.com/group/h2database-news/subscribe">H2 Database News</a> to get informed about new releases. Your email address is only used in this context.

**Contribute**
You can contribute to the development of H2 by sending feedback and bug reports, or translate the H2 Console application (for details, start the H2 Console and select Options / Translate). To donate money, click on the PayPal button below. You will be listed as a supporter:

**H2 Database Engine**
Welcome to H2, the free Java SQL database engine.

**Quickstart**
Get a fast overview.

**Tutorial**
Go through the samples.

**Features**
See what this database can do and how to use these features.

**Performance Comparison**
In many cases H2 is faster than other (open source and not open source) database engines. Please note this is mostly a single connection benchmark run on one computer.
<table>
<thead>
<tr>
<th>Performance Measurement</th>
<th>Time (ms)</th>
<th>Time (ms)</th>
<th>Time (ms)</th>
<th>Time (ms)</th>
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</table>
Benchmark Results and Comments

H2
Version 1.2.137 (2010-06-06) was used for the test. For most operations, the performance of H2 is about the same as for HSQLDB. One situation where H2 is slow is large result sets, because they are buffered to disk if more than a certain number of records are returned. The advantage of buffering is there is no limit on the result set size.

HSQLDB
Version 2.0.0 was used for the test. Cached tables are used in this test (<code>hsqldb.default_table_type=cached</code>), and the write delay is 1 second (<code>SET WRITE_DELAY 1</code>).

Derby
Version 10.6.1.0 was used for the test. Derby is clearly the slowest embedded database in this test. This seems to be a structural problem, because all operations are really slow. It will be hard for the developers of Derby to improve the performance to a reasonable level. A few problems have been identified: leaving autocommit on is a problem for Derby. If it is switched off during the whole test, the results are about 20% better for Derby. Derby calls <code>FileChannel.force(false)</code>, but only twice per log file (not on each commit). Disabling this call improves performance for Derby by about 2%. Unlike H2, Derby does not call <code>FileDescriptor.sync()</code> on each checkpoint. Derby supports a testing mode (system property
where durability is disabled. According to the documentation, this setting should be used for testing only, as the database may not recover after a crash. Enabling this setting improves performance by a factor of 2.6 (embedded mode) or 1.4 (server mode). Even if enabled, Derby is still less than half as fast as H2 in default mode.

<code>derby.system.durability=test</code>) where durability is disabled. According to the documentation, this setting should be used for testing only, as the database may not recover after a crash. Enabling this setting improves performance by a factor of 2.6 (embedded mode) or 1.4 (server mode). Even if enabled, Derby is still less than half as fast as H2 in default mode.

performance_1247_h4=PostgreSQL

performance_1248_p=\ Version 8.4.4 was used for the test. The following options where changed in <code>postgresql.conf: fsync = off, commit_delay = 1000</code>. PostgreSQL is run in server mode. The memory usage number is incorrect, because only the memory usage of the JDBC driver is measured.

performance_1249_h4=MySQL

performance_1250_p=\ Version 5.1.47-community was used for the test. MySQL was run with the InnoDB backend. The setting <code>innodb_flush_log_at_trx_commit</code> (found in the <code>my.ini / my.cnf</code> file) was set to 0. Otherwise (and by default), MySQL is slow (around 140 statements per second in this test) because it tries to flush the data to disk for each commit. For small transactions (when autocommit is on) this is really slow. But many use cases use small or relatively small transactions. Too bad this setting is not listed in the configuration wizard, and it always overwritten when using the wizard. You need to change this setting manually in the file <code>my.ini / my.cnf</code>, and then restart the service. The memory usage number is incorrect, because only the memory usage of the JDBC driver is measured.

performance_1251_h4=Firebird

performance_1252_p=\ Firebird 1.5 (default installation) was tested, but the results are not published currently. It is possible to run the performance test with the Firebird database, and any information on how to configure Firebird for higher performance are welcome.

performance_1253_h4=Why Oracle / MS SQL Server / DB2 are Not Listed

performance_1254_p=\ The license of these databases does not allow to publish benchmark results. This doesn't mean that they are fast. They are in fact quite slow, and need a lot of memory. But you will need to test this yourself. SQLite was not tested because the JDBC driver doesn't support transactions.

performance_1255_h4=About this Benchmark

performance_1256_h4=How to Run

performance_1257_p=\ This test was as follows:

performance_1258_h4=Separate Process per Database

performance_1259_p=\ For each database, a new process is started, to ensure the previous test does not impact the current test.

performance_1260_h4=Number of Connections

performance_1261_p=\ This is mostly a single-connection benchmark. BenchB uses multiple connections; the other tests use one connection.

performance_1262_h4=Real-World Tests

performance_1263_p=\ Good benchmarks emulate real-world use cases. This benchmark includes 4 test cases:

BenchSimple uses one table and many small updates / deletes. BenchA is similar to the TPC-A test, but single connection / single threaded (see also: www.tpc.org). BenchB is similar to the TPC-B test, using multiple connections (one thread per connection). BenchC is similar to the TPC-C test, but single connection / single threaded.

performance_1264_h4=Comparing Embedded with Server Databases

performance_1265_p=\ This is mainly a benchmark for embedded databases (where the application runs in the same virtual machine as the database engine). However MySQL and PostgreSQL are not Java databases and cannot be embedded into a Java application. For the Java databases, both embedded and server modes are tested.

performance_1266_h4=Test Platform

performance_1267_p=\ This test is run on Mac OS X 10.6. No virus scanner was used, and disk indexing was disabled. The VM used is Sun JDK 1.6.

performance_1268_h4=Multiple Runs
When a Java benchmark is run first, the code is not fully compiled and therefore runs slower than when running multiple times. A benchmark should always run the same test multiple times and ignore the first run(s). This benchmark runs three times, but only the last run is measured.

It is not enough to measure the time taken, the memory usage is important as well. Performance can be improved by using a bigger cache, but the amount of memory is limited. HSQLDB tables are kept fully in memory by default; this benchmark uses 'disk based' tables for all databases. Unfortunately, it is not so easy to calculate the memory usage of PostgreSQL and MySQL, because they run in a different process than the test. This benchmark currently does not print memory usage of those databases.

Some databases delay some operations (for example flushing the buffers) until after the benchmark is run. This benchmark waits between each database tested, and each database runs in a different process (sequentially).

Performance can be improved by using a bigger cache, but the amount of memory is limited. HSQLDB tables are kept fully in memory by default; this benchmark uses 'disk based' tables for all databases. Unfortunately, it is not so easy to calculate the memory usage of PostgreSQL and MySQL, because they run in a different process than the test. This benchmark currently does not print memory usage of those databases.

Some databases delay some operations (for example flushing the buffers) until after the benchmark is run. This benchmark waits between each database tested, and each database runs in a different process (sequentially).

Transaction commit / Durability
Durability means transaction committed to the database will not be lost. Some databases (for example MySQL) try to enforce this by default by calling `fsync()` to flush the buffers, but most hard drives don't actually flush all data. Calling the method slows down transaction commit a lot, but doesn't always make data durable. When comparing the results, it is important to think about the effect. Many database suggest to 'batch' operations when possible. This benchmark switches off autocommit when loading the data, and calls commit after each 1000 inserts. However many applications need 'short' transactions at runtime (a commit after each update). This benchmark commits after each update / delete in the simple benchmark, and after each business transaction in the other benchmarks. For databases that support delayed commits, a delay of one second is used.

Wherever possible, the test cases use prepared statements.

The startup time of a database engine is important as well for embedded use. This time is not measured currently. Also, not tested is the time used to create a database and open an existing database. Here, one (wrapper) connection is opened at the start, and for each step a new connection is opened and then closed.

The PolePosition is an open source benchmark. The algorithms are all quite simple. It was developed / sponsored by db4o. This test was not run for a longer time, so please be aware that the results below are for older database versions (H2 version 1.1, HSQLDB 1.8, Java 1.4).
<table>
<thead>
<tr>
<th>Performance</th>
<th>Time (ms)</th>
</tr>
</thead>
<tbody>
<tr>
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There are a few problems with the PolePosition test:

HSQLDB uses in-memory tables by default while H2 uses persistent tables. The HSQLDB version included in PolePosition does not support changing this, so you need to replace `<code>poleposition-0.20/lib/hsqldb.jar</code>` with a newer version (for example `<code>hsqldb-1.8.0.7.jar</code>`), and then use the setting

```
<code>hsqldb.connecturl=jdbc:hsqldb:file:\data\hsqldb\dbbench2;hsqldb.default_table_type=cached;sql.enforce_size=true</code>
```

in the file `<code>Jdbc.properties</code>`.
**Open Source Used In Connected-Pharma**

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**The amount of cache memory is quite important, specially for the PolePosition test. Unfortunately, the PolePosition test does not take this into account.**

**Application Profiling**

**Analyze First**

Before trying to optimize performance, it is important to understand where the problem is (what part of the application is slow). Blind optimization or optimization based on guesses should be avoided, because usually it is not an efficient strategy. There are various ways to analyze an application. Sometimes two implementations can be compared using `<code>System.currentTimeMillis()` . But this does not work for complex applications with many modules, and for memory problems.

A simple way to profile an application is to use the built-in profiling tool of java. Example:

Unfortunately, it is only possible to profile the application from start to end. Another solution is to create a number of full thread dumps. To do that, first run `<code>jps -l</code>` to get the process id, and then run `<code>jstack &lt;pid&gt;</code>` or `<code>kill -QUIT &lt;pid&gt;</code>` (Linux) or press Ctrl+C (Windows).

A simple profiling tool is included in H2. To use it, the application needs to be changed slightly. Example:

The profiler is built into the H2 Console tool, to analyze databases that open slowly. To use it, run the H2 Console, and then click on 'Test Connection'. Afterwards, click on 'Test successful' and you get the most common stack traces, which helps to find out why it took so long to connect. You will only get the stack traces if opening the database took more than a few seconds.

**Database Profiling**

The `<code>ConvertTraceFile</code>` tool generates SQL statement statistics at the end of the SQL script file. The format used is similar to the profiling data generated when using `<code>java -Xrunhprof</code>` . For this to work, the trace level needs to be 2 or higher (`<code>TRACE_LEVEL_FILE=2</code>`). The easiest way to set the trace level is to append the setting to the database URL, for example: `<code>jdbc:h2:~/test;TRACE_LEVEL_FILE=2</code>` or `<code>jdbc:h2:tcp://localhost/~test;TRACE_LEVEL_FILE=2</code>`. As an example, execute the following script using the H2 Console:

After running the test case, convert the `<code>.trace.db</code>` file using the `<code>ConvertTraceFile</code>` tool. The trace file is located in the same directory as the database file.

**Database Performance Tuning**

**Keep Connections Open or Use a Connection Pool**

If your application opens and closes connections a lot (for example, for each request), you should consider using a `<a href="tutorial.html#connection_pool">connection pool` . Opening a connection using `<code>DriverManager.getConnection</code>` is specially slow if the database is closed. By default the database is closed if the last connection is closed.

If you open and close connections a lot but don't want to use a connection pool, consider keeping a 'sentinel' connection open for as long as the application runs, or use delayed database closing. See also `<a href="features.html#closing_a_database">Closing a database` .

**Use a Modern JVM**

Newer JVMs are faster. Upgrading to the latest version of your JVM can provide a "free" boost to performance. Switching from the default Client JVM to the Server JVM using the `<code>-server</code>` command-line option improves performance at the cost of a slight increase in start-up time.
Some virus scanners scan files every time they are accessed. It is very important for performance that database files are not scanned for viruses. The database engine never interprets the data stored in the files as programs, that means even if somebody would store a virus in a database file, this would be harmless (when the virus does not run, it cannot spread). Some virus scanners allow to exclude files by suffix. Ensure files ending with `<code>.db</code>` are not scanned.

If the performance hot spots are in the database engine, in many cases the performance can be optimized by creating additional indexes, or changing the schema. Sometimes the application does not directly generate the SQL statements, for example if an O/R mapping tool is used. To view the SQL statements and JDBC API calls, you can use the trace options. For more information, see <a href="features.html#trace_options">Using the Trace Options</a>.

This database uses indexes to improve the performance of `<code>SELECT, UPDATE, DELETE</code>`. If a column is used in the `<code>WHERE</code>` clause of a query, and if an index exists on this column, then the index can be used. Multi-column indexes are used if all or the first columns of the index are used. Both equality lookup and range scans are supported. Indexes are used to order result sets, but only if the condition uses the same index or no index at all. The results are sorted in memory if required. Indexes are created automatically for primary key and unique constraints. Indexes are also created for foreign key constraints, if required. For other columns, indexes need to be created manually using the `<code>CREATE INDEX</code>` statement.

For persistent databases, if a table is created with a single column primary key of type `<code>BIGINT, INT, SMALLINT, TINYINT</code>`, then the data of the table is organized in this way. This is sometimes also called a "clustered index" or "index organized table".

H2 internally stores table data and indexes in the form of b-trees. Each b-tree stores entries as a list of unique keys (one or more columns) and data (zero or more columns). The table data is always organized in the form of a "data b-tree" with a single column key of type `<code>long</code>`. If a single column primary key of type `<code>BIGINT, INT, SMALLINT, TINYINT</code>` is specified when creating the table, then this column is used as the key of the data b-tree. If no primary key has been specified, if the primary key column is of another data type, or if the primary key contains more than one column, then a hidden auto-increment column of type `<code>BIGINT</code>` is added to the table, which is used as the key for the data b-tree. All other columns of the table are stored within the data area of this data b-tree (except for large `<code>BLOB, CLOB</code>` columns, which are stored externally).

For each additional index, one new "index b-tree" is created. The key of this b-tree consists of the indexed columns, plus the key of the data b-tree. If a primary key is created after the table has been created, or if the primary key contains multiple column, or if the primary key is not of the data types listed above, then the primary key is stored in a new index b-tree.

This database uses a cost based optimizer. For simple and queries and queries with medium complexity (less than 7 tables in the join), the expected cost (running time) of all possible plans is calculated, and the plan with the lowest cost is used. For more complex queries, the algorithm first tries all possible combinations for the first few tables, and the remaining tables added using a greedy algorithm (this works well for most joins). Afterwards a genetic algorithm is used to test at most 2000 distinct plans. Only left-deep plans are evaluated.

After the statement is parsed, all expressions are simplified automatically if possible. Operations are evaluated only once if all parameters are constant. Functions are also optimized, but only if the function is constant (always returns the same result for the same parameter values). If the `<code>WHERE</code>`
clause is always false, then the table is not accessed at all.

performance_1422_h3=COUNT(*) Optimization

performance_1423_p=\ If the query only counts all rows of a table, then the data is not accessed. However, this is only possible if no <code>WHERE</code> clause is used, that means it only works for queries of the form <code>SELECT COUNT(*) FROM table</code>.

performance_1424_h3=Updating Optimizer Statistics / Column Selectivity

performance_1425_p=\ When executing a query, at most one index per joined table can be used. If the same table is joined multiple times, for each join only one index is used. Example: for the query <code>SELECT * FROM TEST T1, TEST T2 WHERE T1.NAME='A' AND T2.ID=T1.ID</code>, two index can be used, in this case the index on NAME for T1 and the index on ID for T2.

performance_1426_p=\ If a table has multiple indexes, sometimes more than one index could be used. Example:\ if there is a table <code>TEST(ID, NAME, FIRSTNAME)</code> and an index on each column, then two indexes could be used for the query <code>SELECT * FROM TEST WHERE NAME='A' AND FIRSTNAME='B'</code>, the index on NAME or the index on FIRSTNAME. It is not possible to use both indexes at the same time. Which index is used depends on the selectivity of the column. The selectivity describes the 'uniqueness' of values in a column. A selectivity of 100 means each value appears only once, and a selectivity of 1 means the same value appears in many or most rows. For the query above, the index on NAME should be used if the table contains more distinct names than first names.

performance_1427_p=\ The SQL statement <code>ANALYZE</code> can be used to automatically estimate the selectivity of the columns in the tables. This command should be run from time to time to improve the query plans generated by the optimizer.

performance_1428_h3=In-Memory (Hash) Indexes

performance_1429_p=\ Using in-memory indexes, especially in-memory hash indexes, can speed up queries and data manipulation.

performance_1430_p=\ In-memory indexes are automatically used for in-memory databases, but can also be created for persistent databases using <code>CREATE MEMORY TABLE</code>. In many cases, the rows itself will also be kept in-memory. Please note this may cause memory problems for large tables.

performance_1431_p=\ In-memory hash indexes are backed by a hash table and are usually faster than regular indexes. However, hash indexes only supports direct lookup (<code>WHERE ID = ?</code>) but not range scan (<code>WHERE ID &lt; ?</code>). To use hash indexes, use HASH as in:
<code>CREATE UNIQUE HASH INDEX</code> and <code>CREATE TABLE ...(ID INT PRIMARY KEY HASH,...)</code>.

performance_1432_h3=Use Prepared Statements

performance_1433_p=\ If possible, use prepared statements with parameters.

performance_1434_h3=Prepared Statements and IN(…)

performance_1435_p=\ Avoid generating SQL statements with a variable size IN(…) list. Instead, use a prepared statement with arrays as in the following example:\

performance_1436_h3=Optimization Examples

performance_1437_p=\ See <code>src/test/org/h2/samples/optimizations.sql</code> for a few examples of queries that benefit from special optimizations built into the database.

performance_1438_h3=Cache Size and Type

performance_1439_p=\ By default the cache size of H2 is quite small. Consider using a larger cache size, or enable the second level soft reference cache. See also <a href="/features.html#cache_settings">Cache Settings</a>.

performance_1440_h3=Data Types

performance_1441_p=\ Each data type has different storage and performance characteristics:\

performance_1442_li=The <code>DECIMAL/NUMERIC</code> type is slower and requires more storage than the <code>REAL</code> and <code>Doubles</code> types.

performance_1443_li=Text types are slower to read, write, and compare than numeric types and generally require more storage.
**Sorted Insert Optimization**

To reduce disk space usage and speed up table creation, an optimization for sorted inserts is available. When used, b-tree pages are split at the insertion point. To use this optimization, add `<code>SORTED</code>` before the `<code>SELECT</code>` statement:

**Using the Built-In Profiler**

A very simple Java profiler is built-in. To use it, use the following template:

**Fast Database Import**

To speed up large imports, consider using the following options temporarily:

- `<code>SET LOG 0</code>` (disabling the transaction log)
- `<code>SET CACHE_SIZE</code>` (a large cache is faster)
- `<code>SET LOCK_MODE 0</code>` (disable locking)
- `<code>SET UNDO_LOG 0</code>` (disable the session undo log)

These options can be set in the database URL:

<code>jdbc:h2:~/test;LOG=0;CACHE_SIZE=65536;LOCK_MODE=0;UNDO_LOG=0</code>. Most of those options are not recommended for regular use, that means you need to reset them after use.

---

**Quickstart**

**Embedding H2 in an Application**

This database can be used in embedded mode, or in server mode. To use it in embedded mode, you need to:

- Add the `<code>h2*.jar</code>` to the classpath (H2 does not have any dependencies)
- Use the JDBC driver class: `<code>org.h2.Driver</code>`
- The database URL `<code>jdbc:h2:~/test</code>` opens the database `<code>test</code>` in your user home directory

**The H2 Console Application**

A new database is automatically created

**The H2 Console Application**

The Console lets you access a SQL database using a browser interface.

**Installation**

Install the software using the Windows Installer (if you did not yet do that).

Click [Start], [All Programs], [H2], and [H2 Console (Command Line)]:

A new console window appears:
Also, a new browser page should open with the URL <a href="http://localhost:8082" class="notranslate">http://localhost:8082</a>. You may get a security warning from the firewall. If you don't want other computers in the network to access the database on your machine, you can let the firewall block these connections. Only local connections are required at this time.

**Login**

Select [Generic H2] and click [Connect]:

You are now logged in.

**Sample**

Click on the [Sample SQL Script]:

The SQL commands appear in the command area.

**Execute**

Click [Run]

On the left side, a new entry TEST is added below the database icon. The operations and results of the statements are shown below the script.

**Disconnect**

Click on [Disconnect]:

to close the connection.

**End**

Close the console window. For more information, see the <a href="tutorial.html">Tutorial</a>.

---

**Roadmap**

New (feature) requests will usually be added at the very end of the list. The priority is increased for important and popular requests. Of course, patches are always welcome, but are not always applied as is. See also <a href="#providing_patches">Providing Patches</a>.

**Version 1.3.x**: Planned Changes

- Enable h2.lobInDatabase (store CLOB and BLOB in the database file).
- Set h2.analyzeAuto to 2000 (automatic ANALYZE).
- Enable h2.functionsInSchema (allow to store functions in a schema).
- Enable h2.selectForUpdateMvcc (MVCC and SELECT FOR UPDATE).
- Enable h2.largeTransactions (support for very large transactions). Change documentation for MAX_MEMORY_UNDO in help.csv, because now changes to tables without a primary key can be buffered to disk. Later, change MAX_MEMORY_UNDO to reflect number of bytes instead of record (also remove Constants.UNDO_BLOCK_SIZE). Later, change undo log file format (fillAligned no longer required; var int).
- Enable h2.nestedJoins (nested joins and right outer joins).
- Enable h2.optimizeOr (convert OR conditions to IN(..) if possible).
- Disable h2.databaseToUpper (database short names are converted to uppercase).
- Enable h2.dropRestrict (default action for DROP is RESTRICT). Change documentation.

**Priority 1**

- Bugfixes
- More tests with MULTI_THREADED
- Server side cursors
- Priority 2
- Improve test code coverage.
- Test multi-threaded in-memory db access.
- Access rights: remember the owner of an object. Create, alter and drop privileges. COMMENT: allow owner of object to change it. Issue 208.
- Full outer joins.
- Support mixed clustering mode (one embedded, others in server mode).
Clustering reads should be randomly distributed (optional) or to a designated database on RAM (parameter: READ_FROM=3).

PostgreSQL catalog: use BEFORE SELECT triggers instead of views over metadata tables.

Compatibility: automatically load functions from a script depending on the mode - see FunctionsMySQL.java, issue 211.

Test very large databases and LOBs (up to 256 GB).

Support hints for the optimizer (which index to use, enforce the join order).

Sequence: add features [NO] MINVALUE, MAXVALUE, CYCLE.

Deferred integrity checking (DEFERRABLE INITIALLY DEFERRED).

Groovy Stored Procedures: http://groovy.codehaus.org/Groovy+SQL

Add a migration guide (list differences between databases).

Migrate database tool (also from other database engines). For Oracle, maybe use DBMS_METADATA.GET_DDL / GET_DEPENDENT_DDL.

Optimization: automatic index creation suggestion using the trace file?

Rebuild index functionality to shrink index size and improve performance.

Don't use deleteOnExit (bug 4513817: File.deleteOnExit consumes memory).

Add accesskey to most important commands (A, AREA, BUTTON, INPUT, LABEL, LEGEND, TEXTAREA).

Test performance again with SQL Server, Oracle, DB2.


Write more tests and documentation for MVCC (Multi Version Concurrency Control).

Find a tool to view large text file (larger than 100 MB), with find, page up and down (like less), truncate before / after.

Implement, test, document XAConnection and so on.

Pluggable data type (for streaming, hashing, compression, validation, conversion, encryption).

Find out what makes CHECK=TRUE slow, move to CHECK2.

Drop with invalidate views (so that source code is not lost). Check what other databases do exactly.

Index usage for (ID, NAME)=(1, 'Hi'); document.

Make DDL (Data Definition) operations transactional.

RANK() and DENSE_RANK(), Partition using OVER().

Set a connection read only (Connection.setReadOnly) or using a connection parameter.

Use an index for IS NULL and IS NOT NULL (including linked tables). ID IS NOT NULL could be converted to ID &gt;= Integer.MIN_VALUE.

Access rights: finer grained access control (grant access for specific functions).

Version check: docs / web console (using Javascript), and maybe in the library (using TCP/IP).

Override findResource / getResourceFrom.

Cost for embedded temporary view is calculated wrong, if result is constant.

Pluggable sort order: natural sort.

Count index range query (count(*) where id between 10 and 20).

Performance: update in-place.

Recursive Queries (see details).

Asynchronous queries to support publish/subscribe: SELECT ... FOR READ WAIT [maxMillisToWait]. See also MS SQL Server "Query Notification".

Fulltext search Lucene: analyzer configuration.
roadmap_1062_li=Linked schema using CSV files: one schema for a directory of files; support indexes for CSV files.
roadmap_1063_li=Report to support H2.
roadmap_1064_li=Implement missing JDBC API (CallableStatement,...).
roadmap_1065_li=Compression of the cache.
roadmap_1066_li=Include SMPT (mail) client (alert on cluster failure, low disk space,...).
roadmap_1067_li=JSON parser and functions.
roadmap_1068_li=Server: client ping from time to time (to avoid timeout - is timeout a problem?).
roadmap_1069_li=Copy database: tool with config GUI and batch mode, extensible (example: compare).
roadmap_1070_li=Document, implement tool for long running transactions using user-defined compensation statements.
roadmap_1071_li=Support SET TABLE DUAL READONLY.
roadmap_1072_li=GCJ: what is the state now?
roadmap_1074_li=Optimization: log compression.
roadmap_1075_li=ROW_NUMBER() OVER([ORDER BY columnName]).
roadmap_1076_li=Support standard INFORMATION_SCHEMA tables, as defined in http://www.contrib.andrew.cmu.edu/~shadow/sql/sql1992.txt - specially KEY_COLUMN_USAGE:
http://dev.mysql.com/doc/refman/5.0/en/information-schema.html,
http://www.xcdsql.org/Misc/INFORMATION_SCHEMA%20With%20Rolenames.gif
roadmap_1077_li=Compatibility: in MySQL, HSQLDB, /0.0 is NULL; in PostgreSQL, Derby: division by zero.
roadmap_1078_li=Functional tables should accept parameters from other tables (see FunctionMultiReturn) SELECT * FROM TEST T, P2C(T.A, T.R).
roadmap_1079_li=Custom class loader to reload functions on demand.
roadmap_1080_li=Clustering: when a database is back alive, automatically synchronize with the master.
roadmap_1081_li=Test http://mysql-je.sourceforge.net/
roadmap_1082_li=Performance: automatically build in-memory indexes if the whole table is in memory.
roadmap_1083_li=H2 Console: the webclient could support more features like phpMyAdmin.
roadmap_1084_li=Use Janino to convert Java to C++.
roadmap_1085_li=The HELP information schema can be directly exposed in the Console.
roadmap_1086_li=Maybe use the 0x1234 notation for binary fields, see MS SQL Server.
roadmap_1087_li=Support Oracle CONNECT BY in some way:
http://www.adp-gmbh.ch/ora/sql/connect_by.html
http://philip.greenspun.com/sql/trees.html
roadmap_1090_li=Version column (number/sequence and timestamp based).
roadmap_1091_li=Optimize getGeneratedKey: send last identity after each execute (server).
roadmap_1092_li=Test and document UPDATE TEST SET (ID, NAME) = (SELECT ID*10, NAME || '!' FROM TEST T WHERE T.ID = TEST.ID).
roadmap_1093_li=Max memory rows / max undo log size: use block count / row size not row count.
roadmap_1094_li=Support 123L syntax as in Java; example: SELECT (2000000000*2).
roadmap_1095_li=Implement point-in-time recovery.
roadmap_1096_li=LIKE: improved version for larger texts (currently using naive search).
roadmap_1097_li=Automatically convert to the next 'higher' data type whenever there is an overflow.
roadmap_1098_li=Throw an exception when the application calls getInt on a Long (optional).
roadmap_1099_li=Default date format for input and output (local date constants).
roadmap_1100_li=Support custom Collators.
roadmap_1102_li=File system that writes to two file systems (replication, replicating file system).
roadmap_1103_li=Standalone tool to get relevant system properties and add it to the trace output.
roadmap_1104_li=Support 'call proc(1=value)' (PostgreSQL, Oracle).
roadmap_1105_li=Console\: improve editing data (Tab, Shift-Tab, Enter, Up, Down, Shift+Del?).
roadmap_1106_li=Console\: autocomplete Ctrl+Space inserts template.
roadmap_1107_li=Option to encrypt .trace.db file.
roadmap_1108_li=Write Behind Cache on SATA leads to data corruption See also http://sr5tech.com/write_back_cache_experiments.htm and http://www.jasonbrome.com/blog/archives/2004/04/03/writecache_enabled.html
roadmap_1109_li=Functions with unknown return or parameter data types\: serialize / deserialize.
roadmap_1111_li=ResultSet SimpleResultSet.readFromURL(String url)\: id varchar, state varchar, released timestamp.
roadmap_1112_li=Partial indexing (see PostgreSQL).
roadmap_1113_li=Add GUI to build a custom version (embedded, fulltext,...) using build flags.
roadmap_1114_li=http://rubyforge.org/projects/hypersonic/
roadmap_1115_li=Add a sample application that runs the H2 unit test and writes the result to a file (so it can be included in the user app).
roadmap_1116_li=Count on a column that can not be null could be optimized to COUNT(*).
roadmap_1117_li=Table order\: ALTER TABLE TEST ORDER BY NAME DESC (MySQL compatibility).
roadmap_1118_li=Issue 159\: System property for the H2 Console and TCP configuration (which .h2.server.properties and .h2.keystore to use).
roadmap_1119_li=Backup tool should work with other databases as well.
roadmap_1120_li=Console\: -ifExists doesn't work for the console. Add a flag to disable other dbs.
roadmap_1121_li=Check if 'FSUTIL behavior set disablelastaccess 1' improves the performance (fsutil behavior query disablelastaccess).
roadmap_1122_li=Java static code analysis\: http://pmd.sourceforge.net/
roadmap_1123_li=Java static code analysis\: http://www.eclipse.org/tptp/
roadmap_1124_li=Compatibility for CREATE SCHEMA AUTHORIZATION.
roadmap_1125_li=Implement Clob / Blob truncate and the remaining functionality.
roadmap_1126_li=Tree join functionality.
roadmap_1127_li=Add multiple columns at the same time with ALTER TABLE .. ADD .. ADD ...
roadmap_1128_li=Use JDK 1.4 file locking for the database file and for the lock file (but not yet by default); writing a system property to detect concurrent access from the same VM (different classloaders).
roadmap_1129_li=Pure SQL triggers (example\: update parent table if the child table is changed).
roadmap_1130_li=Add H2 to Gem (Ruby install system).
roadmap_1131_li=Order conditions inside AND / OR to optimize the performance.
roadmap_1132_li=Support Oracle functions\: TRUNC, NVL2, TO_CHAR, TO_DATE, TO_NUMBER.
roadmap_1133_li=Support linked JCR tables
roadmap_1134_li=Read InputStream when executing, as late as possible (maybe only embedded mode). Problem with re-execute.
roadmap_1135_li=Native fulltext search\: min word length; store word positions
roadmap_1136_li=Add an option to the SCRIPT command to generate only portable / standard SQL
roadmap_1137_li=Updatable Views (simple cases first)
roadmap_1138_li=Improve create index performance
roadmap_1139_li=Implement more JDBC 4.0 features
roadmap_1140_li=Support TRANSFORM / PIVOT as in MS Access
roadmap_1141_li=SELECT * FROM (VALUES (...), (...), ....) AS alias(f1, ...)
roadmap_1142_li=Support updatable views with join on primary keys (to extend a table)
roadmap_1143_li=Public interface for functions (not public static)
roadmap_1144_li=Support reading the transaction log.
roadmap_1145_li=Eliminate undo log records if stored on disk (just one pointer per block, not per record)
roadmap_1147_li=Updatable result set on table without primary key or unique index.
roadmap_1148_li=Use LinkedList instead of ArrayList where applicable.
roadmap_1149_li=Support reading the transaction log.
roadmap_1150_li=Support updatable views with join on primary keys (to extend a table)
roadmap_1151_li=Support data type INTERVAL
roadmap_1152_li=Support % operator (modulo).
roadmap_1154_li=Support nested transactions.
roadmap_1155_li=Add a benchmark for big databases, and one for many users.
roadmap_1156_li=Compression in the result set (repeating values in the same column) over TCP/IP.
roadmap_1157_li=Support curtimestamp (like curtime, curdate).
roadmap_1158_li=Support ANALYZE {TABLE|INDEX} tableName COMPUTE|ESTIMATE|DELETE STATISTICS ptnOption options.
roadmap_1159_li=Release locks (shared or exclusive) on demand
roadmap_1160_li=Support OUTER UNION
roadmap_1161_li=Support parameterized views (similar to CSVREAD, but using just SQL for the definition)
roadmap_1162_li=Option for SCRIPT to only process one or a set of tables, and append to a file
roadmap_1163_li=Support linked tables to the current database
roadmap_1164_li=Support dynamic linked schema (automatically adding/updating/removing tables)
roadmap_1165_li=Clustering: adding a node should be very fast and without interrupting clients (very short lock)
roadmap_1166_li=Compatibility with Derby: VALUES(1), (2); SELECT * FROM (VALUES (1), (2)) AS myTable(c1)
roadmap_1167_li=Compatibility: \\# is the start of a single line comment (MySQL) but date quote (Access). Mode specific
roadmap_1168_li=Run benchmarks with JDK 1.5, JDK 1.6, java -server
roadmap_1169_li=Optimizations: faster hash function for strings, byte arrays
roadmap_1170_li=DatabaseEventListener: callback for all operations (including expected time, RUNSCRIPT) and cancel functionality
roadmap_1171_li=Benchmark: add a graph to show how databases scale (performance/database size)
roadmap_1172_li=Implement a SQLData interface to map your data over to a custom object
roadmap_1173_li=In the MySQL and PostgreSQL mode, use lower case identifiers by default (DatabaseMetaData.storesLowerCaseIdentifiers = true)
roadmap_1174_li=Support multiple directories (on different hard drives) for the same database
roadmap_1175_li=Server protocol: use challenge response authentication, but client sends hash(user+password) encrypted with response
roadmap_1176_li=Support EXECUTE (doesn't return a result set, compatible to MS SQL Server)
roadmap_1177_li=Support native XML data type
roadmap_1178_li=Support triggers with a string property or option\: SpringTrigger, OSGITrigger
roadmap_1179_li=Ability to resize the cache array when resizing the cache
roadmap_1180_li=Time based cache writing (one second after writing the log)
roadmap_1181_li=Check state of H2 driver for DDLUtils\: https://issues.apache.org/jira/browse/DDLUTILS-185
roadmap_1182_li=Index usage for REGEXP LIKE.
roadmap_1183_li=Compatibility\: add a role DBA (like ADMIN).
roadmap_1184_li=Better support multiple processors for in-memory databases.
roadmap_1185_li=Support N'text'
roadmap_1186_li=Support compatibility for jdbc\:hsqldb\:res:\
roadmap_1187_li=Provide an Java SQL builder with standard and H2 syntax
roadmap_1188_li=Trace\: write OS, file system, JVM,... when opening the database
roadmap_1189_li=Support indexes for views (probably requires materialized views)
roadmap_1190_li=Document SET SEARCH_PATH, BEGIN, EXECUTE, parameters
roadmap_1191_li=Use Desktop.isDesktopSupported and browse when using JDK 1.6
roadmap_1192_li=Server\: use one listener (detect if the request comes from an PG or TCP client)
roadmap_1193_li=Optimize SELECT MIN(ID), MAX(ID), COUNT(*) FROM TEST WHERE ID BETWEEN 100 AND 200
roadmap_1194_li=Sequence\: PostgreSQL compatibility (rename, create) http:\/\/www.postgresql.org/docs/8.2/static/sql-altersequence.html
roadmap_1195_li=DISTINCT\: support large result sets by sorting on all columns (additionally) and then removing duplicates.
roadmap_1196_li=Support a special trigger on all tables to allow building a transaction log reader.
roadmap_1197_li=File system with a background writer thread; test if this is faster
roadmap_1198_li=Better document the source code
roadmap_1199_li=Support select * from dual a left join dual b on b.x=(select max(x) from dual)
roadmap_1200_li=Optimization\: don’t lock when the database is read-only
roadmap_1201_li=Issue 146\: Support merge join.
roadmap_1202_li=Integrate spatial functions from http:\/\/geosysin.iict.ch\:irstv-trac\:wiki\:H2\:spatial\:Download
roadmap_1203_li=Cluster\: hot deploy (adding a node at runtime)
roadmap_1204_li=Compact databases without having to close the database (vacuum).
roadmap_1205_li=Support COSH, SINH, and TANH functions
roadmap_1206_li=Oracle\: support DECODE method (convert to CASE WHEN).
roadmap_1207_li=Native search\: support "phrase search", wildcard search (* and ?), case-insensitive search, boolean operators, and grouping
roadmap_1208_li=Improve documentation of access rights
roadmap_1209_li=Support ENUM data type (see MySQL, PostgreSQL, MS SQL Server, maybe others)
roadmap_1210_li=Remember the user defined data type (domain) of a column
roadmap_1211_li=Support Jackcess (MS Access databases)
roadmap_1212_li=Built-in methods to write large objects (BLOB and CLOB)\: FILE_WRITE(‘test.txt’, ‘Hello World’)
roadmap_1213_li=Improve time to open large databases (see mail ‘init time for distributed setup’)
roadmap_1214_li=Move Maven 2 repository from hsql.sf.net to h2database.sf.net
roadmap_1215_li=Java 1.5 tool\: JdbcUtils.closeSilently(s1, s2,..)
roadmap_1216_li=Javadoc\: document design patterns used
roadmap_1217_li=Write an article about SQLInjection (h2\:src\:docs\:html\:images\:SQLInjection.txt)
roadmap_1218_li=Convert SQL-injection-2.txt to html document, include SQLInjection.java sample
roadmap_1219_li=Support OUT parameters in user-defined procedures.
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 49975

roadmap_1220_li=Web site design:
http://www.igniterealtime.org/projects/openfire/index.jsp

roadmap_1221_li=HSQLDB compatibility:
Openfire server uses:
CREATE SCHEMA PUBLIC AUTHORIZATION DBA;
CREATE USER SA PASSWORD "";
GRANT DBA TO SA;
SET SCHEMA PUBLIC

roadmap_1222_li=Translation:
use ?? in help.csv

roadmap_1223_li=Translated .pdf

roadmap_1224_li=MySQL compatibility:
update test1 t1, test2 t2 set t1.id = t2.id where t1.id = t2.id;

roadmap_1225_li=Recovery tool:
bay blocks should be converted to INSERT INTO SYSTEM_ERRORS(...), and things should go into the .trace.db file

roadmap_1226_li=RECOVER=2 to backup the database, run recovery, open the database

roadmap_1227_li=Recovery should work with encrypted databases

roadmap_1228_li=Corruption:
new error code, add help

roadmap_1229_li=Space reuse:
after init, scan all storages and free those that don't belong to a live database object

roadmap_1230_li=Use FilterIn / FilterOut putStream?

roadmap_1231_li=Access rights:
add missing features (users should be 'owner' of objects; missing rights for sequences; dropping objects)

roadmap_1232_li=Support NOCACHE table option (Oracle).

roadmap_1233_li=Support table partitioning.

roadmap_1234_li=Index usage for UPDATE ... WHERE .. IN (SELECT...)

roadmap_1235_li=Add regular javadocs (using the default doclet, but another css) to the homepage.

roadmap_1236_li=The database should be kept open for a longer time when using the server mode.

roadmap_1237_li=Javadocs:
for each tool, add a copy & paste sample in the class level.

roadmap_1238_li=Javadocs:
add @author tags.

roadmap_1239_li=Fluent API for tools:
Server.createServer().setPort(9081).setPassword(password).start();

roadmap_1240_li=MySQL compatibility:
real SQL statement for DESCRIBE TEST

roadmap_1241_li=Use a default delay of 1 second before closing a database.

roadmap_1242_li=Write (log) to system table before adding to internal data structures.

roadmap_1243_li=Support very large deletes and updates.

roadmap_1244_li=Doclet (javadoc):
constructors are not listed.

roadmap_1245_li=Support direct lookup for MIN and MAX when using WHERE (see todo.txt / Direct Lookup).

roadmap_1246_li=Support other array types (String[], double[]) in PreparedStatement.setObject(int, Object);

roadmap_1247_li=MVCC should not be memory bound (uncommitted data is kept in memory in the delta index; maybe using a regular b-tree index solves the problem).

roadmap_1248_li=Oracle compatibility:
support NLS_DATE_FORMAT.

roadmap_1249_li=Cluster:
add feature to make sure cluster nodes can not get out of sync (for example by stopping one process).

roadmap_1250_li=H2 Console:
support CLOB/BLOB download using a link.

roadmap_1251_li=Support flashback queries as in Oracle.

roadmap_1252_li=Import / Export of fixed with text files.

roadmap_1253_li=Support getGeneratedKeys to return multiple rows when used with batch updates. This is supported by MySQL, but not Derby. Both PostgreSQL and HSQLDB don't support getGeneratedKeys. Also support it when using INSERT ... SELECT.

roadmap_1254_li=HSQLDB compatibility:
automatic data type for SUM if value is the value is too big (by default use the same type as the data).

roadmap_1255_li=Improve the optimizer to select the right index for special cases:
where id between 2 and 4

roadmap_1256_li=Linked tables:
make hidden columns available (Oracle:
rowid and ora_rowscn columns).

roadmap_1257_li=H2 Console:
in-place autocomplete.

roadmap_1258_li=Support large databases:
split database files to multiple directories / disks (similar to
tables). roadmap_1259_li=Support to assign a primary key index a user defined name.  
roadmap_1260_li=H2 Console: support configuration option for fixed width (monospace) font.  
roadmap_1262_li=Automatically compact databases from time to time (as a background process).  
roadmap_1263_li=Support GRANT SELECT, UPDATE ON *.
roadmap_1264_li=Test Eclipse DTP.  
roadmap_1265_li=H2 Console: autocomplete: keep the previous setting.  
roadmap_1266_li=MySQL, MS SQL Server compatibility: support case sensitive (mixed case) identifiers without quotes.  
roadmap_1267_li=executeBatch: option to stop at the first failed statement.  
roadmap_1268_li=Implement OLAP features as described here: http://www.devx.com/getHelpOn/10MinuteSolution/16573/0/page/5  
roadmap_1269_li=Support Oracle ROWID (unique identifier for each row).  
roadmap_1271_li=Applets: support read-only databases in a zip file (accessed as a resource).  
roadmap_1272_li=Long running queries / errors / trace system table.  
roadmap_1273_li=H2 Console should support JaQu directly.  
roadmap_1274_li=H2 Console: support single file upload and directory download (optional).  
roadmap_1275_li=Document FTL_SEARCH, FTL_SEARCH_DATA.  
roadmap_1276_li=Sequences: CURRVAL should be session specific. Compatibility with PostgreSQL.  
roadmap_1277_li=Support DatabaseMetaData.insertsAreDetected: updatable result sets should detect inserts.  
roadmap_1278_li=Auto-server: add option to define the IP address range or list.  
roadmap_1279_li=Index creation using deterministic functions.  
roadmap_1280_li=Support DELETE with TOP or LIMIT. See also: http://dev.mysql.com/doc/refman/5.1/de/delete.html  
roadmap_1281_li=ANALYZE: for unique indexes that allow null, count the number of null.  
roadmap_1282_li=AUTO_SERVER: support changing IP addresses (disable a network while the database is open).  
roadmap_1283_li=Avoid using java.util.Calendar internally because it’s slow, complicated, and buggy.  
roadmap_1284_li=Support TRUNCATE..CASCADE like PostgreSQL.  
roadmap_1285_li=Support opening a database that is in the classpath, maybe using a new file system.  
roadmap_1286_li=Fulltext search: lazy result generation using SimpleRowSource.  
roadmap_1287_li=Support transformation to join for user defined functions, as for IN(SELECT...).  
roadmap_1288_li=Fulltext search: support alternative syntax: WHERE FTL_CONTAINS(name, ‘hello’).  
roadmap_1289_li=MySQL compatibility: support REPLACE, see http://dev.mysql.com/doc/refman/5.1/de/replace.html  
roadmap_1290_li=MySQL compatibility: support INSERT INTO table SET column1 = value1, column2 = value2  
roadmap_1291_li=Docs: add a one line description for each functions and SQL statements at the top (in the link section).  
roadmap_1292_li=Javadoc search: weight for titles should be higher (‘random’ should list Functions as the best match).  
roadmap_1293_li=Replace information_schema tables with regular tables that are automatically re-built when needed. Use indexes.  
roadmap_1294_li=Delete temporary files or objects using finalize.  
roadmap_1296_li=MySQL, HSQLDB compatibility: support where 'a' = 1 (not supported by Derby, PostgreSQL).
roadmap_1297_li=Allow calling function with no parameters without parenthesis. See http://code.google.com/p/h2database/issues/detail?id=50
roadmap_1298_li=CSV: currently # is a line comment and can start at any field. Make it optional.

roadmap_1300_li=Add database creation date and time to the database.
roadmap_1301_li=Support ASSERTION.
roadmap_1303_li=MySQL compatibility: support comparing 1='a'
roadmap_1305_li=PostgreSQL compatibility: test DbVisualizer and Squirrel SQL using a new PostgreSQL JDBC driver.
roadmap_1306_li=RunScript should be able to read from system in (or quite mode for Shell).
roadmap_1307_li=Natural join: support select x from dual natural join dual.
roadmap_1308_li=Natural join: somehow support this: select a.x, b.x, x from dual a natural join dual b
roadmap_1309_li=Use the Java service provider mechanism to register file systems and function libraries.
roadmap_1310_li=MySQL compatibility: for auto_increment columns, convert 0 to next value (as when inserting NULL).
roadmap_1311_li=Optimization for multi-column IN: use an index if possible. Example: (A, B) IN((1, 2), (2, 3)).
roadmap_1312_li=Optimization for EXISTS: convert to inner join or IN(...) if possible.
roadmap_1313_li=Functions: support hashcode(value); cryptographic and fast
roadmap_1314_li=Serializable file lock: support long running queries.
roadmap_1315_li=Network: use 127.0.0.1 if other addresses don't work.
roadmap_1316_li=Pluggable network protocol (currently Socket/ServerSocket over TCP/IP) - see also TransportServer with master slave replication.
roadmap_1317_li=Select for update in mvcc mode: only lock the selected records.
roadmap_1318_li=Support reading JCR data: one table per node type; query table; cache option
roadmap_1319_li=OSGi: create a sample application, test, document.
roadmap_1320_li=help.csv: use complete examples for functions; run as test case.
roadmap_1321_li=Functions to calculate the memory and disk space usage of a table, a row, or a value.
roadmap_1322_li=Re-implement PooledConnection; use a lightweight connection object.
roadmap_1323_li=Doclet: convert tests in javadocs to a java class.
roadmap_1324_li=Doclet: format fields like methods, but support sorting by name and value.
roadmap_1325_li=Doclet: shrink the html files.
roadmap_1327_li=MySQL compatibility: support SET NAMES 'latin1' – See also http://code.google.com/p/h2database/issues/detail?id=56
roadmap_1329_li=Allow to scan index backwards starting with a value (to better support ORDER BY DESC).
roadmap_1331_li=Batch parameter for INSERT, UPDATE, and DELETE, and commit after each batch. See also MySQL DELETE.
roadmap_1332_li=MySQL compatibility: support ALTER TABLE .. MODIFY COLUMN.
roadmap_1333_li=Use a lazy and auto-close input stream (open resource when reading, close on eof).
roadmap_1334_li=PostgreSQL compatibility: generate_series.
roadmap_1335_li=Connection pool: 'reset session' command (delete temp tables, rollback, autocommit true).
roadmap_1336_li=Improve SQL documentation, see http://www.w3schools.com/sql/
roadmap_1337_li=MySQL compatibility: DatabaseMetaData.stores*() methods should return the same values. Test with SquirrelSQL.
roadmap_1338_li=MS SQL Server compatibility: support DATEPART syntax.
roadmap_1340_li=Support INTERVAL data type (see Oracle and others).
roadmap_1341_li=Combine Server and Console tool (only keep Server).
roadmap_1342_li=Store the Lucene index in the database itself.
roadmap_1344_li=Oracle compatibility: support DECODE(x, ...).
roadmap_1345_li=Console: Start Browser: if ip number changed, try localhost instead.
roadmap_1346_li=MVCC: compare concurrent update behavior with PostgreSQL and Oracle.
roadmap_1347_li=HSQLDB compatibility: CREATE FUNCTION (maybe using a Function interface).
roadmap_1348_li=HSQLDB compatibility: support CALL "java.lang.Math.sqrt"(2.0)
roadmap_1349_li=Support comma as the decimal separator in the CSV tool.
roadmap_1352_li=Compatibility: Java functions with SQL/PSM (Persistent Stored Modules) - need to find the documentation.
roadmap_1353_li=CACHE_SIZE: automatically use a fraction of Runtime.maxMemory - maybe automatically the second level cache.
roadmap_1355_li=PostgreSQL compatibility: when in PG mode, treat BYTEA data like PG.
roadmap_1357_li=Support \=ANY(array) as in PostgreSQL. See also http://www.postgresql.org/docs/8.0/interactive/arrays.html
roadmap_1358_li=IBM DB2 compatibility: support PREVIOUS VALUE FOR sequence.
roadmap_1359_li=MySQL compatibility: alter table add index i(c), add constraint c foreign key(c) references t(c);
roadmap_1360_li=Compatibility: use different LIKE ESCAPE characters depending on the mode (disable for Derby, HSQLDB, DB2, Oracle, MSSQLServer).
roadmap_1361_li=Oracle compatibility: support CREATE SYNONYM table FOR schema.table.
roadmap_1362_li=Optimize A=? OR B=? to UNION if the cost is lower.
roadmap_1363_li=FTP: document the server, including -ftpTask option to execute / kill remote processes
roadmap_1364_li=FTP: problems with multithreading?
roadmap_1365_li=FTP: implement SFTP / FTPS
roadmap_1366_li=FTP: access to a database (.csv for a table, a directory for a schema, a file for a lob, a script.sql file).
roadmap_1367_li=More secure default configuration if remote access is enabled.
roadmap_1368_li=Improve database file locking (maybe use native file locking). The current approach seems to be problematic if the file system is on a remote share (see Google Group 'Lock file modification time is in the future').
roadmap_1369_li=Document internal features such as BELONGS_TO_TABLE, NULL_TO_DEFAULT, SEQUENCE.
roadmap_1370_li=Issue 107: Prefer using the ORDER BY index if LIMIT is used.
roadmap_1371_li=An index on (id, name) should be used for a query: select * from t where s\=? order by i
roadmap_1372_li=Support reading sequences using DatabaseMetaData.getTables(null, null, null, new String["SEQUENCE"]). See PostgreSQL.
roadmap_1373_li=Add option to enable TCP_NODELAY using Socket.setTcpNoDelay(true).
roadmap_1374_li=Maybe disallow \= within database names (jdbc:h2:mem:MODE=Db2 means database name MODE=DB2).
roadmap_1375_li=Fast alter table add column.
roadmap_1376_li=Improve concurrency for in-memory database operations.
roadmap_1377_li=Issue 122: Support for connection aliases for remote tcp connections.
roadmap_1378_li=Fast scrambling (strong encryption doesn't help if the password is included in the application).
roadmap_1379_li=Support using system properties in database URLs (may be a security problem).
roadmap_1380_li=Issue 126: The index name should be "IDX_" plus the constraint name unless there is a conflict, in which case append a number.
roadmap_1381_li=Issue 127: Support activation/deactivation of triggers
roadmap_1382_li=Issue 130: Custom log event listeners
roadmap_1383_li=Issue 131: IBM DB2 compatibility: sysibm.sysdummy1
roadmap_1386_li=Cluster: support load balance with values for each server / auto detect.
roadmap_1387_li=FTL_SET_OPTION(keyString, valueString) with key stopWords at first.
roadmap_1388_li=Pluggable access control mechanism.
roadmap_1389_li=Fulltext search (Lucene): support streaming CLOB data.
roadmap_1390_li=Document/example how to create and read an encrypted script file.
roadmap_1392_li=Fulltext search (Lucene): only prefix column names with _ if they already start with _. Instead of DATA / QUERY / modified use _DATA, _QUERY, _MODIFIED if possible.
roadmap_1393_li=Support a way to create or read compressed encrypted script files using an API.
roadmap_1394_li=Scripting language support (Javascript).
roadmap_1395_li=The network client should better detect if the server is not an H2 server and fail early.
roadmap_1396_li=H2 Console: support CLOB/BLOB upload.
roadmap_1397_li=Move away from system properties where possible.
roadmap_1398_li=Database file lock: detect hibernate / standby / very slow threads (compare system time).
roadmap_1399_li=Automatic detection of redundant indexes.
roadmap_1400_li=Maybe reject join without "on" (except natural join).
roadmap_1401_li=Implement GiST (Generalized Search Tree for Secondary Storage).
roadmap_1402_li=Function to read a number of bytes/characters from an BLOB or CLOB.
roadmap_1404_li=Automatic mixed mode: support a port range list (to avoid firewall problems).
roadmap_1405_li=Support the pseudo column rowid, oid, _rowid_.
roadmap_1406_li=H2 Console / large result sets: stream early instead of keeping a whole result in-memory
roadmap_1407_li=Support TRUNCATE for linked tables.
roadmap_1408_li=UNION: evaluate INTERSECT before UNION (like most other database except Oracle).
roadmap_1409_li=Delay creating the information schema, and share metadata columns.
roadmap_1410_li=TCP Server: use a nonce (number used once) to protect unencrypted channels against replay attacks.
roadmap_1411_li=Simplify running scripts and recovery: CREATE FORCE USER (overwrites an existing user).
roadmap_1412_li=Support CREATE DATABASE LINK (a custom JDBC driver is already supported).
roadmap_1413_li=Issue 163: Allow to create foreign keys on metadata types.
roadmap_1414_li=Logback\: write a native DBAppender.
roadmap_1415_li=Cache size\: don't use more cache than what is available.
roadmap_1416_li=Tree index\: Instead of an AVL tree, use a general balanced trees or a scapegoat tree.
roadmap_1417_li=User defined functions\: allow to store the bytecode (of just the class, or the jar file of the extension) in the database.
roadmap_1418_li=Compatibility\: ResultSet.getObject() on a CLOB (TEXT) should return String for PostgreSQL and MySQL.
roadmap_1419_li=Optimizer\: WHERE X=\? AND Y IN(\?)\, it always uses the index on Y. Should be cost based.
roadmap_1420_li=Make the cache scan resistant (currently a small cache is faster than a large cache for large table scans).
roadmap_1421_li=Issue 178\: Optimizer\: index usage when both ascending and descending indexes are available.
roadmap_1422_li=Issue 179\: Related subqueries in HAVING clause
roadmap_1423_li=IBM DB2 compatibility\: NOT NULL WITH DEFAULT. Similar to MySQL
Mode.convertInsertNullToZero.
roadmap_1424_li=Creating primary key\: always create a constraint.
roadmap_1425_li=Support a data type "timestamp with timezone" using java.util.Calendar.
roadmap_1426_li=Maybe use a different page layout\: keep the data at the head of the page, and ignore the tail (don't store / read it). This may increase write / read performance depending on the file system.
roadmap_1427_li=Indexes of temporary tables are currently kept in-memory. Is this how it should be?
roadmap_1428_li=The Shell tool should support the same built-in commands as the H2 Console.
roadmap_1429_li=Maybe use PhantomReference instead of finalize.
roadmap_1430_li=Database file name suffix\: a way to use no or a different suffix (for example using a slash).
roadmap_1431_li=Database file name suffix\: should only have one dot by default. Example\: .h2db
roadmap_1432_li=Issue 196\: Function based indexes
roadmap_1433_li=Fix the disk space leak (killing the process at the exact right moment will increase the disk space usage; this space is not re-used). See TestDiskSpaceLeak.java
roadmap_1434_li=ROWNUM\: Oracle compatibility when used within a subquery. Issue 198.
roadmap_1435_li=Allow to access the database over HTTP (possibly using port 80) and a servlet in a REST way.
roadmap_1436_li=ODBC\: encrypted databases are not supported because the ;CIPHER= can not be set.
roadmap_1437_li=Support CLOB and BLOB update, specially conn.createBlob().setBinaryStream(1);
roadmap_1438_li=Optimizer\: index usage when both ascending and descending indexes are available. Issue 178.
roadmap_1439_li=Triggers\: support user defined execution order. Oracle\: CREATE OR REPLACE TRIGGER TEST_2 BEFORE INSERT ON TEST FOR EACH ROW FOLLOWS TEST_1. SQL specifies that multiple triggers should be fired in time-of-creation order. PostgreSQL uses name order, which was judged to be more convenient. Derby\: triggers are fired in the order in which they were created.
roadmap_1440_li=PostgreSQL compatibility\: combine "users" and "roles". See:\
http://www.postgresql.org/docs/8.1/interactive/user-manag.html
roadmap_1441_li=Improve documentation of system properties\: only list the property names, default values, and description.
roadmap_1442_li=Support running totals / cumulative sum using SUM(\ldots) OVER(\ldots).
roadmap_1443_li=Improve object memory size calculation. Use constants for known VMs, or use reflection to call java.lang.instrument.Instrumentation.getObjectSize(Object objectToSize)
roadmap_1444_li=Triggers\: NOT NULL checks should be done after running triggers (Oracle behavior, maybe others).
roadmap_1445_li=Log long running transactions (similar to long running statements).
roadmap_1446_li=Support schema specific domains.
roadmap_1447_li=Parameter data type is data type of other operand. Issue 205.
roadmap_1448_li=Some combinations of nested join with right outer join are not supported.
roadmap_1449_li=DatabaseEventListener.openConnection(id) and closeConnection(id).
roadmap_1450_li=Compatibility for data type CHAR (Derby, HSQLDB). Issue 212.
roadmap_1451_li=Compatibility with MySQL TIMESTAMPDIFF. Issue 209.
roadmap_1452_li=Optimizer: use a histogram of the data, especially for non-normal distributions.
roadmap_1453_li=Trigger: allow declaring as source code (like functions).
roadmap_1454_li=User defined aggregate: allow declaring as source code (like functions).
roadmap_1455_li=The error "table not found" is sometimes caused by using the wrong database. Add "(this database is empty)" to the exception message if applicable.
roadmap_1456_li=PostgreSQL compatibility: support escape with double \\.
roadmap_1457_li=Document the TCP server "management_db". Maybe include the IP address of the client.
roadmap_1459_h2=Not Planned
roadmap_1460_li=HSQLDB (did) support this: select id i from test where i<0 (other databases don't). Supporting it may break compatibility.
roadmap_1461_li=String.intern (so that Strings can be compared with \=\=) will not be used because some VMs have problems when used extensively.
roadmap_1462_li=In prepared statements, identifier names (table names and so on) can not be parameterized. Adding such a feature would complicate the source code without providing reasonable speedup, and would slow down regular prepared statements.

sourceError_1000_h1=Error Analyzer
sourceError_1001_a=Home
sourceError_1002_a=Input
sourceError_1003_h2=&nbsp; <a href="javascript:select('details')" id = "detailsTab">Details</a>&nbsp; <a href="javascript:select('source')" id = "sourceTab">Source Code</a>
sourceError_1004_p=Paste the error message and stack trace below and click on 'Details' or 'Source Code':
sourceError_1005_b=Error Code:
sourceError_1006_b=Product Version:
sourceError_1007_b=Message:
sourceError_1008_b=More Information:
sourceError_1009_b=Stack Trace:
sourceError_1010_b=Source File:
sourceError_1011_p=\ Raw file
sourceError_1012_p=(fast; only Firefox)
tutorial_1000_h1=Tutorial
tutorial_1001_a=\ Starting and Using the H2 Console
tutorial_1002_a=\ Special H2 Console Syntax
tutorial_1003_a=\ Settings of the H2 Console
tutorial_1004_a=\ Connecting to a Database using JDBC
tutorial_1005_a=\ Creating New Databases
tutorial_1006_a=\ Using the Server
tutorial_1007_a=\ Using Hibernate
tutorial_1008_a=\ Using TopLink and Glassfish
tutorial_1009_a=\ Using EclipseLink
tutorial_1010_a=\ Using Apache ActiveMQ
tutorial_1011_a=\ Using H2 within NetBeans
tutorial_1012_a=\ Using Databases in Web Applications
tutorial_1013_a=\ CSV (Comma Separated Values) Support
tutorial_1014_a=\ Upgrade, Backup, and Restore
tutorial_1015_a:\ Command Line Tools
tutorial_1016_a:\ The Shell Tool
tutorial_1017_a:\ Using OpenOffice Base
tutorial_1018_a:\ Java Web Start / JNLP
tutorial_1019_a:\ Using a Connection Pool
tutorial_1020_a:\ Fulltext Search
tutorial_1021_a:\ User-Defined Variables
tutorial_1022_a:\ Date and Time
tutorial_1023_a:\ Using Spring
tutorial_1024_h2=Starting and Using the H2 Console
tutorial_1025_p=\ The H2 Console application lets you access a SQL database using a browser interface. This can
be a H2 database, or another database that supports the JDBC API.
tutorial_1026_p=\ This is a client / server application, so both a server and a client (a browser) are required to run it.
tutorial_1027_p=\ Depending on your platform and environment, there are multiple ways to start the application:\
tutorial_1028_th=OS
tutorial_1029_th=Start
tutorial_1030_td=Windows
tutorial_1031_td=\ Click [Start], [All Programs], [H2], and [H2 Console (Command Line)]
tutorial_1032_td=\ When using the Sun JDK 1.5, a window with the title 'H2 Console ' should appear. When using
the Sun JDK 1.6, an icon will be added to the system tray:
tutorial_1033_td=\ If you don't get the window and the system tray icon, then maybe Java is not installed correctly
(in this case, try another way to start the application). A browser window should open and point to the Login page at
tutorial_1034_td=Windows
tutorial_1035_td=\ Open a file browser, navigate to <code>h2/bin</code>, and double click on
<code>h2.bat</code>. A console window appears. If there is a problem, you will see an error message in this window.
A browser window will open and point to the Login page (URL: <code>http://localhost:8082</code>).
tutorial_1036_td=Any
tutorial_1037_td=\ Double click on the <code>h2*.jar</code> file. This only works if the <code>.jar</code> suffix
is associated with java.
tutorial_1038_td=Any
tutorial_1039_td=\ Open a console window, navigate to the directory <code>h2/bin</code> and type:\
tutorial_1040_h3=Firewall
tutorial_1041_p=\ If you start the server, you may get a security warning from the firewall (if you have installed
one). If you don't want other computers in the network to access the application on your machine, you can let the
firewall block those connections. The connection from the local machine will still work. Only if you want other
computers to access the database on this computer, you need allow remote connections in the firewall.
tutorial_1043_p=\ It has been reported that when using Kaspersky 7.0 with firewall, the H2 Console is very slow
when connecting over the IP address. A workaround is to connect using localhost, however this only works on the
local machine.
tutorial_1044_p=\ A small firewall is already built into the server: other computers may not connect to the server by
default. To change this, go to 'Preferences' and select 'Allow connections from other computers'.
tutorial_1045_h3=Testing Java
tutorial_1046_p=\ To find out which version of Java is installed, open a command prompt and type:\
tutorial_1047_p=\ If you get an error message, you may need to add the Java binary directory to the path
environment variable.
tutorial_1048_h3=Error Message 'Port may be in use'
You can only start one instance of the H2 Console, otherwise you will get the following error message: "The Web server could not be started. Possible cause: another server is already running...". It is possible to start multiple console applications on the same computer (using different ports), but this is usually not required as the console supports multiple concurrent connections.

If the port is in use by another application, you may want to start the H2 Console on a different port. This can be done by changing the port in the file <code>.h2.server.properties</code>. This file is stored in the user directory (for Windows, this is usually in <code>Documents and Settings/username</code>). The relevant entry is webPort.

If the server started successfully, you can connect to it using a web browser. JavaScript needs to be enabled. If you started the server on the same computer as the browser, open the URL <code>http://localhost:8082</code>. If you want to connect to the application from another computer, you need to provide the IP address of the server, for example <code>http://192.168.0.2:8082</code>. If you enabled SSL on the server side, the URL needs to start with <code>https://</code>.

Multiple concurrent browser sessions are supported. As that the database objects reside on the server, the amount of concurrent work is limited by the memory available to the server application.

At the login page, you need to provide connection information to connect to a database. Set the JDBC driver class of your database, the JDBC URL, user name and password. If you are done, click [Connect]. You can save and reuse previously saved settings. The settings are stored in a properties file (see <a href="#console_settings">Settings of the H2 Console</a>).

Error messages in are shown in red. You can show/hide the stack trace of the exception by clicking on the message.

Additional database drivers to connect to other databases (MySQL, PostgreSQL, HSQLDB,...) can be registered by adding the Jar file location of the driver to the environment variables <code>H2DRIVERS</code> or <code>CLASSPATH</code>. Example (Windows): to add the database driver library <code>C:\Programs\hsqldb\lib\hsqldb.jar</code>, set the environment variable <code>H2DRIVERS</code> to <code>C:\Programs\hsqldb\lib\hsqldb.jar</code>. Multiple drivers can be set; each entry needs to be separated with a <code>;</code> (Windows) or <code>:`</code> (other operating systems). Spaces in the path names are supported. The settings must not be quoted.

The H2 Console application has three main panels: the toolbar on top, the tree on the left, and the query / result panel on the right. The database objects (for example, tables) are listed on the left panel. Type in a SQL command on the query panel and click 'Run'. The result of the command appears just below the command.

The table name and column names can be inserted in the script by clicking them in the tree. If you click on a table while the query is empty, then <code>SELECT * FROM ...</code> is added as well. While typing a query, the table that was used is automatically expanded in the tree. For example if you type <code>SELECT * FROM TEST T WHERE T.</code> then the table TEST is automatically expanded in the tree.

To log out of the database, click 'Disconnect' in the toolbar panel. However, the server is still running and ready to accept new sessions.

To stop the server, right click on the system tray icon and select [Exit]. If you don't have the
system tray icon, navigate to [Preferences] and click [Shutdown], press [Ctrl]+[C] in the console where the server was started (Windows), or close the console window.

The H2 Console supports a few built-in commands. Those are interpreted within the H2 Console, that means they work with any database. They need to be at the beginning of a statement (before any remarks), otherwise they are not parsed correctly. If in doubt, add `;' before the command.

<table>
<thead>
<tr>
<th>Command(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@autocommit_true;</td>
<td>Enable or disable autocommit.</td>
</tr>
<tr>
<td>@autocommit_false;</td>
<td></td>
</tr>
<tr>
<td>@cancel;</td>
<td>Cancel the currently running statement.</td>
</tr>
<tr>
<td>@columns null null TEST;</td>
<td>Display the result set in list format (each column on its own line, with row numbers).</td>
</tr>
<tr>
<td>@index_info null null TEST;</td>
<td></td>
</tr>
<tr>
<td>@tables;</td>
<td></td>
</tr>
<tr>
<td>@tables null null TEST;</td>
<td></td>
</tr>
</tbody>
</table>
| Call the corresponding DatabaseMetaData.get method. Patterns are case sensitive (usually identifiers are uppercase). For information about the parameters, see the javadoc documentation. Missing parameters at the end are set to null. The complete list of commands is:**
*<code> @attributes @best_row_identifier @catalogs @columns @column_privileges @cross_references @exported_keys @imported_keys @index_info @primary_keys @procedures @procedure_columns @schemas @super_tables @super_types @tables @table_privileges @table_types @type_info @udts @version_columns </code>* |
| @edit select * from test; | Use an updatable result set.                                               |
| @generated insert into test() values(); | Show the result of <code>Statement.getGeneratedKeys()</code>.               |
| @history;        | Show the command history.                                                   |
| @info;           | Display the result of various <code>Connection</code> and <code>DatabaseMetaData</code> methods. |
| @list select * from test; | Show the result set in list format (each column on its own line, with row numbers). |
| @loop 1000 select ?, ?/*rnd*/; | Run the statement this many times. Parameters (<code>?</code>) are set using a loop from 0 up to x - 1. Random values are used for each <code>?/*rnd*/</code>. A Statement object is used instead of a PreparedStatement if <code>@statement</code> is used. Result sets are read until <code>ResultSet.next()</code> returns <code>false</code>. Timing information is printed. |
| @loop 1000 @statement select ?; |                                                                             |
| @maxrows 20;     | Set the maximum number of rows to display.                                 |
| @memory;         | Show the used and free memory. This will call <code>System.gc()</code>.     |
| @parameter_meta @meta&nbsp;select&nbsp;1; |                                                                             |
| @meta&nbsp;select&nbsp;1; |                                                                             |
| List the <code>ResultsetMetaData</code> after running the query. |                                                                              |
| @parameter_meta @meta&nbsp;select&nbsp;?; |                                                                             |
| @parameter_meta&nbsp;select&nbsp;?; |                                                                             |
| Show the result of the <code>PreparedStatement.getParameterMetaData()</code> calls. | The
statement is not executed.
tutorial_1106_td=\ @prof_start;
tutorial_1107_td=\ call\&nbsp;hash(‘SHA256’,’,&nbsp;‘,’,&nbsp;1000000);
tutorial_1108_td=\ @prof_stop;
tutorial_1109_td=\ Start / stop the built-in profiling tool. The top 3 stack traces of the statement(s) between start and stop are listed (if there are 3).
tutorial_1110_td=\ @prof_stop;
tutorial_1111_td=\ @sleep 10;
tutorial_1112_td=\ @prof_stop;
tutorial_1113_td=\ Sleep for a number of seconds. Used to profile a long running query or operation that is running in another session (but in the same process).
tutorial_1114_td=\ @transaction_isolation;
tutorial_1115_td=\ @transaction_isolation&nbsp;2;
tutorial_1116_td=\ Display (without parameters) or change (with parameters 1, 2, 4, 8) the transaction isolation level.
tutorial_1117_h2=Settings of the H2 Console
tutorial_1118_p=\ The settings of the H2 Console are stored in a configuration file called <code>.h2.server.properties</code> in you user home directory. For Windows installations, the user home directory is usually <code>C:\\Documents and Settings\\[username]\</code>. The configuration file contains the settings of the application and is automatically created when the H2 Console is first started.
tutorial_1119_h2=Connecting to a Database using JDBC
tutorial_1120_p=\ To connect to a database, a Java application first needs to load the database driver, and then get a connection. A simple way to do that is using the following code:
tutorial_1121_p=\ This code first loads the driver (<code>Class.forName(…)</code>) and then opens a connection (using <code>DriverManager.getConnection()</code>). The driver name is <code>”org.h2.Driver”</code>. The database URL always needs to start with <code>jdbc:h2:*</code> to be recognized by this database. The second parameter in the <code>getConnection()</code> call is the user name (<code>”sa”</code> for System Administrator in this example). The third parameter is the password. In this database, user names are not case sensitive, but passwords are.
tutorial_1122_h2=Creating New Databases
tutorial_1123_p=\ By default, if the database specified in the URL does not yet exist, a new (empty) database is created automatically. The user that created the database automatically becomes the administrator of this database.
tutorial_1124_p=\ Auto-creating new database can be disabled, see <a href=“features.html#database_only_if_exists”>Opening a Database Only if it Already Exists</a>.
tutorial_1125_h2=Using the Server
tutorial_1126_p=\ H2 currently supports three server: a web server (for the H2 Console), a TCP server (for client/server connections) and an PG server (for PostgreSQL clients). Please note that only the web server supports browser connections. The servers can be started in different ways, one is using the <code>Server</code> tool.
tutorial_1127_h3=Starting the Server Tool from Command Line
tutorial_1128_p=\ To start the <code>Server</code> tool from the command line with the default settings, run:
tutorial_1129_p=\ This will start the tool with the default options. To get the list of options and default values, run:
tutorial_1130_p=\ There are options available to use other ports, and start or not start parts.
tutorial_1131_h3=Connecting to the TCP Server
tutorial_1132_p=\ To remotely connect to a database using the TCP server, use the following driver and database URL:
tutorial_1133_li=JDBC driver class: <code>org.h2.Driver</code>
tutorial_1134_li=Database URL: <code>jdbc:h2:tcp://localhost/-/test</code>
tutorial_1135_p=\ For details about the database URL, see also in Features. Please note that you can’t connection
with a web browser to this URL. You can only connect using a H2 client (over JDBC).

tutorial_1136_h3=Starting the TCP Server within an Application

Servers can also be started and stopped from within an application. Sample code:

tutorial_1138_h3=Stopping a TCP Server from Another Process

The TCP server can be stopped from another process. To stop the server from the command line, run:

tutorial_1140_p=\To stop the server from a user application, use the following code:

tutorial_1141_p=\This function will only stop the TCP server. If other server were started in the same process, they will continue to run. To avoid recovery when the databases are opened the next time, all connections to the databases should be closed before calling this method. To stop a remote server, remote connections must be enabled on the server. Shutting down a TCP server can be protected using the option <code>-tcpPassword</code> (the same password must be used to start and stop the TCP server).

tutorial_1142_h2=Using Hibernate

This database supports Hibernate version 3.1 and newer. You can use the HSQLDB Dialect, or the native H2 Dialect. Unfortunately the H2 Dialect included in some versions of Hibernate is buggy. A [patch for Hibernate](http://opensource.atlassian.com/projects/hibernate/browse/HHH-3401) has been submitted and is now applied. The dialect for the newest version of Hibernate is also available at <code>src/tools/org/hibernate/dialect/H2Dialect.java.txt</code>. You can rename it to <code>H2Dialect.java</code> and include this as a patch in your application, or upgrade to a version of Hibernate where this is fixed.

tutorial_1144_p=\When using compatibility modes such as <code>MODE=MySQL</code> when using Hibernate is not supported when using <code>H2Dialect</code>.

tutorial_1145_h2=Using TopLink and Glassfish

The H2 database is compatible with HSQLDB and PostgreSQL. To take advantage of H2 specific features, use the <code>H2Platform</code>. The source code of this platform is included in H2 at <code>src/tools/oracle/toplink/essentials/platform/database/DatabasePlatform.java.txt</code>. You will need to copy this file to your application, and rename it to .java. To enable it, change the following setting in persistence.xml:

tutorial_1147_p=\In old versions of Glassfish, the property name is <code>toplink.platform.class.name</code>. To use H2 within Glassfish, copy the h2*.jar to the directory <code>glassfish/glassfish/lib</code>.

tutorial_1149_p=\To use H2 within Glassfish, copy the h2*.jar to the directory <code>glassfish/glassfish/lib</code>.

tutorial_1150_h2=Using EclipseLink

The H2 database is compatible with HSQLDB and PostgreSQL. To take advantage of H2 specific features, use the <code>H2Platform</code>. If this platform is not available in your version of EclipseLink, you can use the OraclePlatform instead in many case. See also [H2Platform](http://wiki.eclipse.org/EclipseLink/Development/Incubator/Extensions/H2Platform).

tutorial_1152_h2=Using Apache ActiveMQ

When using H2 as the backend database for Apache ActiveMQ, please use the <code>TransactDatabaseLocker</code> instead of the default locking mechanism. Otherwise the database file will grow without bounds. The problem is that the default locking mechanism uses an uncommitted <code>UPDATE</code> transaction, which keeps the transaction log from shrinking (causes the database file to grow). Instead of using an <code>UPDATE</code> statement, the <code>TransactDatabaseLocker</code> uses <code>SELECT ... FOR UPDATE</code> which is not problematic. To use it, change the ApacheMQ
configuration element &lt;jdbcPersistenceAdapter&gt;.&lt;/code&gt; element, property
&lt;code&gt;databaseLocker=’org.apache.activemq.store.jdbc.adapter.TransactDatabaseLocker’&lt;/code&gt;. However,
using the MVCC mode will again result in the same problem. Therefore, please do not use the MVCC mode in this
case. Another (more dangerous) solution is to set &lt;code&gt;useDatabaseLock&lt;/code&gt; to false.
tutorial_1154_h2=Using H2 within NetBeans
tutorial_1155_p=\ The project &lt;a href=’’&gt;H2 Database Engine Support For NetBeans&lt;/a&gt; allows you to start and
stop the H2 server from within the IDE.
tutorial_1156_h2=Using Databases in Web Applications
tutorial_1157_p=\ There are multiple ways to access a database from within web applications. Here are some
examples if you use Tomcat or JBoss.
tutorial_1158_h3=Embedded Mode
tutorial_1159_p=\ The (currently) simplest solution is to use the database in the embedded mode, that means open a
connection in your application when it starts (a good solution is using a Servlet Listener, see below), or when a
session starts. A database can be accessed from multiple sessions and applications at the same time, as long as they
run in the same process. Most Servlet Containers (for example Tomcat) are just using one process, so this is not a
problem (unless you run Tomcat in clustered mode). Tomcat uses multiple threads and multiple classloaders. If
multiple applications access the same database at the same time, you need to put the database jar in the
&lt;code&gt;shared/lib&lt;/code&gt; or &lt;code&gt;server/lib&lt;/code&gt; directory. It is a good idea to open the database when the web
application starts, and close it when the web application stops. If using multiple applications, only one (any) of them
needs to do that. In the application, an idea is to use one connection per Session, or even one connection per request
(action). Those connections should be closed after use if possible (but it's not that bad if they don't get closed).
tutorial_1160_h3=Server Mode
tutorial_1161_p=\ The server mode is similar, but it allows you to run the server in another process.
tutorial_1162_h3=Using a Servlet Listener to Start and Stop a Database
tutorial_1163_p=\ Add the h2*.jar file to your web application, and add the following snippet to your web.xml file
(between the &lt;code&gt;context-param&lt;/code&gt; and the &lt;code&gt;filter&lt;/code&gt; section): 
tutorial_1164_p=\ For details on how to access the database, see the file &lt;code&gt;DbStarter.java&lt;/code&gt;. By default
this tool opens an embedded connection using the database URL &lt;code&gt;jdbc:h2:~/test&lt;/code&gt;, user name
&lt;code&gt;sa&lt;/code&gt;, and password &lt;code&gt;sa&lt;/code&gt;. If you want to use this connection within your servlet, you can
access as follows:
tutorial_1165_h3=DbStarter
tutorial_1166_p=\ can also start the TCP server, however this is disabled by default. To enable it, use the parameter
&lt;code&gt;db.tcpServer&lt;/code&gt; in the file &lt;code&gt;web.xml&lt;/code&gt;. Here is the complete list of options. These options
need to be placed between the &lt;code&gt;description&lt;/code&gt; tag and the &lt;code&gt;listener&lt;/code&gt; / &lt;code&gt;filter&lt;/code&gt;
tags:
tutorial_1167_p=\ When the web application is stopped, the database connection will be closed automatically. If the
TCP server is started within the &lt;code&gt;DbStarter&lt;/code&gt;, it will also be stopped automatically.
tutorial_1168_h3=Using the H2 Console Servlet
tutorial_1169_p=\ The H2 Console is a standalone application and includes its own web server, but it can be used as
a servlet as well. To do that, include the the &lt;code&gt;h2*.jar&lt;/code&gt; file in your application, and add the following
configuration to your &lt;code&gt;web.xml&lt;/code&gt;:

tutorial_1170_p=\ For details, see also &lt;code&gt;src/tools/WEB-INF/web.xml&lt;/code&gt;.
tutorial_1171_p=\ To create a web application with just the H2 Console, run the following command:

tutorial_1172_h2=CSV (Comma Separated Values) Support
tutorial_1173_p=\ The CSV file support can be used inside the database using the functions
&lt;code&gt;CSVREAD&lt;/code&gt; and &lt;code&gt;CSVWRITE&lt;/code&gt;, or it can be used outside the database as a standalone
tool.
tutorial_1174_h3=Reading a CSV File from Within a Database
tutorial_1175_p=A CSV file can be read using the function \texttt{CSVREAD}. Example:
tutorial_1176_h3=Importing Data from a CSV File
tutorial_1177_p=A fast way to load or import data (sometimes called 'bulk load') from a CSV file is to combine table creation with import. Optionally, the column names and data types can be set when creating the table. Another option is to use \texttt{INSERT INTO ... SELECT}.
tutorial_1178_h3=Writing a CSV File from Within a Database
tutorial_1179_p=The built-in function \texttt{CSVWRITE} can be used to create a CSV file from a query. Example:
tutorial_1180_h3=Writing a CSV File from a Java Application
tutorial_1181_p=The \texttt{Csv} tool can be used in a Java application even when not using a database at all. Example:
tutorial_1182_h3=Reading a CSV File from a Java Application
tutorial_1183_p=It is possible to read a CSV file without opening a database. Example:
tutorial_1184_h2=Upgrade, Backup, and Restore
tutorial_1185_h3=Database Upgrade
tutorial_1186_p=The recommended way to upgrade from one version of the database engine to the next version is to create a backup of the database (in the form of a SQL script) using the old engine, and then execute the SQL script using the new engine.
tutorial_1187_h3=Backup using the Script Tool
tutorial_1188_p=There are different ways to backup a database. For example, it is possible to copy the database files. However, this is not recommended while the database is in use. Also, the database files are not human readable and quite large. The recommended way to backup a database is to create a compressed SQL script file. This can be done using the \texttt{Script} tool:
tutorial_1189_p=It is also possible to use the SQL command \texttt{SCRIPT} to create the backup of the database. For more information about the options, see the SQL command \texttt{SCRIPT}. The backup can be done remotely, however the file will be created on the server side. The built in FTP server could be used to retrieve the file from the server.
tutorial_1190_h3=Restore from a Script
tutorial_1191_p=To restore a database from a SQL script file, you can use the \texttt{RunScript} tool:
tutorial_1192_p=For more information about the options, see the SQL command \texttt{RUNSCRIPT}. The restore can be done remotely, however the file needs to be on the server side. The built in FTP server could be used to copy the file to the server. It is also possible to use the SQL command \texttt{RUNSCRIPT} to execute a SQL script. SQL script files may contain references to other script files, in the form of \texttt{RUNSCRIPT} commands. However, when using the server mode, the references script files need to be available on the server side.
tutorial_1193_h3=Online Backup
tutorial_1194_p=The \texttt{BACKUP} SQL statement and the \texttt{Backup} tool both create a zip file with all database files. However, the contents of this file are not human readable.
tutorial_1195_p=Unlike than the \texttt{SCRIPT} statement, the \texttt{BACKUP} statement does not lock the database objects when using the multi-threaded mode, and therefore does not block other users. The resulting backup is transactionally consistent:
tutorial_1196_p=The \texttt{Backup} tool (\texttt{org.h2.tools.Backup}) can not be used to create an online backup; the database must not be in use while running this program.
tutorial_1197_p=Creating a backup by copying the database files while the database is running is not supported, except if the file systems support creating snapshots. The problem is that it can't be guaranteed that the data is copied in the right order.
tutorial_1198_h2=Command Line Tools
tutorial_1199_p=This database comes with a number of command line tools. To get more information about a tool,
tutorial_1200_p=start it with the parameter `--?', for example:
tutorial_1201_code=Backup
tutorial_1202_li=creates a backup of a database.
tutorial_1203_code=ChangeFileEncryption
tutorial_1204_li=allows changing the file encryption password or algorithm of a database.
tutorial_1205_code=Console
tutorial_1206_li=starts the browser based H2 Console.
tutorial_1207_code=ConvertTraceFile
tutorial_1208_li=converts a .trace.db file to a Java application and SQL script.
tutorial_1209_code=CreateCluster
tutorial_1210_li=creates a cluster from a standalone database.
tutorial_1211_code=DeleteDbFiles
tutorial_1212_li=deletes all files belonging to a database.
tutorial_1213_code=Recover
tutorial_1214_li=helps recovering a corrupted database.
tutorial_1215_code=Restore
tutorial_1216_li=restores a backup of a database.
tutorial_1217_code=RunScript
tutorial_1218_li=runs a SQL script against a database.
tutorial_1219_code=Script
tutorial_1220_li=allows converting a database to a SQL script for backup or migration.
tutorial_1221_code=Server
tutorial_1222_li=is used in the server mode to start a H2 server.
tutorial_1223_code=Shell
tutorial_1224_li=is a command line database tool.
tutorial_1225_p=The tools can also be called from an application by calling the main or another public method. For details, see the Javadoc documentation.
tutorial_1226_h2=The Shell Tool
tutorial_1227_p=The Shell tool is a simple interactive command line tool. To start it, type:
tutorial_1228_p=You will be asked for a database URL, JDBC driver, user name, and password. The connection setting can also be set as command line parameters. After connecting, you will get the list of options. The built-in commands don't need to end with a semicolon, but SQL statements are only executed if the line ends with a semicolon <code>;</code>. This allows to enter multi-line statements:
tutorial_1229_p=By default, results are printed as a table. For results with many column, consider using the list mode:
tutorial_1230_h2=Using OpenOffice Base
tutorial_1231_p=OpenOffice.org Base supports database access over the JDBC API. To connect to a H2 database using OpenOffice Base, you first need to add the JDBC driver to OpenOffice. The steps to connect to a H2 database are:
tutorial_1232_li=Start OpenOffice Writer, go to [Tools], [Options]
tutorial_1233_li=Make sure you have selected a Java runtime environment in OpenOffice.org / Java
tutorial_1234_li=Click [Class Path...], [Add Archive...]
tutorial_1235_li=Select your h2 jar file (location is up to you, could be wherever you choose)
tutorial_1236_li=Click [OK] (as much as needed), stop OpenOffice (including the Quickstarter)
tutorial_1237_li=Start OpenOffice Base
tutorial_1238_li=Connect to an existing database; select [JDBC]; [Next]
tutorial_1239_li=Example datasource URL: <code>jdbc:h2:~/test</code>
tutorial_1240_li=JDBC driver class: <code>org.h2.Driver</code>
tutorial_1241_p=\ Now you can access the database stored in the current users home directory.
tutorial_1242_p=\ To use H2 in NeoOffice (OpenOffice without X11):
tutorial_1243_li=In NeoOffice, go to [NeoOffice], [Preferences]
tutorial_1244_li=Look for the page under [NeoOffice], [Java]
tutorial_1245_li=Click [Class Path], [Add Archive...]
tutorial_1246_li=Select your h2 jar file (location is up to you, could be wherever you choose)
tutorial_1247_li=Click [OK] (as much as needed), restart NeoOffice.
tutorial_1248_p=\ Now, when creating a new database using the "Database Wizard":
tutorial_1249_li=Click [File], [New], [Database].
tutorial_1250_li=Select [Connect to existing database] and the select [JDBC]. Click next.
tutorial_1251_li=Example datasource URL: <code>jdbc:h2:~/test</code>
tutorial_1252_li=JDBC driver class: <code>org.h2.Driver</code>
tutorial_1253_p=\ Another solution to use H2 in NeoOffice is:
tutorial_1254_li=Package the h2 jar within an extension package
tutorial_1255_li=Install it as a Java extension in NeoOffice
tutorial_1256_p=\ This can be done by create it using the NetBeans OpenOffice plugin. See also <a href="http://wiki.services.openoffice.org/wiki/Extensions_development_java"&gt;Extensions Development</a>.
tutorial_1257_h2=Java Web Start / JNLP
tutorial_1258_p=\ When using Java Web Start / JNLP (Java Network Launch Protocol), permissions tags must be
tutorial_1259_h2=set in the .jnlp file, and the application .jar file must be signed. Otherwise, when trying to write to the file system,
tutorial_1260_h2=the following exception will occur: <code>java.security.AccessControlException</code>: access denied
tutorial_1261_h2=(<code>java.io.FilePermission ... read</code>). Example permission tags:
tutorial_1262_h2=Using a Connection Pool
tutorial_1263_p=\ For H2, opening a connection is fast if the database is already open. Still, using a connection pool
tutorial_1264_p=\ improves performance if you open and close connections a lot. A simple connection pool is included in H2. It is
tutorial_1265_h2=based on the <a href="http://www.sourceforge.net/tutorials/java/Mini Connection Pool Manager</a> from
tutorial_1266_h2=Christian d'Heureuse. There are other, more complex, open source connection pools available, for example the <a href="http://jakarta.apache.org/commons/dbcp/">Apache Commons DBCP</a>. For H2, it is about twice as faster
tutorial_1267_h2=to get a connection from the built-in connection pool than to get one using
tutorial_1268_p=\ <code>DriverManager.getConnection()</code>.
tutorial_1269_p=\ The build-in connection pool is used as follows:
tutorial_1270_h2=Fulltext Search
tutorial_1271_p=\ H2 includes two fulltext search implementations. One is using Apache Lucene, and the other (the
tutorial_1272_p=\ native implementation) stores the index data in special tables in the database.
tutorial_1273_h3=Using the Native Fulltext Search
tutorial_1274_p=To initialize, call:
tutorial_1275_p=\ You need to initialize it in each database where you want to use it. Afterwards, you can create a
tutorial_1276_p=\ fulltext index for a table using:
tutorial_1277_p=\ PUBLIC is the schema name, TEST is the table name. The list of column names (column
tutorial_1278_p=\ separated) is optional, in this case all columns are indexed. The index is updated in realtime. To search the index,
tutorial_1279_p=\ use the following query:
tutorial_1280_p=\ This will produce a result set that contains the query needed to retrieve the data:
tutorial_1281_p=\ To get the raw data, use <code>FT_SEARCH_DATA('Hello', 0, 0);</code>. The result contains
tutorial_1282_p=\ the columns <code>SCHEMA</code> (the schema name), <code>TABLE</code> (the table name),
tutorial_1283_p=\ <code>COLUMNS</code> (an array of column names), and <code>KEYS</code> (an array of objects). To join a
tutorial_1284_p=\ table, use a join as in:
"\<code>SELECT T.* FROM FT_SEARCH_DATA('Hello', 0, 0) FT, TEST T WHERE
tutorial_1285_p=\ FT.TABLE='TEST' AND T.ID=FT.KEYS[0];</code>"
tutorial_1286_p=\ You can also call the index from within a Java application:"
Using the Lucene Fulltext Search

To use the Lucene full text search, you need the Lucene library in the classpath. How to do that depends on the application; if you use the H2 Console, you can add the Lucene jar file to the environment variables <code>H2DRIVERS</code> or <code>CLASSPATH</code>. To initialize the Lucene fulltext search in a database, call:

You need to initialize it in each database where you want to use it. Afterwards, you can create a full text index for a table using:

This will produce a result set that contains the query needed to retrieve the data:

To get the raw data, use <code>FTL_SEARCH_DATA('Hello', 0, 0);</code>. The result contains the columns <code>SCHEMA</code> (the schema name), <code>TABLE</code> (the table name), <code>COLUMN</code>s (an array of column names), and <code>KEYS</code> (an array of objects). To join a table, use a join as in:

You can also call the index from within a Java application:

This database supports user-defined variables. Variables start with <code>@</code> and can be used wherever expressions or parameters are allowed. Variables are not persisted and session scoped, that means only visible from within the session in which they are defined. A value is usually assigned using the SET command:

The value can also be changed using the SET() method. This is useful in queries:

Variables that are not set evaluate to <code>NULL</code>. The data type of a user-defined variable is the data type of the value assigned to it, that means it is not necessary (or possible) to declare variable names before using them. There are no restrictions on the assigned values; large objects (LOBs) are supported as well.

Use the following configuration to start and stop the H2 TCP server using the Spring Framework:

The <code>destroy-method</code> will help prevent exceptions on hot-redeployment or when restarting the server.

---

Found in path(s):

* /opt/cola/permits/1362377181_1657710873.5984848/0/h2-1-2-140-wso2v3-source-tar-gz/h2-1.2.140-wso2v3/repo/h2-1/2/140-wso2v3/h2-1.2.140-wso2v3/src/docs/textbase/_docs_en.properties

No license file was found, but licenses were detected in source scan.
Result Sets

Large Objects

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Recursive Queries

Transaction Isolation

Multi-Version Concurrency Control (MVCC)

Clustering / High Availability

Two Phase Commit

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Universally Unique Identifiers (UUID)

Settings Read from System Properties

Setting the Server Bind Address

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Database Upgrade

Limits and Limitations

Glossary and Links

Result Sets

Statements that Return a Result Set
The following statements return a result set: `<code>SELECT, EXPLAIN, CALL, SCRIPT, SHOW, HELP</code>.
All other statements return an update count.

Limiting the Number of Rows

Before the result is returned to the application, all rows are read by the database. Server side cursors are not supported currently. If only the first few rows are interesting for the application, then the result set size should be limited to improve the performance. This can be done using `<code>LIMIT</code>` in a query (example: `<code>SELECT * FROM TEST LIMIT 100</code>`), or by using `<code>Statement.setMaxRows(max)</code>`.

Large Result Sets and External Sorting

For large result set, the result is buffered to disk. The threshold can be defined using the statement `<code>SET MAX_MEMORY_ROWS</code>`. If `<code>ORDER BY</code>` is used, the sorting is done using an external sort algorithm. In this case, each block of rows is sorted using quick sort, then written to disk; when reading the data, the blocks are merged together.

Large Objects

Storing and Reading Large Objects

If it is possible that the objects don't fit into memory, then the data type CLOB (for textual data) or BLOB (for binary data) should be used. For these data types, the objects are not fully read into memory, by using streams. To store a BLOB, use `<code>PreparedStatement.setBinaryStream</code>`. To store a CLOB, use `<code>PreparedStatement.setCharacterStream</code>`. To read a BLOB, use `<code>ResultSet.getBinaryStream</code>`, and to read a CLOB, use `<code>ResultSet.getCharacterStream</code>`. When using the client/server mode, large BLOB and CLOB data is stored in a temporary file on the client side.

When to use CLOB/BLOB

This database stores large LOB (CLOB and BLOB) objects as separate files. Small LOB objects are stored in-place, the threshold can be set using `<a href="grammar.html#set_max_length_inplace_lob" class="notranslate">MAX_LENGTH_INPLACE_LOB</a>`, but there is still an overhead to use CLOB/BLOB. Because of this, BLOB and CLOB should never be used for columns with a maximum size below about 200 bytes. The best threshold depends on the use case; reading in-place objects is faster than reading from separate files, but slows down the performance of operations that don't involve this column.
Large Object Compression

CLOB and BLOB values can be compressed by using `SET COMPRESS_LOB`. The LZF algorithm is faster but needs more disk space. By default compression is disabled, which usually speeds up write operations. If you store many large compressible values such as XML, HTML, text, and uncompressed binary files, then compressing can save a lot of disk space (sometimes more than 50%), and read operations may even be faster.

Linked Tables

This database supports linked tables, which means tables that don't exist in the current database but are just links to another database. To create such a link, use the `CREATE LINKED TABLE` statement:

You can then access the table in the usual way. Whenever the linked table is accessed, the database issues specific queries over JDBC. Using the example above, if you issue the query `SELECT * FROM LINK WHERE ID=1`, then the following query is run against the PostgreSQL database: `SELECT * FROM TEST WHERE ID=?`. The same happens for insert and update statements. Only simple statements are executed against the target database, that means no joins. Prepared statements are used where possible.

To view the statements that are executed against the target table, set the trace level to 3.

If multiple linked tables point to the same database (using the same database URL), the connection is shared. To disable this, set the system property `h2.shareLinkedConnections=false`.

The statement `CREATE LINKED TABLE` supports an optional schema name parameter.

Transaction Isolation

Transaction isolation is provided for all data manipulation language (DML) statements. Most data definition language (DDL) statements commit the current transaction. See the `Grammar` for details.

This database supports the following transaction isolation levels:

Read Committed
This is the default level. Read locks are released immediately after executing the statement, but write locks are kept until the transaction commits. Higher concurrency is possible when using this level.

To enable, execute the SQL statement `<code>SET LOCK_MODE 3</code>`

or append `<code>;LOCK_MODE=3</code>` to the database URL: `<code>jdbc:h2:~/test;LOCK_MODE=3</code>`

Serializable

Both read locks and write locks are kept until the transaction commits. To enable, execute the SQL statement `<code>SET LOCK_MODE 1</code>`

or append `<code>;LOCK_MODE=1</code>` to the database URL: `<code>jdbc:h2:~/test;LOCK_MODE=1</code>`

Read Uncommitted

This level means that transaction isolation is disabled.

To enable, execute the SQL statement `<code>SET LOCK_MODE 0</code>`

or append `<code>;LOCK_MODE=0</code>` to the database URL: `<code>jdbc:h2:~/test;LOCK_MODE=0</code>`

When using the isolation level 'serializable', dirty reads, non-repeatable reads, and phantom reads are prohibited.

Dirty Reads

Means a connection can read uncommitted changes made by another connection.

Possible with: read uncommitted

Non-Repeatable Reads
A connection reads a row, another connection changes a row and commits, and the first connection re-reads the same row and gets the new result.

Possible with: read uncommitted, read committed

Phantom Reads

A connection reads a set of rows using a condition, another connection inserts a row that falls in this condition and commits, then the first connection re-reads using the same condition and gets the new row.

Possible with: read uncommitted, read committed

Table Level Locking

The database allows multiple concurrent connections to the same database. To make sure all connections only see consistent data, table level locking is used by default. This mechanism does not allow high concurrency, but is very fast. Shared locks and exclusive locks are supported. Before reading from a table, the database tries to add a shared lock to the table (this is only possible if there is no exclusive lock on the object by another connection). If the shared lock is added successfully, the table can be read. It is allowed that other connections also have a shared lock on the same object. If a connection wants to write to a table (update or delete a row), an exclusive lock is required. To get the exclusive lock, other connection must not have any locks on the object. After the connection commits, all locks are released. This database keeps all locks in memory. When a lock is released, and multiple connections are waiting for it, one of them is picked at random.

Lock Timeout

If a connection cannot get a lock on an object, the connection waits for some amount of time (the lock timeout). During this time, hopefully the connection holding the lock commits and it is then possible to get the lock. If this is not possible because the other connection does not release the lock for some time, the unsuccessful connection will get a lock timeout exception. The lock timeout can be set individually for each connection.

Multi-Version Concurrency Control (MVCC)

The MVCC feature allows higher concurrency than using (table level or row level) locks. When using MVCC in this database, delete, insert and update operations will only issue a shared lock on the table. An exclusive lock is still used when adding or removing columns, when dropping the table, and when using $<code>SELECT ... FOR UPDATE</code>$. Connections only ‘see’ committed data, and own changes. That means, if connection A updates a
row but doesn't commit this change yet, connection B will see the old value. Only when the change is committed, the new value is visible by other connections (read committed). If multiple connections concurrently try to update the same row, the database waits until it can apply the change, but at most until the lock timeout expires.

To use the MVCC feature, append `<code>;MVCC=TRUE</code>` to the database URL:

MVCC is disabled by default. The MVCC feature is not fully tested yet. The limitations of the MVCC mode are: it can not be used at the same time as `<code>MULTI_THREADED=TRUE</code>`; the complete undo log must fit in memory when using multi-version concurrency (the setting `<code>MAX_MEMORY_UNDO</code>` has no effect). It is not possible to enable or disable this setting while the database is already open. The setting must be specified in the first connection (the one that opens the database).

Clustering / High Availability

This database supports a simple clustering / high availability mechanism. The architecture is: two database servers run on two different computers, and on both computers is a copy of the same database. If both servers run, each database operation is executed on both computers. If one server fails (power, hardware or network failure), the other server can still continue to work. From this point on, the operations will be executed only on one server until the other server is back up.

Clustering can only be used in the server mode (the embedded mode does not support clustering). The cluster can be re-created using the `<code>CreateCluster</code>` tool without stopping the remaining server. Applications that are still connected are automatically disconnected, however when appending `<code>;AUTO_RECONNECT=TRUE</code>`, they will recover from that.

To initialize the cluster, use the following steps:

Create a database

Use the `<code>CreateCluster</code>` tool to copy the database to another location and initialize the clustering. Afterwards, you have two databases containing the same data.

Start two servers (one for each copy of the database)

You are now ready to connect to the databases with the client application(s)

Using the CreateCluster Tool
To understand how clustering works, please try out the following example. In this example, the two databases reside on the same computer, but usually, the databases will be on different servers.

Create two directories: `<code>server1, server2</code>`. Each directory will simulate a directory on a computer.

Start a TCP server pointing to the first directory. You can do this using the command line:

Start a second TCP server pointing to the second directory. This will simulate a server running on a second (redundant) computer. You can do this using the command line:

Use the `<code>CreateCluster</code>` tool to initialize clustering. This will automatically create a new, empty database if it does not exist. Run the tool on the command line:

You can now connect to the databases using an application or the H2 Console using the JDBC URL `<code>jdbc:h2:tcp://localhost:9101,localhost:9102/~/test</code>`.

If you stop a server (by killing the process), you will notice that the other machine continues to work, and therefore the database is still accessible.

To restore the cluster, you first need to delete the database that failed, then restart the server that was stopped, and re-run the `<code>CreateCluster</code>` tool.

Detect Which Cluster Instances are Running

To find out which cluster nodes are currently running, execute the following SQL statement:

If the result is `<code>''</code>` (two single quotes), then the cluster mode is disabled. Otherwise, the list of servers is returned, enclosed in single quote. Example: `<code>'server1:9191,server2:9191'</code>`.

Clustering Algorithm and Limitations

Read-only queries are only executed against the first cluster node, but all other statements are executed against all nodes. There is currently no load balancing made to avoid problems with transactions. The following functions may yield different results on different cluster nodes and must be executed with care: `<code>RANDOM_UUID()</code>`.
SECURE_RAND(), SESSION_ID(), MEMORY_FREE(), MEMORY_USED(), CSVREAD(), CSVWRITE(), RAND() [when not using a seed]. Those functions should not be used directly in modifying statements (for example INSERT, UPDATE, MERGE). However, they can be used in read-only statements and the result can then be used for modifying statements.

When using the cluster modes, result sets are read fully in memory by the client, so that there is no problem if the server dies that executed the query. Result sets must fit in memory on the client side.

Two Phase Commit

The two phase commit protocol is supported. 2-phase-commit works as follows:

1. Autocommit needs to be switched off
2. A transaction is started, for example by inserting a row
3. The transaction is marked 'prepared' by executing the SQL statement PREPARE COMMIT transactionName
4. The transaction can now be committed or rolled back
5. If a problem occurs before the transaction was successfully committed or rolled back (for example because a network problem occurred), the transaction is in the state 'in-doubt'
6. When re-connecting to the database, the in-doubt transactions can be listed with SELECT * FROM INFORMATION_SCHEMA.IN_DOUBT
7. Each transaction in this list must now be committed or rolled back by executing COMMIT TRANSACTION transactionName or ROLLBACK TRANSACTION transactionName
8. The database needs to be closed and re-opened to apply the changes

Compatibility

This database is (up to a certain point) compatible to other databases such as HSQLDB, MySQL and PostgreSQL.
There are certain areas where H2 is incompatible.

Transaction Commit when Autocommit is On

At this time, this database engine commits a transaction (if autocommit is switched on) just before returning the result. For a query, this means the transaction is committed even before the application scans through the result set, and before the result set is closed. Other database engines may commit the transaction in this case when the result set is closed.

Keywords / Reserved Words

There is a list of keywords that can't be used as identifiers (table names, column names and so on), unless they are quoted (surrounded with double quotes). The list is currently:

CROSS, CURRENT_DATE, CURRENT_TIME, CURRENT_TIMESTAMP, DISTINCT, EXCEPT, EXISTS, FALSE, FOR, FROM, FULL, GROUP, HAVING, INNER, INTERSECT, IS, JOIN, LIKE, LIMIT, MINUS, NATURAL, NOT, NULL, ON, ORDER, PRIMARY, ROWNUM, SELECT, SYSDATE, SYSTIME, SYSTIMESTAMP, TODAY, TRUE, UNION, UNIQUE, WHERE

Certain words of this list are keywords because they are functions that can be used without '(' for compatibility, for example `<code>CURRENT_TIMESTAMP</code>`.  

Standards Compliance

This database tries to be as much standard compliant as possible. For the SQL language, ANSI/ISO is the main standard. There are several versions that refer to the release date: SQL:92, SQL:1999, and SQL:2003. Unfortunately, the standard documentation is not freely available. Another problem is that important features are not standardized. Whenever this is the case, this database tries to be compatible to other databases.

Run as Windows Service

Using a native wrapper / adapter, Java applications can be run as a Windows Service. There are various tools available to do that. The Java Service Wrapper from `<a href="http://wrapper.tanukisoftware.org">Tanuki Software, Inc.</a>` is included in the installation. Batch files are provided to install, start, stop and uninstall the H2 Database Engine Service. This service contains the TCP Server and the H2 Console web application. The batch files are located in the directory `<code>h2/service</code>`. 

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 50001
Install the Service

@advanced_1129_p
The service needs to be registered as a Windows Service first. To do that, double click on 
<code>1_install_service.bat</code>. If successful, a command prompt window will pop up and disappear 
immediately. If not, a message will appear.

@advanced_1130_h3
Start the Service

@advanced_1131_p
You can start the H2 Database Engine Service using the service manager of Windows, or by double clicking on 
<code>2_start_service.bat</code>. Please note that the batch file does not print an error message if the service is not 
installed.

@advanced_1132_h3
Connect to the H2 Console

@advanced_1133_p
After installing and starting the service, you can connect to the H2 Console application using a browser. Double 
clicking on <code>3_start_browser.bat</code> to do that. The default port (8082) is hard coded in the batch file.

@advanced_1134_h3
Stop the Service

@advanced_1135_p
To stop the service, double click on <code>4_stop_service.bat</code>. Please note that the batch file does not print 
an error message if the service is not installed or started.

@advanced_1136_h3
Uninstall the Service

@advanced_1137_p
To uninstall the service, double click on <code>5_uninstall_service.bat</code>. If successful, a command prompt 
window will pop up and disappear immediately. If not, a message will appear.

@advanced_1138_h3
Additional JDBC drivers

@advanced_1139_p
To use other databases (for example MySQL), the location of the JDBC drivers of those databases need to be added 
to the environment variables <code>H2DRIVERS</code> or <code>CLASSPATH</code> before installing the 
service. Multiple drivers can be set; each entry needs to be separated with a <code>;</code> (Windows) or 
<code>:</code> (other operating systems). Spaces in the path names are supported. The settings must not be quoted.

@advanced_1140_h2
ODBC Driver
This database does not come with its own ODBC driver at this time, but it supports the PostgreSQL network protocol. Therefore, the PostgreSQL ODBC driver can be used. Support for the PostgreSQL network protocol is quite new and should be viewed as experimental. It should not be used for production applications.

To use the PostgreSQL ODBC driver on 64 bit versions of Windows, first run <code>c:/windows/syswow64/odbcad32.exe</code>. At this point you set up your DSN just like you would on any other system. See also: <a href="http://archives.postgresql.org/pgsql-odbc/2005-09/msg00125.php">Re: ODBC Driver on Windows 64 bit</a>

ODBC Installation

First, the ODBC driver must be installed. Any recent PostgreSQL ODBC driver should work, however version 8.2 (<code>psqlodbc-08_02*</code>) or newer is recommended. The Windows version of the PostgreSQL ODBC driver is available at <a href="http://www.postgresql.org/ftp/odbc/versions/msi">http://www.postgresql.org/ftp/odbc/versions/msi</a>.

Starting the Server

After installing the ODBC driver, start the H2 Server using the command line:

The PG Server (PG for PostgreSQL protocol) is started as well. By default, databases are stored in the current working directory where the server is started. Use <code>-baseDir</code> to save databases in another directory, for example the user home directory:

The PG server can be started and stopped from within a Java application as follows:

By default, only connections from localhost are allowed. To allow remote connections, use <code>-pgAllowOthers</code> when starting the server.

ODBC Configuration

After installing the driver, a new Data Source must be added. In Windows, run <code>odbcad32.exe</code> to open the Data Source Administrator. Then click on 'Add...' and select the PostgreSQL Unicode driver. Then click 'Finish'. You will be able to change the connection properties. The property column represents the property key in the <code>odbc.ini</code> file (which may be different from the GUI).
<table>
<thead>
<tr>
<th>Property</th>
<th>Example</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data Source</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>H2 Test</strong></td>
<td><strong>The name of the ODBC Data Source</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Database</strong></td>
<td>~test;ifexists=true</td>
<td>The database name. This can include connections settings.</td>
</tr>
<tr>
<td><strong>Servername</strong></td>
<td><strong>localhost</strong></td>
<td>By default, only remote connections are allowed</td>
</tr>
</tbody>
</table>

By default, the database is stored in the current working directory except when the -baseDir setting is used. The name must be at least 3 characters.
Username
sa

The database user name.

SSL
false (disabled)

At this time, SSL is not supported.

Port
5435

The port where the PG Server is listening.

Password
sa

The database password.

To improve performance, please enable 'server side prepare' under Options / Datasource / Page 2 / Server side prepare.

Afterwards, you may use this data source.

PG Protocol Support Limitations

At this time, only a subset of the PostgreSQL network protocol is implemented. Also, there may be compatibility
problems on the SQL level, with the catalog, or with text encoding. Problems are fixed as they are found. Currently, statements can not be canceled when using the PG protocol. Also, H2 does not provide index meta over ODBC.

PostgreSQL ODBC Driver Setup requires a database password; that means it is not possible to connect to H2 databases without password. This is a limitation of the ODBC driver.

Security Considerations

Currently, the PG Server does not support challenge response or encrypt passwords. This may be a problem if an attacker can listen to the data transferred between the ODBC driver and the server, because the password is readable to the attacker. Also, it is currently not possible to use encrypted SSL connections. Therefore the ODBC driver should not be used where security is important.

Using Microsoft Access

When using Microsoft Access to edit data in a linked H2 table, you may need to enable the following option: Tools - Options - Edit/Find - ODBC fields.

Using H2 in Microsoft .NET

The database can be used from Microsoft .NET even without using Java, by using IKVM.NET. You can access a H2 database on .NET using the JDBC API, or using the ADO.NET interface.

Using the ADO.NET API on .NET

An implementation of the ADO.NET interface is available in the open source project <a href="http://code.google.com/p/h2sharp">H2Sharp</a>.

Using the JDBC API on .NET

Install the .NET Framework from <a href="http://www.microsoft.com">Microsoft</a>. Mono has not yet been tested.

Copy the `<code>h2*.jar</code>` file to `<code>ikvm/bin</code>`

@advanced_1197_li

Run the H2 Console using: `<code>ikvm -jar h2*.jar</code>`

@advanced_1198_li

Convert the H2 Console to an `<code>.exe</code>` file using: `<code>ikvmc -target:winexe h2*.jar</code>`. You may ignore the warnings.

@advanced_1199_li

Create a `<code>.dll</code>` file using (change the version accordingly): `<code>ikvmc.exe -target:library -version:1.0.69.0 h2*.jar</code>`

@advanced_1200_p

If you want your C# application use H2, you need to add the `<code>h2.dll</code>` and the `<code>IKVM.OpenJDK.ClassLibrary.dll</code>` to your C# solution. Here some sample code:

@advanced_1201_h2

ACID

@advanced_1202_p

In the database world, ACID stands for:

@advanced_1203_li

Atomicity: transactions must be atomic, meaning either all tasks are performed or none.

@advanced_1204_li

Consistency: all operations must comply with the defined constraints.

@advanced_1205_li

Isolation: transactions must be isolated from each other.

@advanced_1206_li

Durability: committed transaction will not be lost.

@advanced_1207_h3

Atomicity

@advanced_1208_p

Transactions in this database are always atomic.

@advanced_1209_h3

Consistency

@advanced_1210_p

By default, this database is always in a consistent state. Referential integrity rules are enforced except when explicitly disabled.
Isolation

For H2, as with most other database systems, the default isolation level is 'read committed'. This provides better performance, but also means that transactions are not completely isolated. H2 supports the transaction isolation levels 'serializable', 'read committed', and 'read uncommitted'.

Durability

This database does not guarantee that all committed transactions survive a power failure. Tests show that all databases sometimes lose transactions on power failure (for details, see below). Where losing transactions is not acceptable, a laptop or UPS (uninterruptible power supply) should be used. If durability is required for all possible cases of hardware failure, clustering should be used, such as the H2 clustering mode.

Durability Problems

Complete durability means all committed transaction survive a power failure. Some databases claim they can guarantee durability, but such claims are wrong. A durability test was run against H2, HSQLDB, PostgreSQL, and Derby. All of those databases sometimes lose committed transactions. The test is included in the H2 download, see <code>org.h2.test.poweroff.Test</code>.

Ways to (Not) Achieve Durability

Making sure that committed transactions are not lost is more complicated than it seems first. To guarantee complete durability, a database must ensure that the log record is on the hard drive before the commit call returns. To do that, databases use different methods. One is to use the 'synchronous write' file access mode. In Java, <code>RandomAccessFile</code> supports the modes <code>rws</code> and <code>rwd</code>: 

```java
rwd
```

: every update to the file's content is written synchronously to the underlying storage device.

```java
rws
```

: in addition to <code>rwd</code>, every update to the metadata is written synchronously.
A test (<code>org.h2.test.poweroff.TestWrite</code>) with one of those modes achieves around 50 thousand write operations per second. Even when the operating system write buffer is disabled, the write rate is around 50 thousand operations per second. This feature does not force changes to disk because it does not flush all buffers. The test updates the same byte in the file again and again. If the hard drive was able to write at this rate, then the disk would need to make at least 50 thousand revolutions per second, or 3 million RPM (revolutions per minute). There are no such hard drives. The hard drive used for the test is about 7200 RPM, or about 120 revolutions per second. There is an overhead, so the maximum write rate must be lower than that.

Calling <code>fsync</code> flushes the buffers. There are two ways to do that in Java:

```java
FileDescriptor.sync()
```

```java
FileChannel.force()
```

The documentation says that this forces all system buffers to synchronize with the underlying device. This method is supposed to return after all in-memory modified copies of buffers associated with this file descriptor have been written to the physical medium.

```
By default, MySQL calls <code>fsync</code> for each commit. When using one of those methods, only around 60 write operations per second can be achieved, which is consistent with the RPM rate of the hard drive used. Unfortunately, even when calling <code>FileDescriptor.sync()</code> or <code>FileChannel.force()</code>, data is not always persisted to the hard drive, because most hard drives do not obey <code>fsync()</code>: see &lt;a href="http://hardware.slashdot.org/article.pl?sid=05/05/13/0529252">Your Hard Drive Lies to You&lt;/a&gt;. In Mac OS X, <code>fsync</code> does not flush hard drive buffers. See &lt;a href="http://lists.apple.com/archives/darwin-dev/2005/Feb/msg00072.html">Bad fsync?</a>. So the situation is confusing, and tests prove there is a problem.

Trying to flush hard drive buffers is hard, and if you do the performance is very bad. First you need to make sure that the hard drive actually flushes all buffers. Tests show that this can not be done in a reliable way. Then the maximum number of transactions is around 60 per second. Because of those reasons, the default behavior of H2 is to delay writing committed transactions.

In H2, after a power failure, a bit more than one second of committed transactions may be lost. To change the behavior, use <code>SET WRITE_DELAY</code> and <code>CHECKPOINT SYNC</code>. Most other databases support commit delay as well. In the performance comparison, commit delay was used for all databases that support it.
Running the Durability Test

@advanced_1233_p
To test the durability / non-durability of this and other databases, you can use the test application in the package <code>org.h2.test.poweroff</code>. Two computers with network connection are required to run this test. One computer just listens, while the test application is run (and power is cut) on the other computer. The computer with the listener application opens a TCP/IP port and listens for an incoming connection. The second computer first connects to the listener, and then created the databases and starts inserting records. The connection is set to 'autocommit', which means after each inserted record a commit is performed automatically. Afterwards, the test computer notifies the listener that this record was inserted successfully. The listener computer displays the last inserted record number every 10 seconds. Now, switch off the power manually, then restart the computer, and run the application again. You will find out that in most cases, none of the databases contains all the records that the listener computer knows about. For details, please consult the source code of the listener and test application.

@advanced_1234_h2
Using the Recover Tool

@advanced_1235_p
The <code>Recover</code> tool can be used to extract the contents of a database file, even if the database is corrupted. It also extracts the content of the transaction log and large objects (CLOB or BLOB). To run the tool, type on the command line:

@advanced_1236_p
For each database in the current directory, a text file will be created. This file contains raw insert statements (for the data) and data definition (DDL) statements to recreate the schema of the database. This file can be executed using the <code>RunScript</code> tool or a <code>RUNSCRIPT FROM</code> SQL statement. The script includes at least one <code>CREATE USER</code> statement. If you run the script against a database that was created with the same user, or if there are conflicting users, running the script will fail. Consider running the script against a database that was created with a user name that is not in the script.

@advanced_1237_p
The <code>Recover</code> tool creates a SQL script from database file. It also processes the transaction log.

@advanced_1238_h2
File Locking Protocols

@advanced_1239_p
Multiple concurrent connections to the same database are supported, however a database file can only be open for reading and writing (in embedded mode) by one process at the same time. Otherwise, the processes would overwrite each others data and corrupt the database file. To protect against this problem, whenever a database is opened, a lock file is created to signal other processes that the database is in use. If the database is closed, or if the process that opened the database stops normally, this lock file is deleted.

@advanced_1240_p
In special cases (if the process did not terminate normally, for example because there was a power failure), the lock file is not deleted by the process that created it. That means the existence of the lock file is not a safe protocol for file locking. However, this software uses a challenge-response protocol to protect the database files. There are two methods (algorithms) implemented to provide both security (that is, the same database files cannot be opened by two
processes at the same time) and simplicity (that is, the lock file does not need to be deleted manually by the user). The two methods are 'file method' and 'socket methods'.

The file locking protocols have the following limitation: if a shared file system is used, and the machine with the lock owner is sent to sleep (standby or hibernate), another machine may take over. If the machine that originally held the lock wakes up, the database may become corrupt. If this situation can occur, the application must ensure the database is closed when the application is put to sleep.

The default method for database file locking is the 'File Method'. The algorithm is:

- If the lock file does not exist, it is created (using the atomic operation <code>File.createNewFile</code>). Then, the process waits a little bit (20 ms) and checks the file again. If the file was changed during this time, the operation is aborted. This protects against a race condition when one process deletes the lock file just after another one create it, and a third process creates the file again. It does not occur if there are only two writers.

- If the file can be created, a random number is inserted together with the locking method ('file'). Afterwards, a watchdog thread is started that checks regularly (every second once by default) if the file was deleted or modified by another (challenger) thread / process. Whenever that occurs, the file is overwritten with the old data. The watchdog thread runs with high priority so that a change to the lock file does not get through undetected even if the system is very busy. However, the watchdog thread does use very little resources (CPU time), because it waits most of the time. Also, the watchdog only reads from the hard disk and does not write to it.

- If the lock file exists and was recently modified, the process waits for some time (up to two seconds). If it was still changed, an exception is thrown (database is locked). This is done to eliminate race conditions with many concurrent writers. Afterwards, the file is overwritten with a new version (challenge). After that, the thread waits for 2 seconds. If there is a watchdog thread protecting the file, he will overwrite the change and this process will fail to lock the database. However, if there is no watchdog thread, the lock file will still be as written by this thread. In this case, the file is deleted and atomically created again. The watchdog thread is started in this case and the file is locked.

This algorithm is tested with over 100 concurrent threads. In some cases, when there are many concurrent threads trying to lock the database, they block each other (meaning the file cannot be locked by any of them) for some time. However, the file never gets locked by two threads at the same time. However using that many concurrent threads / processes is not the common use case. Generally, an application should throw an error to the user if it cannot open a database, and not try again in a (fast) loop.
There is a second locking mechanism implemented, but disabled by default. To use it, append `<code>;FILE_LOCK=SOCKET</code>` to the database URL. The algorithm is:

- If the lock file does not exist, it is created. Then a server socket is opened on a defined port, and kept open. The port and IP address of the process that opened the database is written into the lock file.
- If the lock file exists, and the lock method is 'file', then the software switches to the 'file' method.
- If the lock file exists, and the lock method is 'socket', then the process checks if the port is in use. If the original process is still running, the port is in use and this process throws an exception (database is in use). If the original process died (for example due to a power failure, or abnormal termination of the virtual machine), then the port was released. The new process deletes the lock file and starts again.

This method does not require a watchdog thread actively polling (reading) the same file every second. The problem with this method is, if the file is stored on a network share, two processes (running on different computers) could still open the same database files, if they do not have a direct TCP/IP connection.

This locking mode allows to open multiple connections to the same database. The connections may be opened from multiple processes and from different computers. When writing to the database, access is automatically synchronized internally. Write operations are slower than when using the server mode, and concurrency is relatively poor. The advantage of this mode is that there is no need to start a server.

To enable this feature, append `<code>;FILE_LOCK=SERIALIZED</code>` to the database URL.

This feature is relatively new. When using it for production, please ensure your use case is well tested (if possible with automated test cases).

Protection against SQL Injection

What is SQL Injection

This database engine provides a solution for the security vulnerability known as 'SQL Injection'. Here is a short description of what SQL injection means. Some applications build SQL statements with embedded user input such as:
If this mechanism is used anywhere in the application, and user input is not correctly filtered or encoded, it is possible for a user to inject SQL functionality or statements by using specially built input such as (in this example) this password: `<code>' OR '='</code>. In this case the statement becomes:

Which is always true no matter what the password stored in the database is. For more information about SQL Injection, see `<a href="#glossary_links">Glossary and Links</a>`.

Disabling Literals

SQL Injection is not possible if user input is not directly embedded in SQL statements. A simple solution for the problem above is to use a prepared statement:

This database provides a way to enforce usage of parameters when passing user input to the database. This is done by disabling embedded literals in SQL statements. To do this, execute the statement:

Afterwards, SQL statements with text and number literals are not allowed any more. That means, SQL statement of the form `<code>WHERE NAME='abc'</code>` or `<code>WHERE CustomerId=10</code>` will fail. It is still possible to use prepared statements and parameters as described above. Also, it is still possible to generate SQL statements dynamically, and use the Statement API, as long as the SQL statements do not include literals. There is also a second mode where number literals are allowed: `<code>SET ALLOW_LITERALS NUMBERS</code>`. To allow all literals, execute `<code>SET ALLOW_LITERALS ALL</code>` (this is the default setting). Literals can only be enabled or disabled by an administrator.

Using Constants

Disabling literals also means disabling hard-coded 'constant' literals. This database supports defining constants using the `<code>CREATE CONSTANT</code>` command. Constants can be defined only when literals are enabled, but used even when literals are disabled. To avoid name clashes with column names, constants can be defined in other schemas:

Even when literals are enabled, it is better to use constants instead of hard-coded number or text literals in queries or views. With constants, typos are found at compile time, the source code is easier to understand and change.

Using the ZERO() Function

It is not required to create a constant for the number 0 as there is already a built-in function `<code>ZERO()</code>`:
Protection against Remote Access

By default this database does not allow connections from other machines when starting the H2 Console, the TCP server, or the PG server. Remote access can be enabled using the command line options `-webAllowOthers`, `-tcpAllowOthers`, `-pgAllowOthers`. If you enable remote access, please also consider using the options `-baseDir`, `-ifExists`, so that remote users can not create new databases or access existing databases with weak passwords. When using the option `-baseDir`, only databases within that directory may be accessed. Ensure the existing accessible databases are protected using strong passwords.

Restricting Class Loading and Usage

By default there is no restriction on loading classes and executing Java code for admins. That means an admin may call system functions such as `System.setProperty` by executing:

To restrict users (including admins) from loading classes and executing code, the list of allowed classes can be set in the system property `h2.allowedClasses` in the form of a comma separated list of classes or patterns (items ending with `*`). By default all classes are allowed. Example:

This mechanism is used for all user classes, including database event listeners, trigger classes, user-defined functions, user-defined aggregate functions, and JDBC driver classes (with the exception of the H2 driver) when using the H2 Console.

Security Protocols

The following paragraphs document the security protocols used in this database. These descriptions are very technical and only intended for security experts that already know the underlying security primitives.

User Password Encryption

When a user tries to connect to a database, the combination of user name, @, and password are hashed using SHA-256, and this hash value is transmitted to the database. This step does not protect against an attacker that re-uses the value if he is able to listen to the (unencrypted) transmission between the client and the server. But, the passwords are never transmitted as plain text, even when using an unencrypted connection between client and server. That means if a user reuses the same password for different things, this password is still protected up to some point. See also 'RFC 2617 - HTTP Authentication: Basic and Digest Access Authentication' for more information.
When a new database or user is created, a new random salt value is generated. The size of the salt is 64 bits. Using the random salt reduces the risk of an attacker pre-calculating hash values for many different (commonly used) passwords.

The combination of user-password hash value (see above) and salt is hashed using SHA-256. The resulting value is stored in the database. When a user tries to connect to the database, the database combines user-password hash value with the stored salt value and calculates the hash value. Other products use multiple iterations (hash the hash value again and again), but this is not done in this product to reduce the risk of denial of service attacks (where the attacker tries to connect with bogus passwords, and the server spends a lot of time calculating the hash value for each password). The reasoning is: if the attacker has access to the hashed passwords, he also has access to the data in plain text, and therefore does not need the password any more. If the data is protected by storing it on another computer and only accessible remotely, then the iteration count is not required at all.

File Encryption

The database files can be encrypted using two different algorithms: AES-128 and XTEA (using 32 rounds). The reasons for supporting XTEA is performance (XTEA is a bit faster as AES in some environments) and to have an alternative algorithm if AES is suddenly broken. Please note that the XTEA implementation used in this database only uses 32 rounds and not 64 rounds as recommended by its inventor (as of 2010, the best known attack is on 27 rounds).

When a user tries to connect to an encrypted database, the combination of file@ and the file password is hashed using SHA-256. This hash value is transmitted to the server.

When a new database file is created, a new cryptographically secure random salt value is generated. The size of the salt is 64 bits. The combination of the file password hash and the salt value is hashed 1024 times using SHA-256. The reason for the iteration is to make it harder for an attacker to calculate hash values for common passwords.

The resulting hash value is used as the key for the block cipher algorithm (AES-128 or XTEA with 32 rounds). Then, an initialization vector (IV) key is calculated by hashing the key again using SHA-256. This is to make sure the IV is unknown to the attacker. The reason for using a secret IV is to protect against watermark attacks.

Before saving a block of data (each block is 8 bytes long), the following operations are executed: first, the IV is calculated by encrypting the block number with the IV key (using the same block cipher algorithm). This IV is combined with the plain text using XOR. The resulting data is encrypted using the AES-128 or XTEA algorithm.

When decrypting, the operation is done in reverse. First, the block is decrypted using the key, and then the IV is calculated combined with the decrypted text using XOR.
Therefore, the block cipher mode of operation is CBC (cipher-block chaining), but each chain is only one block long. The advantage over the ECB (electronic codebook) mode is that patterns in the data are not revealed, and the advantage over multi block CBC is that flipped cipher text bits are not propagated to flipped plaintext bits in the next block.

Database encryption is meant for securing the database while it is not in use (stolen laptop and so on). It is not meant for cases where the attacker has access to files while the database is in use. When he has write access, he can for example replace pieces of files with pieces of older versions and manipulate data like this.

File encryption slows down the performance of the database engine. Compared to unencrypted mode, database operations take about 2.2 times longer when using XTEA, and 2.5 times longer using AES (embedded mode).

Wrong Password / User Name Delay

To protect against remote brute force password attacks, the delay after each unsuccessful login gets double as long. Use the system properties <code>h2.delayWrongPasswordMin</code> and <code>h2.delayWrongPasswordMax</code> to change the minimum (the default is 250 milliseconds) or maximum delay (the default is 4000 milliseconds, or 4 seconds). The delay only applies for those using the wrong password. Normally there is no delay for a user that knows the correct password, with one exception: after using the wrong password, there is a delay of up to (randomly distributed) the same delay as for a wrong password. This is to protect against parallel brute force attacks, so that an attacker needs to wait for the whole delay. Delays are synchronized. This is also required to protect against parallel attacks.

There is only one exception message for both wrong user and for wrong password, to make it harder to get the list of user names. It is not possible from the stack trace to see if the user name was wrong or the password.

HTTPS Connections

The web server supports HTTP and HTTPS connections using <code>SSLServerSocket</code>. There is a default self-certified certificate to support an easy starting point, but custom certificates are supported as well.

SSL/TLS Connections

Remote SSL/TLS connections are supported using the Java Secure Socket Extension (<code>SSLServerSocket</code>, <code>SSLSocket</code>). By default, anonymous SSL is enabled. The default cipher suite is <code>SSL_DH_anon_WITH_RC4_128_MD5</code>.
To use your own keystore, set the system properties `<code>javax.net.ssl.keyStore</code>` and `<code>javax.net.ssl.keyStorePassword</code>` before starting the H2 server and client. See also <a href="http://java.sun.com/javase/6/docs/technotes/guides/security/jsse/JSSERefGuide.html#CustomizingStores">Customizing the Default Key and Trust Stores, Store Types, and Store Passwords</a> for more information.

To disable anonymous SSL, set the system property `<code>h2.enableAnonymousSSL</code>` to false.

Universally Unique Identifiers (UUID)

This database supports UUIDs. Also supported is a function to create new UUIDs using a cryptographically strong pseudo random number generator. With random UUIDs, the chance of two having the same value can be calculated using the probability theory. See also 'Birthday Paradox'. Standardized randomly generated UUIDs have 122 random bits. 4 bits are used for the version (Randomly generated UUID), and 2 bits for the variant (Leach-Salz). This database supports generating such UUIDs using the built-in function `<code>RANDOM_UUID()</code>.

Here is a small program to estimate the probability of having two identical UUIDs after generating a number of values:

Some values are:

<table>
<thead>
<tr>
<th>Number of UUIDs</th>
<th>Probability of Duplicates</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2^{36}=68,719,476,736$</td>
<td>0.0000000000000004</td>
</tr>
<tr>
<td>$2^{41}=2,199,023,255,552$</td>
<td>0.0000000000000004</td>
</tr>
<tr>
<td>$2^{46}=70,368,744,177,664$</td>
<td>0.0000000000000004</td>
</tr>
</tbody>
</table>

To help non-mathematicians understand what those numbers mean, here a comparison: one's annual risk of being hit
by a meteorite is estimated to be one chance in 17 billion, that means the probability is about 0.000'000'000'06.

Recursive Queries

H2 has experimental support for recursive queries, using so called "common table expressions". Examples:

Limitations: Recursive queries need to be of the type `<code>UNION ALL</code>`, and the recursion needs to be on the second part of the query. No tables or views with the name of the table expression may exist. Different table expression names need to be used when using multiple distinct table expressions within the same transaction and for the same session. All columns of the table expression are of type `<code>VARCHAR</code>`. Parameters are only supported within the last `<code>SELECT</code>` statement (a workaround is to use session variables like `<code>@start</code>` within the table expression). The syntax is:

Settings Read from System Properties

Some settings of the database can be set on the command line using `<code>-DpropertyName=value</code>`. It is usually not required to change those settings manually. The settings are case sensitive. Example:

The current value of the settings can be read in the table `<code>INFORMATION_SCHEMA.SETTINGS</code>.

For a complete list of settings, see `<a href="../javadoc/org/h2/constant/SysProperties.html">SysProperties</a>.

Setting the Server Bind Address

Usually server sockets accept connections on any/all local addresses. This may be a problem on multi-homed hosts. To bind only to one address, use the system property `<code>h2.bindAddress</code>`. This setting is used for both regular server sockets and for SSL server sockets. IPv4 and IPv6 address formats are supported.

Pluggable File System

This database supports a pluggable file system API. The file system implementation is selected using a file name prefix. The following file systems are included:
read-only zip-file based file system. Format: `<code>zip:/zipFileName!/fileName</code>.

```
@advanced_1328_code
split:

@advanced_1329_li
file system that splits files in 1 GB files (stackable with other file systems).

@advanced_1330_code
nio:

@advanced_1331_li
file system that uses `<code>FileChannel</code>` instead of `<code>RandomAccessFile</code>` (faster in some operating systems).

@advanced_1332_code
nioMapped:

@advanced_1333_li
file system that uses memory mapped files (faster in some operating systems). Please note that there currently is a file size limitation of 2 GB when using this file system. To work around this limitation, combine it with the split file system: `<code>split:nioMapped:test</code>`.

@advanced_1334_code
memFS:

@advanced_1335_li
in-memory file system (slower than mem; experimental; mainly used for testing the database engine itself).

@advanced_1336_code
memLZF:

@advanced_1337_li
compressing in-memory file system (slower than memFS but uses less memory; experimental; mainly used for testing the database engine itself).

@advanced_1338_p
As an example, to use the the `<code>nio</code>` file system, use the following database URL: `<code>jdbc:h2:nio:~/test</code>.

@advanced_1339_p
To register a new file system, extend the classes `<code>org.h2.store.fs.FileSystem, FileObject</code>`, and call the method `<code>FileSystem.register</code>` before using it.

@advanced_1340_h2
Database Upgrade

@advanced_1341_p
In version 1.2, H2 introduced a new file store implementation which is incompatible to the one used in versions \textless 1.2. To automatically convert databases to the new file store, it is necessary to include an additional jar file. The file can be found at \url{http://h2database.com/h2mig_pagestore_addon.jar}. If this file is in the classpath, every connect to an older database will result in a conversion process.

The conversion itself is done internally via \texttt{script to}' and \texttt{runscript from}'\texttt{.} After the conversion process, the files will be renamed from

\begin{itemize}
\item \texttt{dbName.data.db} to \texttt{dbName.data.db.backup} \\
\item \texttt{dbName.index.db} to \texttt{dbName.index.db.backup}
\end{itemize}

by default. Also, the temporary script will be written to the database directory instead of a temporary directory. Both defaults can be customized via

\begin{itemize}
\item \texttt{org.h2.upgrade.DbUpgradeNonPageStoreToCurrent.setDeleteOldDb(boolean)}
\item \texttt{org.h2.upgrade.DbUpgradeNonPageStoreToCurrent.setScriptInTmpDir(boolean)}
\end{itemize}

prior opening a database connection.

Since version 1.2.140 it is possible to let the old h2 classes (v 1.2.128) connect to the database. The automatic upgrade .jar file must be present, and the url must contain \texttt{NO_UPGRADE=TRUE}.

Limitations

This database has the following known limitations:

\begin{itemize}
\item Database file size limits (excluding BLOB and CLOB data): With the default storage mechanism, the maximum file size is currently 256 GB for the data, and 256 GB for the index. With the page store (experimental): 4 TB or higher.
\end{itemize}
BLOB and CLOB size limit: every CLOB or BLOB can be up to 256 GB.

The maximum file size for FAT or FAT32 file systems is 4 GB. That means when using FAT or FAT32, the limit is 4 GB for the data. This is the limitation of the file system. The database does provide a workaround for this problem, it is to use the file name prefix <code>split:</code>. In that case files are split into files of 1 GB by default. An example database URL is: <code>jdbc:h2:split:~/test</code>.

The maximum number of rows per table is 2'147'483'648.

Main memory requirements: The larger the database, the more main memory is required. With the version 1.1 storage mechanism, the minimum main memory required for a 12 GB database was around 240 MB. With the current page store, the minimum main memory required is much lower, around 1 MB for each 8 GB database file size.

Limit on the complexity of SQL statements. Statements of the following form will result in a stack overflow exception:

There is no limit for the following entities, except the memory and storage capacity: maximum identifier length (table name, column name, and so on); maximum number of tables, columns, indexes, triggers, and other database objects; maximum statement length, number of parameters per statement, tables per statement, expressions in order by, group by, having, and so on; maximum rows per query; maximum columns per table, columns per index, indexes per table, lob columns per table, and so on; maximum row length, index row length, select row length; maximum length of a varchar column, decimal column, literal in a statement.

For limitations on data types, see the documentation of the respective Java data type or the data type documentation of this database.

Glossary and Links

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AES-128</td>
<td></td>
</tr>
</tbody>
</table>

Birthday Paradox

Describes the higher than expected probability that two persons in a room have the same birthday. Also valid for randomly generated UUIDs. See also: <a href="http://en.wikipedia.org/wiki/Birthday_paradox">Wikipedia: Birthday Paradox</a>

Digest

Protocol to protect a password (but not to protect data). See also: <a href="http://www.faqs.org/rfcs/rfc2617.html">RFC 2617: HTTP Digest Access Authentication</a>

GCJ


HTTPS

A protocol to provide security to HTTP connections. See also: <a href="http://www.ietf.org/rfc/rfc2818.txt">RFC 2818: HTTP Over TLS</a>

Modes of Operation

Wikipedia: Block cipher modes of operation

Salt

Random number to increase the security of passwords. See also: <a href="http://en.wikipedia.org/wiki/Key_derivation_function">Wikipedia: Key derivation function</a>

SHA-256
A cryptographic one-way hash function. See also: [Wikipedia: SHA hash functions](http://en.wikipedia.org/wiki/SHA_family)

SQL Injection

A security vulnerability where an application embeds SQL statements or expressions in user input. See also: [Wikipedia: SQL Injection](http://en.wikipedia.org/wiki/SQL_injection)

Watermark Attack

Security problem of certain encryption programs where the existence of certain data can be proven without decrypting. For more information, search in the internet for 'watermark attack cryptoloop'

SSL/TLS

Secure Sockets Layer / Transport Layer Security. See also: [Java Secure Socket Extension (JSSE)](http://java.sun.com/products/jsse/)

XTEA

A block encryption algorithm. See also: [Wikipedia: XTEA](http://en.wikipedia.org/wiki/XTEA)

Build

Portability

Environment

Building the Software

Build Targets

Using Maven
Translating

Providing Patches

Reporting Problems or Requests

Automated Build

Generating Railroad Diagrams

Portability

This database is written in Java and therefore works on many platforms. It can also be compiled to a native executable using GCJ.

For Java 1.4, the jar file needs to be converted first using <a href="http://retrotranslator.sourceforge.net">Retrotranslator</a>.

Environment

To run this database, a Java Runtime Environment (JRE) version 1.5 or higher is required.

To create the database executables, the following software stack was used. To use this database, it is not required to install this software however.

Mac OS X and Windows XP

Sun JDK Version 1.5 and 1.6

Eclipse Version 3.4

Eclipse Checkstyle Plug-in, EclEmma Java Code Coverage 1.3.0

Eclipse Checkstyle Plug-in
Emma Java Code Coverage
Mozilla Firefox
OpenOffice
NSIS 2.38
(Nullsoft Scriptable Install System)
Maven

Building the Software

You need to install a JDK, for example the Sun JDK version 1.5 or 1.6. Ensure that Java binary directory is included in the `PATH` environment variable, and that the environment variable `JAVA_HOME` points to your Java installation. On the command line, go to the directory `h2` and execute the following command:

For Linux and OS X, use `./build.sh` instead of `build.sh`.

You will get a list of targets. If you want to build the `jar` file, execute (Windows):

To run the build tool in shell mode, use the command line option `-` as in `./build.sh -`.

Switching the Source Code

By default the source code uses Java 1.6 features, however Java 1.5 is supported as well. To switch the source code to the installed version of Java, run:

Build Targets
The build system can generate smaller jar files as well. The following targets are currently supported:

- **jarClient** creates the file `<code>h2client.jar</code>`. This only contains the JDBC client.

- **jarSmall** creates the file `<code>h2small.jar</code>`. This only contains the embedded database. Debug information is disabled.

- **jarJaqu** creates the file `<code>h2jaqu.jar</code>`. This only contains the JaQu (Java Query) implementation. All other jar files do not include JaQu.

- **javadocImpl** creates the Javadocs of the implementation.

To create the file `<code>h2client.jar</code>`, go to the directory `<code>h2</code>` and execute the following command:

```
Using Maven 2
```

```
Using a Central Repository
```

You can include the database in your Maven 2 project as a dependency. Example:

```
New versions of this database are first uploaded to http://hsq1.sourceforge.net/m2-repo/ and then automatically synchronized with the main Maven repository; however after a new release it may take a few hours before they are available there.
Using Snapshot Version

To build a `<code>h2-*-SNAPSHOT.jar</code>` file and upload it to the local Maven 2 repository, execute the following command:

Afterwards, you can include the database in your Maven 2 project as a dependency:

Translating

The translation of this software is split into the following parts:

- Error messages: `<code>src/main/org/h2/res/_messages_*.prop</code>`

To translate the H2 Console, start it and select Preferences / Translate. After you are done, send the translated `<code>*.prop</code>` file to the Google Group. The web site is currently translated using Google.

Providing Patches

If you like to provide patches, please consider the following guidelines to simplify merging them:

- Only use Java 1.5 features (do not use Java 1.6) (see `<a href="#environment">Environment</a>`).
- Follow the coding style used in the project, and use Checkstyle (see above) to verify. For example, do not use tabs (use spaces instead). The checkstyle configuration is in `<code>src/installer/checkstyle.xml</code>`.
- A template of the Eclipse settings are in `<code>src/installer/eclipse.settings/*</code>`. If you want to use them, you need to copy them to the `<code>.settings</code>` directory. The formatting options (`<code>eclipseCodeStyle</code>`) are also included.
- Please provide test cases and integrate them into the test suite. For Java level tests, see `<code>src/test/org/h2/test/TestAll.java</code>`. For SQL level tests, see `<code>src/test/org/h2/test/test.in.txt</code>` or `<code>testSimple.in.txt</code>`. 
The test cases should cover at least 90% of the changed and new code; use a code coverage tool to verify that (see above), or use the build target `<code>coverage</code>.

Verify that you did not break other features: run the test cases by executing `<code>build test</code>.

Provide end user documentation if required ( `<code>src/docs/html/*</code>`).

Document grammar changes in `<code>src/docs/help/help.csv</code>`.

Provide a change log entry ( `<code>src/docs/html/changelog.html</code>`).

Verify the spelling using `<code>build spellcheck</code>`. If required add the new words to `<code>src/tools/org/h2/build/doc/dictionary.txt</code>`.

Run `<code>src/installer/buildRelease</code>` to find and fix formatting errors.

Verify the formatting using `<code>build docs</code>` and `<code>build javadoc</code>`.

Submit patches as `<code>.patch</code>` files (compressed if big). To create a patch using Eclipse, use Team / Create Patch.

For legal reasons, patches need to be public in the form of an email to the `<a href="http://groups.google.com/group/h2-database">group</a>`, or in the form of an `<a href="http://code.google.com/p/h2database/issues/list">issue report or attachment</a>`. Significant contributions need to include the following statement:

"I wrote the code, it's mine, and I'm contributing it to H2 for distribution multiple-licensed under the H2 License, version 1.0, and under the Eclipse Public License, version 1.0 (http://h2database.com/html/license.html)."

 Reporting Problems or Requests

Please consider the following checklist if you have a question, want to report a problem, or if you have a feature request:
Feature requests are always welcome, even if the feature is already on the roadmap. Your mail will help prioritize feature requests. If you urgently need a feature, consider providing a patch.

Before posting problems, check the FAQ and do a Google search.

When got an unexpected exception, please try the Error Analyzer tool. If this doesn't help, please report the problem, including the complete error message and stack trace, and the root cause stack trace(s).

When sending source code, please use a public web clipboard such as Pastebin, Cl1p, or Mystic Paste to avoid formatting problems. Please keep test cases as simple and short as possible, but so that the problem can still be reproduced. As a template, use HelloWorld.java. Method that simply call other methods should be avoided, as well as unnecessary exception handling. Please use the JDBC API and no external tools or libraries. The test should include all required initialization code, and should be started with the main method.

For large attachments, use a public temporary storage such as Rapidshare.

Google Group versus issue tracking: Use the Google Group for questions or if you are not sure it's a bug. If you are sure it's a bug, you can create an issue, but you don't need to (sending an email to the group is enough). Please note that only few people monitor the issue tracking system.

For out-of-memory problems, please analyze the problem yourself first, for example using the command line option -XX:+HeapDumpOnOutOfMemoryError and a memory analysis tool such as the Eclipse Memory Analyzer (MAT).

It may take a few days to get an answers. Please do not double post.

Automated Build

This build process is automated and runs regularly. The build process includes running the tests and code coverage, using the command line ./build.sh clean jar coverage -Dh2.ftpPassword=... uploadBuild. The last results are available here:
Generating Railroad Diagrams

The railroad diagrams are HTML, formatted as nested tables. The diagrams are generated as follows:

1. The BNF parser (<code>org.h2.bnf.Bnf</code>) reads and parses the BNF from the file <code>help.csv</code>.
2. The page parser (<code>org.h2.server.web.PageParser</code>) reads the template HTML file and fills in the diagrams.
3. The rail images (one straight, four junctions, two turns) are generated using a simple Java application.
4. To generate railroad diagrams for other grammars, see the package <code>org.h2.jcr</code>. This package is used to generate the SQL-2 railroad diagrams for the JCR 2.0 specification.
The default MAX_LOG_SIZE is now 16 MB instead of 2 MB. Some uses cases are 3 times faster now.

Improved cache memory usage calculation.

Only resources that are actually used are loaded in memory. This can reduce the memory usage by about 400 KB.

Profiling: the jar file can now be installed as an agent using java -javaagent:h2*.jar - this was be used to more accurately calculate the memory footprint of the cache. It has no effect when using H2 (using this feature in an application is not needed and not recommended).

The cache was not used efficiently when reading (behaving like a FIFO cache instead of an LRU cache).

Storing lobs in the database has been changed. It is now faster. Unfortunately, the change is not backward compatible; if you have used h2.lobInDatabase before you will need to re-build the database.

SHUTDOWN COMPACT is now faster.

H2 Console: requesting the status did not always show the window on top of others.

H2 Console: on some system, the browser windows got opened when requesting a new one.

The built-in profiling tool now uses a default stack depth of 32 elements and a default interval of 10 ms.

Database files now grows in 1 MB blocks (and at least 20% at a time), instead of always 256 KB. This speeds up loading a new database.

H2 Console: new built-in command @sleep to help profile another session.

For improved performance, LOG=0 and LOG=1 are again supported. LOG=0 means the transaction log is disabled completely (fastest; for loading a database). LOG=1 means the transaction log is enabled, but FileDescriptor.sync is disabled (if no protection against power failure is required). LOG=2 is the default (transaction log is enabled, FileDescriptor.sync for each checkpoint).

After deleting a lot of data (for example by dropping or altering tables, or indexes, or after a large transaction),
opening a large database was very slow. Fixed.

@changelog_1018_li
When killing the process after creating and dropping many tables (specially temporary tables), the database could not be opened sometimes.

@changelog_1019_li
CAST(NULL AS ...) doesn't forget the data type, precision, and scale any longer.

@changelog_1020_li
Experimental support for recursive queries (see 'Advanced' - 'Recursive Queries' for details).

@changelog_1021_li
Problems with JDK 1.6.0_18 have been reports in the class StringUtils.quoteRemarkSQL. This method is now changed.

@changelog_1022_li
The "small jar" distribution did not include the CompressTool, which was required for some operations. Fixed.

@changelog_1023_li
The build tool now supports (minimalistic) shell mode, started using ./build.sh -

@changelog_1024_li
IS NULL comparison with nested queries and linked tables did not work. Example: select * from (select x from test) where x is null.

@changelog_1025_li
Support for null-safe equals. This includes the ANSI SQL standard syntax A IS [NOT] DISTINCT FROM B as well as the shorter A IS [NOT] B.

@changelog_1026_li
Primary key violations threw a strange exception message when using a single column INT or BIGINT key.

@changelog_1027_li
EXPLAIN ANALYZE now also lists the number of pages read from the file.

@changelog_1028_li
Memory mapped files: There was a bug in version 1.2.139 so that memory mapped files could only be used together with split, for example: split:nioMapped: - the problem is now solved. It is still a good idea to use split:nioMapped: to work around the 2 GB limitation of memory mapped files.

@changelog_1029_li
Memory mapped files: the system property h2.nioCleanerHack is now disabled by default because it was not always working as expected. Now System.gc() is used in a loop until the buffer is garbage collected. This of course is also not a nice solution, but the only one known to work. See also http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=4724038

@changelog_1030_li
Bugfixes for the automatic 1.1 db migration.

@changelog_1031_li
If an old 1.1 database file version is found on connect, it is now possible to let the old h2 classes (v 1.2.128) connect to the database. The automatic upgrade .jar file must be present, and the url must contain NO_UPGRADE=TRUE

@changelog_1032_li
The automatic upgrade temporary script file is now encrypted.

@changelog_1033_h2
Version 1.2.139 (2010-07-10)

@changelog_1034_li
There was a bug in the internal IntIntHashMap. There were no known side effects however.

@changelog_1035_li
ANALYZE now uses less memory.

@changelog_1036_li
Memory mapped file system: improved error messages if there is a problem.

@changelog_1037_li
The Lucene fulltext search did not work well when using special file systems such as split or nioMapper.

@changelog_1038_li
The memory mapped file system (nioMapper: file prefix) couldn't seek past the file length.

@changelog_1039_li
Some file system operations did not work with stacked file systems (for example split and nioMapped). This also affected the DeleteDbFiles tool.

@changelog_1040_li
New experimental query cache. The cache is only used if the SQL statement and all parameters match. Each session has it's own cache with the given size. Only the last returned result per query is cached. Only SELECT statements are cached (excluding UNION and FOR UPDATE statements). This works for both statements and prepared statement. To enable, set the system property h2.commandCacheSize to a value larger than 0. There is currently no plan to enable this option by default in future versions.

@changelog_1041_li
Conditions with many OR operations could throw an UnsupportedOperationException if h2.optimizeOr was enabled.

@changelog_1042_li
XA connection: after transaction commit or rollback, the physical connection is set into autocommit mode.

@changelog_1043_li
MULTI_THREADING did not work correctly and could throw the exception "try to add a record twice" for larger databases because cache access was not correctly synchronized.
Automatic database upgrade from non page store is now possible. If the classes from the h2mig_pagestore_addon.jar file are in the classpath, the database will be converted to the current page store format automatically. The file can be found here: http://h2database.com/h2mig_pagestore_addon.jar

The MultiDimension tools was extended with a few helper methods. The API was unified a bit.

ODBC: MS Access could not link to a table with a name containing '_'.

ODBC: additional connection settings can now be added to the database name. Example: ~/test;cipher=xtea. Therefore, encrypted databases are supported.

Local temporary tables can now be created without having to commit a transaction using CREATE LOCAL TEMPORARY TABLE TEMP(ID INT PRIMARY KEY) TRANSACTIONAL.

New system property h2.dropRestrict (default false) to change the default action for DROP TABLE and DROP VIEW (false for CASCADE, true for RESTRICT). The plan is to enable this property by default in version 1.3.x.

DROP TABLE now also supports CASCADE (still the default) and RESTRICT.

The wrong exception was thrown when trying to connect to a server if the server was not running.

UNION queries where the first query contains a nested query were parsed incorrectly. Example: "select 1 from (select 2 from dual) union select 3 from dual" was parsed as "select 1 from ((select 2 from dual) union select 3 from dual)". Fixed.

Support ALTER SCHEMA name RENAME TO newName (rename schema). (patch from Kerry Sainsbury)
Referential integrity: it was not allowed to delete a row with NULL in the parent table, if there was a row with NULL in the child table.

Experimental feature to support case sensitive catalog names and database names using the DATABASE() method. To use this feature, set the system property h2.databaseToUpper to false. The plan is to set the property to false by default in version 1.3.x. Issue 204 - thanks to Sylvain Cuaz (ILM Informatique) for the patch.

Experimental feature to support nested joins. To enable, set the system property h2.nestedJoins to true. If enabled, nested joins and right outer joins should work as expected (issues 145, 177, and 203). The plan is to enable this feature by default in version 1.3.x.

New sample application: CachedPreparedStatements.

When creating functions within a schema, those functions could not be used in views, nested queries, and constraints. Fixed.

The benchmarks have been run using recent database versions.

Version 1.2.137 could still not be converted to Java 1.4 (because the Retrotranslator doesn't support BigDecimal.precision).

Cluster: non-admin users could not connect when one of the cluster node was stopped. Issue 206.

DROP VIEW now supports the CASCADE and RESTRICT clauses (patch from Kerry Sainsbury)

CREATE VIEW now supports the OR REPLACE clause (patch from Kerry Sainsbury)

Build tool: ability to only run one test using the -Dtest=className setting. eg: build -Dtest=org.h2.test.db.TestViewDropView test (patch from Kerry Sainsbury).

Version 1.2.137 (2010-06-06)

Statements with a nested query and a condition that was always NULL threw an IndexOutOfBoundsException. Example: select * from (select null as x) where x=1
The changes that were made to support large transactions also fixed a bug with large transactions (when the undo log file size is larger than 2 GB).

Experimental feature to support very large transactions (except when using MVCC). To enable, set the system property h2.largeTransactions to true. If enabled, changes to tables without a primary key can be buffered to disk. The plan is to enable this feature by default in version 1.3.x.

H2 Console: editing result sets is now also working for database other than H2, if they do support updatable result sets. Add "@edit" before the query. Only limited testing has been done on this feature, some data types may not work (please provide feedback if you find issues).

Cluster: an open transaction was committed when a cluster node was stopped (because disabling the cluster executes SET CLUSTER '', which committed the transaction). Transaction are no longer committed when calling SET CLUSTER. Issue 199.

Cluster: non-admin users couldn't connect to the cluster and couldn't disable the cluster. Issue 201.

Cluster: NEXTVAL('sequence') was only called on one cluster node, therefore sequence values could get out of sync.

Version 1.2.136 could not be converted to Java 1.4 (because the Retrotranslator doesn't support BigDecimal.precision). A workaround has been implemented.

The error code of IO exceptions in CSV functions was incorrect.

The TriggerPassData example now uses a prefix (the database name).

The wrong exception was thrown when trying to reference a table that doesn't support references such as a table in the information schema.

Server.shutdownTcpServer can now stop all TCP servers on this JVM.

JdbcConnectionPool: the default connection timeout is now 30 seconds (it used to be 5 minutes).

LOB storage: LOBs added with "h2.lobInDatabase" enabled couldn't be read later with this option disabled.
Version 1.2.136 (2010-05-24)

When using ORDER BY and there are both ascending and descending indexes, the database used the first index even when the second one could be used for sorting.

Conditions of the form columnName IS NULL now use an index. To disable this feature, set the system property h2.optimizeIsNull to false.

H2 Console: when the settings were not stored yet (for example when running for the first time), the last recently used settings were not stored. A workaround was to create the file ".h2.server.properties" manually in the current user home directory, with the contents: webAllowOthers=false, webPort=8082, webSSL=false, 0=Generic H2 (Embedded)|org.h2.Driver|jdbc:h2:~/test|sa (where a comma is a newline).

The source code is now switched to Java 6 (JDK 1.6) by default. Java 5 (JDK 1.5) is still supported, and the jar file is still compiled for Java 5.

The BOM (the byte-order-mark) character 0xfeff at the beginning of the file is ignored. This is for compatibility with Microsoft Excel.

When opening an existing database, the cache size is set to at most half the amount of memory available for the virtual machine (Runtime.getRuntime().maxMemory()), even if the cache size setting stored in the database is larger. Setting the cache size in the database URL or explicitly using SET CACHE_SIZE overrides this value (even if larger than the physical memory).

INFORMATION_SCHEMA.SETTINGS: the cache size is now returned in KB.

New system property h2.selectForUpdateMvcc, the default is false (the feature is disabled). When enabled, SELECT ... FOR UPDATE only locks the selected rows in the MVCC mode. Aggregate or GROUP BY queries are not allowed in this case.

Profiler: improved message if there was no stack trace.

The H2 Console can now be used within another application, in a frame or iframe. Issue 197.

Recover tool: the statistics section now includes page type counts again.
Queries with multiple IN(...) conditions sometimes return the wrong results when there was a multi-column index for the column.

Queries with IN(..., NULL) did sometimes return the wrong results when there was a index for the column.

DECIMAL: faster precision and memory usage calculations.

A new class org.h2.tools.TriggerAdapter allows to use the ResultSet interface within trigger implementations.

A subselect which used an index could lead to wrong results. Fixed.

Creating a cached temporary non persistent table with a primary key threw a NullPointerException.

Temporary files were not deleted when using large transactions, disabling autocommit, and closing the session without committing.

Queries using multiple IN(..) conditions on the same table could cause repeated rows in the result set.

Translation: Lubomir Grajciar translated the H2 Console as well as all error message to Slovensky. Thanks a lot!

There was a possible Java level deadlock when opening an uninitialized database and using a file system that also opened a database.

When killing the process while the database was writing a checkpoint, while it was closing, or while running recovery (while removing temporary tables from a previous run), the database could become corrupt. A new test case has been implemented to ensure such problems can not occur in the future.


The page size for new databases can now be set in the database URL using ;PAGE_SIZE=512. Currently this feature is only used to simplify testing.
New system property h2.functionsInSchema (default is false). If enabled, the SCRIPT statement always includes the schema name in the CREATE ALIAS statement (even if the schema is PUBLIC). This is not backward compatible with H2 versions 1.2.134 and older.

Functions: it is no longer required to add a space after a comma in the parameter list. Example: CREATE ALIAS PARSE_INT FOR "java.lang.Integer.parseInt(java.lang.String,int)"

Functions now reside within a schema, similar to sequences. If you do create such functions in schemas other than PUBLIC, then the database can not be opened with older versions of H2.

Cluster: after a cluster node failed, the second cluster node can now be re-created and started without having to stop the first cluster node, and without having to stop running applications. To do that, append ;AUTO_RECONNECT=TRUE to the database URL.

Auto-reconnect: if another connection uses the database in exclusive mode then this connection will try to re-connect until the exclusive mode ends. This is important when using the cluster mode.

SET EXCLUSIVE now supports 0 (disable), 1 (enable), and 2 (enable and close all other connections).

Installing the H2 as a service should now work on Windows 7. The batch files now explicitly set the directory using pushd "%~dp0".

Temporary tables can now be 'cached', that means indexes of temporary tables can be persisted. This enables very large temporary tables (both local and global).

The CreateCluster tool now sets the source database in exclusive mode before copying data to the new database.

The H2 Console now stream results one statement / result set at a time (using chunked transfer encoding). To disable, set the system property h2.consoleStream to false. This feature is not supported when using a servlet container.

The H2 Console did not call the CreateCluster tool with the correctly escaped parameters.

Improved PostgreSQL compatibility for ALTER TABLE ALTER COLUMN.
Commas at the end of INSERT ... VALUES (), (), are now supported.

The H2 Console "Start Browser" button now works even when the IP address changes while the tool runs (for example, because a wireless connection breaks, or when enabling / disabling the network connection).

When casting from float or double to BigDecimal, the result was sometimes unexpected, because "new BigDecimal(double val)" was used. Now "BigDecimal.valueOf(double val)" and "new BigDecimal(Float.toString(f))" are used. But it is still not recommended to use float or double for currency values (see data type documentation).

Global temporary tables are now deleted when closing the database. Before, they were deleted when opening the database the next time.

UNIQUE was not listed as a keyword.

Improved error message when an non-SQL-exception occurred in a user defined function. The method name and parameters are included in the error message.

For some queries, the exception did not include the SQL statement. Example: select x from system_range(1, 2) group by 'a'.

The Shell tool will execute SQL statements passed as using the command line parameter -sql.

If InetAddress.getLocalHost() fails, the database should now throw an exception.

New columns INFORMATION_SCHEMA.INDEXES.INDEX_CLASS and INFORMATION_SCHEMA.TABLES.TABLE_CLASS.

INFORMATION_SCHEMA.INDEXES.SQL now contains the CREATE INDEX statement instead of just the fully qualified index name.

New system property h2.analyzeAuto (default 0 meaning disabled) to automatically run ANALYZE after that many changes to a table. For details, see the Javadoc of this system property. The plan is to set this property to 2000 in
version 1.3.x.

@changelog_1133_li
JdbcXAConnection.start() does not support TMJOIN. Issue 189.

@changelog_1134_li
MySQL compatibility: TIMESTAMPDIFF is now an alias for DATEDIFF.

@changelog_1135_li
MERGE did not respect foreign key and check constraints.

@changelog_1136_li
ALTER TABLE ALTER COLUMN: changing the data type of a column no longer makes it nullable.

@changelog_1137_li
When using AUTO_SERVER=TRUE, the server is now started as a daemon thread. This was a problem when using Tomcat and a connection pool.

@changelog_1138_li
Servers can now be started as a daemon thread using the command line options -tcpDaemon, -pgDaemon, and -webDaemon.

@changelog_1139_li
H2 Console: the built-in commands are now documented.

@changelog_1140_li
REPLACE: if any parameter is null, the result is null.

@changelog_1141_li
Queries with DISTINCT and ORDER BY will now use the index on ORDER BY if possible. This is specially important for queries used inside IN(SELECT ...).

@changelog_1142_li
The new statement EXPLAIN ANALYZE executes the statement, and displays the query plan with the actual row scan count for each table.

@changelog_1143_li
H2 Console: the auto-complete feature didn't quote column names that need quoting. Issue 186.

@changelog_1144_li
The experimental LOB storage mechanism now supports all features of the old one. To use it, set the system property "h2.lobInDatabase" to "true". If you have used this feature in version 1.2.133, you need to export and re-import the database using SCRIPT / RUNSCRIPT.

@changelog_1145_li
The functions isBeforeFirst() and isAfterLast() were not compliant to the JDBC spec. If the ResultSet contains no rows, they must return false. Fixed.
Filesystem parameters like "split:" didn't work in server mode with baseDir set.

If baseDir is set, and a database name is given which points to a directory outside the baseDir (eg. "./dbname"), an exception is thrown.

A new experimental LOB storage mechanism is available. When enabled, CLOB and BLOB data is stored in hidden tables in the database. To use it, set the system property "h2.lobInDatabase" to "true". Compression is not yet implemented. Duplicate objects are only stored once. Usually writing is slower, but reading is faster (mainly because of caching).

The Shell tool threw a NumberFormatException on a empty statement.

The h2small-*.jar did not support "drop all objects delete files". Now it is supported (the DeleteDbFiles tool is now included).

Operations that don't fit in memory are now faster. Temporary file handling was changed.

The default maximum log stream size is now 2 MB. This is a good value according to some performance tests.

New system property "h2.syncMethod" to configure what method to call when closing the database, on checkpoint, and on CHECKPOINT SYNC. The default is "sync" which calls RandomAccessFile.getFD().sync().

ROWNUM could not be used for pagination. The follow query returned no rows: select x from (select *, rownum as r from system_range(1, 3)) where r=2;

Workaround for a java.sql.Date issue: years above 9999 are not formatted correctly. When calling ResultSet.getString() on a date value, an alternative formatting algorithm is used.

Prepared statements with nested subqueries did not always return the correct result. Example: select ?, ?, (select count(*) from test t, (select id from test where 0=?) t2 where t2.id=t.id) from test

When using MULTI_THREADED=TRUE, the exception following exception could be thrown: "object already exists: TABLES"
Comparison of integer columns against float numbers was not always correct. Issue 182.


H2 Console: if the settings file (.h2.properties) can't be accessed, the exception is now ignored.

Version 1.2.132 (2010-03-21)

The implementation of a Java to C (source code level) converter has been started. The plan is: it should be possible to convert H2 (or a part of it) to C so that the database can be run without a JVM. This will be a long term project (it may take a year or so).

User defined table implementation can now be used using CREATE TABLE ... ENGINE. Thanks to Sergi Vladykin for implementing this feature!

Improved MS SQL Server compatibility: support string concatenation using "+". Thanks to Stepan for the patch!

When using the multi-threaded mode, running ANALYZE concurrently in multiple connections could throw an exception.

The MERGE statement is now about 30% faster when using a PreparedStatement.

Multi-column indexes where the second or later column was descending did not always produce correct results (rows were missing in the result set, or the result set was empty).

When using large transactions or a small log size, the database could get very slow (profiling shows the hotspot is in FileObjectDisk.sync()).

The Shell tool now prints the stack trace when the list mode is enabled.

CREATE ALIAS ... AS: Compilation was incorrect if the source code contained characters that are not supported by the default file encoding.
Issue 176: the JdbcTemplate now also supports a ‘description’ property.

@changelog_1173
The Shell tool threw a ArrayIndexOutOfBoundsException after 20 statements.

@changelog_1174
When using the small version of H2 ('jarClient'), the first call to Connection.createBlob (or similar) could throw a ClassNotFoundException because the file org.h2.store.fs.FileSystemZip is not included. This missing class is now ignored.

@changelog_1175
Literals of type BIGINT now have the correct data type.

@changelog_1176_h2
Version 1.2.131 (2010-03-05)

@changelog_1177
Older versions of H2 (version 1.2.127 and older) could not connect to a new version (version 1.2.129 and newer). The connection blocked when trying to connect. Now the connection no longer blocks, instead a SQL exception is thrown.

@changelog_1178
In versions 1.2.129 and 1.2.130, a database could not be opened sometimes after dropping tables or indexes, and then creating new indexes for existing tables. The exception contained the text "parent not found" (version 1.2.129) or "Table not found" (version 1.2.130).

@changelog_1179
After the database was closed, a null pointer exception could occur in Database.Flush.

@changelog_1180
An ArrayIndexOutOfBoundsException could occur in the page store (eg. on "delete from table"). Fixed.

@changelog_1181_h2
Version 1.2.130 (2010-02-26)

@changelog_1182
EXPLAIN: The query plan now contains ".tableScan" if a table scan is used.

@changelog_1183
IN(....): when combining and IN(....) condition with a condition that didn't use an index, the result could contain duplicate rows.

@changelog_1184
IN(....): the index was not used if there were multiple IN(....) conditions.

@changelog_1185
For foreign key constraints, the metadata column INFORMATION_SCHEMA.INDEXES.CONSTRAINT_NAME was not set for non-unique indexes.
PostgreSQL compatibility: when using the following exception was thrown: Column "T.TYPTYPMOD" not found. Fixed. This is only when using psqlodbc_08_04*.

A tool to migrate an old database from the non-page store format to the newest version has been added in src/tools/org/h2/dev/util/Migrate.java. This file is not included in the jar file currently.

When using temporary tables, the database didn't shrink sometimes when closing. Also, sometimes a database could not recover normally.

Large transactions could run out of heap space. The maximum size of a transaction is now much larger.

The default setting for the system property h2.webMaxValueLength is now 100000 (it was 10000 before).

Creating a database was delayed about 2 seconds if the directory didn't exist.

Implemented INIT feature. If the database URL contains ";INIT=...;" then the DDL or DML commands following are executed on startup. Example URL: jdbc:h2:mem:test;INIT=RUNSCRIPT FROM '~/create.sql' (patch from Kerry Sainsbury).

Version 1.2.129 (2010-02-19)

The methods of the CloseListener are added to the Trigger interface. The interface CloseListener is removed. This is potentially a breaking change for existing triggers.

CREATE ALIAS: error message when compiling Java code have been improved.

MVCC: creating a table with an incorrect constraint could cause strange errors.

Hash indexes now are only used for single column indexes.

The cache types WEAK_* and TQ are no longer supported. A weak reference cache never frees up memory so it's the same as having a very large cache size. The TQ cache was not included in the jar file since a longer time, and was not tested.
The file system abstraction no longer throws SQL exceptions.

DatabaseEventListener.diskSpaceIsLow has changed.

The CompressTool no longer throw as SQL exceptions. Instead, it throws runtime exceptions.

SimpleResultSet.addColumn and addRow now can throw a IllegalStateException instead of a SQLException.

When doing an index lookup, decimal values with the same value but different scale (for example 0.00 and 0.0) where not considered equal in version 1.2.128. Now they are (unlike BigDecimal.equals()).

The BNF parser now uses the visitor pattern.

Converting a UUID to bytes was incorrect. Because of that, updatable result sets on tables with UUID primary key did not work.

The database URL property DATABASE_EVENT_LISTENER_OBJECT is no longer supported (there are problems passing objects when the PostgreSQL driver is installed as well).

H2 Console: asynchronous login (using a DatabaseEventListener) is no longer supported.

A workaround for a Windows socket problem has been implemented. Thanks a lot to Sergi Vladykin.

The Recover tool did not convert correctly convert CLOB data with non-ASCII characters.

Tools: the method run(String... args) has been renamed to runTool(String... args).

Server.startWebServer(Connection) was not working as expected.

The database URL option ACCESS_MODE_LOG is no longer supported.

The database URL option RECOVER has currently no effect.
Converting an old (non-page store) database is no longer supported using this version.

The following system properties are no longer supported: `h2.overflowExceptions`, `h2.optimizeDropDependencies`, `h2.optimizeGroupSorted`, `h2.optimizeMinMax`, `h2.optimizeNot`, `h2.optimizeIn`, `h2.optimizeInJoin`, `h2.reuseSpace*`. Most of them were there for a long time, but always with the same value. There was no unit test with the other value. So changing them was potentially dangerous (not a lot, but still).

The setting `LOG` has currently no effect (it only had an effect when the page store was disabled).

Disabling the page store is no longer supported. The old storage mechanism has been removed, shrinking the jar file size by almost 10%.

The translated resources are now stored in UTF-8 format.

The Windows service wrapper now detects if multiple versions of H2 are installed.

Version 1.2.128 (2010-01-30)

There are known errors on rollback when the page store is disabled and at the same time MVCC is used. See http://code.google.com/p/h2database/issues/detail?id=158

The `DeleteDbFiles` tool deleted all files in the `.lob.db` directory, even files that didn't belong to the database.

Automatic conversion of old databases to the page store format failed if the database contained LOB files.

Nested subqueries didn't work for `INSERT INTO` and `IN(..)`. Example: `insert into test ((select 1));`

If the database was already closed using `SHUTDOWN IMMEDIATELY`, closing a second connection could throw a `NullPointerException` if there was a local temporary table.

Less classes are loaded when using the database in embedded mode.

The information schema tables are only initialized when needed. This reduces memory usage and speeds up creating in-memory databases. Each in-memory database needs about 8 KB of heap memory.
Nested UNION/INTERSECT queries with brackets could produce the wrong result if used within a subquery. Example: select count(*) from (select 1 union (select 2 intersect select 2)) x;

Comparing an column against a constant expression with a higher precision or length than the column could give wrong results (the expression was truncated before comparing).

Improved PostgreSQL compatibility (support SHOW DEFAULT_TRANSACTION_ISOLATION).

Documentation: the javadocs for Csv.write and read used the wrong default charset.

MVCC: if the table was locked in exclusive mode (such as SELECT ... FOR UPDATE), another session could query the table. This is now longer possible.

If a FOR UPDATE query was executed twice (using a PreparedStatement), the table was not locked.

Triggers: INSTEAD OF triggers are now supported. Such triggers can be defined on views.

New system property h2.identifiersToUpper. If set to false, identifiers in SQL statements are case sensitive even if they are not quoted.

Slightly improved performance if the table is already locked.

CompressLZF: faster decompression.

PgServer: the wrong size was sent for VARCHAR data. Thanks again to Sergi Vladykin for the patch.

Serialized access mode (server-less multi-connection mode): fixed getGeneratedKeys() for sequences.

Version 1.2.127 (2010-01-15)

Serialized access mode (server-less multi-connection mode): sequences did not work as expected (there were gaps in generated values when using multiple connections).
@changelog_1242_li
Page store: new databases can not be opened with older versions.

@changelog_1243_li
Page store: adding data to new database is now faster.

@changelog_1244_li
File system: getting the file name from a path is now faster. This should speed up BLOB and CLOB access.

@changelog_1245_li
PgServer: incorrect SQL types were returned in result set meta data. Concurrently opening a database could fail (PG
catalog initialization was not synchronized). Thanks a lot to Sergi Vladykin for providing the patches!

@changelog_1246_li
SHOW COLUMNS did not work correctly if there where multiple indexes on the same columns.

@changelog_1247_li
Page store: the wrong write count was written to the database header. This could cause the server-less multi-
connection mode to fail.

@changelog_1248_li
Result sets larger than 2 GB threw an exception "Negative seek offset". Fixed.

@changelog_1249_li
If the system property h2.check was set to false, an ArrayIndexOutOfBoundsException could occur.

@changelog_1250_li
Alter table is now supported even if a table has views defined. (Patch from Kerry Sainsbury).

@changelog_1251_li
Fulltext search: exceptions within the fulltext search package had the wrong SQL state.

@changelog_1252_li
The Lucene fulltext search ignored transaction rollback. Fixed using a trigger on rollback.

@changelog_1253_li
Trigger can now be called on rollback.

@changelog_1254_li
The shell script h2.sh ignored command line line arguments.

@changelog_1255_li
When running H2 in the Google AppEngine for Java, a AccessControlException could be thrown when trying to
open a read-only database. Fixed.

@changelog_1256_li
The user home directory prefix (~) is now only expanded when followed by a slash or backslash, or standing alone.
Native fulltext search: before inserting or deleting data, FT_INIT() had to be called. This is no longer required.

The .trace.db file is now only created if required.

Shell tool: improved PostgreSQL compatibility.

Trying to open a database in read-only mode when a .lock.db file exists will now fail with a nice error message.

H2 Console: data that is too long is now abbreviated as follows: text... (100000 characters). A large binary is abbreviated as follows: abcdef... (100000 bytes).

Faster data conversion from BIGINT or INT to DECIMAL.

Server-less multi-connection mode: try to delete log files if switching between read/write operations.

CompressLZF: Faster decompress and improved javadocs.

The ChangeFileEncryption tool will now fail with an exception if the database is still in use. The Backup tool will also fail except when running in quiet mode.

CSVREAD: when reading the column names from the CSV file, column names that contain no special characters are considered case insensitive now.

Optimization index conditions of the form 'column=NULL' (which is always false; unlike 'column IS NULL').

Script command and tool: the primary key constraint is now listed before inserting the data. This will result in a smaller database when using the page store.

Statements with IN(SELECT..) conditions could produce the wrong result. Example: index on id, name; query: select * from test where id between 1 and 3 and name in (select 'World').
Statements with IN(…) conditions could produce the wrong result when using views or nested select statements. Example: index on id; index on name; query: select * from (select * from test) where id=1 and name in('a', 'b'). select * from (select * from test) where id=1 and name in('Hello', 'World').

Page store: a rollback of a relatively large transaction could fail with an ArrayIndexOutOfBoundsException or a 'row not found' exception in the PageBtreeIndex in some cases.

JaQu: the decompiler has been improved, and a few test cases already work. It is still incomplete however.

LIKE: any letter is now allowed after the escape character (which is still \ by default). Previously, an exception was thrown (unlike other databases) if it was not the escape character, _ or %. If the escape character appears at the end of the pattern, the result is it is ignored (like PostgreSQL and MS SQL Server).

The reserve heap memory is no longer used.

Database.checkpoint() could throw a NullPointerException.

Version 1.2.125 (2009-12-06)

Lucene fulltext search: the Lucene field names now match the table column names, except if the column names start with _ (in which case another _ is prepended). Unfortunately this change means existing fulltext indexes need to be re-built.

The shell tool now has a very simple statement history.

The zip file system implementation now supports the '~' home directory prefix. Example database URL: jdbc:h2:zip:~/test.zip!/test

Right outer joins on tables that were already 'inner joined' was processed incorrectly.

Temporary files from LOB objects were not deleted early enough when using the server mode.

Trying to alter a temporary table threw a strange exception. It is still not possible to do that, but the exception message is better now.
When the system property h2.maxMemoryRowsDistinct was set, and using SELECT DISTINCT, the temporary table was not correctly dropped. This could cause problems in recovery when the process was killed.

@changelog_1285_li
Trigger that are called before a select statement are now supported. This allows to create tables that work like materialized views.

@changelog_1286_li
Non-row based triggers were called even if the action didn't match the declared action (INSERT triggers were also called when deleting rows). This has been changed. The MERGE statement calls both INSERT and DELETE triggers.

@changelog_1287_li
Statements with IN(..) conditions could produce the wrong result or a data conversion error (since version 1.2.120). Examples: index on id, name, condition: id=1 and name in('Hello', 'x'); index on id, query: select * from (select * from test) where id=1 and name in('Hello', 'World').

@changelog_1288_li
The CompressTool was not multithreading safe. Because of this, the following database operations where also not multithreading safe (even when using different databases): the SCRIPT command (only when using compression), the COMPRESS function, and storing CLOB or BLOB data (only when compression is enabled).

@changelog_1289_li
The compression algorithm "LZF" is now about 33% faster than before when compressing small block (around 2 KB). It is much faster than Deflate, but the compression ratio is lower. Some of the optimizations are from Sam Van Oort, thanks a lot!

@changelog_1290_li
Compressing large blocks of data didn't work when using the "Deflate" compression algorithm. Compressing a lot of data could run out of heap memory.

@changelog_1291_li
The test cases don't access the file system directly, this simplifies GAE for Java testing. Thanks to Vince Bonfanti.

@changelog_1292_li
More bugs in the server-less multi-connection mode have been fixed.

@changelog_1293_li
When running against an old database, the SCRIPT statement could generate a SQL script that contained duplicate indexes (PRIMARY_KEY_E).

@changelog_1294_li
JdbcConnectionPool.getConnection() could throw a NullPointerException.

@changelog_1295_li
User defined functions: the source code is now available using SELECT SOURCE FROM INFORMATION_SCHEMA.FUNCTION_ALIASES.
User defined functions with source code didn't work after re-opening the database.

The newsfeeds are now Atom 1.0 standard compliant.

The database is now closed after an out of memory exception, because the database could get corrupt otherwise.

Better error message if both AUTO_SERVER and SERIALIZED parameters are set to TRUE.

Drop table did not delete lob files in old file store (not PAGE_STORE).

Version 1.2.124 (2009-11-20)

Clustering: there is now a way to detect which cluster instances are running.

ConvertTraceFile: the SQL statement statistics are better formatted (newline are removed).

The file lock thread is now stopped when the database is closed.

Issue 140: the Script tool now supports writing to a stream.

Issue 138: the trace output of Statement.execute(String, int) and executeUpdate was incorrect.

Page store: new databases can not be opened with older versions.

Page store: multi-column indexes didn't work if the cache was very small.

Page store: opening a database could theoretically result in an endless loop.

Page store: adding large indexed columns could get very slow.

Page store: after a duplicate key exception, an ArrayIndexOutOfBoundsException could be thrown (only for very large rows).
Page store: the recover tool sometimes generated a script file that contained duplicate data.

Page store: sometimes opening a read-only database failed.

Page store: opening a database sometimes failed if large rows where updated, or if a table was truncated before.

Page store: when using a very small page size (128 bytes or smaller), writing a large row could result in an endless recursion. This is only a theoretical problem, as the page size is 2 KB.

Page store: getting the min value from a descending index with NULL entries could return the wrong result.

Page store: improved auto-recovery after power failure.

The JDBC client did not detect that it was not talking to an H2 server. This could result in strange exceptions when trying to connect to another kind of server.

User defined functions can be created with source code. Example: CREATE ALIAS HI AS 'String hi() { return "Hello"; }'

Database file lock: the exception "lock file modified in the future" is no longer thrown; instead, opening the file will be delayed by 2 seconds.

Inserting LOBs got slower each time the process was restarted. It could loop endlessly after about 1000 process restarts.

Issue 117: Multi-version concurrency: concurrent MERGE statements now work.

Improved read-only database detection.

Version 1.2.123 (2009-11-08)

Page store: new databases can not be opened with older versions.
Page store: updating large rows (rows with more than 2000 bytes of data) could corrupt the database.

Page store: inserting very large rows failed with ArrayIndexOutOfBoundsException.

When using multi-threaded kernel mode, setting disabling locking (LOCK_MODE=0) will now throw an exception. At this time this combination will result in corruption when multiple threads try to update the same table.

The fulltext search methods and fields are now protected instead of private, to make the classes more easily extensible.

The Lucene fulltext search now also returns the score.

New function SCOPE_IDENTITY() to avoid problems when inserting rows in a trigger.

Statement.getGeneratedKeys() returned the wrong value if a trigger changed the identity value after inserting the row.

Improved error messages: identifiers and values are now quoted.

Improved error message when casting a value failed: the column name and type is included in the message.

Improved support for GAE for Java thanks to Vince Bonfanti.

The native fulltext search now supports streaming CLOB data.

If the database URL ends with ;PAGE_STORE=TRUE and a database in the old format exists, it is automatically converted to the new page store format if possible. A backup of the database is created first. Automatic conversion is not supported if the database was not closed normally (if it contains uncommitted transactions).

Dropping the current user is now allowed if another admin user exists.
Values of type BINARY or BLOB could not be converted to the data type OTHER.

@changelog_1341_li
SHUTDOWN COMPACT now fully compacts the database.

@changelog_1342_li
New system properties h2.maxCompactCount and h2.maxCompactTime to allow changing the default behavior (at most 2 seconds compacting when closing the database).

@changelog_1343_li
New sorted insert optimization (see Performance / Database Performance Tuning).

@changelog_1344_li
Issue 116: The files h2*-sources.jar and h2*-javadoc.jar are now in the Maven repository.

@changelog_1345_li
Page store: opening a large database was slow if it was not closed before.

@changelog_1346_li
Page store: new write and read counters in the meta data table. Use SELECT * FROM INFORMATION_SCHEMA SETTINGS WHERE NAME IN('info.FILE_WRITE_TOTAL', 'info.FILE_WRITE', 'info.FILE_READ', 'info.CACHE_MAX_SIZE', 'info.CACHE_SIZE')

@changelog_1347_li
The SQL syntax is documented using (railroad) diagrams. The diagrams are HTML.

@changelog_1348_li
The documentation is no longer available in Japanese because the translation was too much out of sync. Please use the Google translation instead.

@changelog_1349_li
Certain queries were not sorted if subselect queries were involved.

@changelog_1350_li
More bugs in the server-less multi-connection mode have been fixed: 90097 The database is read only, caches must be cleared on reconnect, etc.

@changelog_1351_h2
Version 1.2.121 (2009-10-11)

@changelog_1352_li
Better support GaeVFS (Google App Engine Virtual File System) thanks to Vince Bonfanti.

@changelog_1353_li
CSVREAD didn't close the file. Thanks to Vince Bonfanti for the patch!

@changelog_1354_li
If a database in the old format exists, it is now used. The system property is used for new databases, or if databases...
exist in both formats. In any case, the flag in the URL overrides this logic.

@changelog_1355_li
Page store bugs were fixed. Large values in indexed columns could corrupt the index.

@changelog_1356_li
The page store did not work when using Retrotranslator (because the Retrotranslator doesn't support Integer.reverse and Long.reverse).

@changelog_1357_li
New system property h2.pageStoreTrim to disable shrinking the database when closing (disabled by default, meaning by default the database is trimmed).

@changelog_1358_h2
Version 1.2.120 (2009-10-04)

@changelog_1359_li
This is a beta version.

@changelog_1360_li
Large updates could throw an ArrayIndexOutOfBoundsException in RowList.writeRow.

@changelog_1361_li
In version 1.2, the following system properties are now enabled by default: h2.pageStore, h2.nullConcatIsNull, h2.optimizeInList. The default value for h2.defaultMaxLengthInplaceLob is now 4096 (it was 1024 with version 1.1).

@changelog_1362_li
New databases are now stored in the new 'page store' file format. Existing databases are kept in the old file format. To use the old file format, append ;PAGE_STORE=FALSE to the database URL or set the system property h2.pageStore to false.

@changelog_1363_li
Issue 125: Renaming primary keys was not persistent. Fixed. Unfortunately, databases created by this version cannot be opened with older versions because of this change.

@changelog_1364_li
Issue 124: Hibernate schema validation failed for decimal/numeric columns. This problem is fixed in the Hibernate dialect that is included with H2 (src/tools/org/hibernate/dialect/H2Dialect.java.txt), but not in Hibernate yet.

@changelog_1365_li
PostgreSQL compatibility: function LASTVAL() as an alias for IDENTITY().

@changelog_1366_li
Linked tables now support default values when inserting, updating or merging.

@changelog_1367_li
Bugfixes in the page store.
Possibility to set a vendor id in Constants.java, so that unofficial builds are distinguishable from official releases.

Allow writing to linked tables in readonly databases.

SQL statements in the exception message are no longer included if they contain `--hide--`.

Temporary local tables did not always work after reconnect if AUTO_SERVER=TRUE

New system property h2.defaultMaxLengthInplaceLob to change the default maximum size of an in-place LOB object.

New system property h2.nullConcatIsNull to change the default null concatenation behavior. The default will be enabled in version 1.2.

The cache algorithm TQ is disabled in this version, because it is unstable, and because the current implementation does not have any measurable advantages over the default.

New committer: Christian Peter. He works for Docware and helped a lot finding and fixing bugs, and generally improving the database. He is now a committer.

ChangeFileEncryption did not work with Lob subdirectories. Fixed.

Issue 121: JaQu: new simple update and merge methods.

Issue 120: JaQu didn't close result sets.

Issue 119: JaQu creates wrong WHERE conditions on some inputs.

The new page store mechanism is now alpha-level quality. The next release will most likely be "1.2.120 beta" where this mode is enabled by default. To use it right now, append ;PAGE_STORE=TRUE to the database URL. The file format of this mode will probably not change any more.
SELECT COUNT(*) FROM SYSTEM_RANGE(...) returned the wrong result. Fixed.

The Recover tool now also processes the log files, however applying those changes is still a manual process.

New sample application that shows how to pass data to a trigger.

More bugs in the server-less multi-connection mode have been fixed: On Windows, two processes could write to the same database at the same time.

When loading triggers or other client classes (static functions, database event listener, user aggregate functions, other JDBC drivers), the database now uses the context class loader if the class could not be found using Class.forName().

Updating many rows with the same CLOB or BLOB values could result in FileNotFoundException.

Statement.getConnection() threw an exception if the connection was already closed.

The native fulltext index kept a reference to a database after the database was closed.

Non-unique in-memory hash indexes are now supported. Thanks a lot to Sergi Vladykin for the patch!

The optimizer does a better job for joins if indexes are missing.

H2 Database Engine Cheat Sheet

Using H2

H2 is open source, free to use and distribute.

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 50059
To start the H2 Console tool, double click the jar file, or run `java -jar h2*.jar`, `h2.bat`, or `h2.sh`.

A new database is automatically created by default.

Closing the last connection closes the database.

Documentation

Reference: SQL grammar, functions, data types, tools, API

Features

Database URLs
Embedded

jdbc:h2:~/test
'test' in the user home directory

jdbc:h2:/data/test
'test' in the directory /data

jdbc:h2:test
in the current(!) working directory

In-Memory

jdbc:h2:mem:test
multiple connections in one process

jdbc:h2:mem:
unnamed private; one connection

Server Mode

jdbc:h2:tcp://localhost/~/test
user home dir
Server start

```java -cp *.jar org.h2.tools.Server```

Settings

```jdbc:h2:..;MODE=MySQL```  
```jdbc:h2:..;TRACE_LEVEL_FILE=3```  
```log to *.trace.db```  

Using the JDBC API

Connection Pool

Maven 2  

Hibernate

```hibernate.cfg.xml (or use the HSQLDialect):```  

TopLink and Glassfish

```Datasource class: <code>org.h2.jdbcx.JdbcDataSource</code>```  
```oracle.toplink.essentials.platform.```
@cheatSheet_1049_code
database.H2Platform

@download_1000_h1
Downloads

@download_1001_h3
Version 1.2.140 (2010-07-25)

@download_1002_a
Windows Installer

@download_1003_a
Platform-Independent Zip

@download_1004_h3
Version 1.2.139 (2010-07-10, Last Stable)

@download_1005_a
Windows Installer

@download_1006_a
Platform-Independent Zip

@download_1007_h3
Download Mirror and Older Versions

@download_1008_a
Platform-Independent Zip

@download_1009_h3
Jar File

@download_1010_a
Maven.org

@download_1011_a
Sourceforge.net

@download_1012_a
Latest Automated Build (not released)

@download_1013_h3
Database Upgrade Helper Files

@download_1014_a
Upgrade database from 1.1 to the current version
Subversion Source Repository

Google Code

For details about changes, see the Change Log.

News and Project Information

Atom Feed

RSS Feed

DOAP File

(<a href="http://trac.usefulinc.com/doap">what is this</a>)

Frequently Asked Questions

I Have a Problem or Feature Request

Are there Known Bugs? When is the Next Release?

Is this Database Engine Open Source?

My Query is Slow

How to Create a New Database?

How to Connect to a Database?

Where are the Database Files Stored?
What is the Size Limit (Maximum Size) of a Database?

Is it Reliable?

Why is Opening my Database Slow?

Column Names are Incorrect?

Float is Double?

Is the GCJ Version Stable? Faster?

How to Translate this Project?

I Have a Problem or Feature Request

Please read the <a href="build.html#support">support checklist</a>.

Are there Known Bugs? When is the Next Release?

Usually, bugs get fixes as they are found. There is a release every few weeks. Here is the list of known and confirmed issues:


Tomcat and Glassfish 3 set most static fields (final or non-final) to null when unloading a web application. This can cause a NullPointerException in H2 versions 1.1.107 and older, and may still not work in newer versions. Please report it if you run into this issue. In Tomcat &gt;= 6.0 this behavior can be disabled by setting the system property org.apache.catalina.loader.WebappClassLoader.ENABLE_CLEAR_REFERENCES=false, however Tomcat may then run out of memory. A known workaround is to put the h2*.jar file in a shared directory (common/lib).
Some problems have been found with right outer join. Internally, it is converted to left outer join, which does not always produce the same results as other databases when used in combination with other joins.

When using Install4j before 4.1.4 on Linux and enabling `<code>pack200</code>`, the `<code>h2*.jar</code>` becomes corrupted by the install process, causing application failure. A workaround is to add an empty file `<code>h2*.jar.nopack</code>` next to the `<code>h2*.jar</code>` file. This problem is solved in Install4j 4.1.4.

For a complete list, see <a href="http://code.google.com/p/h2database/issues/list">Open Issues</a>.

Yes. It is free to use and distribute, and the source code is included. See also under license.

Slow `<code>SELECT</code>` (or `<code>DELETE, UPDATE, MERGE</code>`) statement can have multiple reasons. Follow this checklist:

Run `<code>ANALYZE</code>` (see documentation for details).

Run the query with `<code>EXPLAIN</code>` and check if indexes are used (see documentation for details).

If required, create additional indexes and try again using `<code>ANALYZE</code>` and `<code>EXPLAIN</code>`.

If it doesn't help please report the problem.

By default, a new database is automatically created if it does not yet exist. See <a href="tutorial.html#creating_new_databases">Creating New Databases</a>.

How to Create a New Database?

How to Connect to a Database?
The database driver is `<code>org.h2.Driver</code>`, and the database URL starts with `<code>jdbc:h2:</code>`. To connect to a database using JDBC, use the following code:

Where are the Database Files Stored?

When using database URLs like `<code>jdbc:h2:~/test</code>`, the database is stored in the user directory. For Windows, this is usually `<code>C:\Documents and Settings\&lt;userName&gt;</code>`. If the base directory is not set (as in `<code>jdbc:h2:test</code>`), the database files are stored in the directory where the application is started (the current working directory). When using the H2 Console application from the start menu, this is `<code>&lt;Installation Directory&gt;/bin</code>`. The base directory can be set in the database URL. A fixed or relative path can be used. When using the URL `<code>jdbc:h2:file:data/sample</code>`, the database is stored in the directory `<code>data</code>` (relative to the current working directory). The directory is created automatically if it does not yet exist. It is also possible to use the fully qualified directory name (and for Windows, drive name). Example: `<code>jdbc:h2:file:C:/data/test</code>`

What is the Size Limit (Maximum Size) of a Database?

See [Limits and Limitations](advanced.html#limits_limitations).

Is it Reliable?

That is not easy to say. It is still a quite new product. A lot of tests have been written, and the code coverage of these tests is very high. Randomized stress tests are run regularly. But there are probably still bugs that have not yet been found (as with most software). Some features are known to be dangerous, they are only supported for situations where performance is more important than reliability. Those dangerous features are:

- Disabling the transaction log or `FileDescriptor.sync()` using `LOG=0` or `LOG=1`.
- Using the transaction isolation level `<code>READ_UNCOMMITTED</code>` (<code>LOCK_MODE 0</code>) while at the same time using multiple connections.
- Disabling database file protection using (setting `<code>FILE_LOCK</code>` to `<code>NO</code>` in the database URL).
- Disabling referential integrity using `<code>SET REFERENTIAL_INTEGRITY FALSE</code>`.
In addition to that, running out of memory should be avoided. In older versions, OutOfMemory errors while using the database could corrupt a databases.

@faq_1047_p
This database is well tested using automated test cases. The tests run every night and run for more than one hour. But not all areas of this database are equally well tested. When using one of the following features for production, please ensure your use case is well tested (if possible with automated test cases). The areas that are not well tested are:

@faq_1048_li
Platforms other than Windows XP, Linux, Mac OS X, or JVMs other than Sun 1.5 or 1.6

@faq_1049_li
The features `<code>AUTO_SERVER</code>` and `<code>AUTO_RECONNECT</code>`

@faq_1050_li
The file locking method 'Serialized'

@faq_1051_li
Cluster mode, 2-phase commit, savepoints

@faq_1052_li
24/7 operation

@faq_1053_li
Fulltext search

@faq_1054_li
Operations on LOBs over 2 GB

@faq_1055_li
Some operations on databases larger than 500 MB may be slower than expected

@faq_1056_li
The optimizer may not always select the best plan

@faq_1057_p
Areas considered experimental are:

@faq_1058_li
The PostgreSQL server

@faq_1059_li
Multi-threading within the engine using `<code>SET MULTI_THREADED=1</code>`

@faq_1060_li
Compatibility modes for other databases (only some features are implemented)
The soft reference cache (CACHE_TYPE=SOFT_LRU). It might not improve performance, and out of memory issues have been reported.

Some users have reported that after a power failure, the database cannot be opened sometimes. In this case, use a backup of the database or the Recover tool. Please report such problems. The plan is that the database automatically recovers in all situations.

Column Names are Incorrect?

For the query `<code>SELECT ID AS X FROM TEST</code>` the method `<code>ResultSetMetaData.getColumnName()</code>` returns `<code>ID</code>`, I expect it to return `<code>X</code>`. What's wrong?

This is not a bug. According to the JDBC specification, the method `<code>ResultSetMetaData.getColumnName()</code>` should return the name of the column and not the alias name. If you need the alias name, use `<a href="http://java.sun.com/javase/6/docs/api/java/sql/ResultSetMetaData.html#getColumnLabel(int)">`<code>ResultSetMetaData.getColumnLabel()</code>`</a>. Some other databases don't work like this yet (they don't follow the JDBC specification). If you need compatibility with those databases, use the `<a href="/features.html#compatibility">Compatibility Mode</a>`, or set the system property `<a href="/javadoc/org/h2/constant/SysProperties.html#h2.aliasColumnName">`<code>h2.aliasColumnName</code>`</a>.

This also applies to DatabaseMetaData calls that return a result set. The columns in the JDBC API are column labels, not column names.

Float is Double?

For a table defined as `<code>CREATE TABLE TEST(X FLOAT)</code>` the method `<code>ResultSet.getObject()</code>` returns a `<code>java.lang.Double</code>`, I expect it to return a `<code>java.lang.Float</code>`. What's wrong?

This is not a bug. According to the JDBC specification, the JDBC data type `<code>FLOAT</code>` is equivalent to `<code>DOUBLE</code>`, and both are mapped to `<code>java.lang.Double</code>`. See also `<a href="http://java.sun.com/j2se/1.5.0/docs/guide/jdbc/getstart/mapping.html#1055162">`Mapping SQL and Java Types - 8.3.10 FLOAT`</a>.

Why is Opening my Database Slow?
To find out what the problem is, use the H2 Console and click on "Test Connection" instead of "Login". After the "Login Successful" appears, click on it (it's a link). This will list the top stack traces. Then either analyze this yourself, or post those stack traces in the Google Group.

Other possible reasons are: the database is very big (many GB), or contains linked tables that are slow to open.

The GCJ version is not as stable as the Java version. When running the regression test with the GCJ version, sometimes the application just stops at what seems to be a random point without error message. Currently, the GCJ version is also slower than when using the Sun VM. However, the startup of the GCJ version is faster than when using a VM.

How to Translate this Project?

For more information, see <a href="build.html#translating">Build/Translating</a>.
Database Files Encryption

Database File Locking

Opening a Database Only if it Already Exists

Closing a Database

Ignore Unknown Settings

Changing Other Settings when Opening a Connection

Custom File Access Mode

Multiple Connections

Database File Layout

Logging and Recovery

Compatibility

Auto-Reconnect

Automatic Mixed Mode

Page Size

Using the Trace Options

Using Other Logging APIs
@features_1024_a
Read Only Databases

@features_1025_a
Read Only Databases in Zip or Jar File

@features_1026_a
Graceful Handling of Low Disk Space Situations

@features_1027_a
Computed Columns / Function Based Index

@features_1028_a
Multi-Dimensional Indexes

@features_1029_a
Using Passwords

@features_1030_a
User-Defined Functions and Stored Procedures

@features_1031_a
Triggers

@features_1032_a
Compacting a Database

@features_1033_a
Cache Settings

@features_1034_h2
Feature List

@features_1035_h3
Main Features

@features_1036_li
Very fast database engine

@features_1037_li
Open source

@features_1038_li
Written in Java

@features_1039_li
Supports standard SQL, JDBC API
Embedded and Server mode, Clustering support

Strong security features

The PostgreSQL ODBC driver can be used

Multi version concurrency

Additional Features

Disk based or in-memory databases and tables, read-only database support, temporary tables

Transaction support (read committed and serializable transaction isolation), 2-phase-commit

Multiple connections, table level locking

Cost based optimizer, using a genetic algorithm for complex queries, zero-administration

Scrollable and updatable result set support, large result set, external result sorting, functions can return a result set

Encrypted database (AES or XTEA), SHA-256 password encryption, encryption functions, SSL

SQL Support

Support for multiple schemas, information schema

Referential integrity / foreign key constraints with cascade, check constraints

Inner and outer joins, subqueries, read only views and inline views

Triggers and Java functions / stored procedures
Many built-in functions, including XML and lossless data compression

Wide range of data types including large objects (BLOB/CLOB) and arrays

Sequence and autoincrement columns, computed columns (can be used for function based indexes)

ORDER BY, GROUP BY, HAVING, UNION, LIMIT, TOP

Collation support, users, roles

Compatibility modes for IBM DB2, Apache Derby, HSQLDB, MS SQL Server, MySQL, Oracle, and PostgreSQL.

Security Features

Includes a solution for the SQL injection problem

User password authentication uses SHA-256 and salt

For server mode connections, user passwords are never transmitted in plain text over the network (even when using insecure connections; this only applies to the TCP server and not to the H2 Console however; it also doesn't apply if you set the password in the database URL)

All database files (including script files that can be used to backup data) can be encrypted using AES-128 and XTEA encryption algorithms

The remote JDBC driver supports TCP/IP connections over SSL/TLS

The built-in web server supports connections over SSL/TLS

Passwords can be sent to the database using char arrays instead of Strings
Small footprint (smaller than 1 MB), low memory requirements

Multiple index types (b-tree, tree, hash)

Support for multi-dimensional indexes

CSV (comma separated values) file support

Support for linked tables, and a built-in virtual 'range' table

EXPLAIN PLAN

support, sophisticated trace options

Database closing can be delayed or disabled to improve the performance

Web-based Console application (translated to many languages) with autocomplete

The database can generate SQL script files

Contains a recovery tool that can dump the contents of the database

Support for variables (for example to calculate running totals)

Automatic re-compilation of prepared statements

Uses a small number of database files

Uses a checksum for each record and log entry for data integrity

Well tested (high code coverage, randomized stress tests)
## Comparison to Other Database Engines

<table>
<thead>
<tr>
<th>Feature</th>
<th>H2</th>
<th>Derby</th>
<th>HSQLDB</th>
<th>MySQL</th>
<th>PostgreSQL</th>
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<tbody>
<tr>
<td>Pure Java</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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<td>Embedded Mode (Java)</td>
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Custom Aggregate Functions

Yes

No

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

~1 MB

~2 MB

~1 MB

~4 MB

~6 MB

*1 HSQLDB supports text tables.

*2 MySQL supports linked MySQL tables under the name 'federated tables'.

*3 Derby support for roles based security and password checking as an option.
*4 Derby only supports global temporary tables.

*5 The default H2 jar file contains debug information, jar files for other databases do not.

*6 PostgreSQL supports functional indexes.

*7 Derby only supports updatable result sets if the query is not sorted.

*8 Derby doesn't support standard compliant information schema tables.

*9 When using MVCC (multi version concurrency).


*11 The MULTI_THREADED option is not enabled by default, and not yet supported when using MVCC.

**DaffodilDb and One$Db**

It looks like the development of this database has stopped. The last release was February 2006.

**McKoi**

It looks like the development of this database has stopped. The last release was August 2004.

**H2 in Use**

For a list of applications that work with or use H2, see: [Links](http://en.wikipedia.org/wiki/Block_cipher_modes_of_operation#Electronic_codebook_.28ECB.29).
The following connection modes are supported:

- Embedded mode (local connections using JDBC)
- Server mode (remote connections using JDBC or ODBC over TCP/IP)
- Mixed mode (local and remote connections at the same time)

### Embedded Mode

In embedded mode, an application opens a database from within the same JVM using JDBC. This is the fastest and easiest connection mode. The disadvantage is that a database may only be open in one virtual machine (and class loader) at any time. As in all modes, both persistent and in-memory databases are supported. There is no limit on the number of database open concurrently, or on the number of open connections.

### Server Mode

When using the server mode (sometimes called remote mode or client/server mode), an application opens a database remotely using the JDBC or ODBC API. A server needs to be started within the same or another virtual machine, or on another computer. Many applications can connect to the same database at the same time, by connecting to this server. Internally, the server process opens the database(s) in embedded mode.

The server mode is slower than the embedded mode, because all data is transferred over TCP/IP. As in all modes, both persistent and in-memory databases are supported. There is no limit on the number of database open concurrently per server, or on the number of open connections.

### Mixed Mode

The mixed mode is a combination of the embedded and the server mode. The first application that connects to a database does that in embedded mode, but also starts a server so that other applications (running in different processes or virtual machines) can concurrently access the same data. The local connections are as fast as if the database is used in just the embedded mode, while the remote connections are a bit slower.

The server can be started and stopped from within the application (using the server API), or automatically (automatic mixed mode). When using the automatic mixed mode, all clients that want to connect to the database (no matter if it's an local or remote connection) can do so using the exact same database URL.
Database URL Overview

This database supports multiple connection modes and connection settings. This is achieved using different database URLs. Settings in the URLs are not case sensitive.

Topic

URL Format and Examples

Embedded (local) connection

jdbc:h2:[file:][&lt;path&gt;][&lt;databaseName&gt;]

jdbc:h2:~/test
jdbc:h2:file:/data/sample
jdbc:h2:file:C:/data/sample (Windows only)

In-memory (private)

jdbc:h2:mem:

In-memory (named)

jdbc:h2:mem:&lt;databaseName&gt;

Server mode (remote connections)

jdbc:h2:mem:test_mem
using TCP/IP

@features_1290_td
dbc:h2:tcp://[server]:[port]/[path]/[databaseName]

@features_1291_td
dbc:h2:tcp://localhost/~/test

@features_1292_td
dbc:h2:tcp://dbserv:8084/~/sample
dbc:h2:tcp://localhost/mem:test

@features_1293_a
Server mode (remote connections)

@features_1294_a
using SSL/TLS

@features_1295_td
dbc:h2:ssl://[server]:[port]/[databaseName]

@features_1296_td
dbc:h2:ssl://securreserv:8085/~/sample;

@features_1297_a
Using encrypted files

@features_1298_td
dbc:h2:~url:[CIPHER=[AES|XTEA]]

@features_1299_td
dbc:h2:~securreserv/~/testdb[CIPHER=AES

@features_1300_td
dbc:h2:~secure[CIPHER=XTEA

@features_1301_a
File locking methods

@features_1302_td
dbc:h2:~url:[FILE_LOCK={FILE|SOCKET|NO}]

@features_1303_td
dbc:h2:~private[CIPHER=XTEA;FILE_LOCK=SOCKET

@features_1304_a
Only open if it already exists

@features_1305_td
jdbc:h2:file:~/sample;IFEXISTS=TRUE

@features_1306_td
jdbc:h2:file:~/sample;IFEXISTS=TRUE

@features_1307_a
Don't close the database when the VM exits

@features_1308_td
jdbc:h2:&lt;url&gt;;DB_CLOSE_ON_EXIT=FALSE

@features_1309_a
Execute SQL on connection

@features_1310_td
jdbc:h2:&lt;url&gt;;INIT=RUNSCRIPT FROM '~/create.sql'

@features_1311_td
jdbc:h2:file:~/sample;INIT=RUNSCRIPT FROM '~/create.sql'\;RUNSCRIPT FROM '~/populate.sql'

@features_1312_a
User name and/or password

@features_1313_td
jdbc:h2:&lt;url&gt;[;USER=&lt;username&gt;][;PASSWORD=&lt;value&gt;]

@features_1314_td
jdbc:h2:file:~/sample;USER=sa;PASSWORD=123

@features_1315_a
Debug trace settings

@features_1316_td
jdbc:h2:&lt;url&gt;;TRACE_LEVEL_FILE=&lt;level 0..3&gt;

@features_1317_td
jdbc:h2:file:~/sample;TRACE_LEVEL_FILE=3

@features_1318_a
Ignore unknown settings

@features_1319_td
jdbc:h2:&lt;url&gt;;IGNORE_UNKNOW_SETTINGS=TRUE

@features_1320_a
Custom file access mode

@features_1321_td
jdbc:h2:&lt;url&gt;;ACCESS_MODE_DATA=rws

@features_1322_a
Database in a zip file

@features_1323_td
jdbc:h2:zip:&lt;zipFileName&gt;!&lt;databaseName&gt;

@features_1324_td
jdbc:h2:zip:~/db.zip!/test

@features_1325_a
Compatibility mode

@features_1326_td
jdbc:h2:&lt;url&gt;;MODE=&lt;databaseType&gt;

@features_1327_td
jdbc:h2:~/test;MODE=MYSQL

@features_1328_a
Auto-reconnect

@features_1329_td
jdbc:h2:&lt;url&gt;;AUTO_RECONNECT=TRUE

@features_1330_td
jdbc:h2:tcp://localhost/~/test;AUTO_RECONNECT=TRUE

@features_1331_a
Automatic mixed mode

@features_1332_td
jdbc:h2:&lt;url&gt;;AUTO_SERVER=TRUE

@features_1333_td
jdbc:h2:~/test;AUTO_SERVER=TRUE

@features_1334_a
Page size

@features_1335_td
jdbc:h2:&lt;url&gt;;PAGE_SIZE=512

@features_1336_a
Changing other settings

@features_1337_td
jdbc:h2:file:~/sample;TRACE_LEVEL_SYSTEM_OUT=3

Connecting to an Embedded (Local) Database

The database URL for connecting to a local database is `<code>jdbc:h2:[file:]&lt;path&gt;\&lt;databaseName&gt;</code>`. The prefix `<code>file:</code>` is optional. If no or only a relative path is used, then the current working directory is used as a starting point. The case sensitivity of the path and database name depend on the operating system, however it is recommended to use lowercase letters only. The database name must be at least three characters long (a limitation of `<code>File.createTempFile</code>`). To point to the user home directory, use `<code>~/</code>`, as in: `<code>jdbc:h2:~/test</code>.

In-Memory Databases

For certain use cases (for example: rapid prototyping, testing, high performance operations, read-only databases), it may not be required to persist data, or persist changes to the data. This database supports the in-memory mode, where the data is not persisted.

In some cases, only one connection to an in-memory database is required. This means the database to be opened is private. In this case, the database URL is `<code>jdbc:h2:mem:</code>` Opening two connections within the same virtual machine means opening two different (private) databases.

Sometimes multiple connections to the same in-memory database are required. In this case, the database URL must include a name. Example: `<code>jdbc:h2:mem:db1</code>`. Accessing the same database using this URL only works within the same virtual machine and class loader environment.

In-memory can be accessed remotely (or from multiple processes in the same machine) using TCP/IP or SSL/TLS. An example database URL is: `<code>jdbc:h2:tcp://localhost/mem:db1</code>.

By default, closing the last connection to a database closes the database. For an in-memory database, this means the content is lost. To keep the database open, add `<code>;DB_CLOSE_DELAY=-1</code>` to the database URL. To keep the content of an in-memory database as long as the virtual machine is alive, use `<code>jdbc:h2:mem:test;DB_CLOSE_DELAY=-1</code>.

Database Files Encryption
The database files can be encrypted. Two encryption algorithms are supported: AES and XTEA. To use file encryption, you need to specify the encryption algorithm (the 'cipher') and the file password (in addition to the user password) when connecting to the database.

Creating a New Database with File Encryption

By default, a new database is automatically created if it does not exist yet. To create an encrypted database, connect to it as if it would already exist.

Connecting to an Encrypted Database

The encryption algorithm is set in the database URL, and the file password is specified in the password field, before the user password. A single space separates the file password and the user password; the file password itself may not contain spaces. File passwords and user passwords are case sensitive. Here is an example to connect to a password-encrypted database:

Encrypting or Decrypting a Database

To encrypt an existing database, use the <code>ChangeFileEncryption</code> tool. This tool can also decrypt an encrypted database, or change the file encryption key. The tool is available from within the H2 Console in the tools section, or you can run it from the command line. The following command line will encrypt the database <code>test</code> in the user home directory with the file password <code>filepwd</code> and the encryption algorithm AES:

Database File Locking

Whenever a database is opened, a lock file is created to signal other processes that the database is in use. If database is closed, or if the process that opened the database terminates, this lock file is deleted.

The following file locking methods are implemented:

- The default method is <code>FILE</code> and uses a watchdog thread to protect the database file. The watchdog reads the lock file each second.

- The second method is <code>SOCKET</code> and opens a server socket. The socket method does not require reading the lock file every second. The socket method should only be used if the database files are only accessed by one (and always the same) computer.
It is also possible to open the database without file locking; in this case it is up to the application to protect the database files. Failing to do so will result in a corrupted database. Using the method `<code>NO</code>` forces the database to not create a lock file at all. Please note that this is unsafe as another process is able to open the same database, possibly leading to data corruption.

To open the database with a different file locking method, use the parameter `<code>FILE_LOCK</code>`. The following code opens the database with the 'socket' locking method:

For more information about the algorithms, see [Advanced / File Locking Protocols](advanced.html#file_locking_protocols).

Opening a Database Only if it Already Exists

By default, when an application calls `<code>DriverManager.getConnection(url, ...)</code>` and the database specified in the URL does not yet exist, a new (empty) database is created. In some situations, it is better to restrict creating new databases, and only allow to open existing databases. To do this, add `<code>;IFEXISTS=TRUE</code>` to the database URL. In this case, if the database does not already exist, an exception is thrown when trying to connect. The connection only succeeds when the database already exists. The complete URL may look like this:

Closing a Database

Usually, a database is closed when the last connection to it is closed. In some situations this slows down the application, for example when it is not possible to keep at least one connection open. The automatic closing of a database can be delayed or disabled with the SQL statement `<code>SET DB_CLOSE_DELAY &lt;seconds&gt;</code>`. The parameter `<code>&lt;seconds&gt;</code>` specifies the number of seconds to keep a database open after the last connection to it was closed. The following statement will keep a database open for 10 seconds after the last connection was closed:

The value `-1` means the database is not closed automatically. The value `0` is the default and means the database is closed when the last connection is closed. This setting is persistent and can be set by an administrator only. It is possible to set the value in the database URL: `<code>jdbc:h2:~/test;DB_CLOSE_DELAY=10</code>`.

Don't Close a Database when the VM Exits
By default, a database is closed when the last connection is closed. However, if it is never closed, the database is closed when the virtual machine exits normally, using a shutdown hook. In some situations, the database should not be closed in this case, for example because the database is still used at virtual machine shutdown (to store the shutdown process in the database for example). For those cases, the automatic closing of the database can be disabled in the database URL. The first connection (the one that is opening the database) needs to set the option in the database URL (it is not possible to change the setting afterwards). The database URL to disable database closing on exit is:

Execute SQL on Connection

Sometimes, particularly for in-memory databases, it is useful to be able to execute DDL or DML commands automatically when a client connects to a database. This functionality is enabled via the INIT property. Note that multiple commands may be passed to INIT, but the semicolon delimiter must be escaped, as in the example below.

Ignore Unknown Settings

Some applications (for example OpenOffice.org Base) pass some additional parameters when connecting to the database. Why those parameters are passed is unknown. The parameters `<code>PREFERDOSLIKELENEENDS</code>` and `<code>IGNOREDRIVERPRIVILEGES</code>` are such examples; they are simply ignored to improve the compatibility with OpenOffice.org. If an application passes other parameters when connecting to the database, usually the database throws an exception saying the parameter is not supported. It is possible to ignored such parameters by adding `<code>;IGNORE_UNKNOWN_SETTINGS=TRUE</code>` to the database URL.

Changing Other Settings when Opening a Connection

In addition to the settings already described, other database settings can be passed in the database URL. Adding `<code>;setting=value</code>` at the end of a database URL is the same as executing the statement `<code>SET setting value</code>` just after connecting. For a list of supported settings, see `<a href="grammar.html">SQL Grammar</a>`.

Custom File Access Mode

Usually, the database opens the database file with the access mode `<code>rw</code>`, meaning read-write (except for read only databases, where the mode `<code>r</code>` is used). To open a database in read-only mode if the database file is not read-only, use `<code>ACCESS_MODE_DATA=r</code>`. Also supported are `<code>rws</code>` and `<code>rwd</code>`. This setting must be specified in the database URL:
For more information see <a href="advanced.html#durability_problems">Durability Problems</a>. On many operating systems the access mode `<code>rws</code>` does not guarantee that the data is written to the disk.

Multiple Connections

Opening Multiple Databases at the Same Time

An application can open multiple databases at the same time, including multiple connections to the same database. The number of open database is only limited by the memory available.

Multiple Connections to the Same Database: Client/Server

If you want to access the same database at the same time from different processes or computers, you need to use the client / server mode. In this case, one process acts as the server, and the other processes (that could reside on other computers as well) connect to the server via TCP/IP (or SSL/TLS over TCP/IP for improved security).

Multithreading Support

This database is multithreading-safe. That means, if an application is multi-threaded, it does not need to worry about synchronizing access to the database. Internally, most requests to the same database are synchronized. That means an application can use multiple threads that access the same database at the same time, however if one thread executes a long running query, the other threads need to wait.

An application should normally use one connection per thread. This database synchronizes access to the same connection, but other databases may not do this.

Locking, Lock-Timeout, Deadlocks

The database uses table level locks to give each connection a consistent state of the data. There are two kinds of locks: read locks (shared locks) and write locks (exclusive locks). All locks are released when the transaction commits or rolls back. When using the default transaction isolation level 'read committed', read locks are already released after each statement.

If a connection wants to reads from a table, and there is no write lock on the table, then a read lock is added to the table. If there is a write lock, then this connection waits for the other connection to release the lock. If a connection cannot get a lock for a specified time, then a lock timeout exception is thrown.
Usually, `<code>SELECT</code>` statements will generate read locks. This includes subqueries. Statements that modify data use write locks. It is also possible to lock a table exclusively without modifying data, using the statement `<code>SELECT ... FOR UPDATE</code>`. The statements `<code>COMMIT</code>` and `<code>ROLLBACK</code>` releases all open locks. The commands `<code>SAVEPOINT</code>` and `<code>ROLLBACK TO SAVEPOINT</code>` don't affect locks. The locks are also released when the autocommit mode changes, and for connections with autocommit set to true (this is the default), locks are released after each statement. The following statements generate locks:

<table>
<thead>
<tr>
<th>Type of Lock</th>
<th>SQL Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read</td>
<td><code>&lt;code&gt;SELECT * FROM TEST;&lt;/code&gt;</code></td>
</tr>
<tr>
<td>Read</td>
<td><code>&lt;code&gt;CALL SELECT MAX(ID) FROM TEST;&lt;/code&gt;</code></td>
</tr>
<tr>
<td>Script</td>
<td><code>&lt;code&gt;SCRIPT;&lt;/code&gt;</code></td>
</tr>
<tr>
<td>Write</td>
<td><code>&lt;code&gt;SELECT * FROM TEST WHERE 1=0 FOR UPDATE;&lt;/code&gt;</code></td>
</tr>
<tr>
<td>Write</td>
<td><code>&lt;code&gt;INSERT INTO TEST VALUES(1, 'Hello');&lt;/code&gt;</code></td>
</tr>
<tr>
<td>Write</td>
<td><code>&lt;code&gt;INSERT INTO TEST SELECT * FROM TEST;&lt;/code&gt;</code></td>
</tr>
<tr>
<td>Write</td>
<td><code>&lt;code&gt;UPDATE TEST SET NAME='Hi';&lt;/code&gt;</code></td>
</tr>
<tr>
<td></td>
<td><code>&lt;code&gt;DELETE FROM TEST;&lt;/code&gt;</code></td>
</tr>
</tbody>
</table>
The number of seconds until a lock timeout exception is thrown can be set separately for each connection using the SQL command `<code>SET LOCK_TIMEOUT &lt;milliseconds&gt;</code>.

The initial lock timeout (that is, the timeout used for new connections) can be set using the SQL command `<code>SET DEFAULT_LOCK_TIMEOUT &lt;milliseconds&gt;</code>. The default lock timeout is persistent.

---

**Database File Layout**

The following files are created for persistent databases:

<table>
<thead>
<tr>
<th>File Name</th>
<th>Description</th>
<th>Number of Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>test.h2.db</td>
<td>Database file. Contains the transaction log, indexes, and data for all tables.</td>
<td>1 per database</td>
</tr>
</tbody>
</table>
test.lock.db

Database lock file.

Automatically (re-)created while the database is in use.

Format: `<code>&lt;database&gt;.lock.db</code>`

1 per database (only if in use)

---

test.trace.db

Trace file (if the trace option is enabled).

Contains trace information.

Format: `<code>&lt;database&gt;.trace.db</code>`

Renamed to `<code>&lt;database&gt;.trace.db.old</code>` is too big.

0 or 1 per database

test.lobs.db/*

Directory containing one file for each

BLOB or CLOB value larger than a certain size.

Format: `<code>&lt;id&gt;&lt;tableId&gt;.lob.db</code>`

1 per large object
Moving and Renaming Database Files

Database name and location are not stored inside the database files.

While a database is closed, the files can be moved to another directory, and they can be renamed as well (as long as all files of the same database start with the same name and the respective extensions are unchanged).

As there is no platform specific data in the files, they can be moved to other operating systems without problems.

Backup

When the database is closed, it is possible to backup the database files. Please note that index files do not need to be backed up, because they contain redundant data, and will be recreated automatically if they don't exist.

To backup data while the database is running, the SQL command <code>SCRIPT</code> can be used.

Logging and Recovery

Whenever data is modified in the database and those changes are committed, the changes are written to the transaction log (except for in-memory objects). The changes to the main data area itself are usually written later on, to optimize disk access. If there is a power failure, the main data area is not up-to-date, but because the changes are in the transaction log, the next time the database is opened, the changes are re-applied automatically.
Compatibility

All database engines behave a little bit different. Where possible, H2 supports the ANSI SQL standard, and tries to be compatible to other databases. There are still a few differences however:

In MySQL text columns are case insensitive by default, while in H2 they are case sensitive. However H2 supports case insensitive columns as well. To create the tables with case insensitive texts, append `<code>IGNORECASE=TRUE</code>` to the database URL (example: `<code>jdbc:h2:~/test;IGNORECASE=TRUE</code>`).

Compatibility Modes

For certain features, this database can emulate the behavior of specific databases. Not all features or differences of those databases are implemented. Here is the list of currently supported modes and the differences to the regular mode:

DB2 Compatibility Mode

To use the IBM DB2 mode, use the database URL `<code>jdbc:h2:~/test;MODE=DB2</code>` or the SQL statement `<code>SET MODE DB2</code>`.

For aliased columns, `<code>ResultSetMetaData.getColumnName()</code>` returns the alias name and `<code>getTableName()</code>` returns `<code>null</code>`.

Support for the syntax `<code>[OFFSET .. ROW] [FETCH ... ONLY]</code>` as an alternative for `<code>LIMIT .. OFFSET</code>`.

Concatenating `<code>NULL</code>` with another value results in the other value.

Derby Compatibility Mode

To use the Apache Derby mode, use the database URL `<code>jdbc:h2:~/test;MODE=Derby</code>` or the SQL statement `<code>SET MODE Derby</code>`.

For aliased columns, `<code>ResultSetMetaData.getColumnName()</code>` returns the alias name and `<code>getTableName()</code>` returns `<code>null</code>`.
For unique indexes, `<code>NULL</code>` is distinct. That means only one row with `<code>NULL</code>` in one of the columns is allowed.

Concatenating `<code>NULL</code>` with another value results in the other value.

To use the HSQLDB mode, use the database URL `<code>jdbc:h2:~/test;MODE=HSQLDB</code>` or the SQL statement `<code>SET MODE HSQLDB</code>`.

For aliased columns, `<code>ResultSetMetaData.getColumnName()</code>` returns the alias name and `<code>getTableName()</code>` returns `<code>null</code>`.

When converting the scale of decimal data, the number is only converted if the new scale is smaller than the current scale. Usually, the scale is converted and 0s are added if required.

Text can be concatenated using `'+'`.

To use the MS SQL Server mode, use the database URL `<code>jdbc:h2:~/test;MODE=MSSQLServer</code>` or the SQL statement `<code>SET MODE MSSQLServer</code>`.

For aliased columns, `<code>ResultSetMetaData.getColumnName()</code>` returns the alias name and `<code>getTableName()</code>` returns `<code>null</code>`.

Identifiers may be quoted using square brackets as in `<code>[Test]</code>`.

For unique indexes, `<code>NULL</code>` is distinct. That means only one row with `<code>NULL</code>` in one of the columns is allowed.
@features_1476_li
Concatenating `<code>NULL</code>` with another value results in the other value.

@features_1477_li
Text can be concatenated using `+`.

@features_1478_h3
MySQL Compatibility Mode

@features_1479_p
To use the MySQL mode, use the database URL `<code>jdbc:h2:~/test;MODE=MySQL</code>` or the SQL statement `<code>SET MODE MySQL</code>`.

@features_1480_li
When inserting data, if a column is defined to be `<code>NOT NULL</code>` and `<code>NULL</code>` is inserted, then a 0 (or empty string, or the current timestamp for timestamp columns) value is used. Usually, this operation is not allowed and an exception is thrown.

@features_1481_li
Creating indexes in the `<code>CREATE TABLE</code>` statement is allowed using `<code>INDEX(.</code>` or `<code>KEY(.</code>`. Example: `<code>create table test(id int primary key, name varchar(255), key idx_name(name));</code>`

@features_1482_li
Meta data calls return identifiers in lower case.

@features_1483_li
When converting a floating point number to an integer, the fractional digits are not truncated, but the value is rounded.

@features_1484_li
Concatenating `<code>NULL</code>` with another value results in the other value.

@features_1485_h3
Oracle Compatibility Mode

@features_1486_p
To use the Oracle mode, use the database URL `<code>jdbc:h2:~/test;MODE=Oracle</code>` or the SQL statement `<code>SET MODE Oracle</code>`.

@features_1487_li
For aliased columns, `<code>ResultSetMetaData.getColumnName()</code>` returns the alias name and `<code>getTableName()</code>` returns `<code>null</code>`.

@features_1488_li
When using unique indexes, multiple rows with `<code>NULL</code>` in all columns are allowed, however it is not allowed to have multiple rows with the same values otherwise.
Concatenating `<code>NULL</code>` with another value results in the other value.

### PostgreSQL Compatibility Mode

To use the PostgreSQL mode, use the database URL `<code>jdbc:h2:~/test;MODE=PostgreSQL</code>` or the SQL statement `<code>SET MODE PostgreSQL</code>`.

For aliased columns, `<code>ResultSetMetaData.getColumnName()</code>` returns the alias name and `<code>getTableName()</code>` returns `<code>null</code>`.

When converting a floating point number to an integer, the fractional digits are not be truncated, but the value is rounded.

The system columns `<code>CTID</code>` and `<code>OID</code>` are supported.

### Auto-Reconnect

The auto-reconnect feature causes the JDBC driver to reconnect to the database if the connection is lost. The automatic re-connect only occurs when auto-commit is enabled; if auto-commit is disabled, an exception is thrown. To enable this mode, append `<code>;AUTO_RECONNECT=TRUE</code>` to the database URL.

Re-connecting will open a new session. After an automatic re-connect, variables and local temporary tables definitions (excluding data) are re-created. The contents of the system table `<code>INFORMATION_SCHEMA.SESSION_STATE</code>` contains all client side state that is re-created.

If another connection uses the database in exclusive mode (enabled using `<code>SET EXCLUSIVE 1</code>` or `<code>SET EXCLUSIVE 2</code>`), then this connection will try to re-connect until the exclusive mode ends.

### Automatic Mixed Mode

Multiple processes can access the same database without having to start the server manually. To do that, append `<code>;AUTO_SERVER=TRUE</code>` to the database URL. You can use the same database URL independent of whether the database is already open or not. This feature doesn't work with in-memory databases.

When using this mode, the first connection to the database is made in embedded mode, and additionally a server is...
started internally (as a daemon thread). If the database is already open in another process, the server mode is used automatically.

The application that opens the first connection to the database uses the embedded mode, which is faster than the server mode. Therefore the main application should open the database first if possible. The first connection automatically starts a server on a random port. This server allows remote connections, however only to this database (to ensure that, the client reads <code>.lock.db</code> file and sends the the random key that is stored there to the server). When the first connection is closed, the server stops. If other (remote) connections are still open, one of them will then start a server (auto-reconnect is enabled automatically).

All processes need to have access to the database files. If the first connection is closed (the connection that started the server), open transactions of other connections will be rolled back (this may not be a problem if you don't disable autocommit). Explicit client/server connections (using <code>jdbc:h2:tcp://</code> or <code>ssl://</code>) are not supported. This mode is not supported for in-memory databases.

Here is an example how to use this mode. Application 1 and 2 are not necessarily started on the same computer, but they need to have access to the database files. Application 1 and 2 are typically two different processes (however they could run within the same process).

The page size for new databases is 2 KB (2048), unless the system property <code>h2.pageSize</code> is set to a different value, or the page size is set explicitly in the database URL using <code>PAGE_SIZE=</code>. The page size of existing databases can not be changed.

Using the Trace Options

To find problems in an application, it is sometimes good to see what database operations where executed. This database offers the following trace features:

Trace to <code>System.out</code> and/or to a file

Support for trace levels <code>OFF, ERROR, INFO, DEBUG</code>

The maximum size of the trace file can be set

It is possible to generate Java source code from the trace file
Trace can be enabled at runtime by manually creating a file

Trace Options

The simplest way to enable the trace option is setting it in the database URL. There are two settings, one for `System.out` (`TRACE_LEVEL_SYSTEM_OUT`) tracing, and one for file tracing (`TRACE_LEVEL_FILE`). The trace levels are 0 for `OFF`, 1 for `ERROR` (the default), 2 for `INFO`, and 3 for `DEBUG`. A database URL with both levels set to `DEBUG` is:

The trace level can be changed at runtime by executing the SQL command `SET TRACE_LEVEL_SYSTEM_OUT level` (for `System.out` tracing) or `SET TRACE_LEVEL_FILE level` (for file tracing). Example:

Setting the Maximum Size of the Trace File

When using a high trace level, the trace file can get very big quickly. The default size limit is 16 MB, if the trace file exceeds this limit, it is renamed to `.old` and a new file is created. If another such file exists, it is deleted. To limit the size to a certain number of megabytes, use `SET TRACE_MAX_FILE_SIZE mb`. Example:

Java Code Generation

When setting the trace level to `INFO` or `DEBUG`, Java source code is generated as well. This simplifies reproducing problems. The trace file looks like this:

To filter the Java source code, use the `ConvertTraceFile` tool as follows:

The generated file `<Test.java>` will contain the Java source code. The generated source code may be too large to compile (the size of a Java method is limited). If this is the case, the source code needs to be split in multiple methods. The password is not listed in the trace file and therefore not included in the source code.

Using Other Logging APIs

By default, this database uses its own native 'trace' facility. This facility is called 'trace' and not 'log' within this
database to avoid confusion with the transaction log. Trace messages can be written to both file and
<code>System.out</code>. In most cases, this is sufficient, however sometimes it is better to use the same facility
as the application, for example Log4j. To do that, this database support SLF4J.

SLF4J

is a simple facade for various logging APIs and allows to plug in the desired implementation at deployment time.
SLF4J supports implementations such as Logback, Log4j, Jakarta Commons Logging (JCL), Java logging, x4juli,
and Simple Log.

To enable SLF4J, set the file trace level to 4 in the database URL:

Changing the log mechanism is not possible after the database is open, that means executing the SQL statement
<code>SET TRACE_LEVEL_FILE 4</code> when the database is already open will not have the desired effect. To use SLF4J,
all required jar files need to be in the classpath. If it does not work, check the file
<code>&lt;database&gt;.trace.db</code> for error messages.

Read Only Databases

If the database files are read-only, then the database is read-only as well. It is not possible to create new tables, add
or modify data in this database. Only <code>SELECT</code> and <code>CALL</code> statements are allowed.
To create a read-only database, close the database. Then, make the database file read-only. When you open the
database now, it is read-only. There are two ways an application can find out whether database is read-only: by
calling <code>Connection.isReadOnly()</code> or by executing the SQL statement <code>CALL
READONLY()</code>.

Using the <a href="#custom_access_mode">Custom Access Mode</a> the database can also be
opened in read-only mode, even if the database file is not read only.

Read Only Databases in Zip or Jar File

To create a read-only database in a zip file, first create a regular persistent database, and then create a backup. The
database must not have pending changes, that means you need to close all connections to the database first. If you
are using a database named <code>test</code>, an easy way to create a zip file is using the <code>Backup</code> tool.
You can start the tool from the command line, or from within the H2 Console (Tools - Backup). Please note
that the database must be closed when the backup is created. Therefore, the SQL statement <code>BACKUP
TO</code> can not be used.
When the zip file is created, you can open the database in the zip file using the following database URL:

@features_1535_p
Databases in zip files are read-only. The performance for some queries will be slower than when using a regular
database, because random access in zip files is not supported (only streaming). How much this affects the
performance depends on the queries and the data. The database is not read in memory; therefore large databases are
supported as well. The same indexes are used as when using a regular database.

@features_1536_h2
Graceful Handling of Low Disk Space Situations

@features_1537_p
If the database needs more disk space, it calls the database event listener if one is installed. The application may then
delete temporary files, or display a message and wait until the user has resolved the problem. To install a listener,
run the SQL statement <code>SET DATABASE_EVENT_LISTENER</code> or use a database URL of the form
<code>jdbc:h2:~/test;DATABASE_EVENT_LISTENER='com.acme.DbListener'</code> (the quotes around the
class name are required). See also the <code>DatabaseEventListener</code> API.

@features_1538_h3
Opening a Corrupted Database

@features_1539_p
If a database cannot be opened because the boot info (the SQL script that is run at startup) is corrupted, then the
database can be opened by specifying a database event listener. The exceptions are logged, but opening the database
will continue.

@features_1540_h2
Computed Columns / Function Based Index

@features_1541_p
Function indexes are not directly supported by this database, but they can be emulated by using computed columns.
For example, if an index on the upper-case version of a column is required, create a computed column with the
upper-case version of the original column, and create an index for this column:

@features_1542_p
When inserting data, it is not required (and not allowed) to specify a value for the upper-case version of the column,
because the value is generated. But you can use the column when querying the table:

@features_1543_h2
Multi-Dimensional Indexes

@features_1544_p
A tool is provided to execute efficient multi-dimension (spatial) range queries. This database does not support a
specialized spatial index (R-Tree or similar). Instead, the B-Tree index is used. For each record, the multi-
dimensional key is converted (mapped) to a single dimensional (scalar) value. This value specifies the location on a
space-filling curve.

@features_1545_p
Currently, Z-order (also called N-order or Morton-order) is used; Hilbert curve could also be used, but the implementation is more complex. The algorithm to convert the multi-dimensional value is called bit-interleaving. The scalar value is indexed using a B-Tree index (usually using a computed column).

The method can result in a drastic performance improvement over just using an index on the first column. Depending on the data and number of dimensions, the improvement is usually higher than factor 5. The tool generates a SQL query from a specified multi-dimensional range. The method used is not database dependent, and the tool can easily be ported to other databases. For an example how to use the tool, please have a look at the sample code provided in <code>TestMultiDimension.java</code>.

Using Passwords

Using Secure Passwords

Remember that weak passwords can be broken regardless of the encryption and security protocols. Don't use passwords that can be found in a dictionary. Also appending numbers does not make them secure. A way to create good passwords that can be remembered is, take the first letters of a sentence, use upper and lower case characters, and creatively include special characters. Example:

i'sE2rtPiUKfT

from the sentence <code>it's easy to remember this password if you know the trick</code>.

Passwords: Using Char Arrays instead of Strings

Java strings are immutable objects and cannot be safely 'destroyed' by the application. After creating a string, it will remain in the main memory of the computer at least until it is garbage collected. The garbage collection cannot be controlled by the application, and even if it is garbage collected the data may still remain in memory. It might also be possible that the part of memory containing the password is swapped to disk (because not enough main memory is available).

An attacker might have access to the swap file of the operating system. It is therefore a good idea to use char arrays instead of strings to store passwords. Char arrays can be cleared (filled with zeros) after use, and therefore the password will not be stored in the swap file.

This database supports using char arrays instead of string to pass user and file passwords. The following code can be used to do that:
This example requires Java 1.6. When using Swing, use `<code>javax.swing.JPasswordField</code>.

Instead of passing the user name as a separate parameter as in `<code>Connection conn = DriverManager.getConnection("jdbc:h2:~/test", "sa", "123");</code> the user name (and/or password) can be supplied in the URL itself: `<code>Connection conn = DriverManager.getConnection("jdbc:h2:~/test;USER=sa;PASSWORD=123");</code> The settings in the URL override the settings passed as a separate parameter.

In addition to the built-in functions, this database supports user-defined Java functions. In this database, Java functions can be used as stored procedures as well. A function must be declared (registered) before it can be used. A function can be defined using source code, or as a reference to a compiled class that is available in the classpath. By default, the function aliases are stored in the current schema.

When referencing a method, the class must already be compiled and included in the classpath where the database is running. Only static Java methods are supported; both the class and the method must be public. Example Java class:

The Java function must be registered in the database by calling `<code>CREATE ALIAS ... FOR</code>:

For a complete sample application, see `<code>src/test/org/h2/samples/Function.java</code>.

When defining a function alias with source code, the database tries to compile the source code using the Sun Java compiler (the class `<code>com.sun.tools.javac.Main</code> ) if the `<code>tools.jar</code>` is in the classpath. If not, `<code>javac</code>` is run as a separate process. Only the source code is stored in the database; the class is compiled each time the database is re-opened. Source code is usually passed as dollar quoted text to avoid escaping problems, however single quotes can be used as well. Example:

The method name (`<code>nextPrime</code>` in the example above) is ignored. By default, the three packages `<code>java.util, java.math, java.sql</code>` are imported. If different import statements are required, they must be declared at the beginning and separated with the tag `<code>@CODE</code>`:
The following template is used to create a complete Java class:

Function Data Type Mapping

Functions that accept non-nullable parameters such as <code>int</code> will not be called if one of those parameters is <code>NULL</code>. Instead, the result of the function is <code>NULL</code>. If the function should be called if a parameter is <code>NULL</code>, you need to use <code>java.lang.Integer</code> instead.

SQL types are mapped to Java classes and vice-versa as in the JDBC API. For details, see <a href="datatypes.html">Data Types</a>. There are two special cases: <code>java.lang.Object</code> is mapped to <code>OTHER</code> (a serialized object). Therefore, <code>java.lang.Object</code> can not be used to match all SQL types (matching all SQL types is not supported). The second special case is <code>Object[]</code>: arrays of any class are mapped to <code>ARRAY</code>.

Functions That Require a Connection

If the first parameter of a Java function is a <code>java.sql.Connection</code>, then the connection to database is provided. This connection does not need to be closed before returning. When calling the method from within the SQL statement, this connection parameter does not need to be (can not be) specified.

Functions Throwing an Exception

If a function throws an exception, then the current statement is rolled back and the exception is thrown to the application. SQLException are directly re-thrown to the calling application; all other exceptions are first converted to a SQLException.

Functions Returning a Result Set

Functions may returns a result set. Such a function can be called with the <code>CALL</code> statement:

Using SimpleResultSet

A function can create a result set using the <code>SimpleResultSet</code> tool:
Using a Function as a Table

A function that returns a result set can be used like a table. However, in this case the function is called at least twice: first while parsing the statement to collect the column names (with parameters set to <code>null</code> where not known at compile time). And then, while executing the statement to get the data (maybe multiple times if this is a join). If the function is called just to get the column list, the URL of the connection passed to the function is <code>jdbc:columnlist:connection</code>. Otherwise, the URL of the connection is <code>jdbc:default:connection</code>.

Triggers

This database supports Java triggers that are called before or after a row is updated, inserted or deleted. Triggers can be used for complex consistency checks, or to update related data in the database. It is also possible to use triggers to simulate materialized views. For a complete sample application, see <code>src/test/org/h2/samples/TriggerSample.java</code>. A Java trigger must implement the interface <code>org.h2.api.Trigger</code>. The trigger class must be available in the classpath of the database engine (when using the server mode, it must be in the classpath of the server).

The connection can be used to query or update data in other tables. The trigger then needs to be defined in the database:

The trigger can be used to veto a change by throwing a <code>SQLException</code>.

Compacting a Database

Empty space in the database file re-used automatically. When closing the database, the database is automatically compacted for up to 1 second by default. To compact more, use the SQL statement SHUTDOWN COMPACT. However re-creating the database may further reduce the database size because this will re-build the indexes. Here is a sample function to do this:

See also the sample application <code>org.h2.samples.Compact</code>. The commands <code>SCRIPT / RUNSCRIPT</code> can be used as well to create a backup of a database and re-build the database from the script.

Cache Settings

The database keeps most frequently used data in the main memory. The amount of memory used for caching can be changed using the setting <code>CACHE_SIZE</code>. This setting can be set in the database connection URL (<code>jdbc:h2:~/test;CACHE_SIZE=131072</code>), or it can be changed at runtime using <code>SET
CACHE_SIZE size. The size of the cache, as represented by `<code>CACHE_SIZE</code>` is measured in KB, with each KB being 1024 bytes. This setting has no effect for in-memory databases. For persistent databases, the setting is stored in the database and re-used when the database is opened the next time. However, when opening an existing database, the cache size is set to at most half the amount of memory available for the virtual machine (Runtime.getRuntime().maxMemory()), even if the cache size setting stored in the database is larger; however the setting stored in the database is kept. Setting the cache size in the database URL or explicitly using `<code>SET CACHE_SIZE</code>` overrides this value (even if larger than the physical memory). To get the current used maximum cache size, use the query `<code>SELECT * FROM INFORMATION_SCHEMA.SETTINGS WHERE NAME = 'info.CACHE_MAX_SIZE'</code>.

Also included is an experimental second level soft reference cache. Rows in this cache are only garbage collected on low memory. By default the second level cache is disabled. To enable it, use the prefix `<code>SOFT_</code>`. Example: `<code>jdbc:h2:~/test;CACHE_TYPE=SOFT_LRU</code>`. The cache might not actually improve performance. If you plan to use it, please run your own test cases first.

To get information about page reads and writes, and the current caching algorithm in use, call `<code>SELECT * FROM INFORMATION_SCHEMA.SETTINGS</code>`. The number of pages read / written is listed.
Features

@fragments_1010_a
Performance

@fragments_1011_a
Advanced

@fragments_1012_b
Reference

@fragments_1013_a
SQL Grammar

@fragments_1014_a
Functions

@fragments_1015_a
Data Types

@fragments_1016_a
Javadoc

@fragments_1017_a
PDF (1 MB)

@fragments_1018_b
Support

@fragments_1019_a
FAQ

@fragments_1020_a
Error Analyzer

@fragments_1021_a
Google Group (English)

@fragments_1022_a
Google Group (Japanese)

@fragments_1023_a
Google Group (Chinese)

@fragments_1024_b
Appendix
Welcome to H2, the free SQL database. The main feature of H2 are:

- It is free to use for everybody, source code is included
- Written in Java, but also available as native executable
- JDBC and (partial) ODBC API
- Embedded and client/server modes
- Clustering is supported
- A web client is included

If you are not automatically redirected to the main page, then Javascript is currently disabled or your browser does not support Javascript. Some features (for example the integrated search) require Javascript.
History and Roadmap

Change Log

Roadmap

History of this Database Engine

Why Java

Supporters

Change Log

The up-to-date change log is available at http://www.h2database.com/html/changelog.html

Roadmap

The current roadmap is available at http://www.h2database.com/html/roadmap.html

History of this Database Engine

The development of H2 was started in May 2004, but it was first published on December 14th 2005. The main author of H2, Thomas Mueller, is also the original developer of Hypersonic SQL. In 2001, he joined PointBase Inc. where he wrote PointBase Micro, a commercial Java SQL database. At that point, he had to discontinue Hypersonic SQL. The HSQLDB Group was formed to continued to work on the Hypersonic SQL codebase. The name H2 stands for Hypersonic 2, however H2 does not share code with Hypersonic SQL or HSQLDB. H2 is built from scratch.

History of this Database Engine
Why Java

The main reasons to use a Java database are:

Very simple to integrate in Java applications

Support for many different platforms

More secure than native applications (no buffer overflows)

User defined functions (or triggers) run very fast

Unicode support

Some think Java is too slow for low level operations, but this is no longer true. Garbage collection for example is now faster than manual memory management.

Developing Java code is faster than developing C or C++ code. When using Java, most time can be spent on improving the algorithms instead of porting the code to different platforms or doing memory management. Features such as Unicode and network libraries are already built-in. In Java, writing secure code is easier because buffer overflows can not occur. Features such as reflection can be used for randomized testing.

Java is future proof: a lot of companies support Java. Java is now open source.

To increase the portability and ease of use, this software depends on very few libraries. Features that are not available in open source Java implementations (such as Swing) are not used, or only used for optional features.

Supporters

Many thanks for those who reported bugs, gave valuable feedback, spread the word, and translated this project. Also many thanks to the donors:

Code Lutin, France


Code 42 Software, Inc., Minneapolis

@history_1027_a
NetSuxxess GmbH, Germany

@history_1028_a
Poker Copilot, Steve McLeod, Germany

@history_1029_a
SkyCash, Poland

@history_1030_a
Lumber-mill, Inc., Japan

@history_1031_li
Martin Wildam, Austria

@history_1032_li
Donald Bleyl, USA

@history_1033_li
Frank Berger, Germany

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Antonio Casqueiro, Portugal

@history_1038_li
Oliver Computing LLC, USA

@history_1039_li
Harpal Grover Consulting Inc., USA

@history_1040_li
Elisabetta Berlini, Italy

@history_1041_li
William Gilbert, USA

@history_1042_li
Erik Dick, Germany

Pengxiang Shao, China

Installation

Requirements

Supported Platforms

Installation

Requirements

Supported Platforms

To run this database, the following software stack is known to work. Other software most likely also works, but is not tested as much.

Database Engine

Windows XP or Vista, Mac OS X, or Linux

Sun JDK 1.5 or newer (using Retroweaver to convert to JDK 1.4 should work, but is not regularly tested)

Recommended Windows file system: NTFS (FAT32 only supports files up to 4 GB)

H2 Console

Mozilla Firefox

Supported Platforms
As this database is written in Java, it can run on many different platforms. It is tested with Java 1.5 and 1.6 but can also be compiled to native code using GCJ. The source code does not use features of Java 1.6. Currently, the database is developed and tested on Windows XP and Mac OS X using the Sun JDK 1.6, but it also works in many other operating systems and using other Java runtime environments.

Installing the Software

To install the software, run the installer or unzip it to a directory of your choice.

Directory Structure

After installing, you should get the following directory structure:

Directory

Contents

bin

JAR and batch files

docs

Documentation

docs/html

HTML pages

docs/javadoc

Javadoc files
External dependencies (downloaded when building)

Tools to run the database as a Windows Service

Source files

Documentation sources

Installer, shell, and release build script

Database engine source code

Test source code

Tools and database adapters source code
JaQu stands for Java Query and allows to access databases using pure Java. JaQu provides a fluent interface (or internal DSL) to access a database. JaQu is something like LINQ for Java (LINQ stands for "language integrated query" and is a Microsoft .NET technology). The following JaQu code:

stands for the SQL statement:
Unlike SQL, JaQu can be easily integrated in Java applications. Because JaQu is pure Java, auto-complete in the IDE and Javadoc and are supported. Type checking is performed by the compiler. JaQu fully protects against SQL injection.

JaQu is more a replacement for JDBC than it is a replacement for tools like Hibernate. With JaQu, you don't write SQL statements as Strings. JaQu is much smaller and simpler than other persistence frameworks such as Hibernate, but it also does not provide all the features of those. Unlike iBatis and Hibernate, no XML or annotation based configuration is required; instead the configuration (if required at all) is done in pure Java, in the application itself.

JaQu does not require or contain any data caching mechanism. Like JDBC and iBatis, JaQu provides full control over when and what SQL statements are executed (but without having to write SQL statements as Strings).

Restrictions

Primitive types (e.g., `boolean, int, long, double`) are not supported. Use `java.lang.Boolean, Integer, Long, Double` instead.

Why in Java?

Most people use Java in their application. Mixing Java and another language (for example Scala or Groovy) in the same application is complicated: you would need to split the application and database code.

Current State

Currently, JaQu is only tested with the H2 database. The API may change in future versions. JaQu is not part of the h2 jar file, however the source code is included in H2, under:

```
src/test/org/h2/test/jaqu/*
```

(samples and tests)

```
src/tools/org/h2/jaqu/*
```

(framework)
Building the JaQu Library

To create the JaQu jar file, run: `build jarJaqu`. This will create the file `bin/h2jaqu.jar`.

Requirements

JaQu requires Java 1.5. Annotations are not needed. Currently, JaQu is only tested with the H2 database engine, however in theory it should work with any database that supports the JDBC API.

Example Code

Configuration

JaQu does not require any configuration when using the default mapping. To define table indices, or if you want to map a class to a table with a different name, or a field to a column with another name, create a function called `define()` in the data class. Example:

The method `define()` contains the mapping definition. It is called once when the class is used for the first time. Like annotations, the mapping is defined in the class itself. Unlike when using annotations, the compiler can check the syntax even for multi-column objects (multi-column indexes, multi-column primary keys and so on). Because the definition is written in regular Java, the configuration can depend on the environment. This is not possible using annotations. Unlike XML mapping configuration, the configuration is integrated in the class itself.

Natural Syntax

The plan is to support more natural (pure Java) syntax in conditions. To do that, the condition class is de-compiled to a SQL condition. A proof of concept decompiler is included (but it doesn't work yet). The planned syntax is:

Other Ideas

This project has just been started, and nothing is fixed yet. Some ideas for what to implement are:

Support queries on collections (instead of using a database).

Provide API level compatibility with JPA (so that JaQu can be used as an extension of JPA).
Internally use a JPA implementation (for example Hibernate) instead of SQL directly.

Use PreparedStatements and cache them.

Similar Projects

Cement Framework

Dreamsource ORM

Empire-db

JEQUEL: Java Embedded QUEry Language

Joist

JoSQL

LIQUidFORM

Quaere (Alias implementation)

Quaere

Querydsl

Squill

License

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Free Open Source Software For Us

Wikipedia

Java Source Net

Linux Package Manager

Database Frontends / Tools

DB Solo

SQL query tool.

DbVisualizer

Database tool.

Execute Query

Database utility written in Java.

[fleXive]

JavaEE 5 open source framework for the development of complex and evolving (web-)applications.

HenPlus

HenPlus is a SQL shell written in Java.

OpenOffice
Base is OpenOffice.org's database application. It provides access to relational data sources.

RazorSQL

An SQL query tool, database browser, SQL editor, and database administration tool.

SQL Developer

Universal Database Frontend.

SQL Workbench/J

Free DBMS-independent SQL tool.

SQuirreL SQL Client

Graphical tool to view the structure of a database, browse the data, issue SQL commands etc.

SQuirreL DB Copy Plugin

Tool to copy data from one database to another.

Products and Projects

AccuProcess

Visual business process modeling and simulation software for business users.

Adeptia BPM

A Business Process Management (BPM) suite to quickly and easily automate business processes and workflows.
Adeptia Integration

Process-centric, services-based application integration suite.

Aejaks

A server-side scripting environment to build AJAX enabled web applications.

Axiom Stack

A web framework that let's you write dynamic web applications with Zen-like simplicity.

Apache Cayenne

Open source persistence framework providing object-relational mapping (ORM) and remoting services.

Apache Jackrabbit

Open source implementation of the Java Content Repository API (JCR).

Apache OpenJPA

Open source implementation of the Java Persistence API (JPA).

AppFuse

Helps building web applications.

BGBlitz

The Swiss army knife of Backgammon.
Blojsom

Java-based multi-blog, multi-user software package (Mac OS X Weblog Server).

Bonita

Open source workflow solution for handling long-running, user-oriented processes providing out of the box workflow and business process management features.

Bookmarks Portlet

JSR 168 compliant bookmarks management portlet application.

Claros inTouch

Ajax communication suite with mail, addresses, notes, IM, and rss reader.

CrashPlan PRO Server

Easy and cross platform backup solution for business and service providers.

DbUnit

A JUnit extension (also usable with Ant) targeted for database-driven projects.

Dinamica Framework

Ajax/J2EE framework for RAD development (mainly oriented toward hispanic markets).

Ebean ORM Persistence Layer

Open source Java Object Relational Mapping tool.
Eclipse CDO

The CDO (Connected Data Objects) Model Repository is a distributed shared model framework for EMF models, and a fast server-based O/R mapping solution.

Epictetus

Free cross platform database tool.

Fabric3

Fabric3 is a project implementing a federated service network based on the Service Component Architecture specification (http://www.osoa.org).

FIT4Data

A testing framework for data management applications built on the Java implementation of FIT.

Flux

Java job scheduler, file transfer, workflow, and BPM.

GBIF Integrated Publishing Toolkit (IPT)

The GBIF IPT is an open source, Java based web application that connects and serves three types of biodiversity data: taxon primary occurrence data, taxon checklists and general resource metadata.

GNU Gluco Control

Helps you to manage your diabetes.

Golden T Studios
Fun-to-play games with a simple interface.

Group Session

Open source web groupware.

HA-JDBC

High-Availability JDBC: A JDBC proxy that provides light-weight, transparent, fault tolerant clustering capability to any underlying JDBC driver.

Harbor

Pojo Application Server.

Hibernate

Relational persistence for idiomatic Java (O-R mapping tool).

Hibicius

Online Banking Client for the HBCI protocol.

ImageMapper

ImageMapper frees users from having to use file browsers to view their images. They get fast access to images and easy cataloguing of them via a user friendly interface.

JAMWiki

Java-based Wiki engine.
Open source collection of JavaScript modules.

Simple Monitoring API.

A platform for executable process languages ranging from business process management (BPM) over workflow to service orchestration.

An enterprise management solution for JBoss middleware projects and other application technologies.

Free Java geocoder. Geocoding is the process of estimating a latitude and longitude for a given location.

Java Geographic Resources Analysis Support System. Free, multi platform, open source GIS based on the GIS framework of uDig.

Java framework for building Semantic Web applications.

Java framework for building Semantic Web applications.
Framework for constructing workgroup business applications based on the Naked Objects Architectural Pattern.

@links_1141_a
JotBot

@links_1142_p
Records your day at user defined intervals.

@links_1143_a
JPOX

@links_1144_p
Java persistent objects.

@links_1145_a
Liftweb

@links_1146_p
A Scala-based, secure, developer friendly web framework.

@links_1147_a
LiquiBase

@links_1148_p
A tool to manage database changes and refactorings.

@links_1149_a
Luntbuild

@links_1150_p
Build automation and management tool.

@links_1151_a
localdb

@links_1152_p
A tool that locates the full file path of the folder containing the database files.

@links_1153_a
Magnolia

@links_1154_p

@links_1155_a
MiniConnectionPoolManager
Mr. Persister

Simple, small and fast object relational mapping.

Myna Application Server

Java web app that provides dynamic web content and Java libraries access from JavaScript.

MyTunesRSS

MyTunesRSS lets you listen to your music wherever you are.

NCGC CurveFit

From: NIH Chemical Genomics Center, National Institutes of Health, USA. An open source application in the life sciences research field. This application handles chemical structures and biological responses of thousands of compounds with the potential to handle million+ compounds. It utilizes an embedded H2 database to enable flexible query/retrieval of all data including advanced chemical substructure and similarity searching. The application highlights an automated curve fitting and classification algorithm that outperforms commercial packages in the field. Commercial alternatives are typically small desktop software that handle a few dose response curves at a time. A couple of commercial packages that do handle several thousand curves are very expensive tools (&gt;60k USD) that require manual curation of analysis by the user; require a license to Oracle; lack advanced query/retrieval; and the ability to handle chemical structures.

Nuxeo

Standards-based, open source platform for building ECM applications.

nWire

Eclipse plug-in which expedites Java development. It's main purpose is to help developers find code quicker and easily understand how it relates to the rest of the application, thus, understand the application structure.
Ontology Works

This company provides semantic technologies including deductive information repositories (the Ontology Works Knowledge Servers), semantic information fusion and semantic federation of legacy databases, ontology-based domain modeling, and management of the distributed enterprise.

Ontoprise OntoBroker


Open Anzo

Semantic Application Server.

OpenTelegard

An OpenSource BBS Software written in JRuby.

OpenGroove

OpenGroove is a groupware program that allows users to synchronize data.

OpenSocial Development Environment (OSDE)

Development tool for OpenSocial application.

Orion

J2EE Application Server.

P5H2
A library for the <a href="http://www.processing.org">Processing</a> programming language and environment.

Phase-6

A computer based learning software.

Pickle

Pickle is a Java library containing classes for persistence, concurrency, and logging.

Piman

Water treatment projects data management.

PolePosition

Open source database benchmark.

Poormans

Very basic CMS running as a SWT application and generating static html pages.

Railo

Railo is an alternative engine for the Cold Fusion Markup Language, that compiles code programmed in CFML into Java bytecode and executes it on a servlet engine.

Razuna

Open source Digital Asset Management System with integrated Web Content Management.

RIFE
A full-stack web application framework with tools and APIs to implement most common web features.

Rutema

Rutema is a test execution and management tool for heterogeneous development environments written in Ruby.

Sava

Open-source web-based content management system.

Scriptella

ETL (Extract-Transform-Load) and script execution tool.

Sesar

Dependency Injection Container with Aspect Oriented Programming.

SemmleCode

Eclipse plugin to help you improve software quality.

SeQuaLite

A free, lightweight, java data access framework.

ShapeLogic

Toolkit for declarative programming, image processing and computer vision.

Shellbook
Desktop publishing application.

Signsoft intelliBO

Persistence middleware supporting the JDO specification.

SimpleORM

Simple Java Object Relational Mapping.

SymmetricDS

A web-enabled, database independent, data synchronization/replication software.

SmartFoxServer

Platform for developing multiuser applications and games with Macromedia Flash.

Social Bookmarks Friend Finder

A GUI application that allows you to find users with similar bookmarks to the user specified (for delicious.com).

Springfuse

Code generation For Spring, Spring MVC & Hibernate.

SQLOrm

Java Object Relation Mapping.

StorYBook
A summary-based tool for novelist and script writers. It helps to keep the overview over the various traces a story has.

StreamCruncher

Event (stream) processing kernel.

Tune Backup

Easy-to-use backup solution for your iTunes library.

weblica

Desktop CMS.

Web of Web

Collaborative and realtime interactive media platform for the web.

Werkzeugkasten

Minimum Java Toolset.

VPDA

View providers driven applications is a Java based application framework for building applications composed from server components - view providers.

Volunteer database

A database front end to register volunteers, partnership and donation for a Non Profit organization.
H2 Database Engine

Welcome to H2, the Java SQL database. The main features of H2 are:

- Very fast, open source, JDBC API
- Embedded and server modes; in-memory databases
- Browser based Console application
- Small footprint: around 1 MB jar file size

Download

Version 1.2.140 (2010-07-25):

- Windows Installer (4 MB)
- All Platforms (zip, 5 MB)

Support

- English Google Group
- Japanese Google Group

For non-technical issues, use:
<table>
<thead>
<tr>
<th>Features</th>
<th>H2</th>
<th>Derby</th>
<th>HSQLDB</th>
<th>MySQL</th>
<th>PostgreSQL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure Java</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Memory Mode</td>
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<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<td>Feature</td>
<td>Status</td>
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<tr>
<td>-------------------------------</td>
<td>--------</td>
<td></td>
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<tr>
<td>Encrypted Database</td>
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<tr>
<td>ODBC Driver</td>
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<tr>
<td>Fulltext Search</td>
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<td>Feature</td>
<td>Value</td>
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<tr>
<td>Multi Version Concurrency</td>
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<tr>
<td>Footprint (jar/dll size)</td>
<td>~1 MB</td>
<td></td>
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<tr>
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<td>~2 MB</td>
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<tr>
<td></td>
<td>~6 MB</td>
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</tr>
</tbody>
</table>
See also the <a href="features.html#comparison">detailed comparison</a>.

News

Newsfeeds:

Full text (Atom)


Email Newsletter:

Subscribe to <a href="http://groups.google.com/group/h2database-news/subscribe">H2 Database News</a> to get informed about new releases. Your email address is only used in this context.

Contribute

You can contribute to the development of H2 by sending feedback and bug reports, or translate the H2 Console application (for details, start the H2 Console and select Options / Translate). To donate money, click on the PayPal button below. You will be listed as a supporter:

Welcome to H2, the free Java SQL database engine.

Quickstart

Get a fast overview.

Tutorial
Go through the samples.

See what this database can do and how to use these features.

Performance

Performance Comparison

PolePosition Benchmark

Application Profiling

Database Profiling

Database Performance Tuning

Using the Built-In Profiler

Fast Database Import

Performance Comparison

In many cases H2 is faster than other (open source and not open source) database engines. Please note this is mostly a single connection benchmark run on one computer.
<table>
<thead>
<tr>
<th>Database</th>
<th>Simple: Init</th>
<th>Simple: Query (random)</th>
<th>Simple: Query (sequential)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2</td>
<td>241 ms</td>
<td>193 ms</td>
<td>89 ms</td>
</tr>
<tr>
<td>HSQLDB</td>
<td>431 ms</td>
<td>267 ms</td>
<td>748 ms</td>
</tr>
<tr>
<td>Derby</td>
<td>1027 ms</td>
<td>748 ms</td>
<td>267 ms</td>
</tr>
<tr>
<td>Operation Type</td>
<td>Time in ms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simple: Update (random)</td>
<td>406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simple: Delete (sequential)</td>
<td>772</td>
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<td></td>
</tr>
<tr>
<td>Simple: Memory Usage</td>
<td>7</td>
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</tbody>
</table>

```
<table>
<thead>
<tr>
<th>BenchA: Init</th>
<th>ms</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>BenchA: Transactions</td>
<td>ms</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>251</td>
</tr>
<tr>
<td>BenchA: Memory Usage</td>
<td>MB</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8</td>
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<td></td>
<td>14</td>
</tr>
<tr>
<td></td>
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<td>12</td>
</tr>
<tr>
<td>BenchB: Init</td>
<td>ms</td>
<td>787</td>
</tr>
<tr>
<td>BenchB: Transactions</td>
<td>ms</td>
<td>465</td>
</tr>
<tr>
<td>BenchB: Memory Usage</td>
<td>MB</td>
<td>17</td>
</tr>
</tbody>
</table>
Total time

ms

Statements per second

#
<table>
<thead>
<tr>
<th>Database</th>
<th>Simple: Init (ms)</th>
<th>Simple: Query (random) (ms)</th>
</tr>
</thead>
<tbody>
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<td>H2</td>
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<td>HSQLDB</td>
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<tr>
<td>Derby</td>
<td>3008</td>
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<tr>
<td>PostgreSQL</td>
<td>3093</td>
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<tr>
<td>MySQL</td>
<td>3084</td>
<td></td>
</tr>
<tr>
<td>Operation</td>
<td>Time (ms)</td>
<td></td>
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<tr>
<td>--------------------</td>
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</tr>
<tr>
<td>Simple: Query (sequential)</td>
<td>4450</td>
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<tr>
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<tr>
<td></td>
<td>3313</td>
<td></td>
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<tr>
<td>Simple: Update (random)</td>
<td>2531</td>
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<td></td>
<td>4404</td>
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</tr>
<tr>
<td>Simple: Delete (sequential)</td>
<td>ms</td>
<td>MB</td>
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<td>---------------------------</td>
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<td></td>
<td>778</td>
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<td></td>
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<tr>
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**BenchA: Init**
<table>
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<tr>
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<tbody>
<tr>
<td></td>
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<table>
<thead>
<tr>
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<tr>
<td></td>
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<tr>
<td></td>
<td></td>
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<tr>
<td>----------------</td>
<td>------------</td>
</tr>
<tr>
<td>BenchB: Init</td>
<td></td>
</tr>
<tr>
<td>ms</td>
<td>5571</td>
</tr>
<tr>
<td>BenchB: Transactions</td>
<td></td>
</tr>
<tr>
<td>ms</td>
<td>1931</td>
</tr>
<tr>
<td>BenchB: Memory Usage</td>
<td>MB</td>
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<table>
<thead>
<tr>
<th>BenchC: Init</th>
<th>ms</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>968</td>
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<td>1769</td>
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<td>2645</td>
</tr>
<tr>
<td>BenchC: Transactions</td>
<td>ms</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----</td>
</tr>
<tr>
<td>@performance_1205_td</td>
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<td>6508</td>
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<tr>
<td>@performance_1209_td</td>
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<td>6108</td>
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<tr>
<td>BenchC: Memory Usage</td>
<td>MB</td>
</tr>
<tr>
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<td>@performance_1212_td</td>
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<td>@performance_1213_td</td>
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<td>2</td>
<td></td>
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<tr>
<td>@performance_1214_td</td>
<td></td>
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<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Executed statements</td>
<td></td>
</tr>
<tr>
<td>#</td>
<td></td>
</tr>
</tbody>
</table>
Benchmark Results and Comments

H2

Version 1.2.137 (2010-06-06) was used for the test. For most operations, the performance of H2 is about the same as for HSQLDB. One situation where H2 is slow is large result sets, because they are buffered to disk if more than a certain number of records are returned. The advantage of buffering is: there is no limit on the result set size.

HSQLDB

Version 2.0.0 was used for the test. Cached tables are used in this test (<code>hsqldb.default_table_type=cached</code>), and the write delay is 1 second (<code>SET WRITE_DELAY 1</code>).

Derby

Version 10.6.1.0 was used for the test. Derby is clearly the slowest embedded database in this test. This seems to be a structural problem, because all operations are really slow. It will be hard for the developers of Derby to improve the performance to a reasonable level. A few problems have been identified: leaving autocommit on is a problem for Derby. If it is switched off during the whole test, the results are about 20% better for Derby. Derby calls <code>FileChannel.force(false)</code>, but only twice per log file (not on each commit). Disabling this call improves performance for Derby by about 2%. Unlike H2, Derby does not call <code>FileDescriptor.sync()</code> on each checkpoint. Derby supports a testing mode (system property <code>derby.system.durability=test</code>) where durability is disabled. According to the documentation, this setting should be used for testing only, as the database may not recover after a crash. Enabling this setting improves performance by a factor of 2.6 (embedded mode) or 1.4 (server mode). Even if enabled, Derby is still less than half as fast as H2 in default mode.

PostgreSQL
Version 8.4.4 was used for the test. The following options were changed in `postgresql.conf`: `fsync = off`, `commit_delay = 1000`. PostgreSQL is run in server mode. The memory usage number is incorrect, because only the memory usage of the JDBC driver is measured.

MySQL

MySQL

Version 5.1.47-community was used for the test. MySQL was run with the InnoDB backend. The setting `innodb_flush_log_at_trx_commit` (found in the `my.ini / my.cnf` file) was set to 0. Otherwise (and by default), MySQL is slow (around 140 statements per second in this test) because it tries to flush the data to disk for each commit. For small transactions (when autocommit is on) this is really slow. But many use cases use small or relatively small transactions. Too bad this setting is not listed in the configuration wizard, and it always overwritten when using the wizard. You need to change this setting manually in the file `my.ini / my.cnf`, and then restart the service. The memory usage number is incorrect, because only the memory usage of the JDBC driver is measured.

Firebird

Firebird

Firebird 1.5 (default installation) was tested, but the results are not published currently. It is possible to run the performance test with the Firebird database, and any information on how to configure Firebird for higher performance are welcome.

Why Oracle / MS SQL Server / DB2 are Not Listed

The license of these databases does not allow to publish benchmark results. This doesn't mean that they are fast. They are in fact quite slow, and need a lot of memory. But you will need to test this yourself. SQLite was not tested because the JDBC driver doesn't support transactions.

About this Benchmark

This test was as follows:

Separate Process per Database

For each database, a new process is started, to ensure the previous test does not impact the current test.
This is mostly a single-connection benchmark. BenchB uses multiple connections; the other tests use one connection.

Good benchmarks emulate real-world use cases. This benchmark includes 4 test cases: BenchSimple uses one table and many small updates / deletes. BenchA is similar to the TPC-A test, but single connection / single threaded (see also: www.tpc.org). BenchB is similar to the TPC-B test, using multiple connections (one thread per connection). BenchC is similar to the TPC-C test, but single connection / single threaded.

This is mainly a benchmark for embedded databases (where the application runs in the same virtual machine as the database engine). However MySQL and PostgreSQL are not Java databases and cannot be embedded into a Java application. For the Java databases, both embedded and server modes are tested.

This test is run on Mac OS X 10.6. No virus scanner was used, and disk indexing was disabled. The VM used is Sun JDK 1.6.

When a Java benchmark is run first, the code is not fully compiled and therefore runs slower than when running multiple times. A benchmark should always run the same test multiple times and ignore the first run(s). This benchmark runs three times, but only the last run is measured.

It is not enough to measure the time taken, the memory usage is important as well. Performance can be improved by using a bigger cache, but the amount of memory is limited. HSQLDB tables are kept fully in memory by default; this benchmark uses 'disk based' tables for all databases. Unfortunately, it is not so easy to calculate the memory usage of PostgreSQL and MySQL, because they run in a different process than the test. This benchmark currently does not print memory usage of those databases.
**Delayed Operations**

Some databases delay some operations (for example flushing the buffers) until after the benchmark is run. This benchmark waits between each database tested, and each database runs in a different process (sequentially).

**Transaction Commit / Durability**

Durability means transaction committed to the database will not be lost. Some databases (for example MySQL) try to enforce this by default by calling `fsync()` to flush the buffers, but most hard drives don't actually flush all data. Calling the method slows down transaction commit a lot, but doesn't always make data durable. When comparing the results, it is important to think about the effect. Many database suggest to 'batch' operations when possible. This benchmark switches off autocommit when loading the data, and calls commit after each 1000 inserts. However many applications need 'short' transactions at runtime (a commit after each update). This benchmark commits after each update / delete in the simple benchmark, and after each business transaction in the other benchmarks. For databases that support delayed commits, a delay of one second is used.

**Using Prepared Statements**

Wherever possible, the test cases use prepared statements.

**Currently Not Tested: Startup Time**

The startup time of a database engine is important as well for embedded use. This time is not measured currently. Also, not tested is the time used to create a database and open an existing database. Here, one (wrapper) connection is opened at the start, and for each step a new connection is opened and then closed.

**PolePosition Benchmark**

The PolePosition is an open source benchmark. The algorithms are all quite simple. It was developed / sponsored by db4o. This test was not run for a longer time, so please be aware that the results below are for older database versions (H2 version 1.1, HSQLDB 1.8, Java 1.4).
<table>
<thead>
<tr>
<th>Database</th>
<th>Melbourne write</th>
<th>Melbourne read</th>
<th>Melbourne read_hot</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2</td>
<td>369 ms</td>
<td>47 ms</td>
<td>24 ms</td>
</tr>
<tr>
<td>HSQLDB</td>
<td>249 ms</td>
<td>49 ms</td>
<td>2022 ms</td>
</tr>
<tr>
<td>MySQL</td>
<td>2022 ms</td>
<td>93 ms</td>
<td>93 ms</td>
</tr>
<tr>
<td>Melbourne delete</td>
<td>Sepang write</td>
<td>Sepang read</td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>--------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>176 ms</td>
<td>965 ms</td>
<td>765 ms</td>
<td></td>
</tr>
</tbody>
</table>

**Melbourne delete**
- @performance_1302_td
- Time: 176 ms

**Sepang write**
- @performance_1303_td
- Time: 965 ms

**Sepang read**
- @performance_1304_td
- Time: 765 ms
<table>
<thead>
<tr>
<th>Sepang read_hot</th>
<th>Sepang delete</th>
<th>Bahrain write</th>
</tr>
</thead>
<tbody>
<tr>
<td>3455 ms</td>
<td>789 ms</td>
<td>1186 ms</td>
</tr>
<tr>
<td>859 ms</td>
<td>1384 ms</td>
<td>1387 ms</td>
</tr>
<tr>
<td>3563 ms</td>
<td>1596 ms</td>
<td>6214 ms</td>
</tr>
<tr>
<td>Performance</td>
<td>Time (ms)</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>Bahrain query_indexed_string</td>
<td>1333</td>
<td></td>
</tr>
<tr>
<td>Bahrain query_string</td>
<td>1338</td>
<td></td>
</tr>
<tr>
<td>Bahrain query_indexed_int</td>
<td>1339</td>
<td></td>
</tr>
<tr>
<td>Bahrain update</td>
<td>1347</td>
<td></td>
</tr>
</tbody>
</table>
@performance_1348_td
ms

@performance_1349_td
191

@performance_1350_td
87

@performance_1351_td
159

@performance_1352_td
Bahrain delete

@performance_1353_td
ms

@performance_1354_td
1215

@performance_1355_td
729

@performance_1356_td
6812

@performance_1357_td
Imola retrieve

@performance_1358_td
ms

@performance_1359_td
198

@performance_1360_td
194

@performance_1361_td
4036

@performance_1362_td
Barcelona write

@performance_1363_td
ms
<table>
<thead>
<tr>
<th>Performance ID</th>
<th>Action</th>
<th>Time (ms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1364</td>
<td>Barcelona read</td>
<td>413</td>
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<tr>
<td>1367</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1368</td>
<td>Barcelona query</td>
<td>ms</td>
</tr>
<tr>
<td>1369</td>
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<td>1371</td>
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</tr>
<tr>
<td>1372</td>
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</tr>
<tr>
<td>1373</td>
<td>Barcelona delete</td>
<td>ms</td>
</tr>
<tr>
<td>1374</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1379</td>
<td></td>
<td>388</td>
</tr>
</tbody>
</table>
There are a few problems with the PolePosition test:

HSQLDB uses in-memory tables by default while H2 uses persistent tables. The HSQLDB version included in PolePosition does not support changing this, so you need to replace `<code>poleposition-0.20/lib/hsqldb.jar</code>` with a newer version (for example `<code>hsqldb-1.8.0.7.jar</code>`), and then use the setting `<code>hsqldb.connecturl=jdbc:hsqldb:file:data/hsqldb/dbbench2;hsqldb.default_table_type=cached;sql.enforce_size=true</code>` in the file `<code>Jdbc.properties</code>`.

HSQLDB keeps the database open between tests, while H2 closes the database (losing all the cache). To change that, use the database URL `<code>jdbc:h2:file:data/h2/dbbench;DB_CLOSE_DELAY=-1</code>`.

The amount of cache memory is quite important, specially for the PolePosition test. Unfortunately, the PolePosition test does not take this into account.

Before trying to optimize performance, it is important to understand where the problem is (what part of the
application is slow). Blind optimization or optimization based on guesses should be avoided, because usually it is not an efficient strategy. There are various ways to analyze an application. Sometimes two implementations can be compared using <code>System.currentTimeMillis()</code>. But this does not work for complex applications with many modules, and for memory problems.

A simple way to profile an application is to use the built-in profiling tool of java. Example:

Unfortunately, it is only possible to profile the application from start to end. Another solution is to create a number of full thread dumps. To do that, first run <code>jps -l</code> to get the process id, and then run <code>jstack &lt;pid&gt;</code> or <code>kill -QUIT &lt;pid&gt;</code> (Linux) or press Ctrl+C (Windows).

A simple profiling tool is included in H2. To use it, the application needs to be changed slightly. Example:

The profiler is built into the H2 Console tool, to analyze databases that open slowly. To use it, run the H2 Console, and then click on 'Test Connection'. Afterwards, click on "Test successful" and you get the most common stack traces, which helps to find out why it took so long to connect. You will only get the stack traces if opening the database took more than a few seconds.

The <code>ConvertTraceFile</code> tool generates SQL statement statistics at the end of the SQL script file. The format used is similar to the profiling data generated when using <code>java -Xrunhprof</code>. For this to work, the trace level needs to be 2 or higher (<code>TRACE_LEVEL_FILE=2</code>). The easiest way to set the trace level is to append the setting to the database URL, for example:

As an example, execute the following script using the H2 Console:

After running the test case, convert the <code>.trace.db</code> file using the <code>ConvertTraceFile</code> tool. The trace file is located in the same directory as the database file.

The generated file <code>test.sql</code> will contain the SQL statements as well as the following profiling data (results vary):

Database Performance Tuning

Keep Connections Open or Use a Connection Pool
If your application opens and closes connections a lot (for example, for each request), you should consider using a connection pool. Opening a connection using `DriverManager.getConnection` is specially slow if the database is closed. By default the database is closed if the last connection is closed.

If you open and close connections a lot but don't want to use a connection pool, consider keeping a 'sentinel' connection open for as long as the application runs, or use delayed database closing. See also Closing a database.

Use a Modern JVM

Newer JVMs are faster. Upgrading to the latest version of your JVM can provide a “free” boost to performance. Switching from the default Client JVM to the Server JVM using the `-server` command-line option improves performance at the cost of a slight increase in start-up time.

Virus Scanners

Some virus scanners scan files every time they are accessed. It is very important for performance that database files are not scanned for viruses. The database engine never interprets the data stored in the files as programs, that means even if somebody would store a virus in a database file, this would be harmless (when the virus does not run, it cannot spread). Some virus scanners allow to exclude files by suffix. Ensure files ending with `.db` are not scanned.

Using the Trace Options

If the performance hot spots are in the database engine, in many cases the performance can be optimized by creating additional indexes, or changing the schema. Sometimes the application does not directly generate the SQL statements, for example if an O/R mapping tool is used. To view the SQL statements and JDBC API calls, you can use the trace options. For more information, see Using the Trace Options.

Index Usage

This database uses indexes to improve the performance of `SELECT, UPDATE, DELETE`. If a column is used in the `WHERE` clause of a query, and if an index exists on this column, then the index can be used. Multi-column indexes are used if all or the first columns of the index are used. Both equality lookup and range scans are supported. Indexes are used to order result sets, but only if the condition uses the same index or no index at all. The results are sorted in memory if required. Indexes are created automatically for primary
key and unique constraints. Indexes are also created for foreign key constraints, if required. For other columns, indexes need to be created manually using the `<code>CREATE INDEX</code>` statement.

@performance_1414_h3
How Data is Stored Internally

@performance_1415_p
For persistent databases, if a table is created with a single column primary key of type `<code>BIGINT, INT, SMALLINT, TINYINT</code>`, then the data of the table is organized in this way. This is sometimes also called a "clustered index" or "index organized table".

@performance_1416_p
H2 internally stores table data and indexes in the form of b-trees. Each b-tree stores entries as a list of unique keys (one or more columns) and data (zero or more columns). The table data is always organized in the form of a "data b-tree" with a single column key of type `<code>long</code>`. If a single column primary key of type `<code>BIGINT, INT, SMALLINT, TINYINT</code>` is specified when creating the table, then this column is used as the key of the data b-tree. If no primary key has been specified, if the primary key column is of another data type, or if the primary key contains more than one column, then a hidden auto-increment column of type `<code>BIGINT</code>` is added to the table, which is used as the key for the data b-tree. All other columns of the table are stored within the data area of this data b-tree (except for large `<code>BLOB, CLOB</code>` columns, which are stored externally).

@performance_1417_p
For each additional index, one new "index b-tree" is created. The key of this b-tree consists of the indexed columns, plus the key of the data b-tree. If a primary key is created after the table has been created, or if the primary key contains multiple column, or if the primary key is not of the data types listed above, then the primary key is stored in a new index b-tree.

@performance_1418_h3
Optimizer

@performance_1419_p
This database uses a cost based optimizer. For simple and queries and queries with medium complexity (less than 7 tables in the join), the expected cost (running time) of all possible plans is calculated, and the plan with the lowest cost is used. For more complex queries, the algorithm first tries all possible combinations for the first few tables, and the remaining tables added using a greedy algorithm (this works well for most joins). Afterwards a genetic algorithm is used to test at most 2000 distinct plans. Only left-deep plans are evaluated.

@performance_1420_h3
Expression Optimization

@performance_1421_p
After the statement is parsed, all expressions are simplified automatically if possible. Operations are evaluated only once if all parameters are constant. Functions are also optimized, but only if the function is constant (always returns the same result for the same parameter values). If the `<code>WHERE</code>` clause is always false, then the table is not accessed at all.

@performance_1422_h3
COUNT(*) Optimization
If the query only counts all rows of a table, then the data is not accessed. However, this is only possible if no \texttt{WHERE} clause is used, that means it only works for queries of the form \texttt{SELECT COUNT(*) FROM table}.

### Updating Optimizer Statistics / Column Selectivity

When executing a query, at most one index per joined table can be used. If the same table is joined multiple times, for each join only one index is used. Example: for the query \texttt{SELECT * FROM TEST T1, TEST T2 WHERE T1.NAME='A' AND T2.ID=T1.ID}, two index can be used, in this case the index on NAME for T1 and the index on ID for T2.

If a table has multiple indexes, sometimes more than one index could be used. Example: if there is a table \texttt{TEST(ID, NAME, FIRSTNAME)} and an index on each column, then two indexes could be used for the query \texttt{SELECT * FROM TEST WHERE NAME='A' AND FIRSTNAME='B'}, the index on NAME or the index on FIRSTNAME. It is not possible to use both indexes at the same time. Which index is used depends on the selectivity of the column. The selectivity describes the 'uniqueness' of values in a column. A selectivity of 100 means each value appears only once, and a selectivity of 1 means the same value appears in many or most rows. For the query above, the index on NAME should be used if the table contains more distinct names than first names.

The SQL statement \texttt{ANALYZE} can be used to automatically estimate the selectivity of the columns in the tables. This command should be run from time to time to improve the query plans generated by the optimizer.

### In-Memory (Hash) Indexes

Using in-memory indexes, specially in-memory hash indexes, can speed up queries and data manipulation.

In-memory indexes are automatically used for in-memory databases, but can also be created for persistent databases using \texttt{CREATE MEMORY TABLE}. In many cases, the rows itself will also be kept in-memory. Please note this may cause memory problems for large tables.

In-memory hash indexes are backed by a hash table and are usually faster than regular indexes. However, hash indexes only supports direct lookup (\texttt{WHERE ID = ?}) but not range scan (\texttt{WHERE ID < ?}). To use hash indexes, use HASH as in: \texttt{CREATE UNIQUE HASH INDEX} and \texttt{CREATE TABLE ...(ID INT PRIMARY KEY HASH,...)}.

Use Prepared Statements
If possible, use prepared statements with parameters.

Prepared Statements and IN(…)

Avoid generating SQL statements with a variable size IN(…) list. Instead, use a prepared statement with arrays as in the following example:

Optimization Examples

See `<code>src/test/org/h2/samples/optimizations.sql</code>` for a few examples of queries that benefit from special optimizations built into the database.

Cache Size and Type

By default the cache size of H2 is quite small. Consider using a larger cache size, or enable the second level soft reference cache. See also `<a href="features.html#cache_settings">Cache Settings</a>`.

Data Types

Each data type has different storage and performance characteristics:

The `<code>DECIMAL/NUMERIC</code>` type is slower and requires more storage than the `<code>REAL</code>` and `<code>DOUBLE</code>` types.

Text types are slower to read, write, and compare than numeric types and generally require more storage.

See `<a href="advanced.html#large_objects">Large Objects</a>` for information on `<code>BINARY</code>` vs. `<code>BLOB</code>` and `<code>VARCHAR</code>` vs. `<code>CLOB</code>` performance.

Parsing and formatting takes longer for the `<code>TIME</code>`, `<code>DATE</code>`, and `<code>TIMESTAMP</code>` types than the numeric types.
are not significantly smaller or faster to work with than `<code>INTEGER</code>` in most modes.

Sorted Insert Optimization

To reduce disk space usage and speed up table creation, an optimization for sorted inserts is available. When used, b-tree pages are split at the insertion point. To use this optimization, add `<code>SORTED</code>` before the `<code>SELECT</code>` statement:

Using the Built-In Profiler

A very simple Java profiler is built-in. To use it, use the following template:

Fast Database Import

To speed up large imports, consider using the following options temporarily:

- `<code>SET LOG 0</code>` (disabling the transaction log)
- `<code>SET CACHE_SIZE</code>` (a large cache is faster)
- `<code>SET LOCK_MODE 0</code>` (disable locking)
- `<code>SET UNDO_LOG 0</code>` (disable the session undo log)
These options can be set in the database URL:
<code>jdbc:h2:~/test;LOG=0;CACHE_SIZE=65536;LOCK_MODE=0;UNDO_LOG=0</code>. Most of those options are not recommended for regular use, that means you need to reset them after use.

Embedding H2 in an Application

The database URL <code>jdbc:h2:~/test</code> opens the database <code>test</code> in your user home directory

A new database is automatically created

The Console lets you access a SQL database using a browser interface.

If you don't have Windows XP, or if something does not work as expected, please see the detailed description in the Tutorial.
Install the software using the Windows Installer (if you did not yet do that).

Start the Console

Click [Start], [All Programs], [H2], and [H2 Console (Command Line)]:

A new console window appears:

Also, a new browser page should open with the URL `http://localhost:8082`. You may get a security warning from the firewall. If you don't want other computers in the network to access the database on your machine, you can let the firewall block these connections. Only local connections are required at this time.

Login

Select [Generic H2] and click [Connect]:

You are now logged in.

Sample

Click on the [Sample SQL Script]:

The SQL commands appear in the command area.

Execute

Click [Run]

On the left side, a new entry TEST is added below the database icon. The operations and results of the statements are shown below the script.
Disconnect

Click on [Disconnect] to close the connection.

End

Close the console window. For more information, see the Tutorial.

Roadmap

New (feature) requests will usually be added at the very end of the list. The priority is increased for important and popular requests. Of course, patches are always welcome, but are not always applied as is. See also Providing Patches.

Version 1.3.x: Planned Changes

Enable h2.lobInDatabase (store CLOB and BLOB in the database file).

Set h2.analyzeAuto to 2000 (automatic ANALYZE).

Enable h2.functionsInSchema (allow to store functions in a schema).

Enable h2.selectForUpdateMvcc (MVCC and SELECT FOR UPDATE).

Enable h2.largeTransactions (support for very large transactions). Change documentation for MAX_MEMORY_UNDO in help.csv, because now changes to tables without a primary key can be buffered to disk. Later, change MAX_MEMORY_UNDO to reflect number of bytes instead of record (also remove Constants.UNDO_BLOCK_SIZE). Later, change undo log file format (fillAligned no longer required; var int).

Enable h2.nestedJoins (nested joins and right outer joins).

Enable h2.optimizeOr (convert OR conditions to IN(..) if possible).
@roadmap_1010_li
Disable h2.databaseToUpper (database short names are converted to uppercase).

@roadmap_1011_li
Enable h2.dropRestrict (default action for DROP is RESTRICT). Change documentation.

@roadmap_1012_h2
Priority 1

@roadmap_1013_li
Bugfixes

@roadmap_1014_li
More tests with MULTI_THREADED=1

@roadmap_1015_li
Server side cursors

@roadmap_1016_h2
Priority 2

@roadmap_1017_li
Improve test code coverage.

@roadmap_1018_li
Test multi-threaded in-memory db access.

@roadmap_1019_li
Access rights: remember the owner of an object. Create, alter and drop privileges. COMMENT: allow owner of object to change it. Issue 208.

@roadmap_1020_li
Full outer joins.

@roadmap_1021_li
Clustering: support mixed clustering mode (one embedded, others in server mode).

@roadmap_1022_li
Clustering: reads should be randomly distributed (optional) or to a designated database on RAM (parameter: READ_FROM=3).

@roadmap_1023_li
PostgreSQL catalog: use BEFORE SELECT triggers instead of views over metadata tables.

@roadmap_1024_li
Compatibility: automatically load functions from a script depending on the mode - see FunctionsMySQL.java, issue 211.
@roadmap_1025_li
Test very large databases and LOBs (up to 256 GB).

@roadmap_1026_li
Support hints for the optimizer (which index to use, enforce the join order).

@roadmap_1027_li
Sequence: add features [NO] MINVALUE, MAXVALUE, CYCLE.

@roadmap_1028_li
Deferred integrity checking (DEFERRABLE INITIALLY DEFERRED).

@roadmap_1029_li
Groovy Stored Procedures: http://groovy.codehaus.org/Groovy+SQL

@roadmap_1030_li
Add a migration guide (list differences between databases).

@roadmap_1031_li
Migrate database tool (also from other database engines). For Oracle, maybe use DBMS_METADATA.GET_DDL / GET_DEPENDENT_DDL.

@roadmap_1032_li
Optimization: automatic index creation suggestion using the trace file?

@roadmap_1033_li
Compression performance: don't allocate buffers, compress / expand in to out buffer.

@roadmap_1034_li
Rebuild index functionality to shrink index size and improve performance.

@roadmap_1035_li
Don't use deleteOnExit (bug 4513817: File.deleteOnExit consumes memory).

@roadmap_1036_li
Console: add accesskey to most important commands (A, AREA, BUTTON, INPUT, LABEL, LEGEND, TEXTAREA).

@roadmap_1037_li
Test performance again with SQL Server, Oracle, DB2.

@roadmap_1038_li

@roadmap_1039_li
Write more tests and documentation for MVCC (Multi Version Concurrency Control).
@roadmap_1040_li
Find a tool to view large text file (larger than 100 MB), with find, page up and down (like less), truncate before / after.

@roadmap_1041_li
Implement, test, document XAConnection and so on.

@roadmap_1042_li
Pluggable data type (for streaming, hashing, compression, validation, conversion, encryption).

@roadmap_1043_li
CHECK: find out what makes CHECK=TRUE slow, move to CHECK2.

@roadmap_1044_li
Drop with invalidate views (so that source code is not lost). Check what other databases do exactly.

@roadmap_1045_li
Index usage for (ID, NAME)=(1, 'Hi'); document.

@roadmap_1046_li
Make DDL (Data Definition) operations transactional.

@roadmap_1047_li
RANK() and DENSE_RANK(), Partition using OVER().

@roadmap_1048_li
Set a connection read only (Connection.setReadOnly) or using a connection parameter.

@roadmap_1049_li
Optimizer: use an index for IS NULL and IS NOT NULL (including linked tables). ID IS NOT NULL could be converted to ID &gt;= Integer.MIN_VALUE.

@roadmap_1050_li
Access rights: finer grained access control (grant access for specific functions).

@roadmap_1051_li
Version check: docs / web console (using Javascript), and maybe in the library (using TCP/IP).

@roadmap_1052_li
Web server classloader: override findResource / getResourceFrom.

@roadmap_1053_li
Cost for embedded temporary view is calculated wrong, if result is constant.

@roadmap_1054_li
Comparison: pluggable sort order: natural sort.
Count index range query (count(*) where id between 10 and 20).

Performance: update in-place.

Recursive Queries (see details).

Eclipse plugin.

Asynchronous queries to support publish/subscribe: SELECT ... FOR READ WAIT [maxMillisToWait]. See also MS SQL Server "Query Notification".

Fulltext search Lucene: analyzer configuration.

Fulltext search (native): reader / tokenizer / filter.

Linked schema using CSV files: one schema for a directory of files; support indexes for CSV files.

iReport to support H2.

Implement missing JDBC API (CallableStatement,...).

Compression of the cache.

Include SMPT (mail) client (alert on cluster failure, low disk space, ...).

JSON parser and functions.

Server: client ping from time to time (to avoid timeout - is timeout a problem?).

Copy database: tool with config GUI and batch mode, extensible (example: compare).

Document, implement tool for long running transactions using user-defined compensation statements.
Support SET TABLE DUAL READONLY.

GCJ: what is the state now?

Events for: database Startup, Connections, Login attempts, Disconnections, Prepare (after parsing), Web Server. See http://docs.openlinksw.com/virtuoso/fn_dbev_startup.html

Optimization: log compression.

ROW_NUMBER() OVER([ORDER BY columnName]).

Support standard INFORMATION_SCHEMA tables, as defined in http://www.contrib.andrew.cmu.edu/~shadow/sql/sql1992.txt - specially KEY_COLUMN_USAGE:
http://dev.mysql.com/doc/refman/5.0/en/information-schema.html,
http://www.xcdsql.org/Misc/INFORMATION_SCHEMA%20With%20Rolenames.gif

Compatibility: in MySQL, HSQLDB, /0.0 is NULL; in PostgreSQL, Derby: division by zero.

Functional tables should accept parameters from other tables (see FunctionMultiReturn) SELECT * FROM TEST T, P2C(T.A, T.R).

Custom class loader to reload functions on demand.

Clustering: when a database is back alive, automatically synchronize with the master.

Test http://mysql-je.sourceforge.net/

Performance: automatically build in-memory indexes if the whole table is in memory.

H2 Console: the webclient could support more features like phpMyAdmin.

Use Janino to convert Java to C++.
The HELP information schema can be directly exposed in the Console.

Maybe use the 0x1234 notation for binary fields, see MS SQL Server.


Version column (number/sequence and timestamp based).

Optimize getGeneratedKey: send last identity after each execute (server).

Test and document UPDATE TEST SET (ID, NAME) = (SELECT ID*10, NAME || '!' FROM TEST T WHERE T.ID=TEST.ID).

Max memory rows / max undo log size: use block count / row size not row count.

Support 123L syntax as in Java; example: SELECT (2000000000*2).

Implement point-in-time recovery.

LIKE: improved version for larger texts (currently using naive search).

Automatically convert to the next 'higher' data type whenever there is an overflow.

Throw an exception when the application calls getInt on a Long (optional).

Default date format for input and output (local date constants).
Support custom Collators.


File system that writes to two file systems (replication, replicating file system).

Standalone tool to get relevant system properties and add it to the trace output.

Support 'call proc(1=value)' (PostgreSQL, Oracle).

Console: improve editing data (Tab, Shift-Tab, Enter, Up, Down, Shift+Del?).

Console: autocomplete Ctrl+Space inserts template.

Option to encrypt .trace.db file.

Write Behind Cache on SATA leads to data corruption. See also http://sr5tech.com/write_back_cache_experiments.htm and http://www.jasonbrome.com/blog/archives/2004/04/03/writecache_enabled.html

Functions with unknown return or parameter data types: serialize / deserialize.

Auto-Update feature for database, .jar file.

ResultSet SimpleResultSet.readFromURL(String url): id varchar, state varchar, released timestamp.

Partial indexing (see PostgreSQL).

Add GUI to build a custom version (embedded, fulltext,...) using build flags.

Add a sample application that runs the H2 unit test and writes the result to a file (so it can be included in the user
Count on a column that can not be null could be optimized to COUNT(*).

Table order: ALTER TABLE TEST ORDER BY NAME DESC (MySQL compatibility).

Issue 159: System property for the H2 Console and TCP configuration (which .h2.server.properties and .h2.keystore to use).

Backup tool should work with other databases as well.

Console: -ifExists doesn't work for the console. Add a flag to disabling other dbs.

Check if 'FSUTIL behavior set disablelastaccess 1' improves the performance (fsutil behavior query disablelastaccess).

Java static code analysis: http://pmd.sourceforge.net/

Java static code analysis: http://www.eclipse.org/tptp/

Compatibility for CREATE SCHEMA AUTHORIZATION.

Implement Clob / Blob truncate and the remaining functionality.

Tree join functionality.

Add multiple columns at the same time with ALTER TABLE .. ADD .. ADD ...

Use JDK 1.4 file locking for the database file and for the lock file (but not yet by default); writing a system property to detect concurrent access from the same VM (different classloaders).

Pure SQL triggers (example: update parent table if the child table is changed).
Add H2 to Gem (Ruby install system).

@roadmap_1131_li
Order conditions inside AND / OR to optimize the performance.

@roadmap_1132_li
Support Oracle functions: TRUNC, NVL2, TO_CHAR, TO_DATE, TO_NUMBER.

@roadmap_1133_li
Support linked JCR tables

@roadmap_1134_li
Read InputStream when executing, as late as possible (maybe only embedded mode). Problem with re-execute.

@roadmap_1135_li
Native fulltext search: min word length; store word positions

@roadmap_1136_li
Add an option to the SCRIPT command to generate only portable / standard SQL

@roadmap_1137_li
Updatable Views (simple cases first)

@roadmap_1138_li
Improve create index performance

@roadmap_1139_li
Implement more JDBC 4.0 features

@roadmap_1140_li
Support TRANSFORM / PIVOT as in MS Access

@roadmap_1141_li
SELECT * FROM (VALUES (...), (...), ...) AS alias(f1, ...)

@roadmap_1142_li
Support updatable views with join on primary keys (to extend a table)

@roadmap_1143_li
Public interface for functions (not public static)

@roadmap_1144_li
Support reading the transaction log.

@roadmap_1145_li
Eliminate undo log records if stored on disk (just one pointer per block, not per record)

@roadmap_1146_li

@roadmap_1147_li
Updatable result set on table without primary key or unique index.

@roadmap_1148_li
Use LinkedList instead of ArrayList where applicable.

@roadmap_1149_li
Allow execution time prepare for SELECT * FROM CSVREAD(?, 'columnNameString')

@roadmap_1150_li
Support data type INTERVAL

@roadmap_1151_li
Support % operator (modulo).

@roadmap_1152_li

@roadmap_1153_li
Support nested transactions.

@roadmap_1154_li
Add a benchmark for big databases, and one for many users.

@roadmap_1155_li
Compression in the result set (repeating values in the same column) over TCP/IP.

@roadmap_1156_li
Support curtimestamp (like curtime, curdate).

@roadmap_1157_li
Support ANALYZE {TABLE|INDEX} tableName COMPUTE|ESTIMATE|DELETE STATISTICS ptnOption options.

@roadmap_1158_li
Release locks (shared or exclusive) on demand

@roadmap_1159_li
Support OUTER UNION

@roadmap_1160_li
Support parameterized views (similar to CSVREAD, but using just SQL for the definition)
@roadmap_1161_li
A way (JDBC driver) to map an URL (jdbc:h2:map:c1) to a connection object

@roadmap_1162_li
Option for SCRIPT to only process one or a set of tables, and append to a file

@roadmap_1163_li
Support linked tables to the current database

@roadmap_1164_li
Support dynamic linked schema (automatically adding/updating/removing tables)

@roadmap_1165_li
Clustering: adding a node should be very fast and without interrupting clients (very short lock)

@roadmap_1166_li
Compatibility with Derby: VALUES(1), (2); SELECT * FROM (VALUES (1), (2)) AS myTable(c1)

@roadmap_1167_li
Compatibility: # is the start of a single line comment (MySQL) but date quote (Access). Mode specific

@roadmap_1168_li
Run benchmarks with JDK 1.5, JDK 1.6, java -server

@roadmap_1169_li
Optimizations: faster hash function for strings, byte arrays

@roadmap_1170_li
DatabaseEventListener: callback for all operations (including expected time, RUNSCRIPT) and cancel functionality

@roadmap_1171_li
Benchmark: add a graph to show how databases scale (performance/database size)

@roadmap_1172_li
Implement a SQLData interface to map your data over to a custom object

@roadmap_1173_li
In the MySQL and PostgreSQL mode, use lower case identifiers by default
(DatabaseMetaData.storesLowerCaseIdentifiers = true)

@roadmap_1174_li
Support multiple directories (on different hard drives) for the same database

@roadmap_1175_li
Server protocol: use challenge response authentication, but client sends hash(user+password) encrypted with response
Support EXECUTE (doesn't return a result set, compatible to MS SQL Server)

Support native XML data type

Support triggers with a string property or option: SpringTrigger, OSGITrigger

Ability to resize the cache array when resizing the cache

Time based cache writing (one second after writing the log)

Check state of H2 driver for DDLUtils: https://issues.apache.org/jira/browse/DDLUTILS-185

Index usage for REGEXP LIKE.

Compatibility: add a role DBA (like ADMIN).

Better support multiple processors for in-memory databases.

Support N'text'

Support compatibility for jdbc:hsqldb:res:

Provide an Java SQL builder with standard and H2 syntax

Trace: write OS, file system, JVM,... when opening the database

Support indexes for views (probably requires materialized views)

Document SET SEARCH_PATH, BEGIN, EXECUTE, parameters

Browser: use Desktop.isDesktopSupported and browse when using JDK 1.6
@roadmap_1192_li
Server: use one listener (detect if the request comes from an PG or TCP client)

@roadmap_1193_li
Optimize SELECT MIN(ID), MAX(ID), COUNT(*) FROM TEST WHERE ID BETWEEN 100 AND 200

@roadmap_1194_li
Sequence: PostgreSQL compatibility (rename, create) http://www.postgresql.org/docs/8.2/static/sql-
altersequence.html

@roadmap_1195_li
DISTINCT: support large result sets by sorting on all columns (additionally) and then removing duplicates.

@roadmap_1196_li
Support a special trigger on all tables to allow building a transaction log reader.

@roadmap_1197_li
File system with a background writer thread; test if this is faster

@roadmap_1198_li
Better document the source code

@roadmap_1199_li
Support select * from dual a left join dual b on b.x=(select max(x) from dual)

@roadmap_1200_li
Optimization: don't lock when the database is read-only

@roadmap_1201_li
Issue 146: Support merge join.

@roadmap_1202_li
Integrate spatial functions from http://geosysin.iict.ch/irstv-trac/wiki/H2spatial/Download

@roadmap_1203_li
Cluster: hot deploy (adding a node at runtime)

@roadmap_1204_li
Compact databases without having to close the database (vacuum).

@roadmap_1205_li
Support COSH, SINH, and TANH functions

@roadmap_1206_li
Oracle: support DECODE method (convert to CASE WHEN).

@roadmap_1207_li
Native search: support "phrase search", wildcard search (* and ?), case-insensitive search, boolean operators, and grouping

@roadmap_1208_li
Improve documentation of access rights

@roadmap_1209_li
Support ENUM data type (see MySQL, PostgreSQL, MS SQL Server, maybe others)

@roadmap_1210_li
Remember the user defined data type (domain) of a column

@roadmap_1211_li
Support Jackcess (MS Access databases)

@roadmap_1212_li
Built-in methods to write large objects (BLOB and CLOB): FILE_WRITE('test.txt', 'Hello World')

@roadmap_1213_li
Improve time to open large databases (see mail 'init time for distributed setup')

@roadmap_1214_li
Move Maven 2 repository from hsql.sf.net to h2database.sf.net

@roadmap_1215_li
Java 1.5 tool: JdbcUtils.closeSilently(s1, s2,....)

@roadmap_1216_li
Javadoc: document design patterns used

@roadmap_1217_li
Write an article about SQLInjection (h2/src/docs/figs/html/images/SQLInjection.txt)

@roadmap_1218_li
Convert SQL-injection-2.txt to html document, include SQLInjection.java sample

@roadmap_1219_li
Support OUT parameters in user-defined procedures.

@roadmap_1220_li
Web site design: http://www.igniterealtime.org/projects/openfire/index.jsp

@roadmap_1221_li
HSQLDB compatibility: Openfire server uses: CREATE SCHEMA PUBLIC AUTHORIZATION DBA; CREATE USER SA PASSWORD ""; GRANT DBA TO SA; SET SCHEMA PUBLIC

@roadmap_1222_li
Translation: use ?? in help.csv
Translation .pdf

MySQL compatibility: update test1 t1, test2 t2 set t1.id = t2.id where t1.id = t2.id;

Recovery tool: bad blocks should be converted to INSERT INTO SYSTEM_ERRORS(...), and things should go into the .trace.db file.

RECOVER=2 to backup the database, run recovery, open the database.

Recovery should work with encrypted databases.

Corruption: new error code, add help.

Space reuse: after init, scan all storages and free those that don't belong to a live database object.

Use FilterIn / FilterOut putStream?

Access rights: add missing features (users should be 'owner' of objects; missing rights for sequences; dropping objects).

Support NOCACHE table option (Oracle).

Support table partitioning.

Index usage for UPDATE ... WHERE .. IN (SELECT...)

Add regular javadocs (using the default doclet, but another css) to the homepage.

The database should be kept open for a longer time when using the server mode.

Javadocs: for each tool, add a copy & paste sample in the class level.
Javadocs: add @author tags.

Fluent API for tools: Server.createTcpServer().setPort(9081).setPassword(password).start();

MySQL compatibility: real SQL statement for DESCRIBE TEST

Use a default delay of 1 second before closing a database.

Write (log) to system table before adding to internal data structures.

Support very large deletes and updates.

Doclet (javadocs): constructors are not listed.

Support direct lookup for MIN and MAX when using WHERE (see todo.txt / Direct Lookup).

Support other array types (String[], double[]) in PreparedStatement setObject(int, Object);

MVCC should not be memory bound (uncommitted data is kept in memory in the delta index; maybe using a regular b-tree index solves the problem).

Oracle compatibility: support NLS_DATE_FORMAT.

Cluster: add feature to make sure cluster nodes can not get out of sync (for example by stopping one process).

H2 Console: support CLOB/BLOB download using a link.

Support flashback queries as in Oracle.

Import / Export of fixed with text files.

Support getGeneratedKeys to return multiple rows when used with batch updates. This is supported by MySQL, but
not Derby. Both PostgreSQL and HSQLDB don't support getGeneratedKeys. Also support it when using INSERT ... SELECT.

@roadmap_1254_li
HSQLDB compatibility: automatic data type for SUM if value is the value is too big (by default use the same type as the data).

@roadmap_1255_li
Improve the optimizer to select the right index for special cases: where id between 2 and 4 and booleanColumn

@roadmap_1256_li
Linked tables: make hidden columns available (Oracle: rowid and ora_rowscn columns).

@roadmap_1257_li
H2 Console: in-place autocomplete.

@roadmap_1258_li
Support large databases: split database files to multiple directories / disks (similar to tablespaces).

@roadmap_1259_li
Support to assign a primary key index a user defined name.

@roadmap_1260_li
H2 Console: support configuration option for fixed width (monospace) font.

@roadmap_1261_li
Native fulltext search: support analyzers (specially for Chinese, Japanese).

@roadmap_1262_li
Automatically compact databases from time to time (as a background process).

@roadmap_1263_li
Support GRANT SELECT, UPDATE ON *.

@roadmap_1264_li
Test Eclipse DTP.

@roadmap_1265_li
H2 Console: autocomplete: keep the previous setting

@roadmap_1266_li
MySQL, MS SQL Server compatibility: support case sensitive (mixed case) identifiers without quotes.

@roadmap_1267_li
executeBatch: option to stop at the first failed statement.

@roadmap_1268_li
Implement OLAP features as described here: http://www.devx.com/getHelpOn/10MinuteSolution/16573/0/page/5
Support Oracle ROWID (unique identifier for each row).

Server mode: improve performance for batch updates.

Applets: support read-only databases in a zip file (accessed as a resource).

Long running queries / errors / trace system table.

H2 Console should support JaQu directly.

H2 Console: support single file upload and directory download (optional).

Document FTL_SEARCH, FTL_SEARCH_DATA.

Sequences: CURRVAL should be session specific. Compatibility with PostgreSQL.

Support DatabaseMetaData.insertsAreDetected: updatable result sets should detect inserts.

Auto-server: add option to define the IP address range or list.

Index creation using deterministic functions.

Support DELETE with TOP or LIMIT. See also: http://dev.mysql.com/doc/refman/5.1/de/delete.html

ANALYZE: for unique indexes that allow null, count the number of null.

AUTO_SERVER: support changing IP addresses (disable a network while the database is open).

Avoid using java.util.Calendar internally because it's slow, complicated, and buggy.

Support TRUNCATE .. CASCADE like PostgreSQL.
@roadmap_1285_li
Support opening a database that is in the classpath, maybe using a new file system.

@roadmap_1286_li
Fulltext search: lazy result generation using SimpleRowSource.

@roadmap_1287_li
Support transformation to join for user defined functions, as for IN(SELECT...).

@roadmap_1288_li
Fulltext search: support alternative syntax: WHERE FTL_CONTAINS(name, 'hello').

@roadmap_1289_li
MySQL compatibility: support REPLACE, see http://dev.mysql.com/doc/refman/5.1/de/replace.html

@roadmap_1290_li
MySQL compatibility: support INSERT INTO table SET column1 = value1, column2 = value2

@roadmap_1291_li
Docs: add a one line description for each functions and SQL statements at the top (in the link section).

@roadmap_1292_li
Javadoc search: weight for titles should be higher ('random' should list Functions as the best match).

@roadmap_1293_li
Replace information_schema tables with regular tables that are automatically re-built when needed. Use indexes.

@roadmap_1294_li
Delete temporary files or objects using finalize.

@roadmap_1295_li
Oracle compatibility: support calling 0-parameters functions without parenthesis. Make constants obsolete.

@roadmap_1296_li
MySQL, HSQLDB compatibility: support where 'a'=1 (not supported by Derby, PostgreSQL)

@roadmap_1297_li
Allow calling function with no parameters without parenthesis. See http://code.google.com/p/h2database/issues/detail?id=50

@roadmap_1298_li
CSV: currently # is a line comment and can start at any field. Make it optional.

@roadmap_1299_li
Finer granularity for SLF4J trace - See http://code.google.com/p/h2database/issues/detail?id=62

@roadmap_1300_li
Add database creation date and time to the database.

@roadmap_1301_li
Support ASSERTION.

@roadmap_1302_li
MVCC: support multi-threaded kernel with multi-version concurrency.

@roadmap_1303_li
MySQL compatibility: support comparing 1='a'

@roadmap_1304_li

@roadmap_1305_li
PostgreSQL compatibility: test DbVisualizer and Squirrel SQL using a new PostgreSQL JDBC driver.

@roadmap_1306_li
RunScript should be able to read from system in (or quite mode for Shell).

@roadmap_1307_li
Natural join: support select x from dual natural join dual.

@roadmap_1308_li
Natural join: somehow support this: select a.x, b.x, x from dual a natural join dual b

@roadmap_1309_li
Use the Java service provider mechanism to register file systems and function libraries.

@roadmap_1310_li
MySQL compatibility: for auto_increment columns, convert 0 to next value (as when inserting NULL).

@roadmap_1311_li
Optimization for multi-column IN: use an index if possible. Example: (A, B) IN((1, 2), (2, 3)).

@roadmap_1312_li
Optimization for EXISTS: convert to inner join or IN(.) if possible.

@roadmap_1313_li
Functions: support hashcode(value); cryptographic and fast

@roadmap_1314_li
Serialized file lock: support long running queries.

@roadmap_1315_li
Network: use 127.0.0.1 if other addresses don't work.

@roadmap_1316_li
Pluggable network protocol (currently Socket/ServerSocket over TCP/IP) - see also TransportServer with master slave replication.

@roadmap_1317_li
Select for update in mvcc mode: only lock the selected records.

@roadmap_1318_li
Support reading JCR data: one table per node type; query table; cache option

@roadmap_1319_li
OSGi: create a sample application, test, document.

@roadmap_1320_li
help.csv: use complete examples for functions; run as test case.

@roadmap_1321_li
Functions to calculate the memory and disk space usage of a table, a row, or a value.

@roadmap_1322_li
Re-implement PooledConnection; use a lightweight connection object.

@roadmap_1323_li
Doclet: convert tests in javadocs to a java class.

@roadmap_1324_li
Doclet: format fields like methods, but support sorting by name and value.

@roadmap_1325_li
Doclet: shrink the html files.

@roadmap_1326_li
MySQL compatibility: support REPLACE - See http://code.google.com/p/h2database/issues/detail?id=73

@roadmap_1327_li
MySQL compatibility: support SET NAMES 'latin1' - See also http://code.google.com/p/h2database/issues/detail?id=56

@roadmap_1328_li
MySQL compatibility: DELETE .. FROM .. USING - See http://dev.mysql.com/doc/refman/5.0/en/delete.html

@roadmap_1329_li
Allow to scan index backwards starting with a value (to better support ORDER BY DESC).

@roadmap_1330_li
Java Service Wrapper: try http://yajsw.sourceforge.net/

@roadmap_1331_li
Batch parameter for INSERT, UPDATE, and DELETE, and commit after each batch. See also MySQL DELETE.
MySQL compatibility: support ALTER TABLE .. MODIFY COLUMN.

Use a lazy and auto-close input stream (open resource when reading, close on eof).

PostgreSQL compatibility: generate_series.

Connection pool: 'reset session' command (delete temp tables, rollback, autocommit true).

Improve SQL documentation, see http://www.w3schools.com/sql/

MySQL compatibility: DatabaseMetaData.stores*() methods should return the same values. Test with SquirrelSQL.

MS SQL Server compatibility: support DATEPART syntax.

Sybase/DB2/Oracle compatibility: support out parameters in stored procedures - See http://code.google.com/p/h2database/issues/detail?id=83

Support INTERVAL data type (see Oracle and others).

Combine Server and Console tool (only keep Server).

Store the Lucene index in the database itself.

Support standard MERGE statement: http://en.wikipedia.org/wiki/Merge_%28SQL%29

Oracle compatibility: support DECODE(x, ...).

Console: Start Browser: if ip number changed, try localhost instead.

MVCC: compare concurrent update behavior with PostgreSQL and Oracle.
HSQldb compatibility: CREATE FUNCTION (maybe using a Function interface).

@roadmap_1348_li
HSQldb compatibility: support CALL "java.lang.Math.sqrt"(2.0)

@roadmap_1349_li
Support comma as the decimal separator in the CSV tool.

@roadmap_1350_li
Compatibility: Support jdbc:default:connection using ThreadLocal (part of SQLJ)

@roadmap_1351_li

@roadmap_1352_li
Compatibility: Java functions with SQL/PSM (Persistent Stored Modules) - need to find the documentation.

@roadmap_1353_li
CACHE_SIZE: automatically use a fraction of Runtime.maxMemory - maybe automatically the second level cache.

@roadmap_1354_li
Support date/time/timestamp as documented in http://en.wikipedia.org/wiki/ISO_8601

@roadmap_1355_li
PostgreSQL compatibility: when in PG mode, treat BYTEA data like PG.

@roadmap_1356_li

@roadmap_1357_li
Support =ANY(array) as in PostgreSQL. See also http://www.postgresql.org/docs/8.0/interactive/arrays.html

@roadmap_1358.li
IBM DB2 compatibility: support PREVIOUS VALUE FOR sequence.

@roadmap_1359_li
MySQL compatibility: alter table add index i(c), add constraint c foreign key(c) references t(c);

@roadmap_1360_li
Compatibility: use different LIKE ESCAPE characters depending on the mode (disable for Derby, HSQldb, DB2, Oracle, MSSQLServer).

@roadmap_1361_li
Oracle compatibility: support CREATE SYNONYM table FOR schema.table.

@roadmap_1362_li
Optimize A=? OR B=? to UNION if the cost is lower.
FTP: document the server, including -ftpTask option to execute / kill remote processes

FTP: problems with multithreading?

FTP: implement SFTP / FTPS

FTP: access to a database (.csv for a table, a directory for a schema, a file for a lob, a script.sql file).

More secure default configuration if remote access is enabled.

Improve database file locking (maybe use native file locking). The current approach seems to be problematic if the file system is on a remote share (see Google Group 'Lock file modification time is in the future').

Document internal features such as BELONGS_TO_TABLE, NULL_TO_DEFAULT, SEQUENCE.

Issue 107: Prefer using the ORDER BY index if LIMIT is used.

An index on (id, name) should be used for a query: select * from t where s=? order by i

Support reading sequences using DatabaseMetaData.getTables(null, null, null, new String[]{"SEQUENCE"}). See PostgreSQL.

Add option to enable TCP_NODELAY using Socket.setTcpNoDelay(true).

Maybe disallow = within database names (jdbc:h2:mem:MODE=DB2 means database name MODE=DB2).

Fast alter table add column.

Improve concurrency for in-memory database operations.

Issue 122: Support for connection aliases for remote tcp connections.
Fast scrambling (strong encryption doesn't help if the password is included in the application).

@roadmap_1379_li
Support using system properties in database URLs (may be a security problem).

@roadmap_1380_li
Issue 126: The index name should be "IDX_" plus the constraint name unless there is a conflict, in which case append a number.

@roadmap_1381_li
Issue 127: Support activation/deactivation of triggers

@roadmap_1382_li
Issue 130: Custom log event listeners

@roadmap_1383_li
Issue 131: IBM DB2 compatibility: sysibm.sysdummy1

@roadmap_1384_li
Issue 132: Use Java enum trigger type.

@roadmap_1385_li
Issue 134: IBM DB2 compatibility: session global variables.

@roadmap_1386_li
Cluster: support load balance with values for each server / auto detect.

@roadmap_1387_li
FTL_SET_OPTION(keyString, valueString) with key stopWords at first.

@roadmap_1388_li
Pluggable access control mechanism.

@roadmap_1389_li
Fulltext search (Lucene): support streaming CLOB data.

@roadmap_1390_li
Document/example how to create and read an encrypted script file.

@roadmap_1391_li
Check state of https://issues.apache.org/jira/browse/OPENJPA-1367 (H2 does support cross joins).

@roadmap_1392_li
Fulltext search (Lucene): only prefix column names with _ if they already start with _. Instead of DATA / QUERY / modified use _DATA, _QUERY, _MODIFIED if possible.

@roadmap_1393_li
Support a way to create or read compressed encrypted script files using an API.
Scripting language support (Javascript).

The network client should better detect if the server is not an H2 server and fail early.

H2 Console: support CLOB/BLOB upload.

Move away from system properties where possible.

Database file lock: detect hibernate / standby / very slow threads (compare system time).

Automatic detection of redundant indexes.

Maybe reject join without "on" (except natural join).

Implement GiST (Generalized Search Tree for Secondary Storage).

Function to read a number of bytes/characters from an BLOB or CLOB.

Issue 156: Support SELECT ? UNION SELECT ?.

Automatic mixed mode: support a port range list (to avoid firewall problems).

Support the pseudo column rowid, oid, _rowid_.

H2 Console / large result sets: stream early instead of keeping a whole result in-memory

Support TRUNCATE for linked tables.

UNION: evaluate INTERSECT before UNION (like most other database except Oracle).

Delay creating the information schema, and share metadata columns.
TCP Server: use a nonce (number used once) to protect unencrypted channels against replay attacks.

Simplify running scripts and recovery: CREATE FORCE USER (overwrites an existing user).

Support CREATE DATABASE LINK (a custom JDBC driver is already supported).

Issue 163: Allow to create foreign keys on metadata types.

Logback: write a native DBAppender.

Cache size: don't use more cache than what is available.

Tree index: Instead of an AVL tree, use a general balanced trees or a scapegoat tree.

User defined functions: allow to store the bytecode (of just the class, or the jar file of the extension) in the database.

Compatibility: ResultSet.getObject() on a CLOB (TEXT) should return String for PostgreSQL and MySQL.

Optimizer: WHERE X=? AND Y IN(?), it always uses the index on Y. Should be cost based.

Make the cache scan resistant (currently a small cache is faster than a large cache for large table scans).

Issue 178: Optimizer: index usage when both ascending and descending indexes are available.

Issue 179: Related subqueries in HAVING clause

IBM DB2 compatibility: NOT NULL WITH DEFAULT. Similar to MySQL Mode.convertInsertNullToZero.

Creating primary key: always create a constraint.

Support a data type "timestamp with timezone" using java.util.Calendar.
Maybe use a different page layout: keep the data at the head of the page, and ignore the tail (don't store / read it). This may increase write / read performance depending on the file system.

Indexes of temporary tables are currently kept in-memory. Is this how it should be?

The Shell tool should support the same built-in commands as the H2 Console.

Maybe use PhantomReference instead of finalize.

Database file name suffix: a way to use no or a different suffix (for example using a slash).

Database file name suffix: should only have one dot by default. Example: .h2db

Issue 196: Function based indexes

Fix the disk space leak (killing the process at the exact right moment will increase the disk space usage; this space is not re-used). See TestDiskSpaceLeak.java

ROWNUM: Oracle compatibility when used within a subquery. Issue 198.

Allow to access the database over HTTP (possibly using port 80) and a servlet in a REST way.

ODBC: encrypted databases are not supported because the ;CIPHER= can not be set.

Support CLOB and BLOB update, specially conn.createBlob().setBinaryStream(1);

Optimizer: index usage when both ascending and descending indexes are available. Issue 178.

Triggers: support user defined execution order. Oracle: CREATE OR REPLACE TRIGGER TEST_2 BEFORE INSERT ON TEST FOR EACH ROW Follows TEST_1. SQL specifies that multiple triggers should be fired in time-of-creation order. PostgreSQL uses name order, which was judged to be more convenient. Derby: triggers are fired in the order in which they were created.
PostgreSQL compatibility: combine "users" and "roles". See: http://www.postgresql.org/docs/8.1/interactive/user-manag.html

Improve documentation of system properties: only list the property names, default values, and description.

Support running totals / cumulative sum using SUM(,) OVER(,).

Improve object memory size calculation. Use constants for known VMs, or use reflection to call java.lang.instrument.Instrumentation.getObjectSize(Object objectToSize)

Triggers: NOT NULL checks should be done after running triggers (Oracle behavior, maybe others).

Log long running transactions (similar to long running statements).

Support schema specific domains.

Parameter data type is data type of other operand. Issue 205.

Some combinations of nested join with right outer join are not supported.

DatabaseEventListener.openConnection(id) and closeConnection(id).

Compatibility for data type CHAR (Derby, HSQLDB). Issue 212.

Compatibility with MySQL TIMESTAMPDIFF. Issue 209.

Optimizer: use a histogram of the data, specially for non-normal distributions.

Trigger: allow declaring as source code (like functions).

User defined aggregate: allow declaring as source code (like functions).
The error "table not found" is sometimes caused by using the wrong database. Add "(this database is empty)" to the exception message if applicable.

@roadmap_1456_li
PostgreSQL compatibility: support escape with double \\.

@roadmap_1457_li
Document the TCP server "management_db". Maybe include the IP address of the client.

@roadmap_1458_li
Use javax.tools.JavaCompilerTool instead of com.sun.tools.javac.Main

@roadmap_1459_h2
Not Planned

@roadmap_1460_li
HSQLDB (did) support this: select id i from test where i<0 (other databases don't). Supporting it may break compatibility.

@roadmap_1461_li
String.intern (so that Strings can be compared with ==) will not be used because some VMs have problems when used extensively.

@roadmap_1462_li
In prepared statements, identifier names (table names and so on) can not be parameterized. Adding such a feature would complicate the source code without providing reasonable speedup, and would slow down regular prepared statements.

@sourceError_1000_h1
Error Analyzer

@sourceError_1001_a
Home

@sourceError_1002_a
Input

@sourceError_1003_h2
Paste the error message and stack trace below and click on 'Details' or 'Source Code':

@sourceError_1004_p
Error Code:
Using EclipseLink

@tutorial_1010_a
Using Apache ActiveMQ

@tutorial_1011_a
Using H2 within NetBeans

@tutorial_1012_a
Using Databases in Web Applications

@tutorial_1013_a
CSV (Comma Separated Values) Support

@tutorial_1014_a
Upgrade, Backup, and Restore

@tutorial_1015_a
Command Line Tools

@tutorial_1016_a
The Shell Tool

@tutorial_1017_a
Using OpenOffice Base

@tutorial_1018_a
Java Web Start / JNLP

@tutorial_1019_a
Using a Connection Pool

@tutorial_1020_a
Fulltext Search

@tutorial_1021_a
User-Defined Variables

@tutorial_1022_a
Date and Time

@tutorial_1023_a
Using Spring

@tutorial_1024_h2
Starting and Using the H2 Console

@tutorial_1025_p
The H2 Console application lets you access a SQL database using a browser interface. This can be a H2 database, or another database that supports the JDBC API.

This is a client / server application, so both a server and a client (a browser) are required to run it.

Depending on your platform and environment, there are multiple ways to start the application:

OS

Start

Windows

Click [Start], [All Programs], [H2], and [H2 Console (Command Line)]

When using the Sun JDK 1.5, a window with the title 'H2 Console ' should appear. When using the Sun JDK 1.6, an icon will be added to the system tray:

If you don't get the window and the system tray icon, then maybe Java is not installed correctly (in this case, try another way to start the application). A browser window should open and point to the Login page at

Windows

Open a file browser, navigate to <code>h2/bin</code>, and double click on <code>h2.bat</code>.

A console window appears. If there is a problem, you will see an error message in this window. A browser window will open and point to the Login page (URL: <code>http://localhost:8082</code>).

Any

Double click on the <code>h2*.jar</code> file. This only works if the <code>jar</code> suffix is associated with java.
Open a console window, navigate to the directory `<code>h2/bin</code>` and type:

```
Firewall
```

If you start the server, you may get a security warning from the firewall (if you have installed one). If you don't want other computers in the network to access the application on your machine, you can let the firewall block those connections. The connection from the local machine will still work. Only if you want other computers to access the database on this computer, you need allow remote connections in the firewall.

It has been reported that when using Kaspersky 7.0 with firewall, the H2 Console is very slow when connecting over the IP address. A workaround is to connect using localhost, however this only works on the local machine.

A small firewall is already built into the server: other computers may not connect to the server by default. To change this, go to 'Preferences' and select 'Allow connections from other computers'.

To find out which version of Java is installed, open a command prompt and type:

```
Testing Java
```

If you get an error message, you may need to add the Java binary directory to the path environment variable.

You can only start one instance of the H2 Console, otherwise you will get the following error message: "The Web server could not be started. Possible cause: another server is already running...". It is possible to start multiple console applications on the same computer (using different ports), but this is usually not required as the console supports multiple concurrent connections.

If the port is in use by another application, you may want to start the H2 Console on a different port. This can be done by changing the port in the file `<code>.h2.server.properties</code>`. This file is stored in the user directory (for Windows, this is usually in `<code>Documents and Settings/&lt;username&gt;</code>`). The relevant entry is `webPort`. 

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_Sources_:

This text is based on the tutorial from Merck Connected Pharma. The original tutorial can be found at [https://www.merck.com/sustainability/connectedpharma/index.html](https://www.merck.com/sustainability/connectedpharma/index.html).
Connecting to the Server using a Browser

If the server started successfully, you can connect to it using a web browser. JavaScript needs to be enabled. If you started the server on the same computer as the browser, open the URL `<code>http://localhost:8082</code>`. If you want to connect to the application from another computer, you need to provide the IP address of the server, for example: `<code>http://192.168.0.2:8082</code>`. If you enabled SSL on the server side, the URL needs to start with `<code>https://</code>`.

Multiple Concurrent Sessions

Multiple concurrent browser sessions are supported. As that the database objects reside on the server, the amount of concurrent work is limited by the memory available to the server application.

Login

At the login page, you need to provide connection information to connect to a database. Set the JDBC driver class of your database, the JDBC URL, user name and password. If you are done, click [Connect].

You can save and reuse previously saved settings. The settings are stored in a properties file (see <a href="#console_settings">Settings of the H2 Console</a>).

Error Messages

Error messages in are shown in red. You can show/hide the stack trace of the exception by clicking on the message.

Adding Database Drivers

Additional database drivers to connect to other databases (MySQL, PostgreSQL, HSQLDB,...) can be registered by adding the Jar file location of the driver to the environment variables `<code>H2DRIVERS</code>` or `<code>CLASSPATH</code>`. Example (Windows): to add the database driver library `<code>C:\Programs\hsqldb\lib\hsqldb.jar</code>`, set the environment variable `<code>H2DRIVERS</code>` to `<code>C:\Programs\hsqldb\lib\hsqldb.jar</code>`.

Multiple drivers can be set; each entry needs to be separated with a `<code>;</code>` (Windows) or `<code>:</code>` (other operating systems). Spaces in the path names are supported. The settings must not be quoted.
Using the H2 Console

The H2 Console application has three main panels: the toolbar on top, the tree on the left, and the query / result panel on the right. The database objects (for example, tables) are listed on the left panel. Type in a SQL command on the query panel and click 'Run'. The result of the command appears just below the command.

Inserting Table Names or Column Names

The table name and column names can be inserted in the script by clicking them in the tree. If you click on a table while the query is empty, then `<code>SELECT * FROM ...</code>` is added as well. While typing a query, the table that was used is automatically expanded in the tree. For example if you type `<code>SELECT * FROM TEST T</code>` then the table TEST is automatically expanded in the tree.

Disconnecting and Stopping the Application

To log out of the database, click 'Disconnect' in the toolbar panel. However, the server is still running and ready to accept new sessions.

To stop the server, right click on the system tray icon and select [Exit]. If you don't have the system tray icon, navigate to [Preferences] and click [Shutdown], press [Ctrl]+[C] in the console where the server was started (Windows), or close the console window.

Special H2 Console Syntax

The H2 Console supports a few built-in commands. Those are interpreted within the H2 Console, that means they work with any database. They need to be at the beginning of a statement (before any remarks), otherwise they are not parsed correctly. If in doubt, add ';' before the command.

Command(s)

<table>
<thead>
<tr>
<th>Command(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@autocommit_true;</td>
<td></td>
</tr>
</tbody>
</table>
Enable or disable autocommit.

Cancel the currently running statement.

Call the corresponding DatabaseMetaData.get method. Patterns are case sensitive (usually identifiers are uppercase). For information about the parameters, see the Javadoc documentation. Missing parameters at the end are set to null. The complete list of commands is: `<code>` attributes @best_row_identifier @catalogs @columns @column_privileges @cross_references @exported_keys @imported_keys @index_info @primary_keys @procedures @procedure_columns @schemas @super_tables @super_types @tables @table_privileges @table_types @type_info @udts @version_columns `</code>`

Use an updatable result set.

Show the result of `<code>`Statement.getGeneratedKeys()`</code>`.

Show the command history.
Display the result of various `<code>Connection</code>` and `<code>DatabaseMetaData</code>` methods.

Show the result set in list format (each column on its own line, with row numbers).

Run the statement this many times. Parameters (``<code>?</code>``) are set using a loop from 0 up to x - 1. Random values are used for each `<code>?/*rnd*/</code>`. A Statement object is used instead of a PreparedStatement if `<code>@statement</code>` is used. Result sets are read until `<code>ResultSet.next()</code>` returns `false`. Timing information is printed.

Set the maximum number of rows to display.

Show the used and free memory. This will call `<code>System.gc()</code>`.

List the `<code>ResultSetMetaData</code>` after running the query.

Show the result of the `<code>PreparedStatement.getParameterMetaData()</code>` calls. The statement is not
executed.

@tutorial_1106_td
@prof_start;

@tutorial_1107_td
call&nbsp;hash('SHA256',&nbsp;"",&nbsp;1000000);

@tutorial_1108_td
@prof_stop;

@tutorial_1109_td
Start / stop the built-in profiling tool. The top 3 stack traces of the statement(s) between start and stop are listed (if there are 3).

@tutorial_1110_td
@prof_stop;

@tutorial_1111_td
@sleep 10;

@tutorial_1112_td
@prof_stop;

@tutorial_1113_td
Sleep for a number of seconds. Used to profile a long running query or operation that is running in another session (but in the same process).

@tutorial_1114_td
@transaction_isolation;

@tutorial_1115_td
@transaction_isolation&nbsp;2;

@tutorial_1116_td
Display (without parameters) or change (with parameters 1, 2, 4, 8) the transaction isolation level.

@tutorial_1117_h2
Settings of the H2 Console

@tutorial_1118_p
The settings of the H2 Console are stored in a configuration file called &lt;code&gt;.h2.server.properties&lt;/code&gt; in you user home directory. For Windows installations, the user home directory is usually &lt;code&gt;C:\Documents and Settings\[username]&lt;/code&gt;. The configuration file contains the settings of the application and is automatically created when the H2 Console is first started.

@tutorial_1119_h2
Connecting to a Database using JDBC
To connect to a database, a Java application first needs to load the database driver, and then get a connection. A simple way to do that is using the following code:

This code first loads the driver (Class.forName(...) and then opens a connection (using DriverManager.getConnection()). The driver name is "org.h2.Driver". The database URL always needs to start with jdbc:h2: to be recognized by this database. The second parameter in the getConnection() call is the user name (sa for System Administrator in this example). The third parameter is the password. In this database, user names are not case sensitive, but passwords are.

Creating New Databases

By default, if the database specified in the URL does not yet exist, a new (empty) database is created automatically. The user that created the database automatically becomes the administrator of this database.

Auto-creating new database can be disabled, see Opening a Database Only if it Already Exists.

Using the Server

H2 currently supports three server: a web server (for the H2 Console), a TCP server (for client/server connections) and an PG server (for PostgreSQL clients). Please note that only the web server supports browser connections. The servers can be started in different ways, one is using the Server tool.

Starting the Server Tool from Command Line

To start the Server tool from the command line with the default settings, run:

This will start the tool with the default options. To get the list of options and default values, run:

There are options available to use other ports, and start or not start parts.

Connecting to the TCP Server
To remotely connect to a database using the TCP server, use the following driver and database URL:

```java
@tutorial_1133_li
JDBC driver class: <code>org.h2.Driver</code>
```

```java
@tutorial_1134_li
Database URL: <code>jdbc:h2:tcp://localhost/~/test</code>
```

For details about the database URL, see also in Features. Please note that you can't connect with a web browser to this URL. You can only connect using a H2 client (over JDBC).

Starting the TCP Server within an Application

Servers can also be started and stopped from within an application. Sample code:

Stopping a TCP Server from Another Process

The TCP server can be stopped from another process. To stop the server from the command line, run:

To stop the server from a user application, use the following code:

This function will only stop the TCP server. If other server were started in the same process, they will continue to run. To avoid recovery when the databases are opened the next time, all connections to the databases should be closed before calling this method. To stop a remote server, remote connections must be enabled on the server. Shutting down a TCP server can be protected using the option <code>-tcpPassword</code> (the same password must be used to start and stop the TCP server).

Using Hibernate

This database supports Hibernate version 3.1 and newer. You can use the HSQLDB Dialect, or the native H2 Dialect. Unfortunately the H2 Dialect included in some versions of Hibernate is buggy. A <a href="http://opensource.atlassian.com/projects/hibernate/browse/HHH-3401">patch for Hibernate</a> has been submitted and is now applied. The dialect for the newest version of Hibernate is also available at <code>src/tools/legacy/hibernate/dialect/H2Dialect.java</code>. You can rename it to <code>H2Dialect.java</code> and include this as a patch in your application, or upgrade to a version of Hibernate where this is fixed.

When using compatibility modes such as <code>MODE=MySQL</code> when using Hibernate is not supported
when using `<code>H2Dialect</code>`.

@tutorial_1145_h2
Using TopLink and Glassfish

@tutorial_1146_p
To use H2 with Glassfish (or Sun AS), set the Datasource Classname to `<code>org.h2.jdbc.JdbcDataSource</code>`. You can set this in the GUI at Application Server - Resources - JDBC - Connection Pools, or by editing the file `<code>sun-resources.xml</code>`: at element `<code>jdbc-connection-pool</code>`, set the attribute `<code>datasource-classname</code>` to `<code>org.h2.jdbc.JdbcDataSource</code>`.

@tutorial_1147_p
The H2 database is compatible with HSQLDB and PostgreSQL. To take advantage of H2 specific features, use the `<code>H2Platform</code>`. The source code of this platform is included in H2 at `<code>src/tools/oracle/toplink/essentials/platform/database/DatabasePlatform.java.txt</code>`. You will need to copy this file to your application, and rename it to .java. To enable it, change the following setting in persistence.xml:

@tutorial_1148_p
In old versions of Glassfish, the property name is `<code>toplink.platform.class.name</code>`.

@tutorial_1149_p
To use H2 within Glassfish, copy the h2*.jar to the directory `<code>glassfish/glassfish/lib</code>`.

@tutorial_1150_h2
Using EclipseLink

@tutorial_1151_p
To use H2 in EclipseLink, use the platform class `<code>org.eclipse.persistence.platform.database.H2Platform</code>`. If this platform is not available in your version of EclipseLink, you can use the OraclePlatform instead in many case. See also <a href="http://wiki.eclipse.org/EclipseLink/Development/Incubator/Extensions/H2Platform">H2Platform</a>.

@tutorial_1152_h2
Using Apache ActiveMQ

@tutorial_1153_p
When using H2 as the backend database for Apache ActiveMQ, please use the `<code>TransactDatabaseLocker</code>` instead of the default locking mechanism. Otherwise the database file will grow without bounds. The problem is that the default locking mechanism uses an uncommitted `<code>UPDATE</code>` transaction, which keeps the transaction log from shrinking (causes the database file to grow). Instead of using an `<code>UPDATE</code>` statement, the `<code>TransactDatabaseLocker</code>` uses `<code>SELECT ... FOR UPDATE</code>` which is not problematic. To use it, change the ApacheMQ configuration element `<code>&lt;jdbcPersistenceAdapter&gt;&lt;/jdbcPersistenceAdapter&gt;</code>` element, property `<code>databaseLocker</code>` to `<code>org.apache.activemq.store.jdbc.adapter.TransactDatabaseLocker</code>`. However, using the MVCC mode will again result in the same problem. Therefore, please do not use the MVCC mode in this case. Another (more dangerous) solution is to set `<code>useDatabaseLock</code>` to false.
Using H2 within NetBeans

The project H2 Database Engine Support For NetBeans allows you to start and stop the H2 server from within the IDE.

There are multiple ways to access a database from within web applications. Here are some examples if you use Tomcat or JBoss.

**Embedded Mode**

The (currently) simplest solution is to use the database in the embedded mode, that means open a connection in your application when it starts (a good solution is using a Servlet Listener, see below), or when a session starts. A database can be accessed from multiple sessions and applications at the same time, as long as they run in the same process. Most Servlet Containers (for example Tomcat) are just using one process, so this is not a problem (unless you run Tomcat in clustered mode). Tomcat uses multiple threads and multiple classloaders. If multiple applications access the same database at the same time, you need to put the database jar in the shared/lib or server/lib directory. It is a good idea to open the database when the web application starts, and close it when the web application stops. If using multiple applications, only one (any) of them needs to do that. In the application, an idea is to use one connection per Session, or even one connection per request (action). Those connections should be closed after use if possible (but it's not that bad if they don't get closed).

**Server Mode**

The server mode is similar, but it allows you to run the server in another process.

**Using a Servlet Listener to Start and Stop a Database**

Add the h2*.jar file to your web application, and add the following snippet to your web.xml file (between the context-param and the filter section):

For details on how to access the database, see the file DbStarter.java. By default this tool opens an embedded connection using the database URL jdbc:h2:~/test, user name sa, and password sa. If you want to use this connection within your servlet, you can access as follows:
DbStarter

can also start the TCP server, however this is disabled by default. To enable it, use the parameter 
<code>db.tcpServer</code> in the file <code>web.xml</code>. Here is the complete list of options. These options 
need to be placed between the <code>description</code> tag and the <code>listener</code> / <code>filter</code> tags:

When the web application is stopped, the database connection will be closed automatically. If the TCP server is 
started within the <code>DbStarter</code>, it will also be stopped automatically.

Using the H2 Console Servlet

The H2 Console is a standalone application and includes its own web server, but it can be used as a servlet as well. 
To do that, include the the <code>h2*.jar</code> file in your application, and add the following configuration to 
your <code>web.xml</code>:

For details, see also <code>src/tools/WEB-INF/web.xml</code>.

To create a web application with just the H2 Console, run the following command:

CSV (Comma Separated Values) Support

The CSV file support can be used inside the database using the functions <code>CSVREAD</code> and 
<code>CSVWRITE</code>, or it can be used outside the database as a standalone tool.

Reading a CSV File from Within a Database

A CSV file can be read using the function <code>CSVREAD</code>. Example:

Importing Data from a CSV File

A fast way to load or import data (sometimes called 'bulk load') from a CSV file is to combine table creation with 
import. Optionally, the column names and data types can be set when creating the table. Another option is to use 
<code>INSERT INTO ... SELECT</code>.
Writing a CSV File from Within a Database

The built-in function `<code>CSVWRITE</code>` can be used to create a CSV file from a query. Example:

Writing a CSV File from a Java Application

The `<code>Csv</code>` tool can be used in a Java application even when not using a database at all. Example:

Reading a CSV File from a Java Application

It is possible to read a CSV file without opening a database. Example:

Upgrade, Backup, and Restore

The recommended way to upgrade from one version of the database engine to the next version is to create a backup of the database (in the form of a SQL script) using the old engine, and then execute the SQL script using the new engine.

Backup using the Script Tool

There are different ways to backup a database. For example, it is possible to copy the database files. However, this is not recommended while the database is in use. Also, the database files are not human readable and quite large. The recommended way to backup a database is to create a compressed SQL script file. This can be done using the `<code>Script</code>` tool:

It is also possible to use the SQL command `<code>SCRIPT</code>` to create the backup of the database. For more information about the options, see the SQL command `<code>SCRIPT</code>`. The backup can be done remotely, however the file will be created on the server side. The built-in FTP server could be used to retrieve the file from the server.

Restore from a Script
To restore a database from a SQL script file, you can use the `<code>RunScript</code>` tool:

For more information about the options, see the SQL command `<code>RUNSCRIPT</code>`. The restore can be done remotely, however the file needs to be on the server side. The built in FTP server could be used to copy the file to the server. It is also possible to use the SQL command `<code>RUNSCRIPT</code>` to execute a SQL script. SQL script files may contain references to other script files, in the form of `<code>RUNSCRIPT</code>` commands. However, when using the server mode, the references script files need to be available on the server side.

The `<code>BACKUP</code>` SQL statement and the `<code>Backup</code>` tool both create a zip file with all database files. However, the contents of this file are not human readable.

Unlike than the SCRIPT statement, the `<code>BACKUP</code>` statement does not lock the database objects when using the multi-threaded mode, and therefore does not block other users. The resulting backup is transactionally consistent:

The `<code>Backup</code>` tool (<code>org.h2.tools.Backup</code>) can not be used to create a online backup; the database must not be in use while running this program.

Creating a backup by copying the database files while the database is running is not supported, except if the file systems support creating snapshots. The problem is that it can't be guaranteed that the data is copied in the right order.

This database comes with a number of command line tools. To get more information about a tool, start it with the parameter `-?`, for example:

The command line tools are:

`Backup` creates a backup of a database.
allows changing the file encryption password or algorithm of a database.

starts the browser based H2 Console.

converts a .trace.db file to a Java application and SQL script.

creates a cluster from a standalone database.

deletes all files belonging to a database.

helps recovering a corrupted database.

restores a backup of a database.

runs a SQL script against a database.
allows converting a database to a SQL script for backup or migration.

Server

is used in the server mode to start a H2 server.

Shell

is a command line database tool.

The tools can also be called from an application by calling the main or another public method. For details, see the Javadoc documentation.

The Shell tool is a simple interactive command line tool. To start it, type:

You will be asked for a database URL, JDBC driver, user name, and password. The connection setting can also be set as command line parameters. After connecting, you will get the list of options. The built-in commands don't need to end with a semicolon, but SQL statements are only executed if the line ends with a semicolon <code>;</code>. This allows to enter multi-line statements:

By default, results are printed as a table. For results with many column, consider using the list mode:

Using OpenOffice Base

OpenOffice.org Base supports database access over the JDBC API. To connect to a H2 database using OpenOffice Base, you first need to add the JDBC driver to OpenOffice. The steps to connect to a H2 database are:

Start OpenOffice Writer, go to [Tools], [Options]

Make sure you have selected a Java runtime environment in OpenOffice.org / Java
Click [Class Path...], [Add Archive...]

Select your h2 jar file (location is up to you, could be wherever you choose)

Click [OK] (as much as needed), stop OpenOffice (including the Quickstarter)

Start OpenOffice Base

Connect to an existing database; select [JDBC]; [Next]

Example datasource URL: `<code>jdbc:h2:~/test</code>`

JDBC driver class: `<code>org.h2.Driver</code>`

Now you can access the database stored in the current users home directory.

To use H2 in NeoOffice (OpenOffice without X11):

In NeoOffice, go to [NeoOffice], [Preferences]

Look for the page under [NeoOffice], [Java]

Click [Class Path], [Add Archive...]

Select your h2 jar file (location is up to you, could be wherever you choose)

Click [OK] (as much as needed), restart NeoOffice.

Now, when creating a new database using the "Database Wizard" :

Click [File], [New], [Database].
Select [Connect to existing database] and the select [JDBC]. Click next.

Example datasource URL: `<code>jdbc:h2:~/test</code>`

JDBC driver class: `<code>org.h2.Driver</code>`

Another solution to use H2 in NeoOffice is:

Package the h2 jar within an extension package

Install it as a Java extension in NeoOffice

This can be done by create it using the NetBeans OpenOffice plugin. See also [Extensions Development](http://wiki.services.openoffice.org/wiki/Extensions_development_java).

When using Java Web Start / JNLP (Java Network Launch Protocol), permissions tags must be set in the .jnlp file, and the application .jar file must be signed. Otherwise, when trying to write to the file system, the following exception will occur: `<code>java.security.AccessControlException</code>: access denied (<code>java.io.FilePermission ... read</code>). Example permission tags:

Using a Connection Pool

For H2, opening a connection is fast if the database is already open. Still, using a connection pool improves performance if you open and close connections a lot. A simple connection pool is included in H2. It is based on the [Mini Connection Pool Manager](http://www.source-code.biz/snippets/java/8.htm) from Christian d'Heureuse. There are other, more complex, open source connection pools available, for example the [Apache Commons DBCP](http://jakarta.apache.org/commons/dbcp/). For H2, it is about twice as faster to get a connection from the built-in connection pool than to get one using `<code>DriverManager.getConnection()</code>.

The build-in connection pool is used as follows:

Fulltext Search

H2 includes two fulltext search implementations. One is using Apache Lucene, and the other (the native
implementation) stores the index data in special tables in the database.

@tutorial_1263_h3
Using the Native Fulltext Search

@tutorial_1264_p
To initialize, call:

@tutorial_1265_p
You need to initialize it in each database where you want to use it. Afterwards, you can create a fulltext index for a table using:

@tutorial_1266_p
PUBLIC is the schema name, TEST is the table name. The list of column names (column separated) is optional, in this case all columns are indexed. The index is updated in realtime. To search the index, use the following query:

@tutorial_1267_p
This will produce a result set that contains the query needed to retrieve the data:

@tutorial_1268_p
To get the raw data, use <code>FT_SEARCH_DATA('Hello', 0, 0);</code>. The result contains the columns <code>SCHEMA</code> (the schema name), <code>TABLE</code> (the table name), <code>COLUMNS</code> (an array of column names), and <code>KEYS</code> (an array of objects). To join a table, use a join as in:
<code>SELECT T.* FROM FT_SEARCH_DATA('Hello', 0, 0) FT, TEST T WHERE FT.TABLE='TEST' AND T.ID=FT.KEYS[0];</code>

@tutorial_1269_p
You can also call the index from within a Java application:

@tutorial_1270_h3
Using the Lucene Fulltext Search

@tutorial_1271_p
To use the Lucene full text search, you need the Lucene library in the classpath. How to do that depends on the application; if you use the H2 Console, you can add the Lucene jar file to the environment variables <code>H2DRIVERS</code> or <code>CLASSPATH</code>. To initialize the Lucene fulltext search in a database, call:

@tutorial_1272_p
You need to initialize it in each database where you want to use it. Afterwards, you can create a full text index for a table using:

@tutorial_1273_p
PUBLIC is the schema name, TEST is the table name. The list of column names (column separated) is optional, in this case all columns are indexed. The index is updated in realtime. To search the index, use the following query:

@tutorial_1274_p
This will produce a result set that contains the query needed to retrieve the data:
To get the raw data, use `FTL_SEARCH_DATA('Hello', 0, 0);`. The result contains the columns `<code>SCHEMA</code>` (the schema name), `<code>TABLE</code>` (the table name), `<code>COLUMNS</code>` (an array of column names), and `<code>KEYS</code>` (an array of objects). To join a table, use a join as in:

```sql
SELECT T.* FROM FTL_SEARCH_DATA('Hello', 0, 0) FT, TEST T WHERE FT.TABLE='TEST' AND T.ID=FT.KEYS[0];
```

You can also call the index from within a Java application:

```java
User-Defined Variables
```

This database supports user-defined variables. Variables start with `<code>@</code>` and can be used wherever expressions or parameters are allowed. Variables are not persisted and session scoped, that means only visible from within the session in which they are defined. A value is usually assigned using the `SET` command:

```sql
The value can also be changed using the `SET()` method. This is useful in queries:
```

Variables that are not set evaluate to `NULL`. The data type of a user-defined variable is the data type of the value assigned to it, that means it is not necessary (or possible) to declare variable names before using them. There are no restrictions on the assigned values; large objects (LOBs) are supported as well.

```java
Date and Time
```

Date, time and timestamp values support ISO 8601 formatting, including time zone:

```sql
If the time zone is not set, the value is parsed using the current time zone setting of the system. Date and time information is stored in H2 database files in GMT (Greenwich Mean Time). If the database is opened using another system time zone, the date and time will change accordingly. If you want to move a database from one time zone to the other and don't want this to happen, you need to create a SQL script file using the `SCRIPT` command or `Script` tool, and then load the database using the `RUNSCRIPT` command or the `RunScript` tool in the new time zone.
```

```java
Using Spring
```

Use the following configuration to start and stop the H2 TCP server using the Spring Framework:
The `<code>destroy-method</code>` will help prevent exceptions on hot-redeployment or when restarting the server.

Found in path(s):
* /opt/cola/permits/1362377181_1657710873.5984848/0/h2-1-2-140-wso2v3-source-tar-gz/h2-1.2.140-wso2v3/repo/h2-1-2/140-wso2v3/h2-1.2.140-wso2v3/src/docsrc/text/_docs_en.utf8.txt

No license file was found, but licenses were detected in source scan.

/*
 * Copyright 2004-2010 H2 Group. Multiple-Licensed under the H2 License,
 * Version 1.0, and under the Eclipse Public License, Version 1.0
 */

/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements. See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
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 * limitations under the License.
 */

Found in path(s):
* /opt/cola/permits/1362377181_1657710873.5984848/0/h2-1-2-140-wso2v3-source-tar-gz/h2-1.2.140-wso2v3/repo/h2-1-2/140-wso2v3/h2-1.2.140-wso2v3/src/test/org/h2/test/trace/Parser.java
* /opt/cola/permits/1362377181_1657710873.5984848/0/h2-1-2-140-wso2v3-source-tar-gz/h2-1.2.140-wso2v3/repo/h2-1-2/140-wso2v3/h2-1.2.140-wso2v3/src/test/org/h2/test/trace/Arg.java
* /opt/cola/permits/1362377181_1657710873.5984848/0/h2-1-2-140-wso2v3-source-tar-gz/h2-1.2.140-wso2v3/repo/h2-1-2/140-wso2v3/h2-1.2.140-wso2v3/src/test/org/h2/test/trace/Player.java

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Contributors:
2006 Thomas Mueller - updated the dialect for the H2 database engine

package org.jpox.store.rdbms.adapter;

import java.sql.Connection;
import java.sql.DatabaseMetaData;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import javax.sql.DataSource;
import org.jpox.store.DatastoreContainerObject;
import org.jpox.store.DatastoreIdentifier;
import org.jpox.store.Dictionary;
import org.jpox.store.expression.LogicSetExpression;
import org.jpox.store.expression.NumericExpression;
import org.jpox.store.expression.QueryExpression;
import org.jpox.store.expression.ScalarExpression;
import org.jpox.store.expression.TableExprAsJoins;
import org.jpox.store.rdbms.Column;
import org.jpox.store.rdbms.key.PrimaryKey;
import org.jpox.store.rdbms.table.Table;

/**
 * Provides methods for adapting SQL language elements to the H2 Database Engine.
 * @version $Revision: 1.1 $
 */
class H2Adapter extends DatabaseAdapter {

    private String schemaName;

    /**
     * Constructs a H2 adapter based on the given JDBC metadata.
     * @param dictionary The Dictionary to use
     * @param metadata the database metadata.
     */
    public H2Adapter(Dictionary dictionary, DatabaseMetaData metadata) {
        super(dictionary, metadata);
    }
// Set schema name
try {
    ResultSet rs = metadata.getSchemas();
    while (rs.next()) {
        if (rs.getBoolean("IS_DEFAULT")) {
            schemaName = rs.getString("TABLE_SCHEM");
        }
    }
} catch (SQLException e) {
    e.printStackTrace();
    // ignore
}

/** *
 * Getter for the vendor ID for this adapter.
 * @return The vendor ID *
 */
public String getVendorID() {
    return "h2";
}

/** *
 * Accessor for a Connection to the datastore.
 * @param ds The data source. Possible to have more than one data source for fail over
 * @param userName The username for the datastore
 * @param password The password for the datastore
 * @param isolationLevel The level of transaction isolation
 * @return The Connection
 * @throws SQLException Thrown when an error occurs in the creation.
 */
public Connection getConnection(DataSource[] ds, String userName, String password, int isolationLevel) throws SQLException {
    return super.getConnection(ds, userName, password, Connection.TRANSACTION_SERIALIZABLE);
}

/** *
 * Accessor for the maximum table name length permitted on this datastore.
 * @return Max table name length

/**
 * Accessor for the maximum constraint name length permitted on this datastore.
 * @return Max constraint name length
 **/
 public int getMaxConstraintNameLength()
 {
     return SQLConstants.MAX_IDENTIFIER_LENGTH;
 }

/**
 * Accessor for the maximum index name length permitted on this datastore.
 * @return Max index name length
 **/
 public int getMaxIndexNameLength()
 {
     return SQLConstants.MAX_IDENTIFIER_LENGTH;
 }

/**
 * Accessor for the maximum column name length permitted on this datastore.
 * @return Max column name length
 **/
 public int getMaxColumnNameLength()
 {
     return SQLConstants.MAX_IDENTIFIER_LENGTH;
 }

/**
 * Accessor for the SQL statement to add a column to a table.
 * @param table The table
 * @param col The column
 * @return The SQL necessary to add the column
 **/
 public String getAddColumnStatement(DatastoreContainerObject table, Column col)
 {
     return "ALTER TABLE " + table.toString() + " ADD COLUMN " + col.getSQLDefinition();
 }

/**
 * Method to return the SQL to append to the SELECT clause of a SELECT statement to handle
 * restriction of ranges using the LIMIT keyword.
 */
* @param offset The offset to return from
* @param count The number of items to return
* @return The SQL to append to allow for ranges using LIMIT.
*/

public String getRangeByLimitSelectClause(long offset, long count) {
    if (offset >= 0 && count > 0) {
        return " LIMIT " + offset + " + count + " ;
    }
    else if (offset <= 0 && count > 0) {
        return " LIMIT 0 " + count + " ;
    }
    else {
        return "";
    }
}

/**
* Accessor for whether the adapter supports the transaction isolation level
*
* @param isolationLevel the isolation level
* @return Whether the transaction isolation level setting is supported.
*/

public boolean supportsTransactionIsolationLevel(int isolationLevel) {
    if (isolationLevel == Connection.TRANSACTION_READ_COMMITTED || isolationLevel ==
Connection.TRANSACTION_SERIALIZABLE) {
        return true;
    }
    return false;
}

/**
* Whether the datastore supports specification of the primary key in CREATE
* TABLE statements.
* @return Whether it allows "PRIMARY KEY ..."
*/

public boolean supportsPrimaryKeyInCreateStatements() {
    return true;
}

/**
* Accessor for the Schema Name for this datastore.
public String getSchemaName(Connection conn) throws SQLException {
    return schemaName;
}

public String getAddPrimaryKeyStatement(PrimaryKey pk) {
    // PK is created by the CREATE TABLE statement so we just return null
    return null;
}

public String getDropTableStatement(DatastoreContainerObject table) {
    return "DROP TABLE " + table.toString();
}

public boolean supportsDeferredConstraints() {
    return false;
}

* Whether we support auto incrementing fields.
### joedoe.jdbc.JiPoxJdbcSqlSupport

#### Method: `supportsAutoIncrementFields()`

```java
public boolean supportsAutoIncrementFields()
{
    return true;
}
```

#### Method: `getAutoIncrementStmt()`

```java
public String getAutoIncrementStmt(String tableName, String columnName)
{
    return "CALL IDENTITY()";
}
```

#### Method: `getAutoIncrementKeyword()`

```java
public String getAutoIncrementKeyword()
{
    return "IDENTITY";
}
```

#### Method: `getInsertStatementForNoColumns()`

```java
public String getInsertStatementForNoColumns(Table table)
{
    return "INSERT INTO " + table.toString() + " VALUES(NULL)";
}
```

#### Method: `supportsUniqueConstraintsInEndCreateStatements()`

```java
public boolean supportsUniqueConstraintsInEndCreateStatements()
{
    return true;
}
```
/**
 * Whether this datastore supports the use of CHECK after the column
 * definitions in CREATE TABLE statements (DDL).
 * e.g.
 * CREATE TABLE XYZ
 * (  
 *   COL_A int,
 *   COL_B char(1),
 *   PRIMARY KEY (COL_A),
 *   CHECK (COL_B IN ('Y','N'))
 * )
 * @return whether we can use CHECK after the column definitions in CREATE TABLE.
 ***/
public boolean supportsCheckConstraintsInEndCreateStatements()
{
    return true;
}

/**
 * Accessor for whether the specified type is allow to be part of a PK.
 * @param datatype The JDBC type
 * @return Whether it is permitted in the PK
 **/
public boolean isValidPrimaryKeyType(int datatype)
{
    return true;
}

/**
 * Method to generate a modulus expression. The binary % operator is said to
 * yield the remainder of its operands from an implied division; the
 * left-hand operand is the dividend and the right-hand operand is the
 * divisor. This returns MOD(expr1, expr2).
 * @param operand1 the left expression
 * @param operand2 the right expression
 * @return The Expression for modulus
 **/
public NumericExpression modOperator(ScalarExpression operand1, ScalarExpression operand2)
{
    ArrayList args = new ArrayList();
    args.add(operand1);
    args.add(operand2);
    return new NumericExpression("MOD", args);
}

/**
 * Return a new TableExpression.
 * @param qs The QueryStatement to add the expression to
public LogicSetExpression newTableExpression(QueryExpression qs, DatastoreContainerObject table, DatastoreIdentifier rangeVar)
{
    return new TableExprAsJoins(qs, table, rangeVar);
}

---

1.4967 requires-port 1.0.0

1.4967.1 Available under license :

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1.4968 libssh 0.9.4-3.el8

1.4968.1 Available under license :

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 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/ast/Visitor.java
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 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/LoaderClassPath.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassistant-3-27-0-ga-sources-1-jar/javassist/CtConstructor.java
Jar file analysis:

- javassist/bytecode/ConstPool.java
- /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiType.java

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- /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
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1.4978 binutils 2.38-r2

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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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http://react-component.github.io/progress/

## Screenshots

![Screenshot](https://t.alipayobjects.com/images/T12p8gXjpgXXXXXXXXX.gif)

## Browsers

* support IE9+, Chrome, Firefox, Safari

## Install

[rc-progress](https://nodei.co/npm/rc-progress.png)

## Usage

```jsx
import { Line, Circle } from 'rc-progress';

ReactDOM.render(<div>
  <Line percent="10" strokeWidth="4" strokeColor="#D3D3D3" />
  <Circle percent="10" strokeWidth="4" strokeColor="#D3D3D3" />
</div>, container);
```

## API

### props

<table>
<thead>
<tr>
<th>name</th>
<th>type</th>
<th>default</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>strokeWidth</td>
<td>number</td>
<td>4</td>
<td>stroke width</td>
</tr>
</tbody>
</table>

---

[node-image]: https://img.shields.io/badge/node.js-%3E=_0.10-green.svg?style=flat-square
[node-url]: http://nodejs.org/download/
[download-image]: https://img.shields.io/npm/dm/rc-progress.svg?style=flat-square
[download-url]: https://npmjs.org/package/rc-progress
<table>
<thead>
<tr>
<th><strong>Number</strong></th>
<th><strong>1</strong></th>
<th><strong>Width of the stroke. Unit is percentage of SVG canvas size.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>strokeColor</strong></td>
<td><strong>String</strong></td>
<td><strong>#2db7f5</strong></td>
</tr>
<tr>
<td><strong>trailWidth</strong></td>
<td><strong>Number</strong></td>
<td><strong>1</strong></td>
</tr>
<tr>
<td><strong>trailColor</strong></td>
<td><strong>String</strong></td>
<td><strong>#D9D9D9</strong></td>
</tr>
<tr>
<td><strong>strokeLinecap</strong></td>
<td><strong>String</strong></td>
<td><strong>round</strong></td>
</tr>
<tr>
<td><strong>prefixCls</strong></td>
<td><strong>String</strong></td>
<td><strong>rc-progress</strong></td>
</tr>
<tr>
<td><strong>className</strong></td>
<td><strong>String</strong></td>
<td><strong>customized className</strong></td>
</tr>
<tr>
<td><strong>style</strong></td>
<td><strong>Object</strong></td>
<td><strong>style object will be added to svg element</strong></td>
</tr>
</tbody>
</table>
## Installation

```javascript
npm install --save rc-progress
```

## Development

```javascript
npm install
npm start
```

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Found in path(s):
* /opt/cola/permits/1237622726_1638828129.29/0/react-component-progress-2-0-3-0-ga727336-tar-gz/react-component-progress-a727336/README.md

---

1.5004 error_prone_annotations 2.5.1

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* /opt/cola/permits/1257847059_1643019272.48/0/error-prone-annotations-2-5-1-sources-jar/com/google/errorprone/annotations/RestrictedApi.java
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1.5005 curl-dev 7.83.1-r2

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1.5006 commons-compress 1.19

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1.5007 kerberos 1.19.2-r0

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/spnego_mech.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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Changes:
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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Julian Seward, jsward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.
HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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Licensing Information User Manual

MySQL 8.0

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
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lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
- lib/krb5/error_tables/kdb5_err.et
- slave/kpropd_rpc.c
- slave/kproplog.c

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md5 (Message-Digest Algorithm 5)

This code implements the MD5 message-digest algorithm.
The algorithm is due to Ron Rivest. This code was
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Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
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with every copy.

The code has been modified by Mikael Ronstroem to handle
calculating a hash value of a key that is always a multiple
of 4 bytes long. Word 0 of the calculated 4-word hash value
is returned as the hash value.

MeCab

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General
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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you
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   b) You must cause the files modified to carry prominent notices stating
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      of data to be supplied by an application program that uses the facility,
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     (For example, a function in a library to compute square roots has a
     purpose that is entirely well-defined independent of the application.
     Therefore, Subsection 2d requires that any application-supplied function or
     table used by this function must be optional: if the application does not
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These requirements apply to the modified work as a whole. If identifiable
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on the terms of this License, whose permissions for other licensees extend to
the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

   a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
   b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
   c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
   d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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MySQL Router 8.0

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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.
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*/

/*
* Please see the following site for the detail of Windows IME API.

1.5039 python3-gpg 1.13.1-3.el8

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1.5043 grep 3.6 1

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chernoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frederic
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keece, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krzmar, Tomislav
Marchal, Frederic
Margevicius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.5052 jasper 1.0.400.v20120522-2049

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1.5053 ms 2.1.2

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1.5054 jest-config 24.9.0

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1.5055 moment 2.29.1

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1.5056 json-c 0.13.1 0.2.el8
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1.5057 jasper-libs 2.0.14-5.el8

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1.5058 wso2-carbon-email-verification-stub 4.5.4

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1.5059 wso2-carbon-rest-api-stub 4.6.105

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* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1.jar/org/springframework/cache/concurrent/ConcurrentMapCache.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1.jar/org/springframework/context/annotation/AnnotationConfigUtils.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1.jar/org/springframework/context/annotation/ScopedProxyCreator.java
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* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1.jar/org/springframework/context/annotation/ScopedProxyCreator.java
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* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/cache/Cache.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/context/support/AbstractApplicationContext.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/cache/annotation/Cacheable.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/validation/DirectFieldBindingResult.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/context/annotation/PropertySources.java
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* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/jndi/JndiObjectTargetSource.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/remoting/rmi/JndiRmiServiceExporter.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/context/ConfigurableApplicationContext.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
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* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/ejb/access/AbstractSlsbInvokerInterceptor.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/context/event/ContextClosedEvent.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/context/classloading/websphere/WebSphereLoadTimeWeaver.java

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/**
* Indicates that a component is only eligible for registration when all
* [@linkplain #value() specified conditions] match.
*<p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see [@link Condition] for details).
*<p>The [@code @Conditional] annotation may be used in any of the following ways:
*<ul>
*<li>as a type-level annotation on any class directly or indirectly annotated with
* [@code @Component], including [@link Configuration @Configuration] classes</li>
*<li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
*<li>as a method-level annotation on any [@link Bean @Bean] method</li>
*</ul>
*<p>If a [@code @Configuration] class is marked with [@code @Conditional], all of the
* [@code @Bean] methods, [@link Import @Import] and [@link ComponentScan @ComponentScan]
* annotations associated with that class will be subject to the conditions.
*<p>NOTE: [@code @Conditional] annotations are not inherited; any conditions from
* superclasses or from overridden methods are not being considered.
*<p>@author Phillip Webb
* @since 4.0
* @see Condition
*/

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* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4-1-6-release-sources-1-jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java

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/**
 * [@link FactoryBean] that obtains a WebSphere [ @link javax.management.MBeanServer] reference through WebSphere's proprietary [ @code AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the [ @code MBeanServer] for bean references.
 * This FactoryBean is a direct alternative to [ @link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * <p>See the javadocs for WebSphere's
 * [ @a href="http://bit.ly/UzccDr">[@code AdminServiceFactory]</a>
 */
/* @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation. Callers
 * are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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  jar/org/springframework/scripting/config/LangNamespaceUtils.java
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  jar/org/springframework/jndi/JndiAccessor.java
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  jar/org/springframework/stereotype/Controller.java
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  jar/org/springframework/jmx/export/RemoteModelMBean.java
* /opt/cola/permits/1136508440_1618993732.04/0/spring-context-4.1.6-release-sources-1-
  jar/org/springframework/remoting/support/RemoteInvocationFactory.java
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  jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
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#require unix-permissions no-root

$ hg init a
$ cd a
$ echo foo > b
$ hg add b
$ hg ci -m "b"

$ chmod -w .hg/store

$ cd ..

$ hg clone a b
requesting all changes
adding changesets
adding manifests
adding file changes
added 1 changesets with 1 changes to 1 files
updating to branch default
1 files updated, 0 files merged, 0 files removed, 0 files unresolved

$ chmod +w a/.hg/store # let test clean up

$ cd b
$ hg verify
checking changesets
checking manifests
crosschecking files in changesets and manifests
checking files
1 files, 1 changesets, 1 total revisions

$ cd ..

Greg Ward, author of the original bfiles extension
Na'Tosha Bard of Unity Technologies
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```
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPI

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
```

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 51300
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,\$(notdir \$(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS = -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
\$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.$(SO).\$(STATIC_O): $(srcdir)/%.c
\$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(SO).\$(STATIC_O): $(srcdir)/%.cpp
\$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.$(SO).\$(STATIC_O): $(srcdir)/%.cpp
\$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec \"$\$(GEN_DEPS.c) $< \$(GEN_DEPS.c) \" $< \$
| sed \"s/\(\$*\)\.o/\1\.o $@ : /g\" > $@; \
[ -s $@ ] \|| rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec \"$\$(GEN_DEPS.cc) $< \$(GEN_DEPS.cc) \" $< \$
| sed \"s/\(\$*\)\.o/\1\.o $@ : /g\" > $@; \
[ -s $@ ] \|| rm -f $@

## Versioned libraries rules
%.$(SO).\$(SO_TARGET_VERSION_MAJOR): %.$(SO).\$(SO_TARGET_VERSION)
\$(RM) $@ && ln -s \{$<\} $@
%.$(SO): %.$(SO).\$(SO_TARGET_VERSION_MAJOR)
\$(RM) $@ && ln -s \{$<\} %.$(SO).\$(SO_TARGET_VERSION_MAJOR) $@

## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.5075 wso2-carbon-event-common 4.6.49
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* /opt/cola/permits/1177915146_1625543476.07/0/jaeger-core-1-6-0-sources-jar/io/jaegertracing/spi/MetricsFactory.java
* /opt/cola/permits/1177915146_1625543476.07/0/jaeger-core-1-6-0-sources-jar/io/jaegertracing/internal/propagation/CompositeCodec.java
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* /opt/cola/permits/1177915146_1625543476.07/0/jaeger-core-1-6-0-sources-jar/io/jaegertracing/spi/Injector.java
**1.5080 btree 1.0.0**

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 * $Id: LexicalUnitImpl.java,v 1.3 2000/02/15 02:08:19 plehegar Exp $
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1.5082 figures 2.0.0

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1.5084 p-defer 1.0.0

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*/

package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

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1.5086 cdiff 1.0
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1.5087 gophercloud 0.15.0

1.5087.1 Available under license:

package RESOURCE

import (  
"github.com/gophercloud/gophercloud"  
"github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {  
gophercloud.Result  
}

// GetResult is the response from a Get operation. Call its Extract method // to interpret it as a RESOURCE.
type GetResult struct {  
commonResult  
}

// CreateResult is the response from a Create operation. Call its Extract method // to interpret it as a RESOURCE.
type CreateResult struct {  
commonResult  
}
// DeleteResult is the response from a Delete operation. Call its ExtractErr to
defer if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next     string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    } `json:"links"
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s/Resources, err
}
// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"`
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
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This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](./.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](./.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a very rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
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The amount of changes you plan to make will determine how much code you should submit as Pull Requests.
### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.
Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be a lot of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```
Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

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Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.
### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

Submitting Changes
--------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don’t take change requests personally. Our intention is to ensure the code is correct before merging.

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Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (  
    "fmt"  
    "net/http"  
    "testing"
)

"github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `  
    
` // GetResult provides a Get result.
const GetResult = `  
    
` // CreateRequest provides the input to a Create request.
const CreateRequest = `  
    
` // UpdateRequest provides the input to as Update request.
const UpdateRequest = `  
    
`
// UpdateResult provides an update result.
const UpdateResult = `{ }`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}
// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package testing
import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {

th.SetupHTTP()
defer th.TeardownHTTP()
HandleListResourcesSuccessfully(t)

count := 0
    count++

    actual, err := resources.ExtractResources(page)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

    return true, nil
})
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    create, err := resources.Create(client.ServiceClient(), createOpts)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, expectedResource, *create)
func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {  

```go
q, err := gophercloud.BuildQueryString(opts)
return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
url := listURL(client)
if opts != nil {
query, err := opts.ToResourceListQuery()
if err != nil {
return pagination.Pager{Err: err}
}
url += query
}
return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
resp, err := client.Get(getURL(client, id), &r.Body, nil)
_, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
b, err := opts.ToResourceCreateMap()
if err != nil {
    r.Err = err
    return
}
```
func Post(client *gophercloud.ServiceClient, &b, &r.Body, &gophercloud.RequestOpts{
    OkCodes: []int{201},
}) r.Header, r.Err = gophercloud.ParseResponse(r)
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 7: Congratulations!
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At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

package RESOURCE

Step 4: Acceptance Testing
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If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.
Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

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Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* [https://github.com/gophercloud/gophercloud/issues/108](https://github.com/gophercloud/gophercloud/issues/108)
* [https://github.com/gophercloud/gophercloud/issues/212](https://github.com/gophercloud/gophercloud/issues/212)
* [https://github.com/gophercloud/gophercloud/issues/424](https://github.com/gophercloud/gophercloud/issues/424)
* [https://github.com/gophercloud/gophercloud/issues/588](https://github.com/gophercloud/gophercloud/issues/588)
* [https://github.com/gophercloud/gophercloud/issues/629](https://github.com/gophercloud/gophercloud/issues/629)
* [https://github.com/gophercloud/gophercloud/issues/647](https://github.com/gophercloud/gophercloud/issues/647)

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.
Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* [https://github.com/gophercloud/gophercloud/issues/310](https://github.com/gophercloud/gophercloud/issues/310)
* [https://github.com/gophercloud/gophercloud/issues/613](https://github.com/gophercloud/gophercloud/issues/613)
* [https://github.com/gophercloud/gophercloud/issues/729](https://github.com/gophercloud/gophercloud/issues/729)
* [https://github.com/gophercloud/gophercloud/issues/713](https://github.com/gophercloud/gophercloud/issues/713)

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* [https://github.com/gophercloud/gophercloud/issues/620](https://github.com/gophercloud/gophercloud/issues/620)
* [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621)
* [https://github.com/gophercloud/gophercloud/issues/658](https://github.com/gophercloud/gophercloud/issues/658)

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:
---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

====================

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.
If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID           string `json:"id"`
    Name         string `json:"name"`
    AdminStateUp bool   `json:"admin_state_up"
    Status       string `json:"status"`
    Subnets      []string `json:"subnets"`
    TenantID     string `json:"tenant_id"`
    Shared       bool   `json:"shared"
}

```

to look like

```go
```

type Network struct {
    ID              string `json:"id"`
    Name            string `json:"name"`
    AdminStateUp    bool   `json:"admin_state_up"
    Status          string `json:"status"`
    Subnets         []string `json:"subnets"`
    TenantID        string `json:"tenant_id"`
    Shared          bool   `json:"shared"
    AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of
the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6a1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

-------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.
* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

=================================

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

### 1.5088 libepsilon 0.9.2+dfsg-4

**1.5088.1 Available under license:**

* Alessandro Furieri <a.furieri@lqt.it>
  - a lot of improvements to code portability
  - porting to Windows (MSVC, MinGW)
  - bug fixes: name clash with zlib & libpng
  - fluff removal from the code
* Francesco P. Lovergine <frankie at debian dot org> from DebianGis project
  - Maintaining epsilon, libepsilon and GDAL epsilon driver for Debian
  - Adding versioning support to libepsilon

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Version 3, 29 June 2007

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1.5091 ee-first 1.1.1
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1.5094 prettier 1.19.1

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1.5099 wso2-carbon-endpoint 4.6.105

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1.5102 tmp 0.0.33

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Metadata-Version: 1.1
Name: procfs
Version: 0.2.0
Summary: Python API for the Linux /proc virtual filesystem
Home-page: https://github.com/pmuller/procfs
Author: Philippe Muller
Author-email: philippe.muller@gmail.com
License: BSD
Description: procfs

Easy to use

```
>>> from procfs import Proc
>>> proc = Proc()

>>> proc.loadavg
{'average': {1: 0.0, 5: 0.0, 15: 0.0},
 'entities': {'current': 1, 'total': 117},
 'last_pid': 3068}

>>> proc.net.dev.eth1.receive.bytes
117997558

>>> proc.meminfo.MemFree
57044

>>> proc.net.snmp.Udp
{'InDatagrams': 3394, 'OutDatagrams': 3399, 'RcvbufErrors': 0,
 'InErrors': 0, 'SndbufErrors': 0, 'NoPorts': 4}

Process information

```

```
>>> proc.self
<Process 3068: python>

>>> proc.self.parent

```
>>> proc.self.uptime
datetime.timedelta(0, 346, 380262)

>>> proc.processes
<Process 5: watchdog/0>, <Process 6: migration/1>, <Process 7: ksoftirqd/1>, <Process 8: watchdog/1>, <Process
9: events/0>, <Process 10: events/1>, ...]>

>>> len(proc.processes)
110

>>> proc.processes.cmdline('(vim|ssh)')
<Process 10440: sshd>, <Process 10504: sshd>]

>>> proc.processes.uid(1000)
10876: screen>, <Process 12908: bash>, ...]>

>>> proc.processes.user('pmuller').cmdline('python')[0]
<Process 3093: python>

Links
"""
* `documentation <http://packages.python.org/procfs/>`
* `github <http://github.com/pmuller/procfs>`

.. image:: https://d2weczhvl823v0.cloudfront.net/pmuller/procfs/trend.png
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Keywords: linux proc procfs system kernel
Platform: Linux
Classifier: Development Status :: 3 - Alpha
Classifier: Intended Audience :: System Administrators
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1.5104 charls 2.0.0+dfsg-1

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1.5105 wso2-carbon-logging-service 4.6.49

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1.5122 maven-core 3.5.4

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1.5124 maven-resolver-impl 1.1.1

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1.5131 glibc 2.24-11+deb9u4

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=============

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=================================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
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3.3    3.2    2012  PSF  yes

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Mersenne Twister
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The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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UUencode and UUdecode functions

-------------------------------

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Modified by Jack Jansen, CWI, July 1995:
  - Use binascii module to do the actual line-by-line conversion
    between ascii and binary. This results in a 1000-fold speedup. The C
    version is still 5 times faster, though.
  - Arguments more compliant with python standard

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-------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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---------------------------

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Original location:

https://github.com/majek/csiphash/

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

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----

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

cfuhash
------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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libmpdec
--------

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=============================  

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.5138 fancy-log 1.3.3

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1.5140 clean-stack 1.3.0
1.5140.1 Available under license:
MIT

1.5141 perl-pathtools 3.74-1.el8
1.5141.1 Available under license:
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::Functions - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec::Functions;
$x = catfile('a','b');

=head1 DESCRIPTION

This module exports convenience functions for all of the class methods
provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>,
which contains the entire set, and which is inherited by the modules for
other platforms. For further information, please see L<File::Spec::Mac>,
L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.
canonpath
catdir
catfile
curdir
rootdir
updir
no_upwards
file_name_is_absolute
path

The following functions are exported only by request.
All the functions may be imported using the `C<:ALL>` tag.

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2, File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqlImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Functions.pm

No license file was found, but licenses were detected in source scan.

/* See
 * for the details of why the BSD license is compatible with the
 * AL/GPL standard perl license.
 */
/*
 * Copyright (c) 2003 Constantin S. Svintsoff <kostik@iclub.nsu.ru>
 * 
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* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/Cwd.xs
No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.39

Automatically created by Devel::PPPort running under perl 5.027009.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.39

=head1 SYNOPSIS

perl ppport.h [options] [source files]
Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>
If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automatically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.
Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item * 

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C/#define>s in your source code before the inclusion of F<ppport.h>. These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parserGLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signalsGLOBAL</td>
</tr>
</tbody>
</table>
SvRX()                   NEED_SvRX       NEED_SvRX_GLOBAL
caller_ex()            NEED_caller_ex   NEED_caller_ex_GLOBAL
croak_xs_usage()       NEED_croak_xs_usage NEED_croak_xs_usage_GLOBAL
die_sv()               NEED_die_sv       NEED_die_sv_GLOBAL
eval_pv()              NEED_eval_pv      NEED_eval_pv_GLOBAL
grok_bin()             NEED_grok_bin     NEED_grok_bin_GLOBAL
grok_hex()             NEED_grok_hex     NEED_grok_hex_GLOBAL
grok_number()          NEED_grok_number NEED_grok_number_GLOBAL
grok_numeric_radix()   NEED_grok_numeric_radix NEED_grok_numeric_radix_GLOBAL
grok_oct()             NEED_grok_oct     NEED_grok_oct_GLOBAL
gv_fetchpvn_flags()    NEED_gv_fetchpvn_flags NEED_gv_fetchpvn_flags_GLOBAL
load_module()          NEED_load_module NEED_load_module_GLOBAL
mess()                 NEED_mess        NEED_mess_GLOBAL
mess_nocontext()       NEED_mess_nocontext NEED_mess_nocontext_GLOBAL
mess_sv()              NEED_mess_sv      NEED_mess_sv_GLOBAL
mg_findext()           NEED_mg_findext NEED_mg_findext_GLOBAL
my_snprintf()          NEED_my_snprintf NEED_my_snprintf_GLOBAL
my_sprintf()           NEED_my_sprintf NEED_my_sprintf_GLOBAL
my_strlcat()           NEED_my_strlcat NEED_my_strlcat_GLOBAL
my_strlcpy()           NEED_my_strlcpy NEED_my_strlcpy_GLOBAL
newCONSTSUB()          NEED_newCONSTSUB NEED_newCONSTSUB_GLOBAL
newRV_noinc()          NEED_newRV_noinc NEED_newRV_noinc_GLOBAL
newSV_type()           NEED_newSV_type NEED_newSV_type_GLOBAL
newSVpvn_flags()       NEED_newSVpvn_flags NEED_newSVpvn_flags_GLOBAL
newSVpvn_share()       NEED_newSVpvn_share NEED_newSVpvn_share_GLOBAL
pv_display()           NEED_pv_display NEED_pv_display_GLOBAL
pv_escape()            NEED_pv_escape NEED_pv_escape_GLOBAL
pv_pretty()            NEED_pv_pretty NEED_pv_pretty_GLOBAL
sv_2pv_flags()         NEED_sv_2pv_flags NEED_sv_2pv_flags_GLOBAL
sv_2pvbyte()           NEED_sv_2pvbyte NEED_sv_2pvbyte_GLOBAL
sv_catpvf_mg()         NEED_sv_catpvf_mg NEED_sv_catpvf_mg_GLOBAL
sv_catpvf_mg_nocontext() NEED_sv_catpvf_mg_nocontext NEED_sv_catpvf_mg_nocontext_GLOBAL
sv_pvn_force_flags()   NEED_sv_pvn_force_flags NEED_sv_pvn_force_flags_GLOBAL
sv_setpvf_mg()         NEED_sv_setpvf_mg NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext() NEED_sv_setpvf_mg_nocontext NEED_sv_setpvf_mg_nocontext_GLOBAL
sv_unmagicext()        NEED_sv_unmagicext NEED_sv_unmagicext_GLOBAL
vload_module()         NEED_vload_module NEED_vload_module_GLOBAL
vmess()                NEED_vmess        NEED_vmess_GLOBAL
vnewSVpvnf()           NEED_vnewSVpvnf NEED_vnewSVpvnf_GLOBAL
warner()               NEED_warner       NEED_warner_GLOBAL

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C,#define> the macro before including C<ppport.h>:

#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
The default namespace is C\<DPPP\_>.  

=back  

The good thing is that most of the above can be checked by running F\<ppport.h> on your source code. See the next section for details.  

=head1 EXAMPLES  

To verify whether F\<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F\<ppport.h> can be run as a Perl script to check your source code. Simply say:  

perl ppport.h  

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.  

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:  

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff  

If you only want your code to be scanned without any suggestions for changes, use:  

perl ppport.h --nochanges  

You can specify a different C\<diff> program or options, using the C\<--diff> option:  

perl ppport.h --diff=`diff -C 10`  

This would output context diffs with 10 lines of context.  

If you want to create patched copies of your files instead, use:  

perl ppport.h --copy=.new  

To display portability information for the C\<newSVpvn> function, use:  

perl ppport.h --api-info=newSVpvn
Since the argument to C<--api-info> can be a regular expression, you can use

```
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```
perl ppport.h --api-info=/
```

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back
For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.
=head1 COPYRIGHT
Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.
Version 2.x, Copyright (C) 2001, Paul Marquess.
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
=head1 SEE ALSO
See L<Devel::PPPort>.
=cut
use strict;
# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my $VERSION = 3.39;
my %opt = (
quiet => 0,
diag
=> 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);
my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])'; # line feed
my $HS = "[ \t]";
# horizontal whitespace
# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 51652


eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
  print "This is $0 $VERSION.
";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) }; 
  if ($@) {
    die "Invalid version number format: $opt{'compat-version'}\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{'compat-version'} = 5;
}

my %API = map { /^\w+|[^\|]*\|[^\|]*\|[^\|]*$/? ( $1 => {
    ($2 ? ( base => $2 ) : ()),
    ($3 ? ( todo => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
  })
    : die "invalid spec: $_" } qw(
ASCII_TO_NEED||5.007001|n
AvFILLp|5.004050||p
AvFILL||
G_VOID[5.004000]
GetVars||
GvAV||
GvCV||
GvHV||
GvSV||
Gv_AMupdate[5.011000]
HEf_SVKEY[5.003070]|p
HeHASH[5.003070]
HeKEY[5.003070]
HeKLEN[5.003070]
HePV[5.004000]
HeSVKEY_force[5.003070]
HeSVKEY_set[5.004000]
HeSVKEY[5.003070]
HeUTF8[5.010001][5.008000]|p
HeVAL[5.003070]
HvENAMELEN[5.015004]
HvNAMEUTF8[5.015004]
HvNAME[5.013007]
HvNAMELEN_get[5.009003]|p
HvNAMELEN[5.015004]
HvNAMEUTF8[5.015004]
HvNAME_get[5.009003]|p
HvNAME||
INT2PTR[5.006000]|p
IN_LOCALE_COMPILETIME[5.007002]|p
IN_LOCALE_RUNTIME[5.007002]|p
IN_LOCALE[5.007002]|p
IN_PERL_COMPILETIME[5.008001]|p
IS_NUMBER_GREATER_THAN_UV_MAX[5.007002]|p
IS_NUMBER_INFINITY[5.007002]|p
IS_NUMBER_IN_UV[5.007002]|p
IS_NUMBER_NAN[5.007003]|p
IS_NUMBER_NEG[5.007002]|p
IS_NUMBER_NOT_INT[5.007002]|p
IVSIZE[5.006000]|p
IVTYPE[5.006000]|p
IVdf[5.006000]|p
LEAVE||
LINKLIST[5.013006]
LVRET||
MARK||
MULTICALL[5.024000]
MUTABLE_PTR[5.010001]|p
MUTABLE_SV[5.010001]|p
MY_CXT_CLONE[5.009002]|p
MY_CXT_INIT[5.007003]|p
PERL_ARGS_ASSERT_CROAK_XS_USAGE
PERL_BCDVERSION[5.024000]
PERL_GCC_BRACE_GROUPS_FORBIDDEN[5.008001]
PERL_HASH[5.003070]
PERL_INT_MAX[5.003070]
PERL_INT_MIN[5.003070]
PERL_LONG_MAX[5.003070]
PERL_LONG_MIN[5.003070]
PERL_MAGIC_arylen[5.007002]
PERL_MAGIC_backref[5.007002]
PERL_MAGIC_bm[5.007002]
PERL_MAGIC_collexfrm[5.007002]
PERL_MAGIC_dbfile[5.007002]
PERL_MAGIC_dbline[5.007002]
PERL_MAGIC_defelem[5.007002]
PERL_MAGIC_envelem[5.007002]
PERL_MAGIC_env[5.007002]
PERL_MAGIC_ext[5.007002]
PERL_MAGIC_fm[5.007002]
PERL_MAGIC_glob[5.024000]
PERL_MAGIC_isaelem[5.007002]
PERL_MAGIC_isa[5.007002]
PERL_MAGIC_mutex[5.024000]
PERL_MAGIC_nkeys[5.007002]
PERL_MAGIC_overload_elem[5.024000]
PERL_MAGIC_overload[5.024000]
PERL_MAGIC_pos[5.007002]
PERL_MAGIC_qr[5.007002]
PERL_MAGIC_regdata[5.007002]
PERL_MAGIC_regdatum[5.007002]
PERL_MAGIC_regex_global[5.007002]
PERL_MAGIC_shared_scalar[5.007003]
PERL_MAGIC_shared[5.007003]
PERL_MAGIC_sigelem[5.007002]
PERL_MAGIC_sig[5.007002]
PERL_MAGIC_substr[5.007002]
PERL_MAGIC_sv[5.007002]
PERL_MAGIC_taint[5.007002]
PERL_MAGIC_tiedelem[5.007002]
PERL_MAGIC_tiedscalar[5.007002]
PERL_MAGIC_tied[5.007002]
PERL_MAGIC_utf8[5.008001]
PERL_MAGIC_uvar_elem[5.007003]
PERL_MAGIC_uvar[5.007002]
PERL_MAGIC_vec[5.007002]
PERL_MAGIC_vstring[5.008001]
PERL_PV_ESCAPE_ALL[5.009004]
SvGETMAGIC|5.004050||p
SvGROW||
SvIOK_UV|5.006000|
SvIOK_notUV|5.006000|
SvIOK_off||
SvIOK_only_UV|5.006000|
SvIOK_only||
SvIOK_on||
SvIOKp||
SvIOK||
SvIVX||
SvIV_only_UV|5.006000|
SvIV_only||
SvIV_on||
SvIVp||
SvIV||
SvIsCOW_shared_hash|5.008003|
SvIsCOW|5.008003|
SvLEN_set||
SvLEN||
SvLOCK|5.007003|
SvMAGIC_set|5.009003||p
SvNIOK_off||
SvNIOKp||
SvNIOK||
SvNOK_off||
SvNOK_only||
SvNOK_on||
SvNOKp||
SvNOK||
SvNVX||
SvNV_nomg|5.013002|
SvNV_set||
SvNVx||
SvNV||
SvOK||
SvOOK_offset|5.011000|
SvOOK||
SvPOK_off||
SvPOK_only_UTF8|5.006000|
SvPOK_only||
SvPOK_on||
SvPOKp||
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sv_vsetpvfn|5.004000|
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toLOWER_uvchr|5.023009|
toLOWER|
toTITLE_utf8|5.015007|
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yyerror_pvn|||
yyerror_pv|||
yyerror|||
yylex|||
yyparse|||
yyunlex|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]

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if m{\s*$rccs\s+(Hint|Warning):\s+\(w+\(?;\?s+\(w+)\)s+*$};

if ($define) {
    if ($define->[1] =~ /\$/) {
        $define->[1].= $_;
    }
    else {
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
            my @n = find_api($define->[1]);
            push @{$depends{$define->[0]}}, @n if @n
        }
        undef $define;
    }
}

$define = [$1, $2] if m{\s*$\$define\(w+\(?;\?s+\(w+)\)\)?s+.*};

if ($function) {
    if (/\^/) {
        if (exists $API{$function->[0]})) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    }
    else { $function->[1].= $_; }
}

$function = [$1, ""] if m{^DPPP_(my\(_\(w+\))\)\};

$replace = $1 if m{\s*$rccs\s+Replace:\s+\(d+)\s+\$rce\s*$};
$replace{$2} = $1 if $replace and m{\s*$\$define\(w+\(\(?s+\(w+)\)\)?s+\)\);.*$rce\s*$};
$replace{$2} = $1 if m{\s*$\$define\(w+\(\(?s+\(w+)\)\)?s+\)\);.*$rce\s*$};
$replace{$1} = $2 if m{\s*$rce\$s+Replace \(w+\) with \(w+)\s+$rce\s*$};

if (m{\s*$rce\s+\(w+\(s+\(s+\)\)s+deps\s+\(w+\)?s+\)s+\s+$rce\s*$}) {
    my @deps = map { s/s+/g; S_ } split /,; $3;
    my $d;
    for $d (map { s/s+/g; S_ } split /,; $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{^#if\(w+\)\(?_GLOBAL\)?\);$}
for (values %depends) {
    my %s;
    $=_ = [sort grep !_s{$_}++, @$_];
}

if (exists $opt{‘api-info’}) {
    my $f;
    my $count = 0;
    my $match = $opt{‘api-info’} =~ m!^/(.*)/! ? $1 : "$opt{‘api-info’}\E$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo\n";
            print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
            print "Depends on: \n", join(', ', @{$depends{$f}}), \n" if exists $depends{$f};
            print "\n$hint{$f}" if exists $hints{$f};
            print "\n\nWARNING:\n$warning{$f}" if exists $warnings{$f};
            $info++;
        }
        print "\n\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching $opt{‘api-info’}.'.\n";
    print "\n";
    exit 0;
}

if (exists $opt{‘list-provided’}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '['.join(', ', @flags).']' : "";
        print "$f\n$flags\n";
    }
    exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}

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die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {

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$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';

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for (@{$global{needs}[$need]}) {
    $files{$_}[$need] = 'extern' if $_ ne $target;
}
}
}

for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = @{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if (SAPI{$func} {varargs}) {
            unless (SAPI{$func} {nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*?!aTHX_\?)\(\)?|[^\s)]\)*\(\)?\}\s*}{{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ' ) . $2 }ge);
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*?!aTHX_\?)\(\)?|[^\s)]\)*\(\)?\}\s*}{$func$1\}g);
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of replace{$func}");
        $file{changes} += ($c =~ s{\b$func\s*\(\s*?!aTHX_\?)\(\)?|[^\s)]\)*\(\)?\}\s*}{$replace{$func}}g);
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}[$func]) {
            if (exists $file{uses_deps}[$func]) {
                diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}[$func]}));
            } else {
                diag("Uses $func");
            }
        }
    }
}
 unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
             format_version($API{$func}{todo}), ".", even with "$ppport"n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        } if ($message) {
            diag($message);
            $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
        }
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";
```
for $func (sort keys %{$file{needs}}) {
my $type = $file{needs}{$func};
next if $type eq 'extern';
my $suffix = $type eq 'global' ? '_GLOBAL' : '';
unless (exists $file{"needed_$type"}{$func}) {
if ($type eq 'global') {
diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
}
else {
diag("File needs $func, adding static request");
}
$pp .= "#define NEED_$func$suffix\n";
}
}
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
$pp = '';
$file{changes}++;
}
unless ($file{has_inc_ppport}) {
diag("Needs to include '$ppport'");
$pp .= qq(#include "$ppport"\n)
}
if ($pp) {
$file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
|| ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
|| ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
|| ($c =~ s/^/$pp/);
}
}
else {
if ($file{has_inc_ppport}) {
diag("No need to include '$ppport'");
$file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
}
}
# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
$cppc++;
$file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;

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} else {
    $c =~ s/$rcc$six$srcce/$ccom[$ix]/;
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ''; 
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}"
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'\n"
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            mydiff(*PATCH, $filename, $c);
        }
else {
  fallback:
    info("Suggested changes:");
    mydiff("STDOUT", $filename, $c);
}
else {
  my $s = $file{changes} == 1 ? '' : 's';
  info("$file{changes} potentially required change$s detected");
}
else {
  info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use {
  eval "use @_;": return $@ eq ""
}

sub mydiff
{
  local *F = shift;
  my($file, $str) = @_;
  my $diff;

  if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
  }

  if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
  }

  if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
  }

  if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
  }

  --- $file
  +++ $file.patched
  HEADER
}

if (!defined $diff) {
  $diff = run_diff('diff -u', $file, $str);
}
if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
my($prog, $file, $str) = @_;
my $tmp = 'dppptemp';
my $suf = 'aaa';
my $diff = ";
local *F;

while (-e "$tmp.$suf") { $suf++ }
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
        while (<F>) {
            s/Q$tmp\E/$file.patched/;
            $diff .= ";
        }
        close F;
        unlink $tmp;
        return $diff;
    }
    unlink $tmp;
    } else {
        error("Cannot open '$tmp' for writing: $!");
    }
return undef;
}

sub rec_depend
{
my($func, $seen) = @_;
return () unless exists $depends{$func};
$seen = {%{$seen||{}}};
return () if $seen->{$func}++;
my %s;
grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
my $ver = shift;

if ($ver =~ /(^d+).(\d+).(\d+)/) {
    return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\[[\d_]\]+$) {
    die "cannot parse version '$ver\n";
}

$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /(^d+)/\([\d\{3\}])\([\d\{3\}]\)/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version '$ver\n";
    }
}

return ($r, $v, $s);
}

sub format_version
{
my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /(^d+)/\([\d\{3\}])\([\d\{3\}]\)/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver\n";
    }
    $s /= 10;
}
$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_%02d", $s;

return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}

sub error
{
print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn =~ s!^!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
    my $hint = $hints{$func};
Usage: $usage

See perldoc $0 for details.

ENDUSAGE

Sorry, but this is a stripped version of $0.

To be able to use its original script and doc functionality, please try to regenerate this file using:
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/ppport.h
No license file was found, but licenses were detected in source scan.

=head1 NAME
File::Spec - portably perform operations on file names

=head1 SYNOPSIS
use File::Spec;

$x=File::Spec->catfile('a', 'b', 'c');

which returns 'a/b/c' under Unix. Or:

use File::Spec::Functions;

$x = catfile('a', 'b', 'c');

=head1 DESCRIPTION
This module is designed to support operations commonly performed on file specifications (usually called "file names", but not to be confused with the contents of a file, or Perl's file handles), such as concatenating several directory and file names into a single path, or determining whether a path is rooted. It is based on code directly taken from MakeMaker 5.17, code written by Andreas Koenig, Andy Dougherty, Charles Bailey, Ilya Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of OS specific routines is available in a separate module, including:

File::Spec::Unix
File::Spec::Mac
File::Spec::OS2
File::Spec::Win32
File::Spec::VMS

The module appropriate for the current OS is automatically loaded by File::Spec. Since some modules (like VMS) make use of facilities available only under that OS, it may not be possible to load all modules under all operating systems.

Since File::Spec is object oriented, subroutines should not be called directly, as in:

File::Spec::catfile('a','b');

but rather as class methods:

File::Spec->catfile('a','b');

For simple uses, L<File::Spec::Functions> provides convenient functional forms of these methods.

=head1 METHODS

=over 2

=item canonpath

X<canonpath>

No physical check on the filesystem, but a logical cleanup of a path.

$opath = File::Spec->canonpath( $path ) ;

Note that this does *not* collapse F<x/./y> sections into F<y>. This is by design. If F<foo> on your system is a symlink to F<bar/baz>,


then F</foo/../quux> is actually F</bar/quux>, not F</quux> as a naïve F<../>-removal would give you. If you want to do this kind of processing, you probably want C<Cwd>‘s C<realpath()> function to actually traverse the filesystem cleaning up paths like this.

=item catdir
X<catdir>

Concatenate two or more directory names to form a complete path ending with a directory. But remove the trailing slash from the resulting string, because it doesn't look good, isn't necessary and confuses OS/2. Of course, if this is the root directory, don't cut off the trailing slash :)  

$path = File::Spec->catdir( @directories );

=item catfile
X<catfile>

Concatenate one or more directory names and a filename to form a complete path ending with a filename

$path = File::Spec->catfile( @directories, $filename );

=item curdir
X<curdir>

Returns a string representation of the current directory.

$curdir = File::Spec->curdir();

=item devnull
X<devnull>

Returns a string representation of the null device.

$devnull = File::Spec->devnull();

=item rootdir
X<rootdir>

Returns a string representation of the root directory.

$rootdir = File::Spec->rootdir();

=item tmpdir
X<tmpdir>
Returns a string representation of the first writable directory from a list of possible temporary directories. Returns the current directory if no writable temporary directories are found. The list of directories checked depends on the platform; e.g. File::Spec::Unix checks C<$ENV{TMPDIR}> (unless taint is on) and F</tmp>.

```
$tmpdir = File::Spec->tmpdir();
```

=item updir

X<updir>

Returns a string representation of the parent directory.

```
$updir = File::Spec->updir();
```

=item no_upwards

Given a list of files in a directory (such as from C<readdir()>), strip out C<.'>' and C<.'.'>.

B<SECURITY NOTE:> This does NOT filter paths containing C<.'.'>, like C<.'./././etc/passwd'>, only literal matches to C<.'>' and C<.'.'>.

```
@paths = File::Spec->no_upwards( readdir $dirhandle );
```

=item case_tolerant

Returns a true or false value indicating, respectively, that alphabetic case is not or is significant when comparing file specifications. Cygwin and Win32 accept an optional drive argument.

```
$case_tolerant = File::Spec->case_tolerant();
```

=item file_name_is_absolute

Takes as its argument a path, and returns true if it is an absolute path.

```
$case_tolerant = File::Spec->file_name_is_absolute( $path );
```

This does not consult the local filesystem on Unix, Win32, OS/2, or Mac OS (Classic). It does consult the working environment for VMS (see L<File::Spec::VMS/file_name_is_absolute>).

```
$path = File::Spec::VMS/file_name_is_absolute;
```

=Takes no argument. Returns the environment variable C<PATH> (or the local platform's equivalent) as a list.
@PATH = File::Spec->path();

=item join
X<join, path>

join is the same as catfile.

=item splitpath
X<splitpath> X<split, path>

Splits a path into volume, directory, and filename portions. On systems
without a concept of volume, returns "" for volume.

($volume,$directories,$file) =
    File::Spec->splitpath( $path );
($volume,$directories,$file) =
    File::Spec->splitpath( $path, $no_file );

For systems with no syntax differentiating filenames from directories,
assumes that the last file is a path unless C<$no_file> is true or a
trailing separator or F</> or F</.> is present. On Unix, this means that C<$no_file>
true makes this return ( "", $path, "" ).

The directory portion may or may not be returned with a trailing '/'.

The results can be passed to L</catpath()> to get back a path equivalent to
(usually identical to) the original path.

=item splitdir
X<splitdir> X<split, dir>

The opposite of L</catdir>.

@dirs = File::Spec->splitdir( $directories );

C<$directories> must be only the directory portion of the path on systems
that have the concept of a volume or that have path syntax that differentiates
files from directories.

Unlike just splitting the directories on the separator, empty
directory names (C<"">) can be returned, because these are significant
on some OSes.

=item catpath()

Takes volume, directory and file portions and returns an entire path. Under
Unix, C<$volume> is ignored, and directory and file are concatenated. A '/' is
inserted if need be. On other OSes, C<$volume> is significant.

$full_path = File::Spec->catpath( $volume, $directory, $file );

=item abs2rel

Takes a destination path and an optional base path returns a relative path from the base path to the destination path:

$rel_path = File::Spec->abs2rel( $path ) ;
$rel_path = File::Spec->abs2rel( $path, $base ) ;

If C<$base> is not present or "", then L<Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()> . This means that it is taken to be relative to L<Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C<$path> . Note that previous versions of this module ignored the volume of C<$base>, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the C<$base> filename as well. Otherwise all path components are assumed to be directories.

If C<$path> is relative, it is converted to absolute form using L</rel2abs()> . This means that it is taken to be relative to L<Cwd::cwd()>.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logica ls and macros are expanded.

Based on code written by Shigio Yamaguchi.

=item rel2abs()

Converts a relative path to an absolute path.

$abs_path = File::Spec->rel2abs( $path ) ;
$abs_path = File::Spec->rel2abs( $path, $base ) ;

If C<$base> is not present or "", then L<Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()> . This means that it is taken to be relative to L<Cwd::cwd()>.
On systems with the concept of volume, if \$path and \$base appear to be on two
different volumes, we will not attempt to resolve the two
paths, and we will instead simply return \$path. Note that previous
versions of this module ignored the volume of \$base, which resulted in
garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the
\$base filename as well. Otherwise all path components are assumed to be
directories.

If \$path is absolute, it is cleaned up and returned using \$<canonpath>.

No checks against the filesystem are made. On VMS, there is
interaction with the working environment, as logicals and
macros are expanded.

Based on code written by Shigio Yamaguchi.

=back

For further information, please see \$<File::Spec::Unix>,
\$<File::Spec::Mac>, \$<File::Spec::OS2>, \$<File::Spec::Win32>, or
\$<File::Spec::VMS>.

=head1 SEE ALSO

\$<File::Spec::Unix>, \$<File::Spec::Mac>, \$<File::Spec::OS2>,
\$<File::Spec::Win32>, \$<File::Spec::VMS>, \$<File::Spec::Functions>,
\$<ExtUtils::MakeMaker>

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modified by Barrie Slaymaker \$<barries@slaysys.com>>.
splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.
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---
abstract: 'Tools for working with directory and file names'
author:
- 'Perl 5 Porters'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: PathTools
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  File::Basename: '0'
  Scalar::Util: '0'
  Test::More: '0.88'
resources:
  bugtracker: https://rt.perl.org/rt3/
  homepage: http://dev.perl.org/
  repository: git://perl5.git.perl.org/perl.git
  version: '3.74'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec.pm

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=head1 SEE ALSO

L<File::Spec>

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=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...

=over 4

=item tmpdir

Modifies the list of places temp directory information is looked for.

    $ENV{TMPDIR}
    $ENV{TEMP}
    $ENV{TMP}
/tmp
/

=item splitpath

Volumes can be drive letters or UNC sharenames (\server\share).

=back

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=head1 AUTHORS

See the authors list in I<File::Spec>. Mac OS support by Paul Schinder <schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

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=head1 NAME

Cwd - get pathname of current working directory

=head1 SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

=head1 DESCRIPTION

This module provides functions for determining the pathname of the current working directory. It is recommended that getcwd (or another *cwd() function) be used in I<all> code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.

=head2 getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

=over 4

=item getcwd

my $cwd = getcwd();

Returns the current working directory. On error returns C<undef>, with C<$!> set to indicate the error.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

=item cwd

my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For most systems it is identical to `pwd` (but without the trailing line terminator).
A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can't
chdir() you back into. If fastcwd encounters a problem it will return
undef but will probably leave you in a different directory. For a
measure of extra security, if everything appears to have worked, the
fastcwd() function will check that it leaves you in the same directory
that it started in. If it has changed it will C<die> with the message
"Unstable directory path, current directory changed
unexpectedly". That should never happen.

The fastgetcwd() function is provided as a synonym for cwd().

The getdcwd() function is also provided on Win32 to get the current working
directory on the specified drive, since Windows maintains a separate current
working directory for each drive. If no drive is specified then the current
drive is assumed.

This function simply calls the Microsoft C library _getdcwd() function.

These functions are exported only on request. They each take a single
argument and return the absolute pathname for it. If no argument is
given they'll use the current working directory.
Uses the same algorithm as getcwd(). Symbolic links and relative-path components (".", and ".") are resolved to return the canonical pathname, just like realpath(3). On error returns \texttt{C<undef>}, with \texttt{C<$!> set to indicate the error.}

=item realpath

my $abs_path = realpath($file);

A synonym for abs_path().

=item fast_abs_path

my $abs_path = fast_abs_path($file);

A more dangerous, but potentially faster version of abs_path.

=back

=head2 $ENV{PWD}

If you ask to override your chdir() built-in function,

use Cwd qw(chdir);

then your PWD environment variable will be kept up to date. Note that it will only be kept up to date if all packages which use chdir import it from Cwd.

=head1 NOTES

=over 4

=item *

Since the path separators are different on some operating systems ("/" on Unix, ":" on MacPerl, etc...) we recommend you use the File::Spec modules wherever portability is a concern.

=item *

Actually, on Mac OS, the \texttt{C<getcwd()>}, \texttt{C<fastgetcwd()}> and \texttt{C<fastcwd()>} functions are all aliases for the \texttt{C<cwd()>} function, which, on Mac OS, calls `pwd`. Likewise, the \texttt{C<abs_path()>} function is an alias for \texttt{C<fast_abs_path()>}. 


AUTHOR

Originally by the perl5-porters.

Maintained by Ken Williams <KWILLIAMS@cpan.org>

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SEE ALSO

L<File::chdir>

Found in path(s):
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Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

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SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
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An explanation of VMS file specs can be found at

=cut

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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2. Support Services. StrongLoop has no obligation to provide any support for the Software other than the support services specifically described on the StrongLoop Site for the Subscription level procured by Customer. However, StrongLoop has endeavored to establish a community of users of the Software who have provided their own feedback, hints and advice regarding their experiences in using the Software. You can find that community and user feedback on the StrongLoop Site. The use of any information, content or other materials from, contained in or on the StrongLoop Site are subject to the StrongLoop website terms of use located here http://www.strongloop.com/terms-of-service.

3. Confidentiality. For purposes of this Agreement, "Confidential Information" means any and all information or proprietary materials (in every form and media) not generally known in the relevant trade or industry and which has been or is hereafter disclosed or made available by StrongLoop to Customer in connection with the transactions contemplated under this Agreement, including (i) all trade secrets, (ii) existing or contemplated Software, services, designs, technology, processes, technical data, engineering, techniques, methodologies and concepts and any related information, and (iii) information relating to business plans, sales or marketing methods and customer lists or requirements. For a period of five (5) years from the date of disclosure of the applicable Confidential Information, Customer shall (i) hold the Confidential Information in trust and confidence and avoid the disclosure or release thereof to any other person or entity by using the same degree of care as it uses to avoid unauthorized use, disclosure, or dissemination of its own Confidential Information of a similar nature, but not less than reasonable care, and (ii) not use the Confidential Information for any purpose whatsoever except as expressly contemplated under this Agreement; provided that, to the extent the Confidential Information constitutes a trade secret under law, Customer agrees to protect such information for so long as it qualifies as a trade secret under applicable law. Customer shall disclose the Confidential Information only to those of its employees and contractors having a need to know such Confidential Information and shall take all reasonable precautions to ensure that such employees and contractors comply with the provisions of this Section. The obligations of Customer under this Section shall not apply to information that Customer can demonstrate (i) was in its possession at the time of disclosure and without restriction as to confidentiality, (ii) at the time of disclosure is generally available to the public or after disclosure becomes generally available to the public through no breach of agreement or other wrongful act by Customer, (iii) has been received from a third party without restriction on disclosure and without breach of agreement by Customer, or (iv) is independently developed by Customer without regard to the Confidential Information. In addition, Customer may disclose Confidential Information as required to comply with binding orders of governmental entities that have jurisdiction over it; provided that Customer
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6.4 Allocation of Risk. The sections on limitation of liability and disclaimer of warranties allocate the risks in the Agreement between the parties. This allocation is an essential element of the basis of the bargain between the parties.

7. Term and Termination.

7.1 This Agreement shall commence on the Effective Date and continue for so long as Customer has a valid Subscription and is current on the payment of any Subscription Fees required to be paid for that Subscription (the "Subscription Term"). Either party may terminate this Agreement immediately upon written notice to the other party, and the Subscription and licenses granted hereunder automatically terminate upon the termination of this Agreement. This Agreement will terminate immediately without notice from StrongLoop if Customer fails to comply with or otherwise breaches any provision of this Agreement.

7.2 All Sections other than Section 1.1 (Subscriptions) and 1.2 (Licenses) shall survive the expiration or termination of this Agreement.

8. Subscription Fees and Payments. StrongLoop, Customer agrees to pay StrongLoop the Subscription Fees as described on the StrongLoop Site for the Subscription purchased unless a different amount has been agreed to in a separate agreement between Customer and StrongLoop. In addition, Customer shall pay all sales, use, value added, withholding, excise taxes and other tax, duty, custom and similar fees levied upon the delivery or use of the Software and the Subscriptions described in this Agreement. Fees shall be invoiced in full upon StrongLoop's acceptance of Customer's purchase order for the Subscription. All invoices shall be paid in US dollars and are due upon receipt and shall be paid within thirty (30) days. Payments shall be made without right of set-off or chargeback. If Customer does not pay the invoices when due, StrongLoop may
charge interest at one percent (1%) per month or the highest rate permitted by law, whichever is lower, on the unpaid balance from the original due date. If Customer fails to pay fees in accordance with this Section, StrongLoop may suspend fulfilling its obligations under this Agreement (including but not limited to suspending the services under the Subscription) until payment is received by StrongLoop. If any applicable law requires Customer to withhold amounts from any payments to StrongLoop under this Agreement, (a) Customer shall effect such withholding, remit such amounts to the appropriate taxing authorities and promptly furnish StrongLoop with tax receipts evidencing the payments of such amounts and (b) the sum payable by Customer upon which the deduction or withholding is based shall be increased to the extent necessary to ensure that, after such deduction or withholding, StrongLoop receives and retains, free from liability for such deduction or withholding, a net amount equal to the amount StrongLoop would have received and retained absent the required deduction or withholding.

9.1 Compliance with Laws. Customer shall abide by all local, state, federal and international laws, rules, regulations and orders applying to Customer's use of the Software, including, without limitation, the laws and regulations of the United States that may restrict the export and re-export of certain commodities and technical data of United States origin, including the Software. Customer agrees that it will not export or re-export the Software without the appropriate United States or foreign government licenses.

9.2 Entire Agreement. This Agreement constitutes the entire agreement between the parties concerning the subject matter hereof. This Agreement supersedes all prior or contemporaneous discussions, proposals and agreements between the parties relating to the subject matter hereof. No amendment, modification or waiver of any provision of this Agreement shall be effective unless in writing and signed by both parties. Any additional or different terms on any purchase orders issued by Customer to StrongLoop shall not be binding on either party, are hereby rejected by StrongLoop and void.

9.3 Severability. If any provision of this Agreement is held to be invalid or unenforceable, the remaining portions shall remain in full force and effect and such provision shall be enforced to the maximum extent possible so as to effect the intent of the parties and shall be reformed to the extent necessary to make such provision valid and enforceable.

9.4 Waiver. No waiver of rights by either party may be implied from any actions or failures to enforce rights under this Agreement.

9.5 Force Majeure. Neither party shall be liable to the other for any delay or failure to perform due to causes beyond its reasonable control (excluding payment of monies due).

9.6 No Third Party Beneficiaries. Unless otherwise specifically stated, the terms of this Agreement are intended to be and are solely for the benefit of StrongLoop and Customer and do not create any right in favor of any third party.

9.7 Governing Law and Jurisdiction. This Agreement shall be governed by the laws of the State of California, without reference to the principles of conflicts of law. The provisions of the Uniform Computerized Information Transaction Act and United Nations Convention on Contracts for the International
Sale of Goods shall not apply to this Agreement. The parties shall attempt to resolve any dispute related to this Agreement informally, initially through their respective management, and then by non-binding mediation in San Francisco County, California. Any litigation related to this Agreement shall be brought in the state or federal courts located in San Francisco County, California, and only in those courts and each party irrevocably waives any objections to such venue.

9.8 Notices. All notices must be in writing and shall be effective three (3) days after the date sent to the other party's headquarters, Attention Chief Financial Officer.

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* java.servlet:javax.servlet-api
* java.annotation:javax.annotation-api
* java.transaction:javax.transaction-api
* java.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache
The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.5175 pcre 10.36-2

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1.5189 jackson-jaxrs 1.8.6

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1.5190 p-map 1.2.0

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1.5191 denque 1.5.1
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1.5192 opentracing-api 0.33.0
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 * /opt/ws_local/PERMITS_SQL/1080728069_1597680153.23/0/opentracing-api-0-33-0-sources-1-jar/io/opentracing/ScopeManager.java
 * /opt/ws_local/PERMITS_SQL/1080728069_1597680153.23/0/opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/Format.java
 * /opt/ws_local/PERMITS_SQL/1080728069_1597680153.23/0/opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/BinaryAdapters.java
 * /opt/ws_local/PERMITS_SQL/1080728069_1597680153.23/0/opentracing-api-0-33-0-sources-1-
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1.5193 commons-validator 1.2.0

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/*
 * $Id: FormSet.java 293498 2005-10-04 02:59:43Z niallp $
 * $Rev: 293498 $
 * $Date: 2005-10-04 03:59:43 +0100 (Tue, 04 Oct 2005) $
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* /opt/cola/permits/1138553888_1614290842.05/0/commons-validator-1-2-0-sources-1-jar/org/apache/commons/validator/FormSet.java

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jar/org/apache/commons/validator/util/Flags.java
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/*
* $Id: ISBNValidator.java 280974 2005-09-15 00:06:59Z niallp $
* $Rev: 280974 $
* $Date: 2005-09-15 01:06:59 +0100 (Thu, 15 Sep 2005) $
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  jar/org/apache/commons/validator/ISBNValidator.java
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/*
* $Id: Var.java 289160 2005-09-15 05:48:33Z niallp $
* $Rev: 289160 $
* $Date: 2005-09-15 06:48:33 +0100 (Thu, 15 Sep 2005) $
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  jar/org/apache/commons/validator/Var.java
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* /opt/cola/permits/1138553888_1614290842.05/0/commons-validator-1-2-0-sources-1-
  jar/org/apache/commons/validator/EmailValidator.java
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/*
 * $Id: ValidatorResult.java 289168 2005-09-15 06:40:47Z niallp $
 * $Rev: 289168 $
 * $Date: 2005-09-15 07:40:47 +0100 (Thu, 15 Sep 2005) $
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/*
 * $Id: ValidatorAction.java 280974 2005-09-15 00:06:59Z niallp $
 * $Rev: 280974 $
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  jar/org/apache/commons/validator/ValidatorAction.java
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/*/ $Id: Arg.java 280974 2005-09-15 00:06:59Z niallp $
 * $Rev: 280974 $
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/*/ $Id: GenericTypeValidator.java 293556 2005-10-04 07:07:32Z niallp $
 * $Rev: 293556 $
 * $Date: 2005-10-04 08:07:32 +0100 (Tue, 04 Oct 2005) $
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  jar/org/apache/commons/validator/GenericTypeValidator.java
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/*
* $Id: GenericValidator.java 280974 2005-09-15 00:06:59Z niallp $
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  jar/org/apache/commons/validator/GenericValidator.java
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/*
* $Id: ValidatorUtils.java 280974 2005-09-15 00:06:59Z niallp $
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/ *
* $Id: Field.java 280974 2005-09-15 00:06:59Z niallp $ *
* $Rev: 280974 $ *
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/*
 * $Id: Msg.java 280974 2005-09-15 00:06:59Z niallp $
 * $Rev: 280974 $
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    jar/org/apache/commons/validator/Msg.java

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/*
 * $Id: ValidatorException.java 155434 2005-02-26 13:16:41Z dirkv $
 * $Rev: 155434 $
 * $Date: 2005-02-26 13:16:41 +0000 (Sat, 26 Feb 2005) $
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/*
* $Id: ValidatorResources.java 329836 2005-10-31 15:12:50Z niallp $
* $Rev: 329836 $
* $Date: 2005-10-31 15:12:50 +0000 (Mon, 31 Oct 2005) $
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* $Id: DateValidator.java 280974 2005-09-15 00:06:59Z niallp $
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* $Id: FormSetFactory.java 293498 2005-10-04 02:59:43Z niallp $
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/*
* $Id: UrlValidator.java 327148 2005-10-21 10:50:20Z niallp $
* $Rev: 327148 $
* $Date: 2005-10-21 11:50:20 +0100 (Fri, 21 Oct 2005) $
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jar/org/apache/commons/validator/UrlValidator.java

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jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-
jar/org/springframework/expression/spel/support/ReflectionHelper.java
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  jar/org/springframework/expression/spel/SpelMessage.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-
  jar/org/springframework/expression/PropertyAccessor.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-
  jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-
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  jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-
  jar/org/springframework/expression/MethodResolver.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-
  jar/org/springframework/expression/spel/standard/Tokenizer.java
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* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-
jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-
jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
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jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-
jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
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* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/ast/OpGT.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/SpelNode.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/ast/Ternary.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/ExpressionParser.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/ast/Elvis.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/ast/Assign.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/ast/NullLiteral.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/ast/OperatorMatches.java

Found in path(s):
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/ast/FormatHelper.java
* /opt/cola/permits/1151704721_1617966316.89/0/spring-expression-3-2-18-release-sources-3-jar/org/springframework/expression/spel/ast/OpInc.java
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5.12.153

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1.5202 kerberos 1.19.2-r4

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.5204 wso2-carbon-application-deployer

4.4.35

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  [http://www.bouncycastle.org/licence.html](http://www.bouncycastle.org/licence.html)

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* /opt/cola/permits/1208967441_1632975999.51/0/netty-transport-native-unix-common-4-1-68-final-sources.jar/io/netty/channel/unix/IovArray.java
* /opt/cola/permits/1208967441_1632975999.51/0/netty-transport-native-unix-common-4-1-68-final-sources.jar/io/netty/channel/unix/UnixChannelOption.java
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* /opt/cola/permits/1208967441_1632975999.51/0/netty-transport-native-unix-common-4-1-68-final-sources-
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  jar/io/netty/channel/unix/Socket.java
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  jar/netty_unix_errors.h
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* /opt/cola/permits/1208967441_1632975999.51/0/netty-transport-native-unix-common-4-1-68-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1208967441_1632975999.51/0/netty-transport-native-unix-common-4-1-68-final-sources-jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1208967441_1632975999.51/0/netty-transport-native-unix-common-4-1-68-final-sources-jar/io/netty/channel/unix/FileDescriptor.java

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* /opt/cola/permits/1208967441_1632975999.51/0/netty-transport-native-unix-common-4-1-68-final-sources-jar/netty_unix_limits.c
* /opt/cola/permits/1208967441_1632975999.51/0/netty-transport-native-unix-common-4-1-68-final-sources-jar/netty_unix_util.h
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* /opt/cola/permits/1208967441_1632975999.51/0/netty-transport-native-unix-common-4-1-68-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
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jar/netty_unix_util.c
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1.5234 jetty-http 9.2.22.v20170606

1.5235 SPDX-License-IDs 3.0.5

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```
root = true

[*]
charset = utf-8
end_of_line = lf
indent_style = tab
tab_width = 2
insert_final_newline = true
trim_trailing_whitespace = true

[*.md,yml]
indent_style = space

[*.md]
trim_trailing_whitespace = false
workflow "Test" {
    on = "push"
    resolves = ["npm"]
}

action "npm" {
    uses = "shinnn/actions-npm-alpine@1.0.0"
    args = "install-ci-test"
}
* text=auto
# SPDX-License-IDs
```
A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```sh
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### `require('spdx-license-ids')`

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```

### `require('spdx-license-ids/deprecated')`

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
deprecatedIds.includes('GPL-3.0'); //=> true
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[*.workflow]

indent_style = space

---

**1.5236 python-dateutil 2.7.3-1.ph3**

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1.5238 gcfg v1.2.3

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1.5239 inflight 1.0.6

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1.5240 mixin-deep 1.3.2

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1.5241 jetty-io 9.4.31.v20200723

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.5242 xerces-impl 2.8.1.wso2v2

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If distribution of object code is made by offering access to copy
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threshold for this to be true is not precisely defined by law.

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1.5253 wso2-carbon-event-input-adapter
soap 5.1.42

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1.5257 ns-tracker 0.2.2

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# ns-tracker


ns-tracker is a Clojure library for keeping track of changes to source files and their associated namespaces. This is usually used to automatically reload modified namespaces in a running Clojure application.

It is derived from code in Stuart Sierra's [Lazytest][1] tool, and the credit for writing the vast majority of the code used in this library should therefore go to him.

[1]: https://github.com/stuartsierra/lazytest

## Installation
As usual, to use this library, add the following dependency to your `project.clj` file:

[nst-tracker "0.2.2"]

## Usage

Use the `ns-tracker.core/ns-tracker` function to create a new tracker function for one or more source directories:

(use 'ns-tracker.core)

(def modified-namespaces
  (ns-tracker ["src" "test"]))

When you call the `modified-namespaces` function, it will return a list of Clojure namespaces that have changed. You can then reload them on the fly:

(doseq [ns-sym (modified-namespaces)]
  (require ns-sym :reload))

This can be placed in a background thread, or triggered by some user request.

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1.5260 pcre 10.32 2.el8

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package api

import (
type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"

    // List of features enabled by the license
    Features []string `json:"features"
}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}
func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

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 */

package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"
    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
    XMLNS   string `xml:"xmlns,attr,omitempty"`
    XMLName xml.Name `xml:"LegalHold"`
    Status  LegalHoldStatus `xml:"Status,omitempty"
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status   *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call

type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \"%v\"", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {

return err
}

if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
deferr closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil
// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:   bucketName,
        objectName:   objectName,
        queryValues:  urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }
    lh := &objectLegalHold{
        if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
            return nil, err
        }
        return &lh.Status, nil
    }

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package spec

import (  "encoding/json"  "github.com/go-openapi/swag"
)

// License information for the exposed API.
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL   string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return nil
}
result = nil
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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1.5267 @babel/plugin-transform-react-jsx-source 7.18.6

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1.5268 github.com/grafana/loki 2.4.2
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1.5273 wso2-carbon-addressing 4.4.35

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1.5275 objenesis 3.2

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.5277 go-redis-redis v8.11.4
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1.5279 wso2-carbon-event-output-adapter-kafka 5.1.42

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1.5280 daemon-tools 0.76-7

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/* sysdep: -sigaction */

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgact.h1
No license file was found, but licenses were detected in source scan.

/* Public domain. */

/* sysdep: +mkfifo */
#define HASMKFIFO 1

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasmkffo.h2
No license file was found, but licenses were detected in source scan.

/* Public domain. */

/* sysdep: +waitpid */
#define HASWAITPID 1

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/haswaitp.h2
No license file was found, but licenses were detected in source scan.

/* Public domain. */

#ifdef UINT64_H
#define UINT64_H

/* sysdep: -ulong64 */

typedef unsigned long long uint64;

#endif

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/uint64.h1
No license file was found, but licenses were detected in source scan.

/* Public domain. */

/* sysdep: +shortsetgroups */
#define HASSHORTSETGROUPS 1

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hashsgr.h2
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/* Public domain. */

/* sysdep: -waitpid */

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/haswaitp.h1
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/* Public domain. */
#ifndef UINT64_H
#define UINT64_H

/* sysdep: +ulong64 */

typedef unsigned long uint64;

#endif

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/uint64.h2
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/* Public domain. */

/* sysdep: -flock */

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasflock.h1
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/* Public domain. */

/* sysdep: -sigprocmask */

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgprm.h1
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/* Public domain. */

/* sysdep: +flock */
#define HASFLOCK 1

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasflock.h2
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/* Public domain. */

/* sysdep: -shortsetgroups */

Found in path(s):
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/* Public domain. */

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasshsgr.h
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig_pause.c
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/strerr.h
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_pend.c
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0.76/src/pathexec_env.c
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/fifo.h
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0.76/src/fmt_ulong.c
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/alloc.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/sig.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/taia_approx.c
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/str_chr.c
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/buffer_2.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/subgetopt.c
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/taia_sub.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/iopause.h2
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/fmt_uint.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/subgetopt.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/byte_chr.c
/* Public domain. */
/* sysdep: -mkfifo */

Found in path(s):
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/hasmkfifo.h1
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/* sysdep: +sigprocmask */
#define HASSIGPROCMASK 1

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/* sysdep: +sigaction */
#define HASSIGACTION 1

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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/hasgact.h2

1.5281 object.pick 1.3.0

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1.5282 liblapack 3.8.0-2

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1.5283 maven-toolchain 2.2.1
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signal-exit 3.0.3 - ISC
https://github.com/tapjs/signal-exit

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cross-spawn 7.0.3 - MIT
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strip-final-newline 2.0.0 - MIT
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ws 8.5.0 - MIT
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280.mdn-data version 1.1.12 (https://github.com/mdn/data)
281. mdurl version 1.0.1 (https://github.com/markdown-it/mdurl)
282. merge-stream version 2.0.0 (https://github.com/grncdr/merge-stream)
283. micromatch version 4.0.2 (https://github.com/micromatch/micromatch)
284. micromatch version 4.0.5 (https://github.com/micromatch/micromatch)
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286. microsoft/vscode-JSON.tmLanguage (https://github.com/microsoft/vscode-JSON.tmLanguage)
287. microsoft/vscode-markdown-tm-grammar version 1.0.0 (https://github.com/microsoft/vscode-markdown-tm-grammar)
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291. mimic-response version 3.1.0 (https://github.com/sindresorhus/mimic-response)
292. minimatch version 3.0.4 (https://github.com/isaacs/minimatch)
293. minimist version 1.2.6 (https://github.com/substack/minimist)
294. mkdirp version 0.5.5 (https://github.com/substack/node-mkdirp)
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298. mrhoooray/crc-rs version 1.7.0 (https://github.com/mrhoooray/crc-rs)
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304. napi-build-utils version 1.0.2 (https://github.com/inspiredware/napi-build-utils)
305. native-is-elevated version 0.4.3 (https://github.com/arkon/native-is-elevated)
306. native-keymap version 3.3.0 (https://github.com/Microsoft/node-native-keymap)
307. native-watchdog version 1.4.0 (https://github.com/Microsoft/node-native-watchdog)
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314. node-fetch version 2.6.7 (https://github.com/node-fetch/node-fetch)
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316. node-pty version 0.11.0-beta11 (https://github.com/ms/node-pty)
317. nodejs version 16.13.2 (https://github.com/nodejs/node)
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325. onetime version 1.4.0 (https://github.com/isaacs/onetime)
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361. pump version 3.0.0 (https://github.com/mafintosh/pump)
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375. reem/rust-void version 1.0.2 (https://github.com/reem/rust-void)
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439. strip-ansi version 4.0.0 (https://github.com/chalk/strip-ansi)
440. strip-bom version 3.0.0 (https://github.com/sindresorhus/strip-bom)
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446. tar-fs version 2.1.1 (https://github.com/mafintosh/tar-fs)
447. tar-stream version 2.2.0 (https://github.com/mafintosh/tar-stream)
448. tas-client version 0.1.40 ()
449. tas-client version 0.1.45 ()
450. tas-client-umd version 0.1.6 ()
451. textmate/asp.vb.net.tmbundle (https://github.com/textmate/asp.vb.net.tmbundle)
452. textmate/c.tmbundle (https://github.com/textmate/c.tmbundle)
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468. to-regexp-range version 5.0.1 (https://github.com/micromatch/to-regexp-range)
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488. vitiral/build_const version 0.2.0 (https://github.com/vitiral/build_const)
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530. wide-align version 1.1.3 (https://github.com/iarna/wide-align)
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532. windows-mutex version 0.4.1 (https://github.com/Microsoft/node-windows-mutex)
533. windows-process-tree version 0.3.3 (https://github.com/Microsoft/vscode-windows-process-tree)
534. wrappy version 1.0.2 (https://github.com/npm/wrappy)
535. ws version 7.4.6 (https://github.com/websockets/ws)
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538. xtend version 4.0.2 (https://github.com/Raynos/xtend)
539. xterm version 4.19.0-beta.67 (https://github.com/xtermjs/xterm.js)
540. xterm-addon-search version 0.9.0-beta.41 (https://github.com/xtermjs/xterm.js)
541. xterm-addon-serialize version 0.7.0-beta.15 (https://github.com/xtermjs/xterm.js)
542. xterm-addon-unicode11 version 0.4.0-beta.3 (https://github.com/xtermjs/xterm.js)
543. xterm-addon-webgl version 0.12.0-beta.43 (https://github.com/xtermjs/xterm.js)
545. yallist version 2.1.2 (https://github.com/isaacs/yallist)
546. yallist version 4.0.0 (https://github.com/isaacs/yallist)
547. yazl version 2.10.0 (https://github.com/thejoshwolfe/yazl)
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Glob matching is based on code from https://github.com/fitzgen/glob-to-regexp

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fs.realpath 1.0.0 - ISC
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lru-cache 4.1.5 - ISC
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minimatch 3.0.4 - ISC
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remove-trailing-separator 1.1.0 - ISC
https://github.com/darsain/remove-trailing-separator#readme

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semver 5.7.0 - ISC
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signal-exit 3.0.3 - ISC
https://github.com/tapjs/signal-exit

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split2 4.1.0 - ISC
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which 1.3.1 - ISC
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@c4312/chromehash 0.3.0 - MIT
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array-unique 0.3.2 - MIT
https://github.com/jonschlinkert/array-unique

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arr-flatten 1.1.0 - MIT
https://github.com/jonschlinkert/arr-flatten

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astring 1.8.1 - MIT
https://github.com/davidbonnet/astring#readme

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axios 0.26.1 - MIT
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balanced-match 1.0.0 - MIT
https://github.com/juliangruber/balanced-match

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base 0.11.2 - MIT
https://github.com/node-base/base

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bplist-parser 0.1.1 - MIT
https://github.com/nearinfinity/node-bplist-parser#readme

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brace-expansion 1.1.11 - MIT
https://github.com/juliangruber/brace-expansion

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braces 2.3.2 - MIT
https://github.com/micromatch/braces

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BUFFER-FROM 1.1.1 - MIT
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class-utils 0.3.6 - MIT
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color 4.2.1 - MIT
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color-name 1.1.3 - MIT
https://github.com/dfcreative/color-name

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https://github.com/colorjs/color-name

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color-string 1.9.0 - MIT
https://github.com/Qix-/color-string#readme

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copy-descriptor 0.1.1 - MIT
https://github.com/jonschlinkert/copy-descriptor

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core-util-is 1.0.2 - MIT
https://github.com/isaacs/core-util-is#readme

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cross-spawn 6.0.5 - MIT
https://github.com/moxystudio/node-cross-spawn

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cross-spawn-async 2.2.5 - MIT
https://github.com/IndigoUnited/node-cross-spawn-async#readme

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data-uri-to-buffer 3.0.1 - MIT
https://github.com/TooTallNate/node-data-uri-to-buffer

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debug 2.6.9 - MIT
https://github.com/visionmedia/debug#readme

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debug 4.3.3 - MIT
https://github.com/debug-js/debug#readme

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decode-uri-component 0.2.0 - MIT
https://github.com/samverschueren/decode-uri-component#readme

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decompress-response 6.0.0 - MIT
https://github.com/sindresorhus/decompress-response#readme

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default-browser 2.0.1 - MIT
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defer-to-connect 2.0.1 - MIT
https://github.com/szmarczak/defer-to-connect#readme

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define-property 0.2.5 - MIT
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define-property 1.0.0 - MIT
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duplexify 3.7.1 - MIT
https://github.com/mafintosh/duplexify

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execa 0.2.2 - MIT
https://github.com/sindresorhus/execa

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find-up 1.1.2 - MIT
https://github.com/sindresorhus/find-up

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get-stream 5.2.0 - MIT
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get-value 2.0.6 - MIT
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is-accessor-descriptor 0.1.6 - MIT
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is-buffer 1.1.6 - MIT
https://github.com/feross/is-buffer#readme

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is-descriptor 0.1.6 - MIT
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is-number 3.0.0 - MIT
https://github.com/jonschlinkert/is-number

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json-buffer 3.0.1 - MIT
https://github.com/dominictarr/json-buffer

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jsonc-parser 3.0.0 - MIT
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json-parse-better-errors 1.0.2 - MIT
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https://github.com/sindresorhus/load-json-file

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https://github.com/jonschlinkert/object-copy

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pascalcase 0.1.1 - MIT
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resolve-url 0.2.1 - MIT
https://github.com/lydell/resolve-url

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responselike 2.0.0 - MIT
https://github.com/lukechilds/responselike#readme

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run-applescript 2.1.0 - MIT
https://github.com/sindresorhus/run-applescript

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safe-buffer 5.1.2 - MIT
https://github.com/feross/safe-buffer

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https://github.com/substack/safe-regex

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https://github.com/kevva/shebang-command#readme

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simple-swizzle 0.2.2 - MIT
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snapdragon 0.8.2 - MIT
https://github.com/jonschlinkert/snapdragon

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snapdragon-node 2.1.1 - MIT
https://github.com/jonschlinkert/snapdragon-node

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snapdragon-util 3.0.1 - MIT
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source-map-resolve 0.5.2 - MIT
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source-map-support 0.5.21 - MIT
https://github.com/evanw/node-source-map-support#readme

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stream-shift 1.0.0 - MIT
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string_decoder 1.1.1 - MIT
https://github.com/nodejs/string_decoder

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through2-filter 3.0.0 - MIT
https://github.com/brycebaril/through2-filter#readme

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=to-absolute-glob 2.0.2 - MIT
https://github.com/jonschlinkert/to-absolute-glob

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to-object-path 0.3.0 - MIT
https://github.com/jonschlinkert/to-object-path

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to-regex 3.0.2 - MIT
https://github.com/jonschlinkert/to-regex

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to-regex-range 2.1.1 - MIT
https://github.com/micromatch/to-regex-range

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to-regex-range 5.0.1 - MIT
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tr46 1.0.1 - MIT
https://github.com/sebmaster/tr46.js#readme

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unc-path-regex 0.1.2 - MIT
https://github.com/regexhq/unc-path-regex

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union-value 1.0.1 - MIT
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https://github.com/jsdom/whatwg-url#readme

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ws 8.5.0 - MIT
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to-queue 0.1.0 - MIT
https://github.com/sindresorhus/to-queue#readme

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big-integer 1.6.48 - Unlicense
https://github.com/peterolson/BigInteger.js#readme

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https://github.com/gka/chroma.js

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chroma.js - JavaScript library for color conversions

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node-fetch 2.6.7 - MIT
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vscode-webview-tools 0.1.1 - MIT
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Version 3.0, 18 August 2009

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/**
* Returns an array of all the tag types inside which the parser ignores all non-{@linkplain #isServerTag() server} tags
  * in `<a href="Source.html#ParseOnDemand">parse on demand</a>` mode.
  * `<br /></a>` implementation assistance</a> method
  * `<p>
  * The tag types returned by this property (referred to in the following paragraphs as the "listed types") default to
  * `{@link StartTagType#COMMENT} and {@link StartTagType#CDATA_SECTION}.
  * `<p>
  * This property is used by the default implementation of the `{@link #isValidPosition(Source, int pos, int[]
  fullSequentialParseData) isValidPosition} method
  * in `<a href="Source.html#ParseOnDemand">parse on demand</a>` mode.
  * It is not used at all during a `{@link Source#fullSequentialParse() full sequential parse}.`
  * `<p>
  * In the default implementation of the `{@link #isValidPosition(Source, int pos, int[] fullSequentialParseData)
  isValidPosition} method,
  * in `<a href="Source.html#ParseOnDemand">parse on demand</a>` mode,
  * every new non-server tag found by the parser (referred to as a "new tag") undergoes a check to see whether it is
  * enclosed
  * by a tag of one of the listed types.
  * This includes new tags of the listed types themselves if they are non-server tags.
  * The recursive nature of this check means that `<i>` tags of the listed types occurring before the new tag must
  be found
  * by the parser before it can determine whether the new tag should be ignored.
  * To mitigate any performance issues arising from this process, the listed types are given special treatment in the
  tag cache.
  * This dramatically decreases the time taken to search on these tag types, so adding a tag type to this array that
  is easily recognised and occurs infrequently only results in a small degradation in overall performance.
  * `<p>
  * A special exception to the algorithm described above applies to `{@link StartTagType#COMMENT COMMENT} tags.
  * The default implementation of the `{@link #isValidPosition(Source, int, int[]) isValidPosition} method
  * does not check whether a `{@link StartTagType#COMMENT COMMENT} tag is inside another `{@link
  StartTagType#COMMENT COMMENT} tag,
  * as this should never happen in a syntactically correct document (the characters ‘<code>--</code>’ should not
  occur inside a comment).
  * Skipping this check also avoids the need to recursively check every `{@link StartTagType#COMMENT
  COMMENT} tag back to the start of the document,
  * which has the potential to cause a stack overflow in a large document containing lots of comments.
  * `<p>
  * Theoretically, non-server tags appearing inside any other tag should be ignored, which is how the parser behaves
  during a
  * `{@link Source#fullSequentialParse() full sequential parse}.`
  * `<p>
  * Server tags in particular very often contain other "tags" that should not be recognised as tags by the parser.
  * If this behaviour is required in `<a href="Source.html#ParseOnDemand">parse on demand</a>` mode, the tag type of
  each server tag that might be found
  * in the source documents can be added to this property using the static `{@link
  #setTagTypesIgnoringEnclosedMarkup(TagType[]}) method.
* For example, the following command would prevent non-server tags from being recognised inside {@linkplain PHPTagTypes#PHP_STANDARD standard PHP} tags,
* as well as the default {@linkplain StartTagType#COMMENT comment} and {@linkplain StartTagType#CDATA_SECTION CDATA section} tags:
  *
  * `<p>
    * `<blockquote><code>TagType.setTagTypesIgnoringEnclosedMarkup(new TagType[
      PHPTagTypes.PHP_STANDARD, StartTagType.COMMENT,
      StartTagType.CDATA_SECTION]);</code>`
    * `<p>
  *
  * The only situation where a non-server tag can legitimately contain a sequence of characters that resembles a tag is
  * within an attribute value.
  * The [HTML 4.01 specification section 5.3.2](http://www.w3.org/TR/html401/charset.html#h-5.3.2) specifically allows the presence of `<code>&lt;</code>` and `<code>&gt;</code>` characters within attribute values.
  * A common occurrence of this is in `<a target="_blank" href="http://www.w3.org/TR/html401/interact/scripts.html#events">event</a>` attributes containing scripts,
  * such as the `<code><a target="_blank" href="http://www.w3.org/TR/html401/interact/scripts.html#adef-onclick">onclick</a></code>` attribute.
  *
  * There is no way of preventing such "tags" from being recognised in `<a href="Source.html#ParseOnDemand">parse on demand</a>` mode, as adding
    * `[@link StartTagType#NORMAL]` to this property as a listed type would be far too inefficient.
    * Performing a `[@link Source#fullSequentialParse] full sequential parse` of the source document prevents
      these attribute values from being
    * recognised as tags, but can be very expensive if only a few tags in the document need to be parsed.
    * The penalty of not parsing every tag in the document is that the exactness of this check is compromised, but in
      practical terms the difference is inconsequential.
    * The default listed types of `[@link StartTagType#COMMENT comments]` and `[@link StartTagType#CDATA_SECTION CDATA sections]` yields sensible results
      in the vast majority of practical applications with only a minor impact on performance.
  *
  * `<p>
    * In `<a target="_blank" href="http://www.w3.org/TR/xhtml1/">XHTML</a>` character values as `[@link CharacterReference character references]`.
    * (see the [XML 1.0 specification section](http://www.w3.org/TR/REC-xml#CleanAttrVals) 3.1),
    * so the situation should never arise that a tag is found inside another tag unless one of them is a
      `[@link #isServerTag] server tag`.
    * `return an array of all the tag types inside which the parser ignores all non-[@link #isServerTag] server tags`.
    * */

Found in path(s):
* /opt/cola/permits/1364266023_1657867296.0647151/0/jericho-html-3-2-sources-2-jar/net/htmlparser/jericho/TagType.java

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/**
* <h3>Jericho HTML Parser 3.2</h3>
* <p>
* A java library allowing analysis and manipulation of parts of an HTML document, including server-side tags,
* while reproducing verbatim any unrecognised or invalid HTML.
* Also provides high-level HTML form manipulation functions.
* <p>
* For an introduction to the API, the documentation of the [@link net.htmlparser.jericho.Source] class is the best
* place to start.
* <p>
* For a summary of features and sample applications, visit the homepage at
* <p>
* For downloads, support and updates visit the SourceForge.net project page at
* <p>
* The Jericho HTML Parser is an open source library released under both the
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*/

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* /opt/cola/permits/1364266023_1657867296.0647151/0/jericho-html-3-2-sources-2-jar/net/htmlparser/jericho/EndTagType.java
* /opt/cola/permits/1364266023_1657867296.0647151/0/jericho-html-3-2-sources-2-jar/net/htmlparser/jericho/LoggerProviderJava.java
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* /opt/cola/permits/1364266023_1657867296.0647151/0/jericho-html-3-2-sources-2-jar/net/htmlparser/jericho/Attribute.java
* /opt/cola/permits/1364266023_1657867296.0647151/0/jericho-html-3-2-sources-2-jar/net/htmlparser/jericho/EndTagTypeMasonNamedBlock.java
* /opt/cola/permits/1364266023_1657867296.0647151/0/jericho-html-3-2-sources-2-
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Java files:
- ParseText.java
- FormControl.java
- StringOutputSegment.java
- Attributes.java
- CharacterEntityReference.java
- IntStringHashMap.java
- PHPTagTypes.java
- StartTag.java
- StartTagTypeComment.java
- SubCache.java
- LoggerProviderDisabled.java
- StartTagTypeCDATASection.java
- StartTagTypeMicrosoftDownlevelHiddenConditionalCommentIf.java
- StartTagTypeMicrosoftDownlevelHiddenConditionalCommentEndif.java
- StartTagTypeUnregistered.java
- OutputSegmentComparator.java
- RendererCSS.java
- StartTagTypeNormal.java
- StartTagTypePHPShort.java
- StartTagTypeUnregistered.java
- StartTagTypeMicrosoftDownlevelHiddenConditionalCommentEndif.java
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.5315 @babel/plugin-proposal-unicode-property-regex 7.18.6

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6.4.50

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1.5322 gophercloud 0.9.0
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package RESOURCE

import (  
"github.com/gophercloud/gophercloud"
// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
  gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
  commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
  commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
determine if the request succeeded or failed.
type DeleteResult struct {
  gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
  commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
  pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
  resources, err := ExtractResources(r)
  return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {

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Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we’re very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever “dumb” or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:
- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.
The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works...
as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
b. Code Formatting checks

c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure
about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (  
  "fmt"  
  "net/http"  
  "testing"  
  
  "github.com/gophercloud/gophercloud/openstack/service/vN/resources"  
  th "github.com/gophercloud/gophercloud/testhelper"  
  "github.com/gophercloud/gophercloud/testhelper/client"  
)
```
// ListResult provides a single page of RESOURCE results.
const ListResult = '```
{
}
```

// GetResult provides a Get result.
const GetResult = '```
{
}
```

// CreateRequest provides the input to a Create request.
const CreateRequest = '```
{
}
```

// UpdateRequest provides the input to as Update request.
const UpdateRequest = '```
{
}
```

// UpdateResult provides an update result.
const UpdateResult = '```
{
}
```

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
  th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
  })
}
// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PUT")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)

        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}
// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}
// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}
// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}
// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}
// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (  
    "testing"
    
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
}
th.AssertEquals(t, count, 1)

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}
func TestUpdateResource(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleUpdateResourceSuccessfully(t)

  updateOpts := resources.UpdateOpts{
    Description: "Staging Resource",
  }

  actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
  th.AssertNoErr(t, err)
  th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
  return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
  return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
  return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
  return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
  return client.ServiceURL("resource", id)
}

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Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

/*

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE
Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE

Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you
The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want you to put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:
There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links are required for PRs and that will be covered in detail in a later step of this tutorial.
### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

====================

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621).

In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID         string `json:"id"`
    Name       string `json:"name"`
    AdminStateUp bool  `json:"admin_state_up"`
    Status     string `json:"status"`
    Subnets    []string `json:"subnets"`
    TenantID   string `json:"tenant_id"`
    Shared     bool   `json:"shared"`
}
```

... to look like

```go
type Network struct {
    ID         string `json:"id"`
    Name       string `json:"name"`
    AdminStateUp bool   `json:"admin_state_up"`
}`
Status string `json:"status"`
Subnets []string `json:"subnets"`
TenantID string `json:"tenant_id"`
Shared bool `json:"shared"

AvailabilityZoneHints []string `json:"availability_zone_hints"
}
"

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).
However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:
OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).
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## xwd v1.0.7

### xwd utility

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list.h, multiVis.h, wsutils.h, list.c, multiVis.c

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 *
 * @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2009
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jar/org/owasp/esapi/waf/rules/ReplaceContentRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/GeneralAttackSignatureRule.java
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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author kevin.w.wall@gmail.com
 * @created 2007
 */
/**
 * Encrypts the provided plaintext and returns a ciphertext string using the
 * master secret key and default cipher transformation.
 */
<p>
* <b>Compatibility with earlier ESAPI versions:</b> The symmetric encryption
* in ESAPI 2.0 and later is not compatible with the encryption in ESAPI 1.4
* or earlier. Not only are the interfaces slightly different, but they format
* of the serialized encrypted data is incompatible. Therefore, if you have
* encrypted data with ESAPI 1.4 or earlier, you must first encrypt it and
* then re-encrypt it with ESAPI 2.0. Backward compatibility with ESAPI 1.4
* was proposed to both the ESAPI Developers and ESAPI Users mailing lists
* and voted down. More details are available in the ESAPI document
* Why this method is deprecated:

Most cryptographers strongly suggest
* that if you are creating crypto functionality for general-purpose use,
* at a minimum you should ensure that it provides authenticity, integrity,
* and confidentiality. This method only provides confidentiality, but not
* authenticity or integrity. Therefore, you are encouraged to use
* one of the other encryption methods referenced below. Because this
* method provides neither authenticity nor integrity, it may be
* removed in some future ESAPI Java release. Note: there are some cases
* where authenticity / integrity are not that important. For instance, consider
* a case where the encrypted data is never out of your application's control. For
* example, if you receive data that your application is encrypting itself and then
* storing the encrypted data in its own database for later use (and no other
* applications can query or update that column of the database), providing
* confidentiality alone might be sufficient. However, if there are cases
* where your application will be sending or receiving already encrypted data
* over an insecure, unauthenticated channel, in such cases authenticity and
* integrity of the encrypted data likely is important and this method should
* be avoided in favor of one of the other two.

* @param plaintext
  * the plaintext {@code String} to encrypt. Note that if you are encrypting
  * general bytes, you should encrypt that byte array to a String using
  * "UTF-8" encoding.
  *
  * @return
  * the encrypted, base64-encoded String representation of 'plaintext' plus
  * the random IV used.
  *
  * @throws EncryptionException
  * if the specified encryption algorithm could not be found or another problem exists with
  * the encryption of 'plaintext'
  *
  * @see #encrypt(PlainText)
  * @see #encrypt(SecretKey, PlainText)
  *
  * @deprecated As of 1.4.2; use {@link #encrypt(PlainText)} instead, which
  * also ensures message authenticity. This method will be
  * completely removed as of the next major release or point
  * release (3.0 or 2.1, whichever comes first) as per OWASP
  * deprecation policy.
  */
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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */

/**
 * An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack
 * in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by
 * either specially logging the event, logging out the current user, or invalidating the current user's account.
 * <P>
 * Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from
 * anywhere and will not require a lot of special exception handling.
 *
 * @author Jeff Williams (jeff.williams@aspectsecurity.com)
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/IntrusionException.java

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 * @author Patrick Higgins
 * @created 2010
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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the {@code keyDerivationKey} for either
 * encryption / decryption or for authentication.
 * <p>
 * <b>CAUTION:</b> If this algorithm for computing derived keys from the
 * key derivation key is ever changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 * of this method. Therefore, do not change this unless you are 100% certain that
 * what you are doing will NOT change either of the derived keys for
 * ANY "key derivation key" AT ALL!!!
 * <p>
 * <b>NOTE:</b> This method is generally not intended to be called separately.
 * It is used by ESAPI's reference crypto implementation class {@code JavaEncryptor}
 * and might be useful for someone implementing their own replacement class, but
 * generally it is not something that is useful to application client code.
 * <p>
 * @param keyDerivationKey  A key used as an input to a key derivation function
 *                          to derive other keys. This is the key that generally
 *                          is created using some key generation mechanism such as
 *                          {@link #generateSecretKey(String, int)}. The
 *                          "input" key from which the other keys are derived.
 * @param keySize	The cipher's key size (in bits) for the {code keyDerivationKey}.
 *              Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
 * @param purpose	The purpose for the derived key. Must be either the
 *              string "encryption" or "authenticity". Use "encryption" for
 *              creating a derived key to use for confidentiality, and "authenticity"
 *              for a derived key to use with a MAC to ensure message authenticity.
 * @return	The derived {code SecretKey} to be used according
 *          to the specified purpose. Note that this serves the same purpose
 *          as "label" in section 5.1 of NIST SP 800-108.
 * @throws NoSuchAlgorithmException	The {code keyDerivationKey} has an unsupported
 * encryption algorithm or no current JCE provider supports
 * "HmacSHA1".
 * @throws EncryptionExceptionIf "UTF-8" is not supported as an encoding, then
 * this is thrown with the original {code UnsupportedEncodingException}
 * as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
 * be a common encoding supported by all Java implementations. Support
 * for it is usually in rt.jar.)
 * @throws InvalidKeyException Likely indicates a coding error. Should not happen.

* @throws EncryptionException Throw for some precondition violations.
* @deprecated Use {@code KeyDerivationFunction} instead. This method will be removed as of
* ESAPI release 2.1 so if you are using this, please change your code.
*/

/**
* Return true if specified cipher mode is one of those specified in the
* {@code ESAPI.properties} file that supports both confidentiality
* and authenticity (i.e., a "combined cipher mode" as NIST refers
to it).
* @param cipherMode The specified cipher mode to be used for the encryption
* or decryption operation.
* @return true if the specified cipher mode is in the comma-separated list
* of cipher modes supporting both confidentiality and authenticity;
* otherwise false.
* @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
*/

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* @created 2007
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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/CSSCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationAvailabilityException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/HTMLValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationHostException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/PercentCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/PercentCodec.java
jar/org/owasp/esapi/codecs/MySQLCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/WindowsCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/StringUtilities.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Encoder.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AvailabilityException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/BaseValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/PushbackString.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/IntegerValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultRandomizer.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/DateValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/NumberValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/User.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/AccessReferenceMap.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/IntrusionDetector.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/RequestRateThrottleFilter.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ExecutorException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/SecurityWrapper.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/JavaScriptCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Authenticator.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultUser.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AccessControlException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EncodingException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/Codec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/HTMLEntityCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/VBScriptCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/EncryptedProperties.java

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  jar/org/owasp/esapi/errors/EncryptionRuntimeException.java
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  jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created February 6, 2009
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jim Manico (jim@manico.net) <a href="http://www.manico.net">Manico.net</a>
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/**
 * Encodes and decodes to and from Base64 notation.
 *
 * The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds
 * (though that breaks strict Base64 compatibility), and encoding using the URL-safe
 * and Ordered dialects.
 *
 * The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:
 *
 * String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES);
 *
 * to compress the data before encoding it and then making the output have no newline characters.
* Change Log:
* </p>
* </ul>
* <li>v2.2.2 - Fixed encodeFileTo*File and decodeFileTo*File to use the
* Base64.InputStream class to encode and decode on the fly which uses
* less memory than encoding/decoding an entire file into memory before writing.</li>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~< 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* </ol>
* <li>The default is RFC3548 format.</li>
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.
* [http://www.faqs.org/rfcs/rfc3548.html](http://www.faqs.org/rfcs/rfc3548.html)
* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
* URL and file name friendly format that preserves lexical ordering as described
* Special thanks to Jim Kellerman at [http://www.powerset.com/](http://www.powerset.com/) for contributing the new Base64 dialects.
* </li>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (int that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using decode( String s, boolean gzipCompressed ).</li>
* Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).
* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.</li>
* Added the ability to GZip-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>

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* plenty of well-wishing instead!
* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.
* </p>

* @author Robert Harder
* @author rob@iharder.net
* @version 2.2.2
*/

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* @created 2010
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/reference/accesscontrol/FileBasedACRs.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author kevin.w.wall@gmail.com
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 */
// Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
// If we are using a "preferred" cipher mode--i.e., one that supports *both* confidentiality and

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  jar/org/owasp/esapi/reference/crypto/JavaEncryptor.java
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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the { @code keyDerivationKey} for either
 * encryption / decryption or for authentication.
 * <p>
 * <b>CAUTION:</b> If this algorithm for computing derived keys from the
 * key derivation key is ever changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
* of this method. Therefore, do not change this unless you are 100% certain that
* what you are doing will NOT change either of the derived keys for
* ANY "key derivation key" AT ALL!!!
* sp>
* <b>NOTE:</b> This method is generally not intended to be called separately.
* It is used by ESAPI's reference crypto implementation class [@code JavaEncryptor]
* and might be useful for someone implementing their own replacement class, but
* generally it is not something that is useful to application client code.
*
* @param keyDerivationKey  A key used as an input to a key derivation function
* to derive other keys. This is the key that generally
* is created using some key generation mechanism such as
* {@link #generateSecretKey(String, int)}. The
* "input" key from which the other keys are derived.
* The derived key will have the same algorithm type
* as this key. This KDK cannot be null.
* @param keySize The cipher's key size (in bits) for the {@code keyDerivationKey}.
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* Note: The derived key will have the same size as this.
* @param purpose The purpose for the derived key. For the ESAPI reference implementation,
* this <i>must</i> be either the string "encryption" or
* "authenticity", where "encryption" is used for creating a derived key to use
* for confidentiality, and "authenticity" is used for creating a derived key to
* use with a MAC to ensure message authenticity. However, since parameter serves
* the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
* be set to anything other than [@code null] or an empty string when called outside
* of [@code JavaEncryptor].
* @return The derived {@code SecretKey} to be used according
* to the specified purpose.
* @throws NoSuchAlgorithmException The [keyDerivationKey] has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original [@code UnsupportedEncodingException]
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException  Throw for some precondition violations.
* */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/crypto/KeyDerivationFunction.java
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/**
* OWASP Enterprise Security API (ESAPI)
jar/org/owasp/esapi/reference/Log4JLogger.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codescs/OracleCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/Log4JLogFactory.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/crypto/ReferenceEncryptedProperties.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultSecurityConfiguration.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/HTTPUtilities.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Validator.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/FileBasedAuthenticator.java

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 * @created 2007
 */
/**
 * Executes a system command after checking that the executable exists and
 * escaping all the parameters to ensure that injection is impossible.
 * Implementations must change to the specified working
 * directory before invoking the command.
 *
 * @param executable
 *   the command to execute
 * @param params
 *   the parameters of the command being executed
 * @param workdir
 *   the working directory
* @param codec
* the codec to use to encode for the particular OS in use
* @param logParams
* use false if any parameters contains sensitive or confidential information
* @return the output of the command being run
* @throws ExecutorException
* the service exception
*/

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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2.0.1-sources-1.jar/org/owasp/esapi/Executor.java
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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/SecurityWrapperRequest.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/SecurityWrapperResponse.java
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/**
 * This method adds a provider to the {code SecurityManager}
 * either by some generic name or by the class name.
 * </p><p>
 * The following generic JCE provider names are built-in:
 * <ul>
 * <li>SunJCE</li>
 * <li>IBMJCE [for WebSphere]</li>
 * <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>
 * <li>BC [i.e., Bouncy Castle]</li>
 * <li>IAIK</li>
 * <li>CryptixCrypto (or Cryptix)</li>
 * <li>ABA</li>
 * </ul>
 * Note that neither Cryptix or ABA are actively maintained so
 * it is recommended that you do not start using them for ESAPI
 * unless your application already has a dependency on them. Furthermore,
 * the Cryptix JCE jars likely will not work as the Cryptix code signing
 * certificate has expired as of August 28, 2009. (This likely is true
 * for ABA, but I can't even find a copy to download!). Lastly, the IAIK
 * provider is no longer offered as free, open source. It is not a
 * commercial product. See [@link http://jce.iaik.tugraz.at/] for
 * details. While some older versions were offered free, it is not clear
 * whether the accompanying license still allows you to use it, and if
 * it does, whether or not the code signing certificate used to sign
 * their JCE jar(s) has expired are not. Therefore, if you are looking
 * for a FOSS alternative to SunJCE, Bouncy Castle
 * ([@link http://www.bouncycastle.org/] is probably your best bet. The
 * BC provider does support many of the "combined cipher modes" that provide
 * both confidentiality and authenticity. (See the [@code ESAPI.properties]
 * property [@code Encryptor.cipher_modes.combined_modes] for details.)
 * </p><p>
 * For those working in the U.S. federal government, it should be noted
 * that <i>none</i> of the providers listed here are considered validated
 * by NIST's Cryptographic Module Validation Program and are therefore
 * not considered FIPS 140-2 compliant. There are a few approved
 * JCE compatible Java libraries that are on NIST's CMVP list, but this
 * list changes constantly so they are not listed here. For further details
* on NIST's CMVP, see
* {@link http://csrc.nist.gov/groups/STM/cmvp/index.html}.
* </p><p>
* Finally, if you wish to use some other JCE provider not recognized above,
* you must specify the provider's fully-qualified class name (which in
* turn must have a public, no argument constructor).
* </p><p>
* The application must be given the [@code SecurityPermission] with a
* value of [@code insertProvider.&lt;provider_name&gt;] (where
* &lt;provider_name&gt; is the name of the algorithm provider if
* a security manager is installed.
* </p>

* @param algProvider Name of the JCE algorithm provider. If the name
* contains a ".", this is interpreted as the name
* of a [@code java.security.Provider] class name.
* @param pos The preference position (starting at 1) that the
* caller would like for this provider. If you wish
* for it to be installed as the &lt;i&gt;last&lt;/i&gt; provider
* (as of the time of this call), set [@code pos] to -1.
* @return The actual preference position at which the provider was added,
* or -1 if the provider was not added because it is already
* installed.
* @exception NoSuchProviderException - thrown if the provider class
* could not be loaded or added to the [@code SecurityManager] or
* any other reason for failure.
*/

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jar/org/owasp/esapi/crypto/SecurityProviderLoader.java
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
/*
/**
 * Return a {@code List} of strings of combined cipher modes that support
 * <b>both</b> confidentiality and authenticity. These would be preferred
 * cipher modes to use if your JCE provider supports them. If such a
 * cipher mode is used, no explicit <i>separate</i> MAC is calculated as part of
 * the [@code CipherText] object upon encryption nor is any attempt made
 * to verify the same on decryption.
 * </p><p>
 * The list is taken from the comma-separated list of cipher modes specified
 * by the ESAPI property
 * [@code Encryptor.cipher_modes.combined_modes].
 *
 * @return The parsed list of comma-separated cipher modes if the property
 * was specified in [@code ESAPI.properties]; otherwise the empty list is
 * returned.
 */

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1.5331 postgresql-12-build-deps 12.6-1.pgdg100+1
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1.5332 find-up 2.1.0

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1.5333 fasthash 1.0.2

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1.5334 poi-ooxml 3.17.0.wso2v1

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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java
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  * /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.java
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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-jar/io/netty/handler/codecs/Http2OutboundFrameLogger.java
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jar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandlerBuilder.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/CharSequenceMap.java

1.5346 kubernetes-cliruntime 0.17.2

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
m.Licenses = []types.LicenseManagerLicenseInfo

if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
}

return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...]...) 
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{}

for i := range m.Licenses {
    license := &m.Licenses[i]

    if req.LicenseKey != license.LicenseKey {
        continue
    }
}

body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma  53705
id := types.ManagedObjectReference{
Type: "HostSystem",
Value: req.EntityId,
}

if Map.Get(id) == nil {
return body
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId: req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    return s
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const (
    deprecated = "deprecated"  // deprecated, but still completely functional
    ignored    = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed    = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
                                // the Corefile
    newdefault = "newdefault"   // added to the default corefile.  CoreDNS may not function properly if it is not present
                                // in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    all = "all" // show all statuses
)
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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `path`
- Remote file format is `pod-name:path`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

---

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### Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is ``<path>``
- Remote file format is ``<pod-name>:<path>``

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

### Specify the Container

Specify the Container within a Pod running multiple containers.

- ` `-c <container-name>``

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

### Namespaces

Set the Pod namespace by prefixing the Pod name with ``<namespace>/` .

- ` `<pod-namespace>/<pod-name>:<path>``

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

runc

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tomb - support for clean goroutine termination in Go.

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1.5351 python-setuptools 58.1.0
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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------
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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

------
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------
MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.5369 commons-http-client 3.1

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Version 2.0, January 2004

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1.5370 tdb 1.44.5

1.5370.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:	$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$LDCONFIG$

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$RM -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$RM -rf pic
$RM -f $(BSD_LIB)
$RM -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
 - Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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6.4.50

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prng.pod

## Double-conversion v1.1.5

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</pre>

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include/GL/wglxext.h:

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2.0.2

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**1.5412 netty-transport 4.0.39.Final**

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  jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
  jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
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* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-jar/io/netty/channel/group/ChannelMatchers.java
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* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-jar/io/netty/channel/DefaultChannelProgressivePromise.java
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* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-jar/io/netty/channel/EventLoopException.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-jar/io/netty/bootstrap/package-info.java
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```
Handles or intercepts a `@link ChannelInboundInvoker` or `@link ChannelOutboundInvoker` operation, and forwards it to the next handler in a `@link ChannelPipeline`.

* <h3>Sub-types</h3>
* <p>
  * `@link ChannelHandler` itself does not provide many methods. To handle a `@link ChannelInboundInvoker` or `@link ChannelOutboundInvoker` operation you need to implement its sub-interfaces. There are many different sub-interfaces which handles inbound and outbound operations.
  *
  * But the most useful for developers may be:
  * <ul>
    * `@link ChannelInboundHandlerAdapter` handles and intercepts inbound operations
    * `@link ChannelOutboundHandlerAdapter` handles and intercepts outbound operations
  * </ul>
  *
  * You will also find more detailed explanation from the documentation of each sub-interface on how an event is interpreted when it goes upstream and downstream respectively.
  *
  * <h3>The context object</h3>
  * <p>
    * A `@link ChannelHandler` is provided with a `@link ChannelHandlerContext` object. A `@link ChannelHandler` is supposed to interact with the `@link ChannelPipeline` it belongs to via a context object. Using the context object, the `@link ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `@link AttributeKey`)s which is specific to the handler.
    *
    * <h3>State management</h3>
    *
    * A `@link ChannelHandler` often needs to store some stateful information.
    * The simplest and recommended approach is to use member variables:
```
Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}>
{
    [{@code @Override}] public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use {@link AttributeKey}s which is provided by {@link ChannelHandlerContext}:
* public interface Message {
  // your methods here
* }

* {@code @Sharable}
* public class DataServerHandler extends @link SimpleChannelInboundHandler&lt;Message&gt; {
  * private final @link AttributeKey&lt;@link Boolean&gt; auth =
  *   @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth");
*  
*  * {@code @code @Override}
*  * public void channelRead(@link ChannelHandlerContext) ctx, Message message) {
*  *   @link Attribute&lt;@link Boolean&gt; attr = ctx.attr(auth);
*  *   @link Channel) ch = ctx.channel();
*  *   if (message instanceof LoginMessage) {
*  *     authenticate((LoginMessage) o);
*  *     attr.set(true);
*  *   } else (message instanceof GetDataMessage) {
*  *     if (@b>Boolean.TRUE.equals(attr.get())@b>) {
*  *       ch.write(fetchSecret((GetDataMessage) o));
*  *     } else {
*  *       fail();
*  *     }
*  *   }
*  *   ...  
*  * }
*  */

* Now that the state of the handler is attached to the @link ChannelHandlerContext, you can add the 
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends @link ChannelInitializer&lt;@link Channel&gt; {

*   * private static final DataServerHandler SHARED = new DataServerHandler();
*  
*   * {@code @Override}
*  * public void initChannel(@link Channel) channel) {
*  *   channel.pipeline().addLast("handler", @b>SHARED@b>);
*  * }
*  */

* </pre>

* <h4>The @code @Sharable annotation</h4>
* In the example above which used an @link AttributeKey, 
* you might have noticed the @code @Sharable annotation.
* <p>
* If a `{@link ChannelHandler}` is annotated with the `{@code @Sharable}`
* annotation, it means you can create an instance of the handler just once and
* add it to one or more `{@link ChannelPipeline}`s multiple times without
* a race condition.

* `<p>`
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* `<p>`
* This annotation is provided for documentation purpose, just like
* `<h3>`Additional resources worth reading`<h3>`
* `<p>`
* Please refer to the `{@link ChannelHandler}`, and
* `{@link ChannelPipeline}` to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
`*/

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* /opt/cola/permits/1151705757_1617966365.70/netty-transport-4.0.39-final-sources-2-jar/io.netty/channel/pool/package-info.java
* /opt/cola/permits/1151705757_1617966365.70/netty-transport-4.0.39-final-sources-2-jar/io.netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1151705757_1617966365.70/netty-transport-4.0.39-final-sources-2-jar/io.netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1151705757_1617966365.70/netty-transport-4.0.39-final-sources-2-jar/io.netty/channel/pool/ChannelHealthChecker.java
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jar/io/netty/channel/pool/SimpleChannelPool.java
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jar/io/netty/channel/pool/FixedChannelPool.java
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jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1151705757_1617966365.7/0/netty-transport-4-0-39-final-sources-2-
jar/io/netty/channel/SelectStrategyFactory.java
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

  * javax.servlet:javax.servlet-api
  * javax.annotation:javax.annotation-api
  * javax.transaction:javax.transaction-api
  * javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

  * java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.5414 argparse 1.2.1

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tomb - support for clean goroutine termination in Go.

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1.5422 next-tick 1.1.0

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1.5423 micromatch 3.1.10
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1.5425 viper 1.6.2
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1.5426 docbook-xml 4.5-r6
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<!-- ...................................................................... -->
<!-- DocBook XML information pool module V4.5 ............................. -->
<!-- File dbpoolx.mod ..................................................... -->

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This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

ENTITY %dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.5//EN"
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Forms entities ....................................................... -->
<!ENTITY % forminlines.hook "">
<!ENTITY % forms.hook "">

<!-- General-purpose semantics entities ................................... -->
<!ENTITY % yesorno.attvals"CDATA">

<!-- Entities for module inclusions ....................................... -->
<!ENTITY % dbpool.redecl.module "IGNORE">

<!-- Entities for element classes and mixtures ............................ -->
<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class "indexterm %local.ndxterm.class;">  

<!-- Object-level classes ............................................... -->
<!ENTITY % local.list.class "">
<!ENTITY % list.class "calloutlist|glosslist|bibliolist|itemizedlist|orderedlist|segmentedlist|simplelist|variablelist %local.list.class;">  

<!-- admon class -->
<!ENTITY % local.admon.class "">
<!ENTITY % admon.class "caution|important|note|tip|warning %local.admon.class;">  

<!-- linespecific class -->
<!ENTITY % local.linespecific.class "">
<!ENTITY % linespecific.class "">
"author|authorinitials|corauthor|corpcredit|modespec|othercredit
|productname|productnumber|revhistory
%local.docinfo.char.class;">

<!ENTITY % local.other.char.class "">
<!ENTITY % other.char.class
"remark|subscript|superscript %local.other.char.class;">

<!ENTITY % local.inlineobj.char.class "">
<!ENTITY % inlineobj.char.class
"inlinegraphic|linemediaobject|inlineequation %local.inlineobj.char.class;">

<!-- .......................................................... -->
<!-- Entities for content models ................................ -->

<!ENTITY % formalobject.title.content "title, titleabbrev?">

<!-- Redclaration placeholder ................................... -->

<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<![%dbpool.redecl.module:[]
<!-- Defining rdbpool here makes some buggy XML parsers happy. -->
<!ENTITY % rdbpool "">
%rdbpool;
<![end of dbpool.redecl.module-->]]>

<!-- Object-level mixtures ..................................... -->

<!--
list admn line synp para infm form cmpd gen desc
| Component mixture X X X X X X X X X X X X
| Sidebar mixture  X X X X X X X X X X a X
| Footnote mixture  X X X X X
| Example mixture  X X X X X
| Highlights mixture X X X
| Paragraph mixture X X X X
| Admonition mixture X X X X X X b c
| Figure mixture  X X X
| Table entry mixture X X X X d
| Glossary def mixture X X X X X e
| Legal notice mixture X X X X f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.

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<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib
"conditionCDATA#IMPLIED">

<!-- Conformance: Standards conformance characteristics -->

<!ENTITY % conformance.attrib
"conformanceNMTOKENS#IMPLIED">

<!-- OS: Operating system to which element applies; no default -->

<!ENTITY % os.attrib
"osCDATA#IMPLIED">

<!-- Revision: Editorial revision to which element belongs; no default -->

<!ENTITY % revision.attrib
"revisionCDATA#IMPLIED">

<!-- Security: Security classification; no default -->

<!ENTITY % security.attrib
"securityCDATA#IMPLIED">

<!-- UserLevel: Level of user experience to which element applies; no default -->

<!ENTITY % userlevel.attrib
"userlevelCDATA#IMPLIED">

<!-- Vendor: Computer vendor to which element applies; no default -->

<!ENTITY % vendor.attrib
"vendorCDATA#IMPLIED">

<!-- Wordsize: Computer word size (32 bit, 64 bit, etc.); no default -->

<!ENTITY % wordsize.attrib
"wordsizeCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib
"%arch.attrib;
  %condition.attrib;
  %conformance.attrib;
<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib "id#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib "id#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib "langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib "remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->

<!ENTITY % role.attrib "roleCDATA#IMPLIED">

<!-- XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element -->
"%idreq.attrib;
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%dir.attrib;
%xml-base.attrib;
%local.common.attrib;"
>

<!-- Semi-common attributes and other attribute entities .................. -->

<!ENTITY % local.graphics.attrib "">
<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!ENTITY % graphics.attrib "
entityrefENTITY#IMPLIED
fileref CDATA#IMPLIED
format(%notation.class;) #IMPLIED
srccreditCDATA#IMPLIED
widthCDATA#IMPLIED
contentwidthCDATA#IMPLIED
depthCDATA#IMPLIED
contentdepthCDATA#IMPLIED
align(left
|right
|center)#IMPLIED
valign(top
|middle
|bottom)#IMPLIED
scaleCDATA#IMPLIED
scalefit%yesorno.attvals;
#IMPLIED
%local.graphics.attrib;"
<!ENTITY % local.keyaction.attrib "">

<!ENTITY % keyaction.attrib "action		(click
|double-click
|press
|seq
|simul
|other)#IMPLIED
otheraction CDATA#IMPLIED
%local.keyaction.attrib;">

<!ENTITY % keyaction.attrib "">

<!ENTITY % label.attrib "label	CDATA	#IMPLIED">

<!-- xml:space: whitespace treatment -->

<! [%sgml.features;[
  <!ENTITY % xml-space.attrib "">
  ]]>  
  <!ENTITY % xml-space.attrib "xml:space(preserve)#IMPLIED">

<!ENTITY % linespecific.attrib "formatNOTATION
(linespecific)'linespecific'
%xml-space.attrib;
linenumbering(numbered|unnumbered)#IMPLIED
continuation(continues|restarts)#IMPLIED
startinglinenumberCDATA#IMPLIED
languageCDATA#IMPLIED">
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below.


<!-- I don't think this is well placed, but it needs to be here because of -->
<!-- the reference to bibliocomponent.mix -->
<!ENTITY % local.info.class "">
<!ENTITY % info.class "graphic | mediaobject | legalnotice | modespec
| subjectset | keywordset | itemset | %bibliocomponent.mix;
%local.info.class;">  

<!-- BiblioList ......................... -->

<!ENTITY % bibliolist.module "INCLUDE">  
<![%bibliolist.module:]
<!ENTITY % local.bibliolist.attrib "">
<!ENTITY % bibliolist.role.attrib "%role.attrib;">

<!ENTITY % bibliolist.element "INCLUDE">  
<![%bibliolist.element:]
<!--doc:A wrapper for a set of bibliography entries.-->
<!ELEMENT bibliolist %ho; (blockinfo?, (%formalobject.title.content;)?,
(biblioentry|bibliomixed)+)>  
</--end of bibliolist.element-->

<!ENTITY % bibliolist.attlist "INCLUDE">  
<![%bibliolist.attlist:]
<!ATTLIST bibliolist
%common.attrib;
%bibliolist.role.attrib;
%local.bibliolist.attrib;
>
</--end of bibliolist.attlist-->
</--end of bibliolist.module-->

<!ENTITY % biblioentry.module "INCLUDE">  
<![%biblioentry.module:]
<!ENTITY % local.biblioentry.attrib "">
<!ENTITY % biblioentry.role.attrib "%role.attrib;">

<!ENTITY % biblioentry.element "INCLUDE">  
<![%biblioentry.element:]
<!--doc:An entry in a Bibliography.-->

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<!ELEMENT biblioentry %ho; ((articleinfo | (%bibliocomponent.mix;))+)
    %ubiq.exclusion;>
<!--end of biblioentry.element-->

<!ENTITY % biblioentry.attlist "INCLUDE">
<![%biblioentry.attlist;[
<!ATTLIST biblioentry
%common.attrib;
%biblioentry.role.attrib;
%local.biblioentry.attrib;
>  
<!--end of biblioentry.attlist-->
<!--end of biblioentry.module-->

<!ENTITY % bibliomixed.module "INCLUDE">
<![%bibliomixed.module;[
<!ENTITY % local.bibliomixed.attrib "">
<!ENTITY % bibliomixed.role.attrib "%role.attrib;">

<!ENTITY % bibliomixed.element "INCLUDE">
<![%bibliomixed.element;[
<!--doc:An entry in a Bibliography.-->
<!ELEMENT bibliomixed %ho; (#PCDATA | %bibliocomponent.mix; | bibliomset)*
    %ubiq.exclusion;>
<!--end of bibliomixed.element-->

<!ENTITY % bibliomixed.attlist "INCLUDE">
<![%bibliomixed.attlist;[
<!ATTLIST bibliomixed
%common.attrib;
%bibliomixed.role.attrib;
%local.bibliomixed.attrib;
>  
<!--end of bibliomixed.attlist-->
<!--end of bibliomixed.module-->

<!ENTITY % articleinfo.module "INCLUDE">
<![%articleinfo.module;[
<!ENTITY % local.articleinfo.attrib "">
<!ENTITY % articleinfo.role.attrib "%role.attrib;">

<!ENTITY % articleinfo.element "INCLUDE">
<![%articleinfo.element;[
<!--doc:Meta-information for an Article.-->
<!ELEMENT articleinfo %ho; ((%info.class;)+
    %beginpage.exclusion;>
<!--end of articleinfo.element-->

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 55462
<ENTITY % blockinfo.attlist "INCLUDE">
<![ %blockinfo.attlist; [
<ENTITY % blockinfo
%common.attrib;
%blockinfo.role.attrib;
%local.blockinfo.attrib;
>
<!--end of blockinfo.attlist-->]]>
<!--end of blockinfo.module-->]]>

<!-- ............................................................. -->
<!-- Compound (section-ish) elements ............................ -->

<!-- Message set ..................... -->

<ENTITY % msgset.content.module "INCLUDE">
<![%msgset.content.module;[
<ENTITY % msgset.module "INCLUDE">
<![%msgset.module;[
<ENTITY % local.msgset.attrib ">
<ENTITY % msgset.role.attrib "%role.attrib;">

<ENTITY % msgset.element "INCLUDE">
<![%msgset.element;[
<--doc:A detailed set of messages, usually error messages.-->
<ELEMENT msgset %ho; (blockinfo?, (%formalobject.title.content;?),
 (msgentry+|simplemsgentry+))>
<!--end of msgset.element-->]]>

<ENTITY % msgset.attlist "INCLUDE">
<![%msgset.attlist;[
<ENTITY % msgset
%common.attrib;
%msgset.role.attrib;
%local.msgset.attrib;
>
<!--end of msgset.attlist-->]]>
<!--end of msgset.module-->]]>

<ENTITY % msgentry.module "INCLUDE">
<![%msgentry.module;[
<ENTITY % local.msgentry.attrib ">
<ENTITY % msgentry.role.attrib "%role.attrib;">

<ENTITY % msgentry.element "INCLUDE">
<![%msgentry.element;[
<--doc:A wrapper for an entry in a message set.-->

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 55468
<ENTITY % msglevel.module "INCLUDE">
<![%msglevel.module;]
<!ENTITY % local.msglevel.attrib "">
<!ENTITY % msglevel.role.attrib "%role.attrib;">

<!ENTITY % msglevel.element "INCLUDE">
<![%msglevel.element;]
<!--doc:The level of importance or severity of a message in a message set.-->
<!ELEMENT msglevel %ho; (%smallcptr.char.mix;)*>
<!--end of msglevel.element-->]

<!ENTITY % msglevel.attlist "INCLUDE">
<![%msglevel.attlist;]
<!ATTLIST msglevel
%common.attrib;
%msglevel.role.attrib;
%local.msglevel.attrib;
>
<!--end of msglevel.attlist-->
<!--end of msglevel.module-->]

<!ENTITY % msgorig.module "INCLUDE">
<![%msgorig.module;]
<!ENTITY % local.msgorig.attrib "">
<!ENTITY % msgorig.role.attrib "%role.attrib;">

<!ENTITY % msgorig.element "INCLUDE">
<![%msgorig.element;]
<!--doc:The origin of a message in a message set.-->
<!ELEMENT msgorig %ho; (%smallcptr.char.mix;)*>
<!--end of msgorig.element-->]

<!ENTITY % msgorig.attlist "INCLUDE">
<![%msgorig.attlist;]
<!ATTLIST msgorig
%common.attrib;
%msgorig.role.attrib;
%local.msgorig.attrib;
>
<!--end of msgorig.attlist-->
<!--end of msgorig.module-->]

<!ENTITY % msgaud.module "INCLUDE">
<![%msgaud.module;]
<!ENTITY % local.msgaud.attrib "">
<!ENTITY % msgaud.role.attrib "%role.attrib;">

<!ENTITY % msgaud.element "INCLUDE">

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 55472
<!ATTLIST note
%common.attrib;
%admon.role.attrib;
%local.admon.attrib;
>
<!--end of note.attlist-->]]>

<!ENTITY % tip.element "INCLUDE">
<![%tip.element;]
<!--doc:A suggestion to the user, set off from the text.-->
<!--ELEMENT tip %ho; (title?, (%admon.mix;)+) %admon.exclusion;--> ]>
<!--end of tip.element-->

<!ENTITY % tip.attlist "INCLUDE">
<![%tip.attlist;]
<!--ATTLIST tip
%common.attrib;
%admon.role.attrib;
%local.admon.attrib;
>
<!--end of tip.attlist-->]]>

<!ENTITY % warning.element "INCLUDE">
<![%warning.element;]
<!--doc:An admonition set off from the text.-->
<!--ELEMENT warning %ho; (title?, (%admon.mix;)+) %admon.exclusion;--> ]>
<!--end of warning.element-->

<!ENTITY % warning.attlist "INCLUDE">
<![%warning.attlist;]
<!--ATTLIST warning
%common.attrib;
%admon.role.attrib;
%local.admon.attrib;
>
<!--end of warning.attlist-->]]>

<!--end of admon.module-->

<!-- ...................................................................... -->
<!-- Lists ................................................................ -->
<!-- GlossList ........................ -->

<!ENTITY % glosslist.module "INCLUDE">
<!DOCTYPE html>
<html><head></head><body>

<!-- ItemizedList and OrderedList ..... -->

</body></html>
<!-- Spacing: Whether the vertical space in the list should be compressed -->
<!-- Mark: Keyword, e.g., bullet, dash, checkbox, none; list of keywords and defaults are implementation specific -->

<!ENTITY % itemizedlist.attlist "INCLUDE">
<![ %itemizedlist.attlist; [
<!ATTLIST itemizedlist spacing (normal | compact) #IMPLIED
%mark.attrib;
%common.attrib;
%itemizedlist.role.attrib;
%local.itemizedlist.attrib;
>]
<!--end of itemizedlist.attlist-->
<!--end of itemizedlist.module-->
]
]
]

<!ENTITY % orderedlist.module "INCLUDE">
<![ %orderedlist.module; [
<!ENTITY % local.orderedlist.attrib ">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">

<!ENTITY % orderedlist.element "INCLUDE">
<![ %orderedlist.element; [
<!!--doc:A list in which each entry is marked with a sequentially incremented label.-->
<!ELEMENT orderedlist %ho; (blockinfo?, (%formalobject.title.content;)?,
(listpreamble.mix;)*, listitem+)>

<!!--end of orderedlist.element-->
]
]
]

<!!-- Numeration: Style of ListItem numbered; default is expected to be Arabic -->
<!!-- InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b) -->
<!!-- Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues) -->
<!!-- Spacing: Whether the vertical space in the list should be compressed -->

<!ENTITY % orderedlist.attlist "INCLUDE">
<![ %orderedlist.attlist; [
<!ATTLIST orderedlist
<!ENTITY % simplelist.element "INCLUDE">
<![%simplelist.element;
<!--doc:An undecorated list of single words or short phrases.-->
<!ELEMENT simplelist %ho; (member+)>
<!--end of simplelist.element-->]]>

<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![%simplelist.attlist;
<!ATTLIST simplelist
columnsCDATA#IMPLIED
type(inline | vert | horiz)"vert"
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<!--end of simplelist.attlist-->]]>

<!ENTITY % member.module "INCLUDE">
<![%member.module;
<!ENTITY % local.member.attrib ""
<!ENTITY % member.role.attrib "%role.attrib;"

<!ENTITY % member.element "INCLUDE">
<![%member.element;
<!--doc:An element of a simple list.-->
<!ELEMENT member %ho; (%para.char.mix;)*>
<!--end of member.element-->]]>

<!ENTITY % member.attlist "INCLUDE">
<![%member.attlist;
<!ATTLIST member
%common.attrib;
%member.role.attrib;
%local.member.attrib;
>
<!--end of member.attlist-->]]>
<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "INCLUDE">
<![%variablelist.content.module;
<!ENTITY % variablelist.module "INCLUDE">
<![%variablelist.module;
<!ENTITY % local.variablelist.attrib "">
<!ENTITY % variablelist.role.attrib "%role.attrib;">

<!ENTITY % variablelist.element "INCLUDE">
<![%variablelist.element;
<!!--doc:A list in which each entry is composed of a set of one or more terms and an associated description.-->
<!ELEMENT variablelist %ho; (blockinfo?, (%formalobject.title.content;)?,
 ( %listpreamble.mix;)*, varlistentry+)>
<!--end of variablelist.element-->

<!ENTITY % variablelist.attlist "INCLUDE">
<![%variablelist.attlist;
<!ATTLIST variablelist
termlengthCDATA#IMPLIED
spacing(normal
|compact)#IMPLIED
%common.attrib;
%variablelist.role.attrib;
%local.variablelist.attrib;
>
<!--end of variablelist.attlist-->

<!ENTITY % varlistentry.module "INCLUDE">
<![%varlistentry.module;
<!ENTITY % local.varlistentry.attrib "">
<!ENTITY % varlistentry.role.attrib "%role.attrib;">
<!ENTITY % calloutlist.attlist "INCLUDE">
<![%calloutlist.attlist;]
<!ATTLIST calloutlist
%common.attrib;
%calloutlist.role.attrib;
%local.calloutlist.attrib;
>
<!--end of calloutlist.attlist-->]]>
<!--end of calloutlist.module-->]]>

<!ENTITY % callout.module "INCLUDE">
<![%callout.module;]
<!ENTITY % local.callout.attrib "">
<!ENTITY % callout.role.attrib "%role.attrib;">

<!ENTITY % callout.element "INCLUDE">
<![%callout.element;]
<!--doc:A "called out" description of a marked Area-->-
<!ELEMENT callout %ho; (%component.mix;)+>
<!--end of callout.element-->]]>

<!-- AreaRefs: IDs of one or more Areas or AreaSets described by this Callout -->

<!ENTITY % calloutlist.attlist "INCLUDE">
<![%calloutlist.attlist;]
<!ATTLIST callout
garearefsIDREFS#REQUIRED
%common.attrib;
%callout.role.attrib;
%local.callout.attrib;
>
<!--end of calloutlist.attlist-->]]>
<!--end of calloutlist.module-->]]>
<!--end of calloutlist.content.module-->]]>

<!-- ...................................................................... -->
<!-- Objects .............................................................. -->
<!-- Examples etc. ................................................. -->

<!ENTITY % example.module "INCLUDE">
<![%example.module;]
<!ENTITY % local.example.attrib "">
<!ENTITY % example.role.attrib "%role.attrib;">

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 55500
<!ENTITY % programlistingco.element "INCLUDE">
<![%programlistingco.element;[
<!--doc:A program listing with associated areas used in callouts.-->
<!ELEMENT programlistingco %ho; (areaspec, programlisting, calloutlist*)>
<!--end of programlistingco.element-->]]>

<!ENTITY % programlistingco.attlist "INCLUDE">
<![%programlistingco.attlist;[
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.role.attrib;
%local.programlistingco.attrib;
>
<!--end of programlistingco.attlist-->]]>
<!-- CalloutList (defined above in Lists)-->
<!--end of informalexample.module-->]]>

<!ENTITY % areaspec.content.module "INCLUDE">
<![%areaspec.content.module;[
<!ENTITY % areaspec.module "INCLUDE">
<![%areaspec.module;[
<!ENTITY % local.areaspec.attrib "">
<!ENTITY % areaspec.role.attrib "%role.attrib;">

<!ENTITY % areaspec.element "INCLUDE">
<![%areaspec.element;[
<!--doc:A collection of regions in a graphic or code example.-->
<!ELEMENT areaspec %ho; ((area|areaset)+)>
<!--end of areaspec.element-->]]>

<!-- Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)
- Other: directive to look at value of OtherUnits attribute
to get implementation-specific keyword

The default is implementation-specific; usually dependent on
the parent element (GraphicCO gets CALSPair, ProgramListingCO
and ScreenCO get LineColumn) -->
<!- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDE">
<![%areaspec.attlist;]
<!ATTLIST areaspec
units(calspair
[linenumber
[linenumberpair
[other]#IMPLIED
otherunitsNMTOKEN#gaigned
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>  
<!-end of areaspec.attlist-->
<!-end of areaspec.module-->>

<!ENTITY % area.module "INCLUDE">
<![%area.module;]
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;">

<!ENTITY % area.element "INCLUDE">
<![%area.element;]
<!-doc:A region defined for a Callout in a graphic or code example.-->
<!ELEMENT area %ho; EMPTY>
<!-end of area.element-->

<!- bug number/symbol override or initialization -->
<!- to any related information -->
<!- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSet and AreaSpec -->
<!- OtherUnits: User-defined units -->

<!ENTITY % area.attlist "INCLUDE">
<![%area.attlist;]
<!ATTLIST area
%label.attrib;
<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSpec -->

<!ENTITY % areaset.attlist "INCLUDE">
<![CDATA[
|%label.attrib;
|units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
|otherunitsNMTOKEN#IMPLIED
|coordsCDATA#REQUIRED
|idreq.common.attrib;
|areaset.role.attrib;
|local.areaset.attrib;
> 
<!--end of areaset.attlist-->]]>
<!--end of areaset.module-->]]>

<!-- ENTITY % areaset.document "INCLUDE" -->
<![CDATA[
<!ELEMENT areaset %ho; (area+)>
<!--end of areaset.element-->
]]>

<!-- doc:A set of related areas in a graphic or code example.-->
<!-- ELEMENT areaset %ho; (area+)> 
<!--end of areaset.element-->]]>

<!----
<!ENTITY % areaset.element "INCLUDE">
<![CDATA[
<!ATTLIST areaset
%label.attrib;
|units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
|otherunitsNMTOKEN#IMPLIED
|coordsCDATA#REQUIRED
|idreq.common.attrib;
|areaset.role.attrib;
|local.areaset.attrib;
> 
<!--end of areaset.attlist-->]]>
<!--end of areaset.module-->]]>
where convenient (yes (1) value) or at the place it occurs
in the text (no (0) value, the default)

--> 

<!ATTLIST informalfigure 
float%yesorno.attvals;"0"
floatstyleCDATA#IMPLIED
pgwide %yesorno.attvals; #IMPLIED
%label.attrib;
%common.attrib;
%informalfigure.role.attrib;
%local.informalfigure.attrib;
>
<!--end of informalfigure.attlist-->]]>
<!--end of informalfigure.module-->]]>

<!ENTITY % graphicco.module "INCLUDE"> 
<![[%graphicco.module;]]>
<!ENTITY % local.graphicco.attrib "">>
<!ENTITY % graphicco.role.attrib "%role.attrib;">>

<!ENTITY % graphicco.element "INCLUDE"> 
<![[%graphicco.element;]]>
<!ELEMENT graphicco %ho; (areaspec, graphic, calloutlist*)> 
<!--end of graphicco.element-->]]>

<!ENTITY % graphicco.attlist "INCLUDE"> 
<![[%graphicco.attlist;]]>
<!ATTLIST graphicco 
%common.attrib;
%graphicco.role.attrib;
%local.graphicco.attrib;
>
<!--end of graphicco.attlist-->]]>
<!-- AreaSpec (defined above in Examples)-->
<!-- CalloutList (defined above in Lists)-->
<!--end of graphicco.module-->]]>

<!-- Graphical data can be the content of Graphic, or you can reference 
an external file either as an entity (Entitref) or a filename 
(Fileref). -->

<!ENTITY % graphic.module "INCLUDE"> 
<![[%graphic.module;]]>
<!ENTITY % local.graphic.attrib "">>
<!ENTITY % graphic.role.attrib "%role.attrib;">>

<!ENTITY % graphic.element "INCLUDE">
<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<!ENTITY % equation.content "(alt?, (graphic+|mediaobject+|mathphrase+))">
<!ENTITY % inlineequation.content "(alt?, (graphic+|inlinemediaobject+|mathphrase+))">

<!ENTITY % equation.module "INCLUDE">
<![%equation.module;[
<!ENTITY % local.equation.attrib "">
<!ENTITY % equation.role.attrib "%role.attrib;">

<!ENTITY % equation.element "INCLUDE">
<![%equation.element;[
<!-doc:A displayed mathematical equation.-->
<!ELEMENT equation %ho; (blockinfo?, (%formalobject.title.content;)?,
(informalequation | %equation.content;))>
<!-end of equation.element--> ]]>

<!ENTITY % equation.attlist "INCLUDE">
<![%equation.attlist;[
<!ATTLIST equation
floatstyleCDATA#IMPLIED
%label.attrib;
%common.attrib;
%equation.role.attrib;
%local.equation.attrib;
> 
<!-end of equation.attlist--> ]]>
<!-end of equation.module--> ]]>

<!ENTITY % informalequation.module "INCLUDE">
<![%informalequation.module;[
<!ENTITY % local.informalequation.attrib "">
<!ENTITY % informalequation.role.attrib "%role.attrib;">

<!ENTITY % informalequation.element "INCLUDE">
<![%informalequation.element;[
<!-doc:A displayed mathematical equation without a title.-->
<!ELEMENT informalequation %ho; (blockinfo?, %equation.content;) > 
<!-end of informalequation.element--> ]]>

<!ENTITY % informalequation.attlist "INCLUDE">
<![%informalequation.attlist;[
<!ATTLIST informalequation
floatstyleCDATA#IMPLIED
%common.attrib;
%informalequation.role.attrib;
%local.informalequation.attrib;
>
<!ENTITY % tbl.tgroup.att "%common.attrib;">  
<!ENTITY % tbl.colspec.att "%common.attrib;">  
<!ENTITY % tbl.tbody.att "%common.attrib;">  
<!ENTITY % tbl.thead.att "%common.attrib;">  
<!ENTITY % tbl.row.att "%common.attrib;">  
<!ENTITY % tbl.entry.att "%common.attrib;">  

<!-- Content model for Table. -->

<!ENTITY % tbl.table.mdl
"(blockinfo?, (%formalobject.title.content;), (%ndxterm.class;)*, 
textobject*,
   (graphic+|mediaobject+|tgroup+))">  

<!-- Allow either objects or inlines; beware of REs between elements. -->

<!ENTITY % tbl.entry.mdl "(%para.char.mix; | %tabentry.mix;)*">  

<!-- Reference OASIS Exchange Table Model -->

<!ENTITY % tablemodel 
PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
"soextblx.dtd">  
]]>

%tablemodel;

<!--end of table.module-->

<!ENTITY % informaltable.module "INCLUDE">  
<![%informaltable.module:]>  

<!-- Note that InformalTable is dependent on some of the entity declarations that customize Table. -->

<!ENTITY % local.informaltable.attrib """>  

<!-- the following entity may have been declared by the XHTML table module -->

<!ENTITY % informal.tbl.table.mdl "textobject*, (graphic+|mediaobject+|tgroup+)">  

<!ENTITY % informaltable.element "INCLUDE">  
<![%informaltable.element:]>  

<!--doc:A table without a title.-->  
<![ELEMENT informaltable %ho; (blockinfo?, (%informal.tbl.table.mdl;))]>  
<![!--end of informaltable.element-->]]>

<!-- Frame, Colsep, and Rowsep must be repeated because they are not in entities in the table module. -->

<!-- includes TabStyle, ToCentry, ShortEntry, Orient, PgWide -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 55539</title>
</head>
<body>
    <!-- Document information entities and elements include some elements that are -->
    <!--doc:Parameters to a method.-->
    <!ELEMENT methodparam %ho; (modifier*,
         type?,
         (parameter,initializer?)|funcparams),
         modifier*)>
    <!--end of methodparam.element-->
    <!--end of methodparam.module-->
    <!--end of classsynopsis.content.module-->
    <!--end of methodname.module-->
    <!--end of methodname.element-->
    <!--end of methodname.attlist-->
    <!--end of methodparam.module-->
    <!--end of methodparam.element-->
    <!--end of methodparam.attlist-->
    <!--end of methodname.attlist-->
    <!-- The document information elements include some elements that are -->
</body>
</html>
currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies. -->

<!-- .................................. -->

<!ENTITY % docinfo.content.module "INCLUDE">
<![%docinfo.content.module;]

<!-- Ackno ......................... -->

<!ENTITY % ackno.module "INCLUDE">
<![%ackno.module;]
<!ENTITY % local.ackno.attrib "">
<!ENTITY % ackno.role.attrib " %role.attrib;">

<!ENTITY % ackno.element "INCLUDE">
<![%ackno.element;]
<!--doc:Acknowledgements in an Article.-->
<!ELEMENT ackno %ho; (%docinfo.char.mix;)*>
<!--end of ackno.element-->

<!ENTITY % ackno.attlist "INCLUDE">
<![%ackno.attlist;]
<!ATTLIST ackno
%common.attrib;
%ackno.role.attrib;
%local.ackno.attrib;
>
<!--end of ackno.attlist-->
<!--end of ackno.module-->

<!-- Address ....................... -->

<!ENTITY % address.content.module "INCLUDE">
<![%address.content.module;]
<!ENTITY % address.module "INCLUDE">
<![%address.module;]
<!ENTITY % local.address.attrib "">
<!ENTITY % address.role.attrib " %role.attrib;">

<!ENTITY % address.element "INCLUDE">
<![%address.element;]
<!--doc:A real-world address, generally a postal address.-->
<!ELEMENT address %ho; (#PCDATA|personname|%person.ident.mix; |street|pob|postcode|city|state|country|phone |fax|email|otheraddr)*>
<!--end of address.element-->

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
  <head></head>
  <body>
    <!-- Documentation for Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 55550 --></body></html>
<!ENTITY % confgroup.element "INCLUDE">
<![%confgroup.element;]
<!--doc:A wrapper for document meta-information about a conference.-->
<!ELEMENT confgroup %ho; ((confdates|conftitle|confnum|address|confsponsor)*)>
<!--end of confgroup.element-->]]>

<!--end of confgroup.module-->

<!ENTITY % confdates.module "INCLUDE">
<![%confdates.module;]
<!--doc:The dates of a conference for which a document was written.-->
<!ELEMENT confdates %ho; (%docinfo.char.mix;)*>
<!--end of confdates.element-->]]>

<!--end of confdates.module-->

<!ENTITY % conftitle.module "INCLUDE">
<![%conftitle.module;]
<!--doc:The title of a conference for which a document was written.-->
<!ELEMENT conftitle %ho; (%docinfo.char.mix;)*>
<!--end of conftitle.element-->]]>
<!-- Class: More precisely identifies the item the element names -->

<!ENTITY % productname.attlist "INCLUDE">
<![productname.attlist;]
<!ATTLIST productname
class(service | trade | registered | copyright)/trade'
%common.attrib;
%productname.role.attrib;
%local.productname.attrib;
>
<![--end of productname.attlist--]]>
<![--end of productname.module--]]>

<!--[-- ProductNumber .................... -->

<!ENTITY % productnumber.module "INCLUDE">
<![productnumber.module;]
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role.attrib "%role.attrib;">

<![ENTITY % productnumber.element "INCLUDE">
<![productnumber.element;]
<![--doc:A number assigned to a product.-->
<![ELEMENT productnumber %ho; (%docinfo.char.mix;)*]
<![--end of productnumber.element--]]>

<![ENTITY % productnumber.attlist "INCLUDE">
<![productnumber.attlist;]
<![ATTLIST productnumber
%common.attrib;
%productnumber.role.attrib;
%local.productnumber.attrib;
>
<![--end of productnumber.attlist--]]>
<![--end of productnumber.module--]]>

<!--[-- PubDate ......................... -->

<!ENTITY % pubdate.module "INCLUDE">
<![pubdate.module;]
<!ENTITY % local.pubdate.attrib "">
<!ENTITY % pubdate.role.attrib "%role.attrib;">
<!ENTITY % coref.attlist "INCLUDE">
<![%coref.attlist;[  
<!ATTLIST coref
%label.attrib;  
%linkendreq.attrib;  
%common.attrib;  
%coref.role.attrib;  
%local.coref.attrib;  
>  
<!--end of coref.attlist-->]]>
<!--end of coref.module-->]]>

<!ENTITY % command.module "INCLUDE">
<![%command.module;[  
<!ENTITY % local.command.attrib "">  
<!ENTITY % command.role.attrib "%role.attrib;">

<!ENTITY % command.element "INCLUDE">
<![%command.element;[  
<!--doc:The name of an executable program or other software command.-->
<!ELEMENT command %ho; (%cptr.char.mix;)*>  
<!--end of command.element-->]]>

<!ENTITY % command.attlist "INCLUDE">
<![%command.attlist;[  
<!ATTLIST command
%moreinfo.attrib;  
%common.attrib;  
%command.role.attrib;  
%local.command.attrib;  
>  
<!--end of command.attlist-->]]>
<!--end of command.module-->]]>

<!ENTITY % computeroutput.module "INCLUDE">
<![%computeroutput.module;[  
<!ENTITY % local.computeroutput.attrib "">  
<!ENTITY % computeroutput.role.attrib "%role.attrib;">

<!ENTITY % computeroutput.element "INCLUDE">
<![%computeroutput.element;[  
<!--doc:Data, generally text, displayed or presented by a computer.-->
<!ELEMENT computeroutput %ho; (%cptr.char.mix;co)*>  
<!--end of computeroutput.element-->]]>

<!ENTITY % computeroutput.attlist "INCLUDE">
<![%computeroutput.attlist;[  

<!-- Path: Search path (possibly system-specific) in which file can be found -->

<!ENTITY % filename.attlist "INCLUDE">
<![%filename.attlist;]
<!ATTLIST filename
class(headerfile
  |partition
  |devicefile
  |libraryfile
  |directory
  |extension
  |symlink) #IMPLIED
pathCDATA#IMPLIED
%moreinfo.attrib;
%common.attrib;
%filename.role.attrib;
%local.filename.attrib;
>
<!--end of filename.attlist-->]]>
<!--end of filename.module-->]]>

<!ENTITY % function.module "INCLUDE">
<![%function.module;]
<!ENTITY % local.function.attrib "">
<!ENTITY % function.role.attrib "%role.attrib;"> 

<!ENTITY % function.element "INCLUDE">
<![%function.element;]
<!--doc:The name of a function or subroutine, as in a programming language.-->
<!ELEMENT function %ho; (%cptr.char.mix;)*>
<!--end of function.element-->]]>

<!ENTITY % function.attlist "INCLUDE">
<![%function.attlist;]
<!ATTLIST function
  %moreinfo.attrib;
  %common.attrib;
  %function.role.attrib;
  %local.function.attrib;
>
<!--end of function.attlist-->]]>
<!--end of function.module-->]]>

<!ENTITY % guibutton.module "INCLUDE">
<![%guibutton.module;]
<!ENTITY % local.guibutton.attrib " ">
%common.attrib;
%hardware.role.attrib;
%local.hardware.attrib;
>
<!--end of hardware.attlist-->]
<!--end of hardware.module-->]

<!ENTITY % interface.module "INCLUDE">
<![%interface.module;]
<!ENTITY % local.interface.attrib "">
<!ENTITY % interface.role.attrib "%role.attrib;">  

<!ENTITY % interface.element "INCLUDE">
<![%interface.element;]
<!doc:An element of a GUI.-->
<!ELEMENT interface %ho; (%smallcptr.char.mix;[accel])*>  
<!--end of interface.element-->]]>

<!-- Class: Type of the Interface item; no default -->

<!ENTITY % interface.attlist "INCLUDE">
<![%interface.attlist;]
<!ATTLIST interface
%moreinfo.attrib;
%common.attrib;
%interface.role.attrib;
%local.interface.attrib;
>
<!--end of interface.attlist-->]]
<!--end of interface.module-->]]>

<!ENTITY % keycap.module "INCLUDE">
<![%keycap.module;]
<!ENTITY % local.keycap.attrib "">
<!ENTITY % keycap.role.attrib "%role.attrib;">  

<!ENTITY % keycap.element "INCLUDE">
<![%keycap.element;]
<!doc:The text printed on a key on a keyboard.-->
<!ELEMENT keycap %ho; (%cptr.char.mix;)*>  
<!--end of keycap.element-->]]>

<!ENTITY % keycap.attlist "INCLUDE">
<![%keycap.attlist;]
<!ATTLIST keycap
function(alt | control |
<!--doc:The classification of a value.-->
<!ELEMENT type %ho; (%smallcptr.char.mix;)*>
<!--end of type.element-->

<!ENTITY % type.attlist "INCLUDE">
<![%type.attlist;]
<!ATTLIST type
%common.attrib;
%type.role.attrib;
%local.type.attrib;
>
<!--end of type.attlist-->]]>
<!--end of type.module-->]]>

<!ENTITY % userinput.module "INCLUDE">
<![%userinput.module;]
<!ENTITY % local.userinput.attrib "">
<!ENTITY % userinput.role.attrib "%role.attrib;">  

<!ENTITY % userinput.element "INCLUDE">
<![%userinput.element;]
<!--doc:Data entered by the user.-->
<!ELEMENT userinput %ho; (%cptr.char.mix;co)*>
<!--end of userinput.element-->]]>

<!ENTITY % userinput.attlist "INCLUDE">
<![%userinput.attlist;]
<!ATTLIST userinput
%moreinfo.attrib;
%common.attrib;
%userinput.role.attrib;
%local.userinput.attrib;
>
<!--end of userinput.attlist-->]]>
<!--end of userinput.module-->]]>

<!ENTITY % termdef.module "INCLUDE">
<![%termdef.module;]
<!ENTITY % local.termdef.attrib "">
<!ENTITY % termdef.role.attrib "%role.attrib;">  

<!ENTITY % termdef.element "INCLUDE">
<![%termdef.element;]
<!--doc:An inline definition of a term.-->
<!ELEMENT termdef %ho; (%para.char.mix;)*>
<!--end of termdef.element-->]]>

<!ENTITY % termdef.attlist "INCLUDE">
<!-- Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) -->
<!-- Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) -->
<!-- Class: Indicates type of IndexTerm: default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges -->
<!-- StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm -->
<!-- Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs -->

<!ENTITY % indexterm.attlist "INCLUDE">
<![%indexterm.attlist;]
<!ATTLIST indexterm
%pagenum.attrib;
scope(all [global [local])#IMPLIED
significance(preferred [normal)"normal"
class(singular [startofrange [endofrange)#IMPLIED
startrefIDREF#IMPLIED
zoneIDREFS#IMPLIED
typeCDATA#IMPLIED
%common.attrib;
%indexterm.role.attrib;
%local.indexterm.attrib;
> }
<![-end of indexterm.attlist-- ]>]]>
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and users are likely to use.

This module has been developed for use with the DocBook V4.5 "union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % htmltbl PUBLIC
"-//OASIS//ELEMENTS DocBook XML HTML Tables V4.5//EN"
"htmltblx.mod">
%htmltbl;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->

<!--======================= XHTML Tables =======================================-->

```xml
<!ENTITY % html.coreattrs
"%common.attrib;
class CDATA  #IMPLIED
style CDATA  #IMPLIED
title CDATA  #IMPLIED"
>

<!ENTITY % i18n "xml:lang NMTOKEN #IMPLIED"
>

<!ENTITY % events
"onclick CDATA  #IMPLIED
ondblclick CDATA  #IMPLIED
onmousedown CDATA  #IMPLIED
onmouseup CDATA  #IMPLIED
onmouseover CDATA  #IMPLIED
onmousemove CDATA  #IMPLIED
onmouseout CDATA  #IMPLIED
onkeypress CDATA  #IMPLIED
onkeydown CDATA  #IMPLIED
"
<pre>
<!-- Set up to read in the CALS model configured to merge with the XHTML table model -->
<!ENTITY % tables.role.attrib "%role.attrib;">
<!ENTITY % bodyatt "
floatstyle CDATA #IMPLIED
rowheader (firstcol|norowheader) #IMPLIED
%label.attrib;">
</pre>

<table>
<thead>
<tr>
<th>th</th>
<th>abbr</th>
<th>headers</th>
<th>scope</th>
<th>colspan</th>
<th></th>
<th>colspan</th>
</tr>
</thead>
<tbody>
<tr>
<td>td</td>
<td>abbr</td>
<td>headers</td>
<td>scope</td>
<td>colspan</td>
<td></td>
<td>colspan</td>
</tr>
</tbody>
</table>

<-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row,
EntryTbl, and Entry (and InformalTable element). -->

<!-- Content model for Table (that also allows HTML tables) -->
<!ENTITY % tbl.table.mdl "((blockinfo?,
    (%formalobject.title.content;),
    (%ndxterm.class;)*,
    textobject*,
    (graphic+|mediaobject+|tgroup+)
    |(caption, (col*[colgroup*],thead?, tfoot?, (tbody+|tr+)))")>

<!-- Attributes for Table (including HTML ones) -->
<!ENTITY % tbl.table.att '
    tabstyle CDATA  #IMPLIED
tocentry %yesorno.attvals;  #IMPLIED
shortentry %yesorno.attvals;  #IMPLIED
orient  (port|land)    #IMPLIED
pgwide  %yesorno.attvals;  #IMPLIED
summary  CDATA   #IMPLIED
width   CDATA     #IMPLIED
border  CDATA     #IMPLIED
rules   CDATA#IMPLIED
cellspacing CDATA   #IMPLIED
cellpadding CDATA   #IMPLIED
align   (left|center|right) #IMPLIED
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<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.5//EN" "dbhierx.mod"> %dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Entities for module inclusions ......................... -->
<!ENTITY % dbhier.redecl.module "IGNORE">  
<!ENTITY % dbhier.redecl2.module "IGNORE">  

<!-- Entities for element classes .................................. -->
<!ENTITY % local.appendix.class "">  
<!ENTITY % appendix.class "appendix %local.appendix.class;">  
<!ENTITY % local.article.class "">  
<!ENTITY % article.class "article %local.article.class;">  
<!ENTITY % local.book.class "">
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
</head>
<body>

<!-- Note that Part was to have its content model reduced in V4.5. This -->

</body>
</html>
<ENTITY % sect1.role.attrib "INCLUDE">
<![%sect1.role.attrib;>
<!--end of sect1.attrib-->
<!--end of sect1.module-->

<!--doc:A subsection within a Sect1.-->
<!ELEMENT sect2 %ho; (sect2info?, (%sect.title.content;), (%nav.class;)*,
((%divcomponent.mix;)+,
((%refentry.class;)* | sect3* | simplesect*)
| (%refentry.class;)+ | sect3+ | simplesect+), (%nav.class;)*)
<!--end of sect2.element-->
</!DOCTYPE PUBLIC "-//NIST//DTD Standard Generalized Markup Language SGML 1.0//EN"
"http://www.opengroup.org/onlinepubs/000444399/dtds/sgml_1_0.dtd">
<!ENTITY % sect1.module "INCLUDE">
<![%sect1.module;]
<!--doc:A subsection within a Sect1.-->
<!ENTITY % local.sect1.attrib "">
<!--ENTITY % sect1.role.attrib "%role.attrib;" ->
<!--ENTITY % sect2.module "INCLUDE">
<![%sect2.module;]
<!--ENTITY % local.sect2.attrib "">
<!--ENTITY % sect2.role.attrib "%role.attrib;" ->
<!--ENTITY % sect2.element "INCLUDE">
<![%sect2.element;>
<!entities: A subsection within a Sect1.-->
<!DOCTYPE PUBLIC "-//NIST//DTD Standard Generalized Markup Language SGML 1.0//EN"
"http://www.opengroup.org/onlinepubs/000444399/dtds/sgml_1_0.dtd">
<!ENTITY % sect2.attlist "INCLUDE">
<![%sect2.attlist;]
<!ATTLIST sect2
renderas(sect1
|sect3
|sect4
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect2.role.attrib;
%local.sect2.attrib;
>
<!--end of sect2.attlist-->
<!--end of sect2.module-->

<!--ENTITY % sect3.module "INCLUDE">
<![%sect3.module;]
<!--ENTITY % local.sect3.attrib "">
<!--ENTITY % sect3.role.attrib "%role.attrib;" ->
<!--ENTITY % sect3.element "INCLUDE">
<![%sect3.element;>
<!entities: A subsection within a Sect1.-->
<!DOCTYPE PUBLIC "-//NIST//DTD Standard Generalized Markup Language SGML 1.0//EN"
"http://www.opengroup.org/onlinepubs/000444399/dtds/sgml_1_0.dtd">
<!ENTITY % sect3.attlist "INCLUDE">
<![%sect3.attlist;]
<!ATTLIST sect3
renderas(sect1
|sect3
|sect4
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect3.role.attrib;
%local.sect3.attrib;
>
<!--end of sect3.attlist-->
<!--end of sect3.module-->

<!--ENTITY % sect4.module "INCLUDE">
<![%sect4.module;]
<!--ENTITY % local.sect4.attrib "">
<!--ENTITY % sect4.role.attrib "%role.attrib;" ->
<!--ENTITY % sect4.element "INCLUDE">
<![%sect4.element;>
<!entities: A subsection within a Sect1.-->
<!ENTITY % index.attlist "INCLUDE">
<![<!%index.attlist;[
<!ATTLIST index
typeCDATA#IMPLIED
%common.attrib;
%indexes.role.attrib;
%local.indexes.attrib;
>]
<!--end of index.attlist-->]]>

<!ENTITY % setindex.element "INCLUDE">
<![<!%setindex.element;[
<!--doc:An index to a set of books.-->
<!ELEMENT setindex %ho; (setindexinfo?,
   (%bookcomponent.title.content;)?,
   (component.mix;)*,
   (indexdiv* | indexentry*))
%ndxterm.exclusion;>
<!--end of setindex.element-->]]>

<!ENTITY % setindex.attlist "INCLUDE">
<![<!%setindex.attlist;[
<!ATTLIST setindex
%common.attrib;
%indexes.role.attrib;
%local.indexes.attrib;
>]
<!--end of setindex.attlist-->]]>

<!ENTITY % indexdiv.module "INCLUDE">
<![<!%indexdiv.module;[
<!-- SegmentedList in this content is useful for marking up permuted
    indices. -->

<!ENTITY % local.indexdiv.attrib "">
<!ENTITY % indexdiv.role.attrib "%role.attrib;">

<!ENTITY % indexdiv.element "INCLUDE">
<![<!%indexdiv.element;[
<!--doc:A division in an index.-->
<!ELEMENT indexdiv %ho; ((%sect.title.content;)?, ((%indexdivcomponent.mix;)*,
   (indexdiv* | indexentry*))
%ndxterm.exclusion;>
<!--end of indexdiv.element-->]]>
<!-- Index entries appear in the index, not the text. -->

<!-- to IndexTerms that these entries represent -->
<!ENTITY % local.refpurpose.attrib "">
<!ENTITY % refpurpose.role.attrib "role.attrib;">

<!ENTITY % refpurpose.element "INCLUDE">
<![refpurpose.element;][--doc:A short (one sentence) synopsis of the topic of a reference page.-->
<!ELEMENT refpurpose %ho; (%refinline.char.mix;)*>
<![end of refpurpose.element-->]]>

<!ENTITY % refpurpose.atlist "INCLUDE">
<![refpurpose.atlist;[ATTLIST refpurpose %common.attrib;
%refpurpose.role.attrib;
%local.refpurpose.attrib;
>]]>
<![end of refpurpose.atlist-->]]>
<![end of refpurpose.module-->]]>

<!ENTITY % refclass.module "INCLUDE">
<![refclass.module;[
<!ENTITY % local.refclass.attrib "">
<!ENTITY % refclass.role.attrib "%role.attrib;">

<!ENTITY % refclass.element "INCLUDE">
<![refclass.element;][--doc:The scope or other indication of applicability of a reference entry.-->
<!ELEMENT refclass %ho; (%refclass.char.mix;)*>
<![end of refclass.element-->]]>
<![end of refclass.element-->]]>
<![end of refclass.module-->]]>

<!ENTITY % refsynopsisdiv.module "INCLUDE">
<![refsynopsisdiv.module;[
<!ENTITY % local.refsynopsisdiv.attrib "">
<!ENTITY % refsynopsisdiv.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdiv.element "INCLUDE">
<![refsynopsisdiv.element;][--doc:A syntactic synopsis of the subject of the reference page.-->

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">

<html>
<head>
<title>Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 55670</title>
</head>
<body>

</body>
</html>
An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book.

Class: Indicates the type of a particular article; all articles have the same structure and general purpose. No default.

ParentBook: ID of the enclosing Book.
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<!-- ...................................................................... -->

<ENTITY % ISOamsa.module "INCLUDE">
<ENTITY % ISOamsb.module "INCLUDE">
%ISOamsa;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...................................................................... -->

<!ENTITY % dbcent PUBLIC "-//OASIS//ENTITIES DocBook Character Entities V4.5//EN" "dbcentx.mod">
%dbcent;

<!ENTITY % ISOamsa.module "INCLUDE">
<ENTITY % ISOamsb.module "INCLUDE">
%ISOamsa;

<!ENTITY % dbcent PUBLIC "-//OASIS//ENTITIES DocBook Character Entities V4.5//EN" "dbcentx.mod">
%dbcent;

<!ENTITY % ISOamsa.module "INCLUDE">
<ENTITY % ISOamsb.module "INCLUDE">
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<!-- ...................................................................... -->
<!-- DocBook notations module V4.5 ........................................ -->
<!-- File dbnotnx.mod ..................................................... -->

<!-- This module contains the notation declarations used by DocBook. -->
In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbnotn PUBLIC "-//OASIS//ENTITIES DocBook Notations V4.5//EN" "dbnotnx.mod">
%dbnotn;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!ENTITY % local.notation.class "">
<!ENTITY % notation.class "BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
| EPS | EQN | FAX | GIF | GIF87a | GIF89a
| JPG | JPEG | IGES | PCX
| PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
| SVG | PDF | SWF
| line specific
%local.notation.class;" >

<!NOTATION BMPPUBLIC
"+/ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFFSYSTEM "DITROFF">
<!NOTATION DVISYSTEM "DVI">
<!NOTATION EPPUBLIC
<!NOTATION EQNSYSTEM "EQN">
<!NOTATION FAXPUBLIC
"-/USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untiled Raster//EN">
<!NOTATION GIFSYSTEM "GIF">
<!NOTATION GIF87a PUBLIC
"-/CompuServe//NOTATION Graphics Interchange Format 87a//EN">
<!NOTATION GIF89a PUBLIC
"-/CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPGSYSTEM "JPG">
<!NOTATION JPEGSYSTEM "JPG">
<!NOTATION IGESPUBLIC
<!NOTATION PCXPUBLIC
"/>
1.5427 webex-http-core 1.80.69

1.5427.1 Available under license:
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Found in path(s):
* /opt/cola/permissions/1229315438_1645823753.46/0/docbook-xml-4.5.0/docbook-xml-4-5-0/docbook-xml-4.5.0/dbnotnx.mod

1.5428 array-union 1.0.2

1.5428.1 Available under license:
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1.5429 spring-aop 3.2.18.RELEASE

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 */

Found in path(s):
* /opt/cola/permits/1151704487_1617967070.56/0/spring-aop-3-2-18-release-sources-3-jar/org/springframework/aop/support/ExpressionPointcut.java
* /opt/cola/permits/1151704487_1617967070.56/0/spring-aop-3-2-18-release-sources-3-jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
* /opt/cola/permits/1151704487_1617967070.56/0/spring-aop-3-2-18-release-sources-3-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
* /opt/cola/permits/1151704487_1617967070.56/0/spring-aop-3-2-18-release-sources-3-jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java

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  jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
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* /opt/cola/permits/1151704487_1617967070.56/0/spring-aop-3-2-18-release-sources-3-jar/org/springframework/aop/framework/autoproxy/AbstractAutoProxyCreator.java
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Eclipse
The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jettyschemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.5434 @babel/plugin-proposal-class-properties 7.7.4

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1.5435 jaggeryjs-jaggery-core 0.12.6

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1.5440 properties 1.8.1

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<signature of Ty Coon>, 1 April 1989
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The hypothetical commands `show w' and `show c' should show the
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 3, 29 June 2007

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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1.5463 rimraf 2.6.3

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  jar/org/apache/xerces/impl/xs/identity/Selector.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DocumentImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/jaxp/validation/ValidatorImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLNamespaceBinder.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSConstants.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XSGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/IntegerDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/NSItemListImpl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASContentTypeModel.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ChildNode.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/NamespaceSupport.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSNotationDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSWildcardTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLIEElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLTemplateElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLModElementImpl.java
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  jar/org/apache/xerces/impl/xs/util/XSNamedMapImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/util/XSNamedMap4Types.java
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  jar/org/apache/xerces/impl/dv/xs/AnyAtomicDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/ExternalSubsetResolver.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xerces/impl/dv(xs/PrecisionDecimalDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/SAXMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/util/MalformedByteSequenceException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/io/ByteListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/parsers/XML11Configurable.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xs/XSLoaderImpl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dom/XMLDTDScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xs/XSGroupDecl.java

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 */
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode  The <code>mode</code> argument is either
 *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_SYNNCHRONOUS</code>, if
 *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 *   <code>LSParser</code> that is created will operate in synchronous
 *   mode, if it's <code>MODE_SYNCHRONOUS</code> then the
 *   <code>LSParser</code> that is created will operate in asynchronous
 *   mode.
 * @param schemaType  An absolute URI representing the type of the schema
 * language used during the load of a <code>Document</code> using the
 * newly created <code>LSParser</code>. Note that no lexical checking
 * is done on the absolute URI. In order to create a
 * <code>LSParser</code> for any kind of schema types (i.e. the
 * LSParser will be free to use any schema found), use the value
 * <code>null</code>.
* <p> Note:</b> For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/'>XML Schema Part 1</a>]
* applications must use the value
* <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
* applications must use the value
* <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* @return The newly created <code>LSParser</code> object. This
* <code>LSParser</code> is either synchronous or asynchronous
* depending on the value of the <code>mode</code> argument.
* <p> Note:</b> By default, the newly created <code>LSParser</code>
* does not contain a <code>DOMErrorHandler</code>, i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>"
* configuration parameter is <code>null</code>. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the <code>"error-handler"</code> configuration
* parameter on the new created <code>LSParser</code> contains a
* reference to the default error handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
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  jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
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  jar/org/apache/xerces/impl/dv/xs/TimeDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XObject.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLStrongElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLEmElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSelectElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTrElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDoElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLCardElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLMetaElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBuilder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLFieldsetElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSetvarElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTemplateElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLGoElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLInputElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLImgElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDocument.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLPrevElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAnchorElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLRefreshElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAccessElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLInputElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTableElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLWmlElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/SimpleLocator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dtd/ModelListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/text/TextLeaf.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/impl/jvm/JVMEnvImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dtd/CharactersImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/impl/impl/IdImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/impl/EncodingName.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/impl/ElementName.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/impl/SchemaModel.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xs/identity/FieldActivator.java
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jar/org/apache/xerces/impl/xpath/regex/Token.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dom/ElementNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dtd/models/CMStateSet.java

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with the Library, with the complete machine-readable "work that
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1.5472 python-requests 2.27.1

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1.5473 wso2-carbon-event-template-manager-admin 5.1.42

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package spec

   // License information for the exposed API.
   //
   // For more information: http://goo.gl/8us55a#licenseObject
type License struct {
   Name string `json:"name,omitempty"
   URL string `json:"url,omitempty"
}

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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{"the name", "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = `name: the name
url: the url`

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

1.5476 golangprotobufprotobuf-extensions v1.5.2

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1.5484 kcors 2.2.2

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
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user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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>>> aws-aws-sdk-go-aws-master
>>> coreos_etcd_client-781196fa8746d6ce3ace2a62898051af6dc46002
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>>> coreos_go_semver_semver-5e3acbb5668c4c3de4b482615c4098eb61f6b1e
>>> docker_distribution-28602af35aced2f8d571bad7ca37a54cf0250bce
>>> docker_go-events-aa2e3b613fbbfdd4e2c05f57bed5b3ca271cfed83eca
>>> docker_libnetwork-fd27f22aa35ed357186b88f919d05b744f431fd
>>> docker_libtrust-9c6b2a1374f6905c684ebeb36941a30610ade62a
>>> go-openapi_analysis-d5a7b7d751ca3f11ad59d3c9f794705f2c3f6a47
>>> go-openapi_errors-fc3f73a224499b047eda7191e5d22e1e9631e86f
>>> go-openapi_jsonreference-779f45300c81920f1a69e9a4cd965f496e0da10f
>>> go-openapi_jsonpointer-779f45300c81920f1a69e9a4cd965f496e0da10f
>>> go-openapi_spec-e072eb23903a07376a6e6b6173d3048369160447
>>> go-openapi_strfmt-0cb3db44c13bad33f5677b62a667519723a10cc
>>> go-openapi_swag-96d7b9ed1b1a717351a1c9ac8791f4b32bf56fc9
>>> go-openapi_validate-0353ed7f41f61e83debe1c229503dc5356e7e4b2
>>> go_compute_metadata-cd0da878ce6b0901006d274703ab62192b3e387e0
>>> go_international-cd0da878ce6b0901006d274703ab62192b3e387e0
>>> golang_glog-23def4e6c14b4da8ac2ed80073737bc5eb507998
>>> golang_groupcache_0ru-72d0f49f0dec7d3821820cc4af6150eae553639a
>>> govmomi-v0.17.1
>>> maruel_panicparse_stack-25bcac0793cf4109483507ad66e0663a90a80
>>> oxtocart/bpool-4e1c5567d7c2dd59fa4e783d342f352bb052d6
>>> syncutil/singleflight-7ce08ca145dbe066a127c447b08ee791f4e3e49
>>> vdemeester_shakers-24df7f1d6a71aa59d9eb739064af66eb7ee9e1b3
>>> vishvananda_netlink-482f1a52b78853251878cbb65904b6b6f3457
>>> vishvananda_netns-604aaf189ee867d8c147f4af28def394e878d25
>>> yaml_v2-2ce78c9757c8c256c6d14642e42be5941d6f3a6

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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3dcd66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26caa9e3d239e2feb3432a2

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>>> golang_groupcache_lru-72d04f9fdec7c3821820cc4a6f1500e553639a

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```bash
>>> codegangsta/inject-33e0aa1cb7c019ccc3fbe049a8262a6403d30504
```
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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798f9b9cbe4073ef1f88e6069ca4a2c6aa6676b

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>>> go-check_check-20d25e2804050c1cd24a7ee1e7a6447dd0e74ec

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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>>> gogo_protobuf_gogoprotoc-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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http:github.com/gogo/protobuf

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The internal routines of crypto and the difficulty of the	RSA encryption are described in greater detail in the
textbook "Introduction to Cryptography" by H. W. Lenstra Jr.
and K. A. Ribet. The crypto routines are implemented
using a combination of the OpenSSL and PPMC libraries.

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>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_crypto_salsa20_salsa-728b753d0135da6801d45a38e6f43ff55779c5c2

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```plaintext
>>> x_crypto_ssh-728b753d0135da6801d45a38e6f43ff55779c5c2
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lib/gssapi/generic/gssapi_err_generic.et
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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Tim Kientzle, February 2009.

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For the verification of the code, its output sequence file
mt19937int.out is attached (2001/4/2)

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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SHA-1 in C
By Steve Reid <sreid@sea-to-sky.net>
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Compiler: JavaScript

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Written by Gary V. Vaughan, 2004

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>>> libffi-3.2.1-5.ph2

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Linux-PAM-1.3.0.tar.bz2/Linux-PAM-1.3.0.tar/Linux-PAM-1.3.0/conf/pam_conv1/pam_conv_y.c

Bison implementation for Yacc-like parsers in C


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```
-- vile: txtmode file-encoding=utf-8

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
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SYN signatures. Those signatures work for SYN packets only (duh!).

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his C header file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2.

Written by John R. Hauser.  This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704.  Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt

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Reasonably optimised generic C-code for memcpy on Microblaze
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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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mkinstalldirs --- make directory hierarchy
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line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.
Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no) to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but /use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn, chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let those who say nay be forever silent and think about how getpwnam (and family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poe $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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Bison interface for Yacc-like parsers in C


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/B Bison implementation for Yacc-like parsers in C


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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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/ 

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Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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nss-3.31.1\nss\cmd\libpkix\pkix_pl\module\test_socket.c

Test Socket Type

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---------- SECTION 4: GNU Library General Public License, V2.0 ----------

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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free software--to make sure the software is free for all its users.

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your libraries, too.

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These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Version 2.1, February 1999

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Version 3, 29 June 2007

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-------------------------

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@import './layout';
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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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  border-radius: $radius-small;
  border-width: 1px;
}
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%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
  @extend %notice;
}
%notice-success {
  @extend %frame-green-500, %with-passing;
}
%notice-info {
  @extend %frame-blue-500, %with-passing; /* needs a better info button*/
}
%notice-highlight {
  @extend %frame-gray-800, %with-star;
}
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---

layout: api
page_title: License - Operator - HTTP API
sidebar_current: api-operator-license
description: |-
The /operator/license endpoints allow for setting and retrieving the Consul Enterprise License.
---

# License - Operator HTTP API

-> **Enterprise Only!** This API endpoint and functionality only exists in Consul Enterprise. This is not present in the open source version of Consul.

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required | |
| ---------------- | ----------------- | ------------- | ------------ | |
| `NO`             | `all`             | `none`        | `none`       | |

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request
```bash
$ curl
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
   "Valid": true,
   "License": {
      "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
      "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
      "installation_id": "*",
      "issue_time": "2018-05-21T20:03:35.911567355Z",
      "start_time": "2018-05-21T04:00:00Z",
      "expiration_time": "2019-05-22T03:59:59.999Z",
      "product": "consul",
      "flags": {
         "package": "premium"
      },
      "features": [
         "Automated Backups",
         "Automated Upgrades",
         "Enhanced Read Scalability",
         "Network Segments",
         "Redundancy Zone",
         "Advanced Network Federation"
      ],
      "temporary": false
   },
   "Warnings": []
}
```

## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUT</td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), and [agent caching](/api/features/caching.html), and
[required ACLs](/api/index.html#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```
$ curl \
--request PUT \
--data @consul.license \
http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ]
  }
}
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- emitterc.go
- parserc.go
- readerc.go
- scannerc.go
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mgo - MongoDB driver for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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 */

package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"
// no documentation yet
Name *string `json:"name,omitempty"` xmlrpc:"name,omitempty"
}
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1.5492 wso2-carbon-user-mgt-workflow-stub

5.12.153

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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard { @link java.lang.Appendable } and provides methods to append UTF-8 encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to { @link #append(byte) } may be needed before state a character is appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was inspired by
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 * @(#)UnixCrypt.java	0.9 96/11/25
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1.5513 stax-api 1.0.1

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1.5515 lcms 2.9-2.el8

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```perl
$properties->license = License::schema();
```

Found in path(s):
* /opt/cola/permits/1231169960_1637613933.15/0/swaggest-php-json-schema-v0-4-0-0-gdfb0dd7-zip/swaggest-php-json-schema-dfb0dd7/src/SwaggerSchema/Info.php

### 1.5517 jackson-databind 2.9.6

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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### 1.5518 punycode 2.1.1

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=begin comment

{{#appName}}

{{/appName}}

{{#appDescription}}

{{/appDescription}}

{{#version}}OpenAPI spec version: {{version}}{{/version}}

{{#infoEmail}}Contact: {{{infoEmail}}}{{/infoEmail}}

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1.5521 libnss 3.42.1-1+deb10u3

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1.5523 go-openapi-spec 0.19.8

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import (  
"encoding/json"  
"testing"  
  
"github.com/stretchr/testify/assert"
)

var license = License{  
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},  
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {  
  const licenseYAML = "name: the name\nurl: the url"

  b, err := json.MarshalIndent(license, "", "\t")  
  if assert.NoError(t, err) {  
    assert.Equal(t, licenseJSON, string(b))  
  }

  actual := License{}  
  err = json.Unmarshal([]byte(licenseJSON), &actual)  
  if assert.NoError(t, err) {  
    assert.EqualValues(t, license, actual)  
  }

  }

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import {
    "encoding/json"
    "github.com/go-openapi/swag"
}

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}
1.5524 wso2-carbon-captcha-mgt 4.5.2

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1.5531 nytimes-gziphandler 1.1.1

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1.5533 shadow 4.5-1.1

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HPPC library integrates the following classes from other open-source projects:

- fast BitSets from Apache Lucene (Apache license; same as HPPC).

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authors make in writing HTML documents. NekoHTML adds missing parent
elements; automatically closes elements with optional end tags; and can
handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the
foundation of the Xerces2 implementation. This enables you to use the
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boilerpipe

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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

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Woodstox is an XML-parser that allows parsing of XML documents in so-called pull mode (aka "pull parsing"). It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>.

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* javax.servlet:javax.servlet-api
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* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)
// Automatically generated.
"bigtable/cmd/cbt/cbtdoc.go": true,

// BSD license, which is compatible, is embedded in the file.
"cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

"third_party/pkgsite/print_type.go": true,
"third_party/pkgsite/synopsis.go": true,
}
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
if err != nil {
return err
}
if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
return nil
}
if strings.HasSuffix(path, ".pb.go") {
// .pb.go files are generated from the proto files.
// .proto files must have license headers.
return nil
}
if skip[path] {
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
  t.Errorf("%v: license header not present. want %q", path, sentinel)
  return nil
}
}

return nil
})
if err != nil {
  t.Fatal(err)
}
}

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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1.5552 @babel/plugin-transform-template-literals 7.18.6

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  jar/org/reactivestreams/Subscriber.java
* /opt/ws_local/PERMITS_SQL/1092915250_1600810885.15/0/reactive-streams-1-0-2-sources-1-
  jar/org/reactivestreams/Subscription.java
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  jar/org/reactivestreams/Publisher.java
* /opt/ws_local/PERMITS_SQL/1092915250_1600810885.15/0/reactive-streams-1-0-2-sources-1-
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1.5554 tsscmp 1.0.6

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import (
    "encoding/json"
    
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-------------------------------------------------------------
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1.5579 gnome-icon-theme 3.12.0 2

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1.5580 strip-dirs 2.1.0

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Version 2.0, January 2004

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---
abstract: 'Create or remove directory trees'
author:
  - unknown
build_requires:
  Carp: '0'
  Config: '0'
  Errno: '0'
  ExtUtils::MakeMaker: '0'
  Fcntl: '0'
  File::Spec::Functions: '0'
  SelectSaver: '0'
  Test::Simple: '0.44'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
NAME
File::Path - Create or remove directory trees

INSTALLATION
perl Makefile.PL
make
make test
make install

PREREQUISITES
All prerequisites are found in the Perl 5 core distribution.

To configure:
ExtUtils::MakeMaker

To build:
  Cwd  File::Basename
  Exporter  File::Spec

To test:
  Carp  File::Spec::Functions
  Config  SelectSaver
  Cwd  Test::More
  Errno  Win32  # Windows only
  Fcntl

BUGS
The File-Path bug tracker is located at:
File reports by sending email to:

bug-File-Path@rt.cpan.org

Include test programs or patches as email attachments.

AUTHORS
Prior authors and maintainers: Tim Bunce, Charles Bailey, and David Landgren (david at landgren dot net).

Current maintainers are Richard Elberger (riche at cpan dot org) and James E Keenan (jkeenan at cpan dot org).

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=head1 NAME
File::Path - Create or remove directory trees

=head1 VERSION

=head1 SYNOPSIS

use File::Path qw(make_path remove_tree);

@created = make_path('foo/bar/baz', '/zug/zwang');
@created = make_path('foo/bar/baz', '/zug/zwang', {
    verbose => 1,
    mode => 0711,
});
make_path('foo/bar/baz', '/zug/zwang', {
    chmod => 0777,
$removed_count = remove_tree('foo/bar/baz', '/zug/zwang', {
    verbose => 1,
    error  => \my $err_list,
    safe => 1,
});

# legacy (interface promoted before v2.00)
@created = mkpath('/foo/bar/baz');
@created = mkpath('/foo/bar/baz', 1, 0711);
@created = mkpath(['/foo/bar/baz', 'blurfl/quux'], 1, 0711);
$removed_count = rmtree('foo/bar/baz', 1, 1);
$removed_count = rmtree(['/foo/bar/baz', 'blurfl/quux'], 1, 1);

# legacy (interface promoted before v2.06)
@created = mkpath('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
$removed_count = rmtree('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });

=head1 DESCRIPTION

This module provides a convenient way to create directories of arbitrary depth and to delete an entire directory subtree from the filesystem.

The following functions are provided:

=item make_path( $dir1, $dir2, ... )

=item make_path( $dir1, $dir2, ..., \%opts )

The C<make_path> function creates the given directories if they don’t exist before, much like the Unix command C<mkdir -p>.

The function accepts a list of directories to be created. Its behaviour may be tuned by an optional hashref appearing as the last parameter on the call.

The function returns the list of directories actually created during the call; in scalar context the number of directories created.

The following keys are recognised in the option hash:

=item mode => $num
The numeric permissions mode to apply to each created directory (defaults to C<0777>), to be modified by the current C<umask>. If the directory already exists (and thus does not need to be created), the permissions will not be modified.

C<mask> is recognised as an alias for this parameter.

=item chmod => $num

Takes a numeric mode to apply to each created directory (not modified by the current C<umask>). If the directory already exists (and thus does not need to be created), the permissions will not be modified.

=item verbose => $bool

If present, will cause C<make_path> to print the name of each directory as it is created. By default nothing is printed.

=item error => \$err

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L</"ERROR HANDLING"> section for more information.

If this parameter is not used, certain error conditions may raise a fatal error that will cause the program to halt, unless trapped in an C<eval> block.

=item owner => $owner

=item user => $owner

=item uid => $owner

If present, will cause any created directory to be owned by C<$owner>. If the value is numeric, it will be interpreted as a uid; otherwise a username is assumed. An error will be issued if the username cannot be mapped to a uid, the uid does not exist or the process lacks the privileges to change ownership.

Ownership of directories that already exist will not be changed.

C<user> and C<uid> are aliases of C<owner>.

=item group => $group
If present, will cause any created directory to be owned by the group \texttt{C<$group>}. If the value is numeric, it will be interpreted as a gid; otherwise a group name is assumed. An error will be issued if the group name cannot be mapped to a gid, the gid does not exist or the process lacks the privileges to change group ownership.

Group ownership of directories that already exist will not be changed.

```
make_path '/var/tmp/webcache', {owner=>'nobody', group=>'nogroup'};
```

The \texttt{C<mkpath()>} function provide the legacy interface of \texttt{C<make_path()>} with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to \texttt{C<make_path()>}.

```
remove_tree( $dir1, $dir2, ....)
```

The \texttt{C<remove_tree>} function deletes the given directories and any files and subdirectories they might contain, much like the Unix command \texttt{C<rm -rf>} or the Windows commands \texttt{C<rmdir /s>} and \texttt{C<rd /s>}. The function accepts a list of directories to be removed. (In point of fact, it will also accept filesystem entries which are not directories, such as regular files and symlinks. But, as its name suggests, its intent is to remove trees rather than individual files.)

\texttt{C<remove_tree()>}'s behaviour may be tuned by an optional hashref appearing as the last parameter on the call. If an empty string is passed to \texttt{C<remove_tree>}, an error will occur.

\textbf{NOTE:} For security reasons, we strongly advise use of the hashref-as-final-argument syntax -- specifically, with a setting of the \texttt{C<safe>} element to a true value.

```
remove_tree( $dir1, $dir2, ....,
```
{  
    safe => 1,  
    ...  
  # other key-value pairs  
},  
);

The function returns the number of files successfully deleted.

The following keys are recognised in the option hash:

=over

=item verbose => $bool

If present, will cause C<remove_tree> to print the name of each file as it is unlinked. By default nothing is printed.

=item safe => $bool

When set to a true value, will cause C<remove_tree> to skip the files for which the process lacks the required privileges needed to delete files, such as delete privileges on VMS. In other words, the code will make no attempt to alter file permissions. Thus, if the process is interrupted, no filesystem object will be left in a more permissive mode.

=item keep_root => $bool

When set to a true value, will cause all files and subdirectories to be removed, except the initially specified directories. This comes in handy when cleaning out an application's scratch directory.

    remove_tree('/tmp', {keep_root => 1});

=item result => \$res

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store all files and directories unlinked during the call. If nothing is unlinked, the array will be empty.

    remove_tree('/tmp', {result => \my $list});
    print "unlinked \$_\n" for @{$list};

This is a useful alternative to the C<verbose> key.

=item error => \$err
If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L"ERROR HANDLING" section for more information.

Removing things is a much more dangerous proposition than creating things. As such, there are certain conditions that C<remove_tree> may encounter that are so dangerous that the only sane action left is to kill the program.

Use C<error> to trap all that is reasonable (problems with permissions and the like), and let it die if things get out of hand. This is the safest course of action.

=back

=item rmrmtree( $dir )

=item rmrmtree( $dir, $verbose, $safe )

=item rmrmtree( [dir1, dir2,...], $verbose, $safe )

=item rmrmtree( dir1, dir2,..., %opt )

The C<rmtree()> function provide the legacy interface of C<remove_tree()> with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to C<remove_tree()>.

B<NOTE:> For security reasons, we strongly advise use of the hashref-as-final-argument syntax, specifically with a setting of the C<safe> element to a true value.

rmtree( $dir1, $dir2, ...,
    {
        safe => 1,
        ...   # other key-value pairs
    },
);

=back

=head2 ERROR HANDLING

=over 4

=item B<NOTE:>
The following error handling mechanism is consistent throughout all code paths EXCEPT in cases where the ROOT node is nonexistent. In version 2.11 the maintainers attempted to rectify this inconsistency but too many downstream modules encountered problems. In such case, if you require root node evaluation or error checking prior to calling C<make_path> or C<remove_tree>, you should take additional precautions.

=back

If C<make_path> or C<remove_tree> encounters an error, a diagnostic message will be printed to C<STDERR> via C<carp> (for non-fatal errors) or via C<croak> (for fatal errors).

If this behaviour is not desirable, the C<error> attribute may be used to hold a reference to a variable, which will be used to store the diagnostics. The variable is made a reference to an array of hash references. Each hash contain a single key/value pair where the key is the name of the file, and the value is the error message (including the contents of C<$!> when appropriate). If a general error is encountered the diagnostic key will be empty.

An example usage looks like:

```perl
remove_tree( 'foo/bar', 'bar/rat', {error => \my $err} );
if ($err && @$err) {
    for my $diag (@$err) {
        my ($file, $message) = %$diag;
        if ($file eq '') {
            print "general error: $message\n";
        } else {
            print "problem unlinking $file: $message\n";
        }
    }
} else {
    print "No error encountered\n";
}
```

Note that if no errors are encountered, C<$err> will reference an empty array. This means that C<$err> will always end up TRUE; so you need to test C<@$err> to determine if errors occurred.

=head2 NOTES

C<File::Path> blindly exports C<mkpath> and C<rmtree> into the current namespace. These days, this is considered bad style, but to change it now would break too much code. Nonetheless, you are
invited to specify what it is you are expecting to use:

use File::Path 'rmtree';

The routines C<make_path> and C<remove_tree> are B<not> exported by default. You must specify which ones you want to use.

use File::Path 'remove_tree';

Note that a side-effect of the above is that C<mkpath> and C<rmtree> are no longer exported at all. This is due to the way the C<Exporter> module works. If you are migrating a codebase to use the new interface, you will have to list everything explicitly. But that's just good practice anyway.

use File::Path qw(remove_tree rmtree);

=head3 API CHANGES

The API was changed in the 2.0 branch. For a time, C<mkpath> and C<rmtree> tried, unsuccessfully, to deal with the two different calling mechanisms. This approach was considered a failure.

The new semantics are now only available with C<make_path> and C<remove_tree>. The old semantics are only available through C<mkpath> and C<rmtree>. Users are strongly encouraged to upgrade to at least 2.08 in order to avoid surprises.

=head3 SECURITY CONSIDERATIONS

There were race conditions in the 1.x implementations of File::Path's C<rmtree> function (although sometimes patched depending on the OS distribution or platform). The 2.0 version contains code to avoid the problem mentioned in CVE-2002-0435.

See the following pages for more information:

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=286905
http://www.nttp.perl.org/group/perl.perl5.porters/2005/01/msg97623.html

Additionally, unless the C<safe> parameter is set (or the third parameter in the traditional interface is TRUE), should a C<remove_tree> be interrupted, files that were originally in read-only mode may now have their permissions set to a read-write (or "delete OK") mode.

The following CVE reports were previously filed against File-Path and are
believed to have been addressed:

=over 4

=item * L<http://cve.circl.lu/cve/CVE-2004-0452>

=item * L<http://cve.circl.lu/cve/CVE-2005-0448>

=back

In February 2017 the cPanel Security Team reported an additional vulnerability in File-Path. The C<chmod()> logic to make directories traversable can be abused to set the mode on an attacker-chosen file to an attacker-chosen value. This is due to the time-of-check-to-time-of-use (TOCTTOU) race condition (L<https://en.wikipedia.org/wiki/Time_of_check_to_time_of_use>) between the C<stat()> that decides the inode is a directory and the C<chmod()> that tries to make it user-rwx. CPAN versions 2.13 and later incorporate a patch provided by John Lightsey to address this problem. This vulnerability has been reported as CVE-2017-6512.

=head1 DIAGNOSTICS

FATAL errors will cause the program to halt (C<croak>), since the problem is so severe that it would be dangerous to continue. (This can always be trapped with C<eval>, but it's not a good idea. Under the circumstances, dying is the best thing to do).

SEVERE errors may be trapped using the modern interface. If the they are not trapped, or if the old interface is used, such an error will cause the program will halt.

All other errors may be trapped using the modern interface, otherwise they will be C<carp>ed about. Program execution will not be halted.

=over 4

=item mkdir [path]: [errmsg] (SEVERE)

C<make_path> was unable to create the path. Probably some sort of permissions error at the point of departure or insufficient resources (such as free inodes on Unix).

=item No root path(s) specified

C<make_path> was not given any paths to create. This message is only emitted if the routine is called with the traditional interface. The modern interface will remain silent if given nothing to do.
On Windows, if `make_path` gives you this warning, it may mean that you have exceeded your filesystem's maximum path length.

If `remove_tree` attempted to determine the initial directory by calling `Cwd::getcwd`, but the call failed for some reason. No attempt will be made to delete anything.

`remove_tree` attempted to set the working directory in order to begin deleting the objects therein, but was unsuccessful. This is usually a permissions issue. The routine will continue to delete other things, but this directory will be left intact.

`remove_tree` recorded the device and inode of a directory, and then moved into it. It then performed a `stat` on the current directory and detected that the device and inode were no longer the same. As this is at the heart of the race condition problem, the program will die at this point.

`make_tree` attempted to change the permissions on the current directory to ensure that subsequent unlinkings would not run into problems, but was unable to do so. The permissions remain as they were, and the program will carry on, doing the best it can.

`remove_tree` tried to read the contents of the directory in order to acquire the names of the directory entries to be unlinked, but was unsuccessful. This is usually a permissions issue. The program will continue, but the files in this directory will remain after the call.
C<remove_tree>, after having deleted everything in a directory, attempted to restore its permissions to the original state but failed. The directory may wind up being left behind.

=item cannot remove [dir] when cwd is [dir]

The current working directory of the program is F</some/path/to/here> and you are attempting to remove an ancestor, such as F</some/path>. The directory tree is left untouched.

The solution is to C<chdir> out of the child directory to a place outside the directory tree to be removed.

=item cannot chdir to [parent-dir] from [child-dir]: [errmsg], aborting. (FATAL)

C<remove_tree>, after having deleted everything and restored the permissions of a directory, was unable to chdir back to the parent. The program halts to avoid a race condition from occurring.

=item cannot stat prior working directory [dir]: [errmsg], aborting. (FATAL)

C<remove_tree> was unable to stat the parent directory after having returned from the child. Since there is no way of knowing if we returned to where we think we should be (by comparing device and inode) the only way out is to C<croak>.

=item previous directory [parent-dir] changed before entering [child-dir], expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

When C<remove_tree> returned from deleting files in a child directory, a check revealed that the parent directory it returned to wasn't the one it started out from. This is considered a sign of malicious activity.

=item cannot make directory [dir] writeable: [errmsg]

Just before removing a directory (after having successfully removed everything it contained), C<remove_tree> attempted to set the permissions on the directory to ensure it could be removed and failed. Program execution continues, but the directory may possibly not be deleted.

=item cannot remove directory [dir]: [errmsg]

C<remove_tree> attempted to remove a directory, but failed. This may be because some objects that were unable to be removed remain in the directory, or it could be a permissions issue. The directory will be left behind.

=item cannot restore permissions of [dir] to [0nnn]: [errmsg]
After having failed to remove a directory, C<remove_tree> was unable to restore its permissions from a permissive state back to a possibly more restrictive setting. (Permissions given in octal).

=item cannot make file [file] writeable: [errmsg]

C<remove_tree> attempted to force the permissions of a file to ensure it could be deleted, but failed to do so. It will, however, still attempt to unlink the file.

=item cannot unlink file [file]: [errmsg]

C<remove_tree> failed to remove a file. Probably a permissions issue.

=item cannot restore permissions of [file] to [0nnn]: [errmsg]

After having failed to remove a file, C<remove_tree> was also unable to restore the permissions on the file to a possibly less permissive setting. (Permissions given in octal).

=item unable to map [owner] to a uid, ownership not changed”);

C<make_path> was instructed to give the ownership of created directories to the symbolic name [owner], but C<getpwnam> did not return the corresponding numeric uid. The directory will be created, but ownership will not be changed.

=item unable to map [group] to a gid, group ownership not changed

C<make_path> was instructed to give the group ownership of created directories to the symbolic name [group], but C<getgrnam> did not return the corresponding numeric gid. The directory will be created, but group ownership will not be changed.

=back

=head1 SEE ALSO

=over 4

=item *

L<File::Remove>

Allows files and directories to be moved to the Trashcan/Recycle Bin (where they may later be restored if necessary) if the operating system supports such functionality. This feature may one day be
made available directly in `File::Path`.

=item *

`Find::Rule`

When removing directory trees, if you want to examine each file to decide whether to delete it (and possibly leaving large swathes alone), `Find::Rule` offers a convenient and flexible approach to examining directory trees.

=back

=head1 BUGS AND LIMITATIONS

The following describes `File::Path` limitations and how to report bugs.

=head2 MULTITHREADED APPLICATIONS

`File::Path` `rmtree` and `remove_tree` will not work with multithreaded applications due to its use of `chdir`. At this time, no warning or error is generated in this situation. You will certainly encounter unexpected results.

The implementation that surfaces this limitation will not be changed. See the `File::Path::Tiny` module for functionality similar to `File::Path` but which does not `chdir`.

=head2 NFS Mount Points

`File::Path` is not responsible for triggering the automounts, mirror mounts, and the contents of network mounted filesystems. If your NFS implementation requires an action to be performed on the filesystem in order for `File::Path` to perform operations, it is strongly suggested you assure filesystem availability by reading the root of the mounted filesystem.

=head2 REPORTING BUGS

Please report all bugs on the RT queue, either via the web interface:

`http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path`

or by email:

`bug-File-Path@rt.cpan.org`

In either case, please B<attach> patches to the bug report rather than including them inline in the web post or the body of the email.
You can also send pull requests to the Github repository:

L<https://github.com/rpcme/File-Path>

=head1 ACKNOWLEDGEMENTS

Paul Szabo identified the race condition originally, and Brendan O'Dea wrote an implementation for Debian that addressed the problem. That code was used as a basis for the current code. Their efforts are greatly appreciated.

Gisle Aas made a number of improvements to the documentation for 2.07 and his advice and assistance is also greatly appreciated.

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[[contributing-to-docs]]
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This section shows you how to contribute to the Strimzi documentation and contains important guidelines for creating accessible content.
== Getting started

Before you begin you need to:

. xref:setting-up-git[Install and set up Git]

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  ** Include a caption
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.Example image caption and description
[source,asciidoc]
----
.Operators within the Strimzi architecture
image:operators.png[Operators within the Strimzi architecture]
----

.Example table headings
[source,asciidoc]
----
.File connectors
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<table>
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<th>File Connector</th>
</tr>
</thead>
<tbody>
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<td>FileStreamSourceConnector</td>
</tr>
<tr>
<td>Transfers data to your Kafka cluster from a file (the source).</td>
</tr>
<tr>
<td>---</td>
</tr>
</tbody>
</table>
Once you have your local repository set up and have up to date copies of upstream content you need to follow these steps to contribute to the documentation.

Procedure

. Open your terminal
. `cd` to the directory where your documentation resides
. Checkout the main branch
+ [source]
----
$ git checkout main
----
. Update your local repository and fork with the upstream content
+ [source]
----
$ git pull upstream main
$ git push origin main --force
----
. Create a new branch for your work (using the issue number is helpful)
+ [source,options="nowrap",subs="+quotes"]
----
$ git checkout -b <branch-name>
----
. Make your edits in the editor of your choice
. Save your changes locally
. Build your documentation to verify that there are no build errors and that everything looks right
. This can be done with the xref:make-tooling[Make tooling]
. If you are creating new files, add the files to the repository
+ [source,options="nowrap",subs="+quotes"]
----
$ git status
$ git add <file-name>
----

. Commit your changes
+ [source,options="nowrap",subs="+quotes"]
----
$ git commit -a -s -m "<message>"
----
Note that the project requires all commits to be signed off, indicating that _you_ certify the changes with the
Push your changes to your fork

$ git push origin HEAD

If the update is rejected because the commit is behind, merge your changes

$ git pull upstream main
$ git push -f origin HEAD

Visit your fork on GitHub
Click *Compare & pull request*
If a SME review is needed:
Add *SME Review Needed* label.
When SME review is complete, remove *SME Review Completed* label and go to step 16.
Add *Peer Review Needed* label and assign a Reviewer.
When peer review has been completed, the reviewer deletes the *Peer Review Needed* label and adds the *Peer Review Done* label.
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1.5601 mysql-community-server 8.0.18-1.el8

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Licensing Information User Manual

MySQL 8.0

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Last updated: September 2019

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_credential.c
lib/gssapi/mechglue/g_canonicalize_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_display_name.c
lib/gssapi/mechglue/g_display_status.c
lib/gssapi/mechglue/g_duplicate_name.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_implicit_name.c
lib/gssapi/mechglue/g_implicit_sec_context.c
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lib/gssapi/mechglue/g_inquire_cred.c

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and the initial implementation of incremental propagation, including
the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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libunwind

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wcwidth.cpp
Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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MeCab

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker
conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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      (For example, a function in a library to compute square roots has a
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package types

import "time"

// FeatureType store features types
type FeatureType string

const (  
    // HA means High Availability  
    HA = FeatureType("HA")  
    // DEV means developer licence  
    DEV = FeatureType("DEV")  
    // TRIAL means trial licence  
    TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across  
// the django server running on portal-API as well as the corresponding decoding package on the  
// storageOS control plane
type Licence struct {  
    ArrayUUID string `json:"arrayUUID,omitempty"`  
    ClusterID string `json:"clusterID,omitempty"`  
    CustomerID string `json:"customerID"`  
    CustomerName string `json:"customerName"`  
    Storage int `json:"storage"`  
    ValidUntil time.Time `json:"validUntil"`  
    LicenceType string `json:"licenceType"`  
    Features map[FeatureType]bool `json:"features"`
Unregistered bool  "json:"unregistered"
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
    Key string `json:"key"
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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Protocol Buffers for Go with Gadgets

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package storageos

import (
    "encoding/json"
    "github.com/storageos/go-api/types"
)

const (
    // licenceAPIPrefix is a partial path to the HTTP endpoint.
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    licence := &types.Licence{
        if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
            return nil, err
        }
    return licence, nil
}

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
    _, err := c.do("POST", licenceAPIPrefix, doOptions{
        data: &types.LicenceKeyContainer{Key: licenceKey},
    })
    return err
}
// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{ })
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

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goproperties - properties file decoder for Go

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tomb - support for clean goroutine termination in Go.

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3, 29 June 2007

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1.5619 perl 5.34.1-r0

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1.5622 jackson 2.3.1

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1.5625 wso2-carbon-task 4.6.105

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
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History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
---------------

The :mod:`random` module includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/: ::

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
    added conditionalization for C++ compilation from Martin
    Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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-----------------------------

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test_epoll
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Select kqueue
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strtod and dtoa
-----------

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Python License
==============

A. HISTORY OF THE SOFTWARE
============================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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### Jdom-contrib version 1.1.3

The JTS tests module contains source from JDOM Contrib 1.1.3 which is available under the Jdom License [1]. The two files are LineNumberElement.java and LineNumberSAXHandler.java.

Typical users of this library will not need to depend on this module.


### GeoTools

JTS includes some code from the GeoTools project. This code has been licensed to the JTS project under the OSGeo BSD License [2] by the GeoTools PSC [3,4].


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* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/DefaultBindingSetStatementContext.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/UpdateQueryImpl.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/TruncDate.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/DeleteImpl.java
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* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/SelectSelectStep.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/SelectOnStep.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/IdentityImpl.java
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* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/Row20.java
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* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/exception/MappingException.java
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* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/User.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/DeclarationImpl.java
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* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/ConstraintForeignKeyReferencesStep22.java
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* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/AbstractDataSource.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/DerivedColumnList8.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/Index.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/FieldOrConstraint.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/FieldOrConstraint.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/SchemaImpl.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/FlowToReactiveStreamsSubscriberBridge.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/Convert.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/DDLExportConfiguration.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/BetweenCondition.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/SelectSeekStep13.java
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/Identifiers.java
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* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/tools/reflect/package-info.java

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 * The <code>org.jooq.tools.reflect</code> package contains parts of jOOR.
 * <p>
 * jOOQ has no external dependencies. Nevertheless, some libraries that are
 * compatible with jOOQ's Apache License 2.0 are embedded into jOOQ. See the
 * jOOR website for more details about jOOR:
 * <p>
 * &lt;a href="http://code.google.com/p/joor/"&gt;http://code.google.com/p/joor/&lt;/a&gt;
 */

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* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/tools/reflect/package-info.java
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/**
 * The <code>org.jooq.tools.csv</code> package contains parts of OpenCSV.
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 * jOOQ has no external dependencies. Nevertheless, some libraries that are
 * compatible with jOOQ's Apache License 2.0 are embedded into jOOQ. See the
 * OpenCSV website for more details about OpenCSV:
 * <p>
 */

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/**
 * The <code>org.jooq.tools.json</code> package contains parts of JSON Simple.
 * <p>
 * jOOQ has no external dependencies. Nevertheless, some libraries that are
 * compatible with jOOQ's Apache License 2.0 are embedded into jOOQ. See the
 * JSON Simple website for more details about JSON Simple:
 * <p>
 */

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/**
* A very simple CSV reader released under a commercial-friendly license.
*
* @author Glen Smith
*

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 */
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 * @see <a href="http://stackoverflow.com/q/11439543/521799">http://stackoverflow.com/q/11439543/521799</a>
 */

/**
 * Clean up blobs, clobes and the local configuration.
 * <p>
 * <h5>BLOBS and CLOBS</h5>
 * <p>
 * [#1326] This is necessary in those dialects that have long-lived
 * temporary lob objects, which can cause memory leaks in certain contexts,
 * where the lobs' underlying session / connection is long-lived as well.
 * Specifically, Oracle and ojdbc have some trouble when streaming temporary
 * lobs to UDTs:
 * <ol>
 * <li>The lob cannot have a call-scoped life time with UDTs</li>
 * <li>Freeing the lob after binding will cause an ORA-22275</li>
 * <li>Not freeing the lob after execution will cause an
 *     [ @link OutOfMemoryError] </li>
 * </ol>
 * <p>
 * <h5>Local configuration</h5>
 * <p>
 * [#1544] There exist some corner-cases regarding the [ @link SQLOutput] API, used for UDT serialisation / deserialisation, which have no elegant
 * solutions of obtaining a [ @link Configuration] and thus a JDBC
 * [ @link Connection] object short of:
 * <ul>
 * <li>Making assumptions about the JDBC driver and using proprietary API,
 *     e.g. that of ojdbc</li>
 * <li>Dealing with this problem globally by using such a local
 *     configuration</li>
 * </ul>
 * 
 * @see <a href="http://stackoverflow.com/q/11439543/521799">http://stackoverflow.com/q/11439543/521799</a>
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* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/impl/DefaultExecutionContext.java
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 */
/**
 * A very simple CSV parser released under a commercial-friendly license. This
 * just implements splitting a single line into fields.
 *
 * @author Glen Smith
 * @author Rainer Pruy
 */

Found in path(s):
* /opt/cola/permits/1274596235_1645218610.05/0/jooq-3-12-3-sources-jar/org/jooq/tools/csv/CSVParser.java
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**

- Create a "plain SQL" field.
- <p>
- A PlainSQLField is a field that can contain user-defined plain SQL,
- because sometimes it is easier to express things directly in SQL, for
- instance complex proprietary functions. There must not be any binding
- variables contained in the SQL.
- <p>
- Example:
- <p>
- <code><pre>
- String sql = "DECODE(MY_FIELD, 1, 100, 200)";
- </pre></code>
- <p>
- <b>NOTE</b>: When inserting plain SQL into jOOQ objects, you must
- guarantee syntax integrity. You may also create the possibility of
- malicious SQL injection. Be sure to properly use bind variables and/or
- escape literals when concatenated into SQL clauses!
- *
- * @param sql The SQL
- * @return A field wrapping the plain SQL
- * @see SQL
- */
**

- Create a "plain SQL" field.
A PlainSQLField is a field that can contain user-defined plain SQL, because sometimes it is easier to express things directly in SQL, for instance complex proprietary functions. There must be as many binding variables contained in the SQL, as passed in the bindings parameter.

Example:

```plaintext
String sql = "DECODE(MY_FIELD, ?, ?, ?)";
Object[] bindings = new Object[] { 1, 100, 200 };
```

**NOTE**: When inserting plain SQL into jOOQ objects, you must guarantee syntax integrity. You may also create the possibility of malicious SQL injection. Be sure to properly use bind variables and/or escape literals when concatenated into SQL clauses!

@ odometer
@param sql The SQL
@param bindings The bindings for the field
@return A field wrapping the plain SQL
@see SQL
@see DSL#sql(String, Object...)
*/
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.5643 e2fsprogs 1.46.2 2

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$($(BSD_LIB))

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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+ trivial database library - standalone version

- trivial database library - private includes
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Theodore Ts'o
23-June-2007

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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That's all there is to it!
This package was added to the e2fsprogs debian source package by 
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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This is the Debian GNU/Linux prepackaged version of the Common Error
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Gadi Oxman, August 1995

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1.5644 arptables 1.8.5
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1.5646 jest-leak-detector 24.9.0

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1.5647 wso2-carbon-registry-servlet 4.6.38

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    // Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See
        // https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ
        // est.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get               []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestIamPermissionsResponse, error)
}
// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
  // The internal transport-dependent client.
  internalClient internalLicenseCodesClient

  // The call options for this service.
  CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
  return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
  c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
  return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
  return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
  // The http endpoint to connect to.
  endpoint string

  // The http client.
  httpClient *http.Client

  // The x-goog-* metadata to be sent with each request.
  xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
  clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
  httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
  if err != nil {
    return nil, err
  }

  c := &licenseCodesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
  }
  c.setGoogleClientInfo()

  return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
  return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  }
}

// setGoogleClientInfo sets the name and version of the application in
// the ‘x-goog-api-client’ header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicenseCode{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
        return gax.NewResponse(httpRsp, req, &resp, opts...)
    })
    if err != nil {
        return err
    }
    return resp, err
}
if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
  return err
}

if err := unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
}

return nil, opts...

if e != nil {
  return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
    *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
      return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
                          req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
      if err != nil {
        return err
      }
      httpReq = httpReq.WithContext(ctx)
      httpReq.Header = headers
      return http.DefaultClient.Do(httpReq)
    })
    if e != nil {
      return nil, e
    }
    body := jsonResp.ToGoStruct().GetTestPermissionsResponse
    if body != nil {
      resp = unm.Unmarshal(body)
    }
    return resp, nil
}
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

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package compute_test

import {
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
}

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete()

if err != nil {
    // TODO: Handle error.
}
deferr c.Close()

req := &computepb.DeleteLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
deferr c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
    // TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
deferr c.Close()
req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
  // TODO: Handle error.
  // TODO: Use resp.
  _ = resp
}

func ExampleLicensesClient_Insert() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
  }
  op, err := c.Insert(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  err = op.Wait(ctx)
  if err != nil {
    // TODO: Handle error.
  }
}

func ExampleLicensesClient_List() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
  }
  it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
// TODO: Handle error.
// TODO: Use resp.
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (        "bytes"        "context"        "fmt"        "io/ioutil"        "math"        "net/http"        "net/url"

    gax "github.com/googleapis/gax-go/v2"        "google.golang.org/api/googleapi"        "google.golang.org/api/iterator"        "google.golang.org/api/option"        "google.golang.org/api/option/internaloption"        httptransport "google.golang.org/api/transport/http"        computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"        "google.golang.org/grpc"        "google.golang.org/grpc/metadata"        "google.golang.org/protobuf/encoding/protojson"        "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete []gax.CallOption
    Get    []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert  []gax.CallOption
    List    []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
               (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}
// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
LicenseIterator {
    return c/internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c/internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c/internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

c := &licensesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
}

opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
  return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil

func defaultLicensesRESTClientOptions() []option.ClientOption {
  return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/")
  }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
  kv := append([]string{"gl-go", versionGo()}, keyval...)
  kv = append(kv, "gapic", gax.GetVersionClient(), "gax", gax.GetVersion(), "rest", "UNKNOWN")
  c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.GetXGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
  // Replace httpClient with nil to force cleanup.
  c.httpClient = nil
  if err := c.operationClient.Close(); err != nil {
    return err
  }
  return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{
        "requestId": fmt.Sprintf("%v", req.GetRequestId())
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{
        Operation: &computepb.Operation{}
    }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }

        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }

        if err := unm.Unmarshal(buf, resp); err != nil {
            return maybeUnknownEnum(err)
        }

        return nil
    })
return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c: c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }

        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
    })
    unm.Unmarshal(resp, &err)
    return resp, err
}
if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, _ := url.Parse(c.endpoint)
req.GetResource())

params := url.Values{ }
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil { defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{
        Err: gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if err != nil {
                return err
            }
            if err := ioutil.ReadAll(httpRsp.Body); err != nil {
                return maybeUnknownEnum(err)
            }
            return nil
        }, opts...)
        if e != nil {
            return nil, e
        }
        return resp, nil
    }
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, e
}

op := &Operation{
    &globalOperationsHandle{
        c:       c.operationClient,
        proto:   resp,
        project: req.GetProject(),
    },
}
return op, nil

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
    resp := &computepb.LicensesListResponse{}
    if pageToken != "" {
        req.PageToken = proto.String(pageToken)
    }
    if pageSize > math.MaxInt32 {
        req.MaxResults = proto.Uint32(math.MaxInt32)
    } else if pageSize != 0 {
        req.MaxResults = proto.Uint32(uint32(pageSize))
    }
    baseUrl, _ := url.Parse(c.endpoint)

    params := url.Values{}
    if req != nil && req.Filter != nil {
    }
    if req != nil && req.MaxResults != nil {
        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
    }
    if req != nil && req.ReturnPartialSuccess != nil {
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    }
baseUrl, _ := url.Parse(c.endpoint)

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}
return nil,
}, opts...)
if e != nil {
return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{

e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    http_rsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer http_rsp.Body.Close()

    if err = googleapi.CheckResponse(http_rsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(http_rsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
  items  []*computepb.License
  pageInfo *iterator PageInfo
  nextFunc func() error

  // Response is the raw response for the current page.
  // It must be cast to the RPC response type.
  // Calling Next() or InternalFetch() updates this value.
  Response interface{
  }

  // InternalFetch is for use by the Google Cloud Libraries only.
  // It is not part of the stable interface of this package.
  //
  // InternalFetch returns results from a single call to the underlying RPC.
  // The number of results is no greater than pageSize.
  // If there are no more results, nextPageToken is empty and err is nil.
  InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator PageInfo {
  return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
  var item *computepb.License
  if err := it.nextFunc(); err != nil {
    return item, err
  }
  item = it.items[0]
  it.items = it.items[1:]
  return item, nil
}

func (it *LicenseIterator) bufLen() int {
  return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
  b := it.items
  it.items = nil
  return b
}
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1.5652 jest-snapshot 24.9.0

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========

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1.5657 gogoprotobuf 1.2.2-0.20190723190241-65acae22fc9d

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1.5660 python3-click 7.0-1
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//
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.5677 jgrapht-core 0.9.0

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1.5678 @babel/helper-validator-option 7.18.6

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1.5679 unicode-canonical-property-names-ecmascript 2.0.0

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1.5680 go-zookeeper 0.0.0-20190810000440-0ceca61e4d75

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1.5681 kubernetes-api v0.19.2

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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.5683 babel-plugin-syntax-top-level-await

7.14.5

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
org.eclipse.jetty.toolchain:jetty-schemas

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Ext headers       GL/glext.h             Khronos
              GL/glxext.h            Khronos
              GL/wglext.h            Khronos
              KHR/khrplatform.h      Khronos

*****************************************************************************
----
include/GL/gl.h :

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*****************************************************************************
----
include/GL/glext.h
include/GL/glxext.h
include/GL/wglext.h :

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 * Rob Earhart
 * Rob Siemborski
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1.5721 govmomi v0.27.2

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 */

package license

import (  
"context"  
"flag"  
"github.com/vmware/govmomi/govc/cli"  
"github.com/vmware/govmomi/govc/flags"  
"github.com/vmware/govmomi/license"  
"github.com/vmware/govmomi/vim25/types"
)

type assign struct {  
*flags.ClientFlag  
*flags.OutputFlag}
*flags.HostSystemFlag
*flags.ClusterFlag

name  string
remove bool

func init() {
cli.Register("license.assign", &assign{ })
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
icmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
icmd.ClientFlag.Register(ctx, f)

icmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
icmd.OutputFlag.Register(ctx, f)

icmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
icmd.HostSystemFlag.Register(ctx, f)

icmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
icmd.ClusterFlag.Register(ctx, f)

f.StringVar(&cmd.name, "name", "", "Display name")
f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
if err := cmd.ClientFlag.Process(ctx); err != nil {
return err
}
if err := cmd.OutputFlag.Process(ctx); err != nil {
return err
}
if err := cmd.HostSystemFlag.Process(ctx); err != nil {
return err
}
return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
return "KEY"
}

func (cmd *assign) Description() string {
return `Assign licenses to HOST or CLUSTER."`
Examples:

govc license.assign $VCSA_LICENSE_KEY

govc license.assign -host a_host.example.com $ESX_LICENSE_KEY

govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    key := f.Arg(0)

    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    host, err := cmd.HostSystemIfSpecified()
    if err != nil {
        return err
    }

    var id string
    if host == nil {
        cluster, cerr := cmd.ClusterIfSpecified()
        if cerr != nil {
            return cerr
        }
        if cluster == nil {
            // Default to vCenter UUID
            id = client.ServiceContent.About.InstanceUuid
        } else {
            id = cluster.Reference().Value
        }
    } else {
        id = host.Reference().Value
    }

    if cmd.remove {
        return m.Remove(ctx, id)
    }
}
info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
}
/

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/

package simulator

import (
    "context"
    "reflect"
    "testing"
    "github.com/vmware/govmomi"
    "github.com/vmware/govmomi/find"
    "github.com/vmware/govmomi/license"
)

func TestLicenseManagerVPX(t *testing.T) {
    ctx := context.Background()
    m := VPX()

derive m.Remove()

er := m.Create()
if err != nil {
    t.Fatal(err)
}

t := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
am, err := lm.AssignmentManager(ctx)
if err != nil {
    t.Fatal(err)
}

la, err := am.QueryAssigned(ctx, "enoent")
if err != nil {
    t.Fatal(err)
}

if len(la) != 0 {
    t.Errorf("unexpected license")
}

finder := find.NewFinder(c.Client, false)
hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
    t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
    la, err = am.QueryAssigned(ctx, name)
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 1 {
        t.Fatal("no licenses")
    }

    if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
        t.Fatal("invalid license")
    }
}

func TestLicenseManagerESX(t *testing.T) {

ctx := context.Background()
m := ESX()

deferr m.Remove()

err := m.Create()
if err != nil {
    t.Fatal(err)
}

s := m.Service.NewServer()
deferr s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
_, err = lm.AssignmentManager(ctx)
if err == nil {
    t.Fatal("expected error")
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
    t.Fatal("invalid license")
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
m := ESX()

deferr m.Remove()

err := m.Create()
if err != nil {
    t.Fatal(err)
}
s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
t.Fatal(err)
}
lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
t.Fatal(err)
}
if info.LicenseKey != key {
t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}
if len(info.Labels) != len(labels) {
t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}
if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
t.Fatalf("expect label to be {key:value}; got {%s:%s}" , info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
t.Fatal(err)
}
if len(la) != 2 {
t.Fatal("no licenses")
}
if la[1].LicenseKey != key {
t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, la[1].LicenseKey)
}
if len(la[1].Labels) != len(labels) {
t.Fatalf("expect len(info.Labels) equal to %d; got %d",
len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
  t.Fatalf("expect label to be {key:value}: got {%s:%s}",
  la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
  t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
  t.Fatal(err)
}

if len(la) != 1 {
  t.Fatal("no licenses")
}

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*/

package license

import {
  "context"
  "flag"

  "github.com/vmware/govmomi/govc/cli"
  "github.com/vmware/govmomi/govc/flags"
  "github.com/vmware/govmomi/license"
}


var featureUsage = "List licenses with given feature"

type ls struct {
*flags.ClientFlag
*flags.OutputFlag

feature string
}

func init() {
cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    
    f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    
    m := license.NewManager(client)
    result, err := m.List(ctx)
    if err != nil {
        return err
    }
    
    if cmd.feature != "," {
        result = result.WithFeature(cmd.feature)
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*/

package license

import (  
  "context"  
  "flag"  
  "fmt"

  "github.com/vmware/govmomi/govc/cli"  
  "github.com/vmware/govmomi/govc/flags"  
  "github.com/vmware/govmomi/license"  
  "github.com/vmware/govmomi/vim25/types"
)

type add struct {  
  *flags.ClientFlag  
  *flags.OutputFlag
}

func init() {  
  cli.Register("license.add", &add{ })
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {  
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)  
  cmd.ClientFlag.Register(ctx, f)  
  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)  
  cmd.OutputFlag.Register(ctx, f)
func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssignmentManager.updateAssignedLicense for VirtualCenter.
    // var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
    }

    result := make(licenseOutput, 0)
    for _, v := range f.Args() {
        license, err := addFunc(ctx, v, nil)
        if err != nil {
            return err
        }
        result = append(result, license)
    }
    return
}
result = append(result, license)
}

return cmd.WriteResult(licenseOutput(result))
}
#!/usr/bin/env bats
load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
  if [ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
    skip "requires evaluation license"
  fi
}

get_key() {
  jq ".[1] | select(.LicenseKey == \"$1\")"
}

get_property() {
  jq -r ".Properties[1] | select(.Key == \"$1\") | .Value"
}

get_label() {
  govc license.ls -json | jq ".[1] | select(.LicenseKey == \"$1\") | .Labels[1] | select(.Key == \"$2\") | .Value"
}

get_nlabel() {
  govc license.ls -json | jq ".[1] | select(.LicenseKey == \"$1\") | .Labels[].Key" | wc -l
}

@test "license.add" {
  esx_env
  verify_evaluation
  run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
  assert_success
  # Expect to see an entry for both the first and the second key
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00001 <<<$output) | get_property diagnostic)"
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00002 <<<$output) | get_property diagnostic)"
}

@test "license.remove" {
esx_env

verify_evaluation

run govc license.remove -json 00000-00000-00000-00000-00001
assert_success
}

@test "license.ls" {
    vcsim_env

    verify_evaluation

    run govc license.ls -json
    assert_success

    # Expect the test instance to run in evaluation mode
    assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<$output | jq ".Name")"
}

@test "license.decode" {
    esx_env

    verify_evaluation

    key=00000-00000-00000-00000-00000
    assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

@test "license.label.set" {
    vcsim_env

    key=00000-00000-00000-00000-00000

    assert_equal 0 "$(get_nlabel $key)"
    assert_equal "" "$(get_label $key foo)"

    run govc license.label.set $key foo bar
    assert_success

    assert_equal 1 "$(get_nlabel $key)"
    assert_equal bar "$(get_label $key foo)"

    run govc license.label.set $key biz baz
    assert_success
    run govc license.label.set $key foo bar2
    assert_success
assert_equal 2 "$(get_nlabel $key)"
assert_equal bar2 "$(get_label $key foo)"

run govc license.label.set $key foo ""
assert_success

assert_equal 1 "$(get_nlabel $key)"
assert_equal "" "$(get_label $key foo)"
}
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package simulator


// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
  LicenseKey: "00000-00000-00000-00000-00000",
  EditionKey: "eval",
  Name: "Evaluation Mode",
  Properties: []types.KeyAnyValue{
    {
      Key: "feature",
      Value: types.KeyValue{
        Key: "serialuri:2",
        Value: "Remote virtual Serial Port Concentrator",
      },
    },
    {
      Key: "feature",
      Value: types.KeyValue{
        Key: "dvs",
        Value: "vSphere Distributed Switch",
      },
    },
  }
}

type LicenseManager struct {
  mo.LicenseManager
}

func (m *LicenseManager) init(r *Registry) {
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

  if r.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{
  }

  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }

  m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
LicenseKey: req.LicenseKey,
Labels: req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body

}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{
}
}

for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...)
return body
}
}
return body

}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
body := &methods.UpdateLicenseLabelBody{}

for i := range m.Licenses {
license := &m.Licenses[i]

if req.LicenseKey != license.LicenseKey {
continue
}

body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
label := &license.Labels[j]

if label.Key == req.LabelKey {
if req.LabelValue == "" {
license.Labels = append(license.Labels[:i], license.Labels[i+1:...)
} else {
label.Value = req.LabelValue
}
return body
}
}
license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{
        }
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
info.LicenseKey = key
info.Labels = labels

return info
}
/

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/

package license

import |
"context"
"flag"

"github.com/vmware/govmomi/govc/cli"
"github.com/vmware/govmomi/govc/flags"
"github.com/vmware/govmomi/license"
"github.com/vmware/govmomi/vim25/methods"
"github.com/vmware/govmomi/vim25/types"
)

type label struct {
*flags.ClientFlag
}

func init() {
cli.Register("license.label.set", &label{})
}

func (cmd *label) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)
}
func (cmd *label) Usage() string {
    return "LICENSE KEY VAL"
}

func (cmd *label) Description() string {
    return `Set license labels.
Examples:
govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
govc license.label.set 00000-00000-00000-00000-00000 team "" # remove label
govc license.ls -json | jq '.[] | select(.Labels[].Key == "team") | .LicenseKey'
`}

func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    if f.NArg() != 3 {
        return flag.ErrHelp
    }

    req := types.UpdateLicenseLabel{
        This:       m.Reference(),
        LicenseKey: f.Arg(0),
        LabelKey:   f.Arg(1),
        LabelValue: f.Arg(2),
    }

    _, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
    return err
}

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*/

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type decode struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}
func init() {
    cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
        result = append(result, license)
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
}
return cmd.WriteResult(licenseOutput(result))
}

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*/

package license

import (
    "context"
    "strconv"
    "strings"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }
    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }
    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }
    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
if err != nil {
    return types.LicenseManagerLicenseInfo{}, err
}

return res.Returnval, nil

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
    }
if err != nil {
    return nil, err
}

if mlm.LicenseAssignmentManager == nil {
    return nil, object.ErrNotSupported
}

am := AssignmentManager{
    object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
}

return &am, nil


type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")
    lf.name = f[0]

    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }

    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)

    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }

        kv, ok := p.Value.(types.KeyValue)
        }
if !ok {
    continue
}

lf := parseLicenseFeature(kv.Key)

if lf.name == feature.name && lf.level >= feature.level {
    return true
}

return false

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo

type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList
    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }
    return result
}

# People who can (and typically have) contributed to this repository.
#
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#

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package license

import (  
  "context"
  "flag"
  "fmt"
  "io"
  "os"
  "text/tabwriter"

  "github.com/vmware/govmomi/govc/cli"
  "github.com/vmware/govmomi/govc/flags"
  "github.com/vmware/govmomi/license"
  "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {  
  *flags.ClientFlag  
  *flags.OutputFlag

  id string
}

func init() {  
  cli.Register("license.assigned.ls", &assigned{})
}
func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }
    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }
    return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.EntityId)
        fmt.Fprintf(tw, "%s	", v.Scope)
        fmt.Fprintf(tw, "%s	", v.EntityDisplayName)
    }
    return nil
}
fmt.Fprintf(tw, "%s\n", v.AssignedLicense.LicenseKey)
fmt.Fprintf(tw, "\n")
}
return tw.Flush()
}

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*/

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import (  
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  "flag"  
  "fmt"  
  "github.com/vmware/govmomi/govc/cli"  
  "github.com/vmware/govmomi/govc/flags"  
  "github.com/vmware/govmomi/license"
)

type remove struct {  
  *flags.ClientFlag  
  *flags.OutputFlag
}

func init() {  
  cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {  
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)  
  cmd.ClientFlag.Register(ctx, f)  
  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)  
  cmd.OutputFlag.Register(ctx, f)
func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }
    list, err := m.List(ctx)
    if err != nil {
        return err
    }
    for _, v := range f.Args() {
        for _, l := range list {
            if v == l.LicenseKey {
                return fmt.Errorf("cannot remove license %q", v)
            }
        }
    }
    return nil
}/*

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*/

class license

import {
    "fmt"
    "io"
    "os"
    "text/tabwriter"

    "github.com/vmware/govmomi/vim25/types"
}

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
"
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.LicenseKey)
        fmt.Fprintf(tw, "%s	", v.EditionKey)
        fmt.Fprintf(tw, "%d	", v.Used)
        fmt.Fprintf(tw, "%d	", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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import {
    "context"

    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
}

type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }
    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }
    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
    }
    //...
EntityId: id,

_, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)
return err

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Entity:            id,
        LicenseKey:        key,
        EntityDisplayName: name,
    }
    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }
    return &res.Returnval, nil
}

1.5722 is-extendable 0.1.1

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* 
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* 
* matrix multiply algorithm:
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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**1.5759 x-text 0.3.2**

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1.5761 python3-psycopg2 2.8.6-2~pgdg100+1

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1.5766 xz 5.2.5 2.1~deb11u1

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1.5767 log4j-slf4j18-impl 2.17.1

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* /opt/cola/permits/1274596312_1645218574.27/0/jooq-codegen-3-12-3-sources-jar/org/jooq/codegen/Files.java
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1.5769 wso2-carbon-mediator-clazz-services

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

```bash
```
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```bash
```

Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar
```

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

Set the Pod namespace by prefixing the Pod name with `namespace/pod`.

- `<pod-namespace>/<pod-name>:path`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
1.5771 go-yaml 2.2.4

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1.5772 postgresql-11-dbgsym 11.11-
1.pgdg100+1

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19yy name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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    Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<signature of Ty Coon>, 1 April 1990
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl
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Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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* org.ow2.asm:asm

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* org.apache.tomcat:tomcat-jasper
* org.apache.tomcat:tomcat-juli
* org.apache.tomcat:tomcat-jsp-api
* org.apache.tomcat:tomcat-el-api
* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-api
* org.apache.tomcat:tomcat-util-scan
* org.apache.tomcat:tomcat-util
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Version: GnuPG v1.4.3 (GNU/Linux)
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Hash: SHA1

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Version: GnuPG v1.4.10 (GNU/Linux)

iQEcbEBAEAgA6BGJQBB4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEolF6JlRUkfJzAPZaLdDmDz7ucdRL1RDdmoz4VIp2+RhKeBYQquZXfXiEghz+tkriK30M12guFkNLDeQq9h2p3Zu9JU3K0yam484IDWq72HRn1nRyD6lZ6hDGZ/D+69fTe8YG0FwEit00MAq/lRb5XHLpBOY+jYhJYy+QRnQTCaAQ+tAgO1xds3w+JLs2sGdesYLJhQQacLeGh7ZeZ3F+CkuiwT4c5ub44LdXSlAVj1u20jZBFqLaJ3FA60Ti+I3knFNWKpzaeX+SQgMak6hsuatXi6EsVk6IaskwEgl6+Xk+HYWy23ZQ8BKQRLOZTw=rgAqN
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Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41td3lj4OM6siMFJfTOdYdT1bxwCdGgWv
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=8WW7
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Date: July 14, 2006
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Version: GnuPG v1.4.4 (MingW32)

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Date:

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Name: Gordon King

Positions: Chief Operational Officer

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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
</tr>
</tbody>
</table>

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  * /opt/cola/permits/1151704968_1617968304.64/0/cqengine-2-7-0-sources-1-jar/com/googlecode/cqengine/query/parser/sql/support/SQLAntlrListener.java
  * /opt/cola/permits/1151704968_1617968304.64/0/cqengine-2-7-0-sources-1-jar/com/googlecode/cqengine/query/simple/StringContains.java
  * /opt/cola/permits/1151704968_1617968304.64/0/cqengine-2-7-0-sources-1-jar/com/googlecode/cqengine/resultset/order/AttributeOrdersComparator.java
  * /opt/cola/permits/1151704968_1617968304.64/0/cqengine-2-7-0-sources-1-jar/com/googlecode/cqengine/index/support/KeyValueMaterialized.java
  * /opt/cola/permits/1151704968_1617968304.64/0/cqengine-2-7-0-sources-1-jar/com/googlecode/cqengine/query/parser/common/QueryParser.java
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  * /opt/cola/permits/1151704968_1617968304.64/0/cqengine-2-7-0-sources-1-jar/com/googlecode/cqengine/query/parser/common/BigDecimalParser.java
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* /opt/cola/permits/1151704968_1617968304.64/0/cqengine-2.7.0-sources-1.jar/com/googlecode/cqengine/index/offheap/OffHeapIndex.java
* /opt/cola/permits/1151704968_1617968304.64/0/cqengine-2.7.0-sources-1.jar/com/googlecode/cqengine/persistence/support/ConcurrentOnHeapObjectStore.java

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/**
 * This class (Apache license) is copied from Apache Solr:
 *
 * A Simple Utility class for parsing "math" like strings relating to Dates.
 *
 * <p>
 * The basic syntax support addition, subtraction and rounding at various
 * levels of granularity (or "units"). Commands can be chained together
 * and are parsed from left to right. '+' and '-' denote addition and
 * subtraction, while '/' denotes "round". Round requires only a unit, while
 * addition/subtraction require an integer value and a unit.
 * Command strings must not include white space, but the "No-Op" command
 * (empty string) is allowed....
 * </p>
 *
 * <pre>
 * /HOUR
 * ... Round to the start of the current hour
 * /DAY
 * ... Round to the start of the current day
 * +2YEARS
 * ... Exactly two years in the future from now
 * -1DAY
 * ... Exactly 1 day prior to now
 * /DAY+6MONTHS+3DAYS
 * ... 6 months and 3 days in the future from the start of
 * the current day
 * +6MONTHS+3DAYS/DAY
 * ... 6 months and 3 days in the future from now, rounded
 * down to nearest day
 * </pre>
 *
 * (Multiple aliases exist for the various units of time (ie:
 * <code>MINUTE</code> and <code>MINUTES</code>; <code>MILLI</code>,
 * <code>MILLIS</code>, <code>MILLISECOND</code>, and
 * <code>MILLISECONDS</code>.) The complete list can be found by
 * inspecting the keySet of {@link #CALENDAR_UNITS})
 *
 * <p>
 *
 * <p>
 * All commands are relative to a "now" which is fixed in an instance of
 * ApacheSolrDataMathParser such that
 * <code>p.parseMath("+0MILLISECOND").equals(p.parseMath("+0MILLISECOND"))</code>
* no matter how many wall clock milliseconds elapse between the two
* distinct calls to parse (Assuming no other thread calls
* "<code>setNow</code>" in the interim). The default value of ‘now’ is
* the time at the moment the <code>ApacheSolrDataMathParser</code> instance is
* constructed, unless overridden by the [@code CommonParams#NOW NOW]
* request param.
* </p>
* *
* *
* <p>
* All commands are also affected to the rules of a specified [@link TimeZone]
* (including the start/end of DST if any) which determine when each arbitrary
* day starts. This not only impacts rounding/adding of DAYs, but also
* cascades to rounding of HOUR, MIN, MONTH, YEAR as well. The default
* <code>TimeZone</code> used is <code>UTC</code> unless overridden by the
* [@code CommonParams#TZ TZ]
* request param.
* </p>
* */

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* /opt/cola/permits/1151704968_1617968304.64/0/cqengine-2-7-0-sources-1-
jar/com/googlecode/cqengine/query/parser/cqn/support/ApacheSolrDataMathParser.java

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1.5809 read-pkg 3.0.0

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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# Steps to Release Minikube

## Create a Release Notes PR

Assemble all the meaningful changes since the last release into the CHANGELOG.md file. See [this PR](https://github.com/kubernetes/minikube/pull/164) for an example.

## Build and Release a New ISO

This step isn’t always required. Check if there were changes in the deploy directory. If you do this, bump the ISO URL to point to the new ISO, and send a PR.

To do this, build the new iso by running:

```
```
deploy/iso/build.sh
```

This will generate a new iso at 'deploy/iso/minikube.iso'. Then upload the iso and shasum using the following command:

```shell
```
gsutil cp deploy/iso/minikube.iso gs://minikube/minikube-<increment.version>.iso
gsutil cp deploy/iso/minikube.iso.sha256 gs://minikube/minikube-<increment.version>.iso.sha256
```
## Run integration tests

Run this command:
```
```
```
```
Investigate and fix any failures.

## Bump the version in the Makefile and Update Docs to reflect this

See [this PR](https://github.com/kubernetes/minikube/pull/165) for an example.

## Send an initial commit with the Makefile change:

Send a PR for the Makefile change and wait until it is merged. Once the commit is merged, continue.

## Build the Release

Run this command:
```
```
```

## Add the version to the releases.json file

Add an entry **to the top** of deploy/minikube/releases.json with the **version** and **checksums**. Send a PR. This file controls the auto update notifications in minikube. Only add entries to this file that should be released to all users (no pre-release, alpha or beta releases). The file must be uploaded to GCS before notifications will go out. That step comes at the end.

The schema for this file can be found in deploy/minikube/schema.json.

An automated test to verify the schema runs in Travis before each submit.

## Upload to GCS:

```
```
```
```
```
```
```
```
gsutil cp out/minikube-windows-amd64.exe.sha256 gs://minikube/releases/$RELEASE/

## Tag the Release

Run a command like this to tag it locally: `git tag -a v0.2.0 -m "0.2.0 Release"`.

And run a command like this to push the tag: `git push upstream v0.2.0`.

## Create a Release in Github

Create a new release based on your tag, like [this one](https://github.com/kubernetes/minikube/releases/tag/v0.2.0).

Upload the files, and calculated checksums.

## Upload the releases.json file to GCS

This step makes the new release trigger update notifications in old versions of Minikube. Use this command from a clean git repo:

```
```shell
gsutil cp deploy/minikube/releases.json gs://minikube/releases.json
```

## Mark the release as `latest` in GCS:

```
```shell
gsutil cp -r gs://minikube/releases/$RELEASE/* gs://minikube/releases/latest/
```

## Package managers which include minikube

These are downstream packages that are being maintained by others and how to upgrade them to make sure they have the latest versions

<table>
<thead>
<tr>
<th>Package Manager</th>
<th>URL</th>
<th>TODO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arch Linux AUR</td>
<td><a href="https://aur.archlinux.org/packages/minikube/">https://aur.archlinux.org/packages/minikube/</a></td>
<td>&quot;Flag as package out-of-date&quot;</td>
</tr>
</tbody>
</table>

#### [How to Generate an Appcast Checkpoint for Homebrew](https://github.com/caskroom/homebrew-cask/blob/master/doc/cask_language_reference/stanzas/appcast.md)

`curl --compressed --location --user-agent 'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_2) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/33.0.1750.152 Safari/537.36' "https://github.com/kubernetes/minikube/releases.atom" | sed 's|<pubDate>[^<]*</pubDate>|g' | shasum --algorithm 256`
### Updating the arch linux package

The Arch Linux AUR is maintained at https://aur.archlinux.org/packages/minikube/. The installer PKGBUILD is hosted in its own repository. The public read-only repository is hosted here `https://aur.archlinux.org/minikube.git` and the private read-write repository is hosted here `ssh://aur@aur.archlinux.org/minikube.git`

The repository is tracked in this repo under a submodule `@installers/linux/arch_linux`. Currently, its configured to point at the public readonly repository so if you want to push you should run this command to overwrite

```
`git config submodule.archlinux.url ssh://aur@aur.archlinux.org/minikube.git`
```

To actually update the package, you should bump the version and update the sha512 checksum. You should also run `makepkg --printsrcinfo > .SRCINFO` to update the srcinfo file. You can edit this manually if you don't have `makepkg` on your machine.

## Release Verification

After you've finished the release, run this command from the release commit to verify the release was done correctly:

`make check-release`.

## Update kubernetes.io docs

If there are major changes, please send a PR upstream for this file https://github.com/kubernetes/kubernetes.github.io/blob/master/docs/getting-started-guides/minikube.md in order to keep the getting started guide up to date.

## Contributing

* **New contributors** ([contributors.md](https://github.com/kubernetes/minikube/blob/master/CONTRIBUTING.md)): Process for new contributors, CLA instructions

* **Roadmap** ([roadmap.md](roadmap.md)): The roadmap for future minikube development

## New Features and Dependencies

* **Adding a dependency** ([adding_a_dependency.md](adding_a_dependency.md)): How to add or update vendored code

* **Adding a new addon** ([adding_anAddon.md](adding_anAddon.md)): How to add a new addon to minikube for `minikube addons`

* **Updating Kubernetes** ([updating_kubernetes.md](updating_kubernetes.md)): Updating the version of Kubernetes in Localkube

## Building and Releasing

* **Build Guide** ([build_guide.md](build_guide.md)): How to build minikube from source

* **ISO Build Guide** ([minikube_iso.md](minikube_iso.md)): How to build and hack on the ISO image that
**minikube uses**

**CI Builds** ([ci_builds.md](./ci_builds.md)): Accessing CI build artifacts from Jenkins

**Releasing minikube** ([releasing_minikube.md](releasing_minikube.md)): Steps to release a new version of minikube

**Releasing localkube** ([releasing_localkube.md](releasing_localkube.md)): Steps to release a new version of localkube

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### Build Requirements

* A recent Go distribution (>1.8)
* If you’re not on Linux, you’ll need a Docker installation
* Minikube requires at least 4GB of RAM to compile, which can be problematic when using docker-machine

#### Prerequisites for different GNU/Linux distributions

##### Fedora

On Fedora you need to install glibc-static

```
$ sudo dnf install -y glibc-static
```

### Building from Source

Clone minikube into your go path under $GOPATH/src/k8s.io
```
$ git clone https://github.com/kubernetes/minikube.git $GOPATH/src/k8s.io/minikube
$ cd $GOPATH/src/k8s.io/minikube
$ make
```

### Run Instructions

Start the cluster using your built minikube with:

```
```

### Running Tests

#### Unit Tests

Unit tests are run on Travis before code is merged. To run as part of a development cycle:

```
```

#### Integration Tests

Integration tests are currently run manually.
To run them, build the binary and run the tests:

```
```

#### Conformance Tests

These are Kubernetes tests that run against an arbitrary cluster and exercise a wide range of Kubernetes features. You can run these against minikube by following these steps:

* Clone the Kubernetes repo somewhere on your system.
* Run `make quick-release` in the k8s repo.
* Start up a minikube cluster with: `minikube start`.
* Set following two environment variables:
```
```
* Run the tests (from the k8s repo):
```
```
To run a specific conformance test, you can use the `ginkgo.focus` flag to filter the set using a regular expression. The `hack/e2e.go` wrapper and the `e2e.sh` wrappers have a little trouble with quoting spaces though, so use the `\s` regular expression character instead.

For example, to run the test `should update annotations on modification [Conformance]`, use following command:

```shell
go run hack/e2e.go -v --test --test_args="--ginkgo.focus=should\supdate\sannotations\son\smodification" --check_version_skew=false --check_node_count=false
```

# The list of people who have contributed code to the cmux repository.

# Auto-generated with:
#
# git log --oneline --pretty=format:'%an <%aE>' | sort -u
#
# Dmitri Shuralyov <shurcooL@gmail.com>
# Ethan Mosbaugh <emosbaugh@gmail.com>
# Soheil Hassas Yeganeh <soheil.h.y@gmail.com>
# Soheil Hassas Yeganeh <soheil@cs.toronto.edu>
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#### Adding a New Dependency

Minikube uses `Godep` to manage vendored dependencies.
`Godep` can be a bit finnicky with a project with this many dependencies.
Here is a rough set of steps that usually works to add a new dependency.

1. Make a clean GOPATH, with minikube in it.
This isn't strictly necessary, but it usually helps.

```shell
  mkdir -p $HOME/newgopath/src/k8s.io
  export GOPATH=$HOME/newgopath
  cd $HOME/newgopath/src/k8s.io
  git clone https://github.com/kubernetes/minikube.git
  cd minikube
```
---

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1. Install the package versions specified in Godeps/Godeps.json
```
```shell
godep restore ./...
```
NOTE: If you encounter a HTTP 301 error, you may need to set the following:
`git config --global http.https://gopkg.in.followRedirects true`

```
1. `go get` your new dependency.
```shell
   go get mynewdepenency
```

1. Use it in code, build and test.

1. Import the dependency from GOPATH into vendor/
```
```shell
godep save ./...
```
NOTE: godep seems to have an issue with not recovering files in `vendor/golang.org/x/sys/windows/
IF you plan on committing your updated dependencies, make sure not to remove these files in your commit

If it is a large dependency, please commit the vendor/ directory changes separately.
This makes review easier in GitHub.

NOTE: We have recently added a deprecation message regarding boot2docker. Make sure that this deprecation
message ends up in the vendored code at
`/vendor/github.com/docker/machine/libmachine/provision/boot2docker.go`
```
```shell
   git add vendor/
   git commit -m "Adding dependency foo"
   git add --all
   git commit -m "Adding cool feature"
```

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# Minikube Roadmap

This document contains the goals, plans, and priorities for the minikube project. Note that these priorities are not set in stone. Please file an issue if you'd like to discuss adding or reordering these :)

## Goals
The primary goal of minikube is to make it simple to run Kubernetes on your local machine, both for getting started and day-to-day development workflows.

Here are some specific features that align with our goal:

* Single command setup and teardown UX.
* Support most portable Kubernetes core features (local storage, networking, auto-scaling, loadbalancing, etc.)
* Unified UX across OSes.
* Minimal dependencies on third party software.
* Minimal resource overhead.
* Becoming the default local-cluster setup for Kubernetes

## Non-Goals

* Simplifying Kubernetes production deployment experience. Kube-deploy is attempting to tackle this problem.
* Supporting all possible deployment configurations of Kubernetes like various types of storage, networking, etc.

## Priorities
This section contains the overall priorities of the minikube project, in rough order.

* Setting up a well-tested, secure and complete Kubernetes cluster locally.
* Cross Platform support (macOS, Linux, Windows)
* Supporting existing Kubernetes features:
  * Load Balancer support.
  * Persistent disks.
* Keeping up with new Kubernetes releases and features.
* Development-focused features like:
  * Mounting host directories.
  * VPN/proxy networking.
* Native hypervisor integration.
* Support for alternative Kubernetes runtimes, like rkt.
* Removing the VirtualBox dependency and replacing it with Hypervisor.framework/Hyper-V.

## Timelines
Minikube will release much faster than this, so this section is fairly speculative.

This section is subject to change based on feedback and staffing.

### Q1 2017
* Release Kubernetes 1.6.0 alpha and beta releases packaged with minikube
* Release Kubernetes 1.6.0 packaged with minikube within two days of GA upstream build
* Run local e2e Kubernetes tests with minikube
* Minikube no longer depends on libmachine
* Minikube no longer depends on existing KVM driver
* Native drivers are made default and packaged with minikube
* Improve minikube start time by 30%
* Add a no-vm driver for linux CI environments

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Go support for Protocol Buffers - Google's data interchange format

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#### Adding a New Addon

To add a new addon to minikube the following steps are required:

* For the new addon's .yaml file(s):
  * Put the required .yaml files for the addon in the minikube/deploy/addons directory.
  * Add the `kubernetes.io/minikube-addons: <NEW_ADDON_NAME>` label to each piece of the addon (ReplicationController, Service, etc.)
    * In order to have `minikube open addons <NEW_ADDON_NAME>` work properly, the `kubernetes.io/minikube-addons-endpoint: <NEW_ADDON_NAME>` label must be added to the appropriate endpoint service (what the user would want to open/interact with). This service must be of type NodePort.

* To add the addon into minikube commands/VM:
  * Add the addon with appropriate fields filled into the `Addon` dictionary, see this [commit](https://github.com/kubernetes/minikube/commit/41998bdad0a5543d6b15b86b0862233e3204fab6#diff-e2da306d559e3f019987acc38431a3e88r133).
* Add the addon to settings list, see this [commit](https://github.com/kubernetes/minikube/commit/41998bdad0a5543d6b15b86b0862233e3204fab6#diff-07ad0c54f98b231e68537d908a214659R89).

* Rebuild minikube using make out/minikube. This will put the addon's .yaml binary files into the minikube binary using go-bindata.

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We also publish CI builds of minikube-iso, built at every Pull Request that touches deploy/iso/minikube-iso. Builds are available at:
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### Updating Kubernetes

To update Kubernetes, follow these steps:

1. Make a clean GOPATH, with minikube in it.
   This isn't strictly necessary, but it usually helps.

   ```shell
   mkdir -p $HOME/newgopath/src/k8s.io
   export GOPATH=$HOME/newgopath
   cd $HOME/newgopath/src/k8s.io
   git clone https://github.com/kubernetes/minikube.git
   ```

2. Copy your vendor directory back out to the new GOPATH.

   ```shell
   cd minikube
   ./hack/godeps/godep-restore.sh
   ```

3. Kubernetes should now be on your GOPATH. Check it out to the right version.
   Make sure to also fetch tags, as Godep relies on these.

   ```shell
   cd $GOPATH/src/k8s.io/kubernetes
   git fetch --tags
   ```
Then list all available Kubernetes tags:

```shell
git tag
...
v1.2.4
v1.2.4-beta.0
v1.3.0-alpha.3
v1.3.0-alpha.4
v1.3.0-alpha.5
...
```

Then checkout the correct one and update its dependencies with:

```shell
git checkout $DESIREDTAG
./hack/godeps/godep-restore.sh
...
```

4. Build and test minikube, making any manual changes necessary to build.

5. Update godeps

```shell
cd $GOPATH/src/k8s.io/minikube
./hack/godeps/godep-save.sh
```

6. Verify that the correct tag is marked in the Godeps.json file by running this script:

```shell
python hack/get_k8s_version.py
-X k8s.io/minikube/vendor/k8s.io/kubernetes/pkg/version.gitCommit=caf9a4d87700ba034a7b39ced19bd5628caf6aa3 -X k8s.io/minikube/vendor/k8s.io/kubernetes/pkg/version.gitVersion=v1.3.0-beta.2 -X k8s.io/minikube/vendor/k8s.io/kubernetes/pkg/version.gitTreeState=clean
```

The `-X k8s.io/minikube/vendor/k8s.io/kubernetes/pkg/version.gitVersion` flag should contain the right tag.

Once you’ve build and started minikube, you can also run:

```shell
kubectl version
Client Version: version.Info{Major:"1", Minor:"2", GitVersion:"v1.2.4", GitCommit:’3eed1e3be6848b87ff80a93da3785d9034d0a4f”, GitTreeState:"clean"}
```
The Server Version should contain the right tag in `version.Info.GitVersion`.

If any manual changes were required, please commit the vendor changes separately. This makes the change easier to view in GitHub.

```shell
git add vendor/
git commit -m "Updating Kubernetes to foo"
git add --all
git commit -m "Manual changes to update Kubernetes to foo"
```

As a final part of updating Kubernetes, a new version of localkube should be uploaded to GCS so that users can select this version of Kubernetes/localkube in later minikube/localkube builds. For instructions on how to do this, see [releasing_localkube.md](https://github.com/kubernetes/minikube/blob/master/docs/contributors/releasing_localkube.md)

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## minikube ISO image

This includes the configuration for an alternative bootable ISO image meant to be used in conjunction with minikube.

It includes:
- systemd as the init system
- rkt
- docker

## Hacking

### Requirements

* Linux
```
sudo apt-get install build-essential gnupg2 p7zip-full git wget cpio python 
unzip bc gcc-multilib automake libtool locales
```

Either import your private key or generate a sign-only key using `gpg2 --gen-key`.
Also be sure to have an UTF-8 locale set up in order to build the ISO.

### Build instructions

```
$ git clone https://github.com/kubernetes/minikube
$ cd minikube
$ make buildroot-image
$ make out/minikube.iso
```

The build will occurs inside a docker container, if you want to do this baremetal, replace `make out/minikube.iso` with `IN_DOCKER=1 make out/minikube.iso`.
The bootable ISO image will be available in `out/minikube.iso`.

### Testing local minikube-iso changes

```
$ ./out/minikube start \
  --container-runtime=rkt \ 
  --network-plugin=cni \ 
  --iso-url=file://$GOPATH/src/k8s.io/minikube/out/minikube.iso
```

### Buildroot configuration

To change the buildroot configuration, execute:

```
$ cd out/buildroot
$ make menuconfig
$ make
```

To save any buildroot configuration changes made with `make menuconfig`, execute:

```
$ cd out/buildroot
$ make savedefconfig
```

The changes will be reflected in the `minikube-iso/configs/minikube_defconfig` file.

```
$ git status
## master
M deploy/iso/minikube-iso/configs/minikube_defconfig
```

### Saving buildroot/kernel configuration changes

To make any kernel configuration changes and save them, execute:

```
$ make linux-menuconfig
```

This will open the kernel configuration menu, and then save your changes to our iso directory after they've been selected.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# Steps to Release Localkube

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## Configure The Correct Kubernetes Version to Build for Localkube

When building localkube for a specific Kubernetes version, follow the steps at [Updating Kubernetes](https://github.com/kubernetes/minikube/blob/master/docs/contributors/updating_kubernetes.md). After you have setup a new folder and GOPATH with the desired version of Kubernetes (from the directions above), you go on to build localkube.

## Build the Localkube Release

```shell
make out/localkube
```

## Upload to GCS:

```shell
gsutil cp out/localkube gs://minikube/k8sReleases/$K8S_RELEASE/localkube-linux-amd64
```

## Add the version to the k8s_releases.json file

Add an entry **in the appropriate version location** to deploy/minikube/k8s_releases.json with the version, and send a PR.

This file lists the available versions of localkube for minikube.

Only add entries to this file that should be released to all users (no pre-release, alpha or beta releases).

The schema for this file can be found in deploy/minikube/k8s_schema.json.

An automated test to verify the schema runs in Travis before each submit.

## Upload the releases.json file to GCS

This step makes the new release trigger update notifications in old versions of Minikube.

Use this command from a clean git repo:

```shell
gsutil cp deploy/minikube/k8s_releases.json gs://minikube/k8s_releases.json
```

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c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
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use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Version 2.1, February 1999

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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abstract: 'Expand tabs and do simple line wrapping'
author:
  - 'David Muir Sharnoff <muir@idiom.org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
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name: Text-Tabs+Wrap
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directory:
  - t
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resources:
  repository: http://github.com/muir/Text-Tabs-Wrap
version: 2013.0523

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1.5842 gocql 0.0.0-20200605141915-ba5dc39ece85

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**Version 1.0.0**

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The Pharmacy Management System is a complete system that is meant for a seamless experience between the patient, doctor, and pharmacist each assisting one another as a doctor with a fill prior info about the patient then the patient goes the pharmacy to get his drugs. The application has 3 main sections, pharmacy section, doctor section, and payments section. The doctor section represents the admin user with the ability of adding new drugs. the
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## Installation

Please follow the official website provided for easy installation of the needed tools on your system.

* [Java](https://www.java.com/en/download/) The main programming language of the application
* [Swing](https://netbeans.org/features/java-on-client/swing.html) A Java Framework used for building the GUI
* [Netbeans IDE](https://netbeans.org/downloads/6.1/index.html) An IDE used to allow functionality of the Java forms

## A Simple LOGO Fix:

* Change the path of the ImageIcon to the correct path of your machine to allow the program to have a Logo apart from the java logo
* To do this:

  a) Change from the path in this line in every java class after init component method to correct path in your machine from the Icons folder:

    ```java
    img = new ImageIcon("C:\\Users\\Zoubar\\Documents\\NetBeansProjects\\Pharmacy_Project\\src\\Icons\\icon1.png");
    
    img = new ImageIcon("New path from your machine.png");
    
    c) Then re-run the project and will run as normal with a Icon present.

# Video of Explanation:

* [Pharmacy Management System Video](https://www.loom.com/share/6a19a0fbc9c847ac8dc3e0e045162024)

## Contributing

Pull requests are welcome. For major changes, please open an issue first to discuss what you would like to change.

Please make sure to update tests as appropriate.

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Found in path(s):
* /opt/cola/permits/1229290666_1645725615.8/0/pharmacy-management-system-master-zip/Pharmacy-Management-System-master/README.md

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**1.5854 iproute 5.9.0-4.el8**

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1.5858 string-width 1.0.2

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1.5859 netty-transport 4.1.62.Final

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Manifest-Version: 1.0
Implementation-Title: Netty/Transport
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.transport
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport
Implementation-Version: 4.1.62.Final
Built-By: norman
Bnd-LastModified: 1617128242504
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)";io.netty.resolver;version="[4.1,5)";io.netty.util;version="[4.1,5)";io.netty.util.concurrent;version="[4.1,5)";io.netty.util.internal;version="[4.1,5)";io.netty.util.logging;version="[4.1,5)";sun.nio.ch;resolution:=optional
org.eclipse.jetty.npn;version="[1,2)";resolution:=optional
org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&osgi.ee=JavaSE)(version=1.6)"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Transport
Bundle-Version: 4.1.62.Final
Created-By: Apache Maven Bundle Plugin
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1.5867 mongo-go-driver 1.3.0

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/opt/cola/permits/1289299289_1653548857.6687155/0/dockers-gz/dockers: binary file matches

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jar/ninja/metrics/MetricsModule.java
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli
- org.apache.tomcat:tomcat-jsp-api
- org.apache.tomcat:tomcat-el-api
- org.apache.tomcat:tomcat-jasper-el
- org.apache.tomcat:tomcat-api
- org.apache.tomcat:tomcat-util-scan
- org.apache.tomcat:tomcat-util
- org.mortbay.jasper:apache-el
- org.apache.tomcat:tomcat-jasper-el
- org.apache.tomcat:tomcat-el-api

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From this directory execute the command
```
add-licenses dir [exclude.txt]
```

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<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
<br>
</head>
<body>
<br>
</body>
</html>
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  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
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    x = "<br><p>The following are other community resources that may be helpful:<br><br><a href=https://tldrlegal.com/license/common-development-and-distribution-license-%28cddl-1.0%29-explained style='font-weight: bold;'>Common Development and Distribution License (CDDL-1.0) on TLDRLegal<br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a href=choosealicense.com>Choosealicense";
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}

//--><!]></script></div>

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Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes
the various releases.

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1.5897 jctools-core 3.0.0
1.5897.1 Available under license:

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1.5898 types-istanbul-lib-coverage 2.0.4
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1.5909 type-check 0.3.2

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1.5910 eslint-plugin-standard 4.0.1

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###
github.com/dustin/go-humanize
###

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"
}

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...) 
            return body
        }
    }

    return body
}
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        for i := range m.Licenses {
            license := &m.Licenses[i]
            if req.LicenseKey != license.LicenseKey {
                continue
            }
            body.Res = new(types.UpdateLicenseLabelResponse)
            for j := range license.Labels {
                label := &license.Labels[j]
                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:...]...)}
                    else {
                        label.Value = req.LabelValue
                    }
                    return body
                }
            }
            license.Labels = append(license.Labels, types.KeyValue{
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })
            return body
        }
    }
    body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {

body := &methods.QueryAssignedLicensesBody{
Res: &types.QueryAssignedLicensesResponse{},
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
if req.EntityId != Map.content().About.InstanceUuid {
    id := types.ManagedObjectReference{
        Type: "HostSystem",
        Value: req.EntityId,
    }
    if Map.Get(id) == nil {
        return body
    }
}
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
},

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = key
    info.Labels = labels

    return info
}

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Data model artifacts for Prometheus.

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin string
    Option string
    Severity string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "Plugin "%v\"", n.Plugin)
    } else {
        s += fmt.Sprintf("Option "Option "%v\" in plugin "%v\"", n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {

s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const (  
    deprecated = "deprecated" // deprecated, but still completely functional  
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS  
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile  
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.  
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
  )

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses
)

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# Copying Container Files

- Copy files to and from Containers in a cluster
## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

{% method %}

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

{% sample lang="yaml" %}
```
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
{% endmethod %}

{% method %}

### Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

{% sample lang="yaml" %}
```
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
{% endmethod %}

### Specify the Container

Specify the Container within a Pod running multiple containers.

- `\-c <container-name>`
```
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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tomb - support for clean goroutine termination in Go.

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* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/LinkTable.py
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* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/bat_structoffset.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/CmdSelector.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/parser_bin_tool.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SymbolTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/extract_address.py
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* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/actionenum.py
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.5922 jackson-dataformat-yaml 2.10.5
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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**1.5927 netty-tcnative-boringssl-static**

**2.0.25.Final**

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  jar/io/netty/internal/tcnative/CertificateRequestedCallback.java
* /opt/cola/permits/1262704582_1643432056.08/0/netty-tcnative-boringssl-static-2-0-25-final-sources-
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* /opt/cola/permits/1262704582_1643432056.08/0/netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/Library.java

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Manifest-Version: 1.0
BoringSSL-Revision: 8e8f250422663106d478f6927beefba289a95b37
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1555012097509
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)",resolution:=optional,org.eclipse.jetty.npn;version="[1,2)",:resolution:=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.25.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.25.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx;;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_181

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* /opt/cola/permits/1262704582_1643432056.08/0/netty-tcnative-boringssl-static-2-0-25-final-sources-jar/META-INF/MANIFEST.MF
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1.5929 powermock-api-support 2.0.2

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* /opt/cola/permits/1139554087_1614660450.47/0/powermock-api-support-2-0-2-sources-1-jar/org/powermock/api/support/membermodification/strategy/MethodReplaceStrategy.java
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* /opt/cola/permits/1139554087_1614660450.47/0/powermock-api-support-2-0-2-sources-1-jar/org/powermock/api/support/membermodification/strategy/MethodReplaceStrategy.java
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* /opt/cola/permits/1139554087_1614660450.47/0/powermock-api-support-2-0-2-sources-1-
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* /opt/cola/permits/1112087866_1607035279.17/0/node-modules-agentkeepalive-3.5.2-0-g9b81362-tar-gz/node-modules-agentkeepalive-9b81362/README.md
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* /opt/cola/permits/1112087866_1607035279.17/0/node-modules-agentkeepalive-3-5-2-0-g9b81362-tar-gz/node-
modules-agentkeepalive-9b81362/lib/_http_agent.js

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 * */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.
 *
 * <h3>Sub-types</h3>
 *
 * [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * 
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * 
 * Alternatively, the following adapter classes are provided for your convenience:
* <ul>
  * <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
  * <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
  * <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
  *</ul>

* For more information, please refer to the documentation of each subtype.

* </p>

* <h3>The context object</h3>

* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.

* </p>

* <h3>State management</h3>

* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:

* public interface Message {
  * // your methods here
  * }

* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
  *
  * private boolean loggedIn;
  *
  * { @code @Override
  * public void channelRead0(@link ChannelHandlerContext) ctx, Message message) {
  *   if (message instanceof LoginMessage) {
  *     authenticate((LoginMessage) message);
  *     <b>loggedIn = true;</b>
  *   } else (message instanceof GetDataMessage) {
  *     if (<b>loggedIn</b>) {
  *       ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
  *     } else {
  *       fail();
  *     }
  *   }
  * }
  * ...
  * }
  * </pre>

```
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* </pre>

* Using {@link AttributeKey}s

* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
* </pre>

* public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
*     private final AttributeKey&lt;Boolean&gt; auth = AttributeKey.valueOf("auth");
*     @Override
*     public void channelRead(ChannelHandlerContext ctx, Message message) {
*         Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             attr.set(true);
*         } else (message instanceof GetDataMessage) {
*             if (Boolean.TRUE.equals(attr.get())) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {

    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

<h4>The `@Sharable` annotation</h4>

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation.

If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `ChannelHandler`, and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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```
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From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net>       ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08  BB6E C389 975E A5F0 59F2
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1.5945 protobuf 1.27.1

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1.5946 kubernetes-api 0.19.2

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1119092615_1608716259.54/jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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jar/com/google/common/collection/Interners.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ExecutionSequencer.java
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jar/com/google/common/util/concurrent/IgnoreJRERequirement.java
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*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
*/

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  jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/AbstractCompositeHashFunction.java
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/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODo(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Java8Usage.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberContextException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/IndexedImmutableSet.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TransformedListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredEntrySetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactLinkedHashSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactLinkedHashMap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableEnumMap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingBlockingDeque.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collections/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collections/StandardTable.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collections/ImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collections/Table.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collections/EmptyImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collections/CollectPreconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collections/HashBasedTable.java
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jar/com/google/common/math/StatsAccumulator.(java
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jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
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jar/com/google/common/hash/LongAddables.java
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jar/com/google/common/collect/CartesianList.java
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info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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*/
/**
**
* Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
* [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
* under GWT but with a slightly different signature.
*
* &lt;p&gt;We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
* it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Stopwatch.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/DenseImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ForwardingFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/SettableFuture.java
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jar/com/google/common/util/concurrent/Callables.java
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jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractIdleService.java
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jar/com/google/common/base/Platform.java
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jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/RegularImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/Escapers.java

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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 * @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable} to use {@link
  ImmutableSortedMap#of(Comparable, Object)}. </b>*

*/

Found in path(s):
*/

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.java

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/**
* Holder for web specializations of methods of { @code Floats}. Intended to be empty for regular
* version.
*/

Found in path(s):
*/

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/FloatsMethodsForWeb.java

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1.5951 jackson-datatype-jsr310 2.11.2

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1.5952 armon-go-metrics 0.3.6
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1.5954 waffle-jna 1.6.wso2v5

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/opt/cola/permits/1362376994_1657902204.71315/0/waffle-jna-1-5-wso2v5-jar/com/sun/jna/platform/win32/Spip.class: binary file matches
/opt/cola/permits/1362376994_1657902204.71315/0/waffle-jna-1-5-wso2v5-jar/com/sun/jna/platform/win32/WinError.class: binary file matches

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* /opt/cola/permits/1362376994_1657902204.71315/0/waffle-jna-1-5-wso2v5-jar/META-INF/maven/org.wso2.orbit.com.github.dblock.waffle/waffle-jna/pom.xml

1.5955 addressing 1.6.1-wso2v28

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4.6.38

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set style histogram errorbars gap 2 lw 1
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1.5969 wso2-carbon-apimgt-impl 6.4.50

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1.5970 doxia-decoration-model 1.1.2

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<signature of Ty Coon>, 1 April 1989
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1.5976 load-json-file 2.0.0

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1.5977 exit 0.1.2

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1.5978 go-uber-org-multierr 1.5.0

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1.5979 gophercloud 0.3.0

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```go
package RESOURCE

import (  
   "github.com/gophercloud/gophercloud"
   "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
   gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method to interpret it as a RESOURCE.
type GetResult struct {
   commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method to interpret it as a RESOURCE.
type CreateResult struct {
   commonResult
}
```
// DeleteResult is the response from a Delete operation. Call its ExtractErr to
determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
interpret it as a RESOURCE.
type UpdateResult struct {
commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
    Links struct {
        Next string `json:"next"`
        Previous string `json:"previous"`
    } `json:"links"

    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
var s struct {
    Resources []Resource `json:"resources"
}
err := (r.(ResourcePage)).ExtractInto(&s)
return s.Resources, err
}
// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).
Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a 'git' repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
-----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.
### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.
Use the following `git` workflow to implement this method:

```
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `'[wip]'` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.
### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have
provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and
ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible
that the acceptance tests you've included were not run. When this happens,
a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources
required to run the acceptance tests. When this happens, it is essential
that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

-------------

When you feel your Pull Request is ready for review, please leave a comment
requesting a code review. If you don't explicitly ask for a code review, a
core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure
about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've
submitted and either request changes or request additional information.
Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md)
for conventions used.

2. Requests for additional information about the validity of something. This
   might happen because the included supporting service code URLs don't have
   enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

-------------

If a code review requires changes to be submitted, please do not squash your
commits. Please only add new commits to the Pull Request. This is to help the
code reviewer see only the changes that were made.

It's Never Personal
Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don’t take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
go package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`

// GetResult provides a Get result.
const GetResult = `{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`

// UpdateRequest provides the input to a Update request.
const UpdateRequest = `{
}
`
// UpdateResult provides an update result.
const UpdateResult = `{ }`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }  //test handler mux that responds with a list of two resources.

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
})
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }  //test handler mux that responds with a single resource.

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, GetResult)
})
}
// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, CreateRequest)
w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
}
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, UpdateRequest)
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}
// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{OkCodes: []int{201},})
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{OkCodes: []int{200},})
    return
}

package testing

import (
func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE
import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 7: Congratulations!
=================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE
Step 4: Acceptance Testing
=================================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.
And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

#### Adding a Feature to Gophercloud Core
The “core” of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the ‘Get’ function of ‘networking/v2/networks’. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in ‘networking/v2/extensions’.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719
You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* [https://github.com/gophercloud/gophercloud/issues/539](https://github.com/gophercloud/gophercloud/issues/539)
* [https://github.com/gophercloud/gophercloud/issues/555](https://github.com/gophercloud/gophercloud/issues/555)
* [https://github.com/gophercloud/gophercloud/issues/571](https://github.com/gophercloud/gophercloud/issues/571)
* [https://github.com/gophercloud/gophercloud/issues/583](https://github.com/gophercloud/gophercloud/issues/583)
* [https://github.com/gophercloud/gophercloud/issues/605](https://github.com/gophercloud/gophercloud/issues/605)

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* [https://github.com/gophercloud/gophercloud/issues/723](https://github.com/gophercloud/gophercloud/issues/723)

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

---------------------

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.
Let's use the following issue as an example:  
[https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. 
Meaning, we want to change:

```go
type Network struct {
    ID string `json:"id"`
    Name string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared bool `json:"shared"
}
...```

to look like

```go
    ID string `json:"id"`
    Name string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared bool `json:"shared"

    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```  

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying > that the API docs aren't useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of 'availability_zone_hints' in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that 'availability_zone_hints' is indeed part of the 'Network' object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

--------------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---
Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

### 1.5980 zstd 1.3.3

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```xml
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.jooq</groupId>
    <artifactId>jooq-parent</artifactId>
    <version>3.12.3</version>
  </parent>
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  <licenses>
    <license>
      <name>Apache License, Version 2.0</name>
      <url>http://www.jooq.org/inc/LICENSE.txt</url>
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  </licenses>
</project>
```
<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-jar-plugin</artifactId>
      <configuration>
        <archive>
          <manifestEntries>
            <Automatic-Module-Name>org.jooq.meta</Automatic-Module-Name>
          </manifestEntries>
        </archive>
      </configuration>
    </plugin>
  </plugins>
</build>

<dependencies>
  <dependency>
    <groupId>org.jooq</groupId>
    <artifactId>jooq</artifactId>
  </dependency>
</dependencies>

Found in path(s):
* /opt/cola/permits/1274596046_1645218330.36/0/jooq-meta-3-12-3-sources-jar/META-INF/maven/org.jooq/jooq-meta/pom.xml
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* /opt/cola/permits/1274596046_1645218330.36/0/jooq-meta-3-12-3-sources-jar/org/jooq/meta/DefaultSequenceDefinition.java
* /opt/cola/permits/1274596046_1645218330.36/0/jooq-meta-3-12-3-sources-jar/org/jooq/meta/TableDefinition.java
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* /opt/cola/permits/1274596046_1645218330.36/0/jooq-meta-3-12-3-sources-jar/org/jooq/meta/CatalogDefinition.java
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Found in path(s):
* /opt/cola/permits/1274596046_1645218330.36/0/jooq-meta-3-12-3-sources-jar/org/jooq/meta/tools/FlywayVersion.java

1.5984 exporter-ocagent 0.6.0
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1.5985 alertmanager 0.21.0

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package spec

import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return b1, err
}
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.5988 libintl 0.21-r2

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.5995 doxia-sink-api 1.0-alpha-7

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1.5997 go-storage 1.10.0

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package cloud

import (    "bytes"    "io/ioutil"    "os"    "path/filepath"    "strings"    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if fi.IsDir() { return nil }
        return nil
    })
return err
}

if ext := filepath.Ext(path); ext !=".go" & ext !=".proto" {
    return nil
}

if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}

if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}

if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil

})
if err != nil {
    t.Fatal(err)
}


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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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1.6004 cmake-data 3.13.4-1

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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CMAKE_INSTALL_DATADIR='share'
CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/Usr'
CMAKE_INSTALL_INCLUDEDIR='include'
CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR='(lib|lib64|lib/arch)'
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='man'
CMAKE_INSTALL_SBINDIR='sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/share'
CMAKE_INSTALL_FULL_DATAROOTDIR=/usr/share
CMAKE_INSTALL_FULL_DOCDIR=/usr/share/doc/Usr
CMAKE_INSTALL_FULL_INCLUDEDIR=/usr/include
CMAKE_INSTALL_FULL_INFODIR=/usr/info
CMAKE_INSTALL_FULL_LIBDIR=/usr/(lib|lib64|lib/arch)
CMAKE_INSTALL_FULL_LIBEXECDIR=/usr/libexec
CMAKE_INSTALL_FULL_LOCALEDIR=/usr/share/locale
CMAKE_INSTALL_FULL_LOCALSTATEDIR=/var
CMAKE_INSTALL_FULL_RUNSTATEDIR=/var/run
CMAKE_INSTALL_FULL_MANDIR=/usr/man
CMAKE_INSTALL_FULL_SBINDIR=/usr/sbin
CMAKE_INSTALL_FULL_SHAREDSTATEDIR=/usr/com
CMAKE_INSTALL_FULL_SYSCONFDIR=/etc$

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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CMAKE_INSTALL_DATADIR='usr/share'
CMAKE_INSTALL_DATAROOTDIR='usr/share'
CMAKE_INSTALL_DOCDIR='usr/share/doc/Root'
CMAKE_INSTALL_INCLUDEDIR='usr/include'
CMAKE_INSTALL_INFODIR='usr/info'
CMAKE_INSTALL_LIBDIR='usr/lib/$(lib64)'
CMAKE_INSTALL_LIBEXECDIR='usr/libexec'
CMAKE_INSTALL_LOCALEDIR='usr/share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='usr/man'
CMAKE_INSTALL_SBINDIR='usr/sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='usr/com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/share/doc/Root'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/lib/$(lib64)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/usr/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/usr/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='var'
CMAKE_INSTALL_FULL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_FULL_MANDIR='/usr/man'
CMAKE_INSTALL_FULL_SBINDIR='/usr/sbin'
CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/usr/com'
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merhaba dnya
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CMAKE_INSTALL_DATADIR='share'
CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/Opt'
CMAKE_INSTALL_INCLUDEDIR='include'
CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR=('/lib|lib64'')
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALEDIR='share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='man'
CMAKE_INSTALL_SBINDIR='sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/opt/Opt/bin'
CMAKE_INSTALL_FULL_DATADIR='/opt/Opt/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/opt/Opt/share'
CMAKE_INSTALL_FULL_DOCDIR='/opt/Opt/share/doc/Opt'
CMAKE_INSTALL_FULL_INCLUDEDIR='/opt/Opt/include'
CMAKE_INSTALL_FULL_INFODIR='/opt/Opt/info'
CMAKE_INSTALL_FULL_LIBDIR='/opt/Opt/(/lib|lib64)''
CMAKE_INSTALL_FULL_LIBEXECDIR='/opt/Opt/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/opt/Opt/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/var/opt/Opt'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/var/run/opt/Opt'
CMAKE_INSTALL_FULL_MANDIR='/opt/Opt/man'
CMAKE_INSTALL_FULL_SBINDIR='/opt/Opt/sbin'
CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/opt/Opt/com'
CMAKE_INSTALL_FULL_SYSCONFDIR='/etc/opt/Opt$

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1.6014 hdrhistogram 2.1.10

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class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

Found in path(s):
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/AtomicHistogram.java
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/DoubleLinearIterator.java
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/DoubleRecorder.java
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/AllValuesIterator.java
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* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/ShortCountsHistogram.java
* /opt/cola/permits/195085291_1651176808.390/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/HistogramLogReader.java
*/

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* /opt/cola/permits/195085291_1651176808.39/0/hdrhistogram-2-1-10-sources-jar/org/HdrHistogram/DoubleHistogram.java

1.6015 python3-libselinux 2.9-4.el8_3
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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
December 22, 2014

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1.6026 jaggeryjs-hostobjects-jaggeryparser
0.12.6

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1.6027 pcre 8.42 4.el8

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1.6030 **fdisk 2.38.0**

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* /opt/cola/permits/1362376820_1657710573.2160022/0/ring-servlet-1-3-0-beta2-jar-zip/ring-servlet-1-3-0-beta2-
jar/META-INF/maven/ring/ring-servlet/pom.xml
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(defproject ring/ring-servlet "1.3.0-beta2"
:description "Ring servlet utilities."
:url "https://github.com/ring-clojure/ring"
:scm {:dir ".."}
:license {:name "The MIT License"
  :url "http://opensource.org/licenses/MIT"}
:dependencies [[org.clojure/clojure "1.3.0"]]
:profiles
  {:provided {:dependencies [[javax.servlet/servlet-api "2.5"]]}]
  :dev {:dependencies [[javax.servlet/servlet-api "2.5"]]}]
  :1.4 {:dependencies [[org.clojure/clojure "1.4.0"]]}]
  :1.5 {:dependencies [[org.clojure/clojure "1.5.1"]]}]
  :1.6 {:dependencies [[org.clojure/clojure "1.6.0"]]}])

Found in path(s):
* /opt/cola/permits/1362376820_1657710573.2160022/0/ring-servlet-1-3-0-beta2-jar-zip/ring-servlet-1-3-0-beta2-
  jar/project.clj
* /opt/cola/permits/1362376820_1657710573.2160022/0/ring-servlet-1-3-0-beta2-jar-zip/ring-servlet-1-3-0-beta2-
  jar/META-INF/leiningen/ring/ring-servlet/project.clj

1.6033 libpng 1.6.34 5.el8
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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
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1.6049.1 Available under license:
   No license file was found, but licenses were detected in source scan.

   /opt/cola/permits/1270993455_1658229177.4939203/0/karuppih7890-nos-golang-sdk-0nos-golang-sdk/test/fortest: binary file matches

   Found in path(s):
   * /bin/grep

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1.6060 zlib 1.2.11 r1

1.6061 configobj 5.0.6
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Upstream-Name: ConfigObj
Upstream-Contact: Michael Foord <fuzzyman@voidspace.org.uk>
Source: http://www.voidspace.org.uk/python/configobj.html

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 */
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */

Found in path(s):
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSConstraints.java

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* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DOMMessages.properties

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 */

/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 * @return a boolean that says whether this content has been compacted for UPA
 */

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*/

/**
* DOM Level 3 LS CR - Experimental.
* Create a new <code>LSParser</code>. The newly constructed parser may
* then be configured by means of its <code>DOMConfiguration</code>
* object, and used to parse documents by means of its <code>parse</code>
* method.
* @param mode  The <code>mode</code> argument is either
*    <code>MODE_SYNCHRONOUS</code> or <code>MODE ASYNCHRONOUS</code>, if
*    <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
*    <code>LSParser</code> that is created will operate in synchronous
*    mode, if it's <code>MODE ASYNCHRONOUS</code> then the
*    <code>LSParser</code> that is created will operate in asynchronous
*    mode.
* @param schemaType  An absolute URI representing the type of the schema
* language used during the load of a <code>Document</code> using the
* newly created <code>LSParser</code>. Note that no lexical checking
* is done on the absolute URI. In order to create a
* <code>LSParser</code> for any kind of schema types (i.e. the
* LSParser will be free to use any schema found), use the value
* <code>null</code>.
* @param note: Note: <b>Note</b>: For W3C XML Schema [<a href="http://www.w3.org/TR/2001/REC-xmlschema-1-20010502">XML Schema Part 1</a>]
* , applications must use the value

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* `<code>`"http://www.w3.org/2001/XMLSchema"</code>`. For XML DTD [<a href="http://www.w3.org/TR/2000/REC-xml-20001006">XML 1.0</a>],

* applications must use the value

* `<code>`"http://www.w3.org/TR/REC-xml"</code>`. Other Schema languages

* are outside the scope of the W3C and therefore should recommend an

* absolute URI in order to use this method.

* @return The newly created `<code>`LSParser</code>` object. This

* `<code>`LSParser</code>` is either synchronous or asynchronous

* depending on the value of the `<code>`mode</code>` argument.

* <p><b>Note:</b> By default, the newly created `<code>`LSParser</code>`

* does not contain a `<code>`DOMErrorHandler</code>``, i.e. the value of

* the "<a href="http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler">error-handler</a>" configuration parameter is `<code>`null</code>`>. However, implementations

* may provide a default error handler at creation time. In that case,

* the initial value of the `<code>`"error-handler"</code>` configuration

* parameter on the new created `<code>`LSParser</code>` contains a

* reference to the default error handler.

* @exception DOMException

* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is

* not supported.

*/

Found in path(s):
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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  jar/org/apache/html/dom/HTMLHeadingElementImpl.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xs/StringDV.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xs/XSLoaderImpl.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/wml/WMLCardElement.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/parsers/BasicParserConfiguration.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/io/ASCIIReader.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/stax/events/XMLEventImpl.java
* /opt/cola/permits/1657710566.9403865/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/stax/events/ProcessingInstructionImpl.java

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* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLGoElement.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLGoElementImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentSource.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTdElementImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSNotationDecl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DatatypeException.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/XMLEventFactoryImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/HexBinaryDV.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDDNotationTraverser.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/KeyRef.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SAXParserImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SynchronizedSymbolTable.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EntityResolverWrapper.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/EncodingInfo.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/Selector.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/xs/setAttributeUseImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAccessElement.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLInputElement.java
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* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/Match.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/AttributePSVImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMRepeatingLeaf.java
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* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCellElementImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/ElementImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NamedNodeMapImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/dtd/models/CMAny.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/xs/ElementDecl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/dv/HexBin.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOLListElementImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTemplateElement.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NamedNodeMapImpl.java
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* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TextImpl.java
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* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/QName.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/ObjectFactory.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDocumentFragmentHandler.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/SecuritySupport.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMValidatorHelper.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSWildcard.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources.jar/org/apache/wml/dom/WMLCardElementImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources.jar/org/apache/xrces/dom/PSVIAttrNSImpl.java
* /opt/cola/permits/1362377241_1657710566.9403865/0/xercesimpl-2-12-0-sources.jar/org/apache/xrces/impl/dtd/models/MixedContentModel.java
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Convex_hull_2 2D Convex Hulls and Extreme Points
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Envelope_2 2D Envelopes
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Inscribed_areas Inscribed Areas
Interpolation 2D and Surface Function Interpolation
Interval_skip_list Interval Skip List
Jet_fitting_3 Estimation of Local Differential Properties of Point-Sampled Surfaces
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2.0.9

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This option is useful when you wish to copy part of the code of
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.6093 perl-http-tiny 0.074 1.el8

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c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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   (For example, a function in a library to compute square roots has
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<signature of Ty Coon>, 1 April 1989
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/*--

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1.6110 stack-utils 1.0.5

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1.6111 source-map-support 0.5.21

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1.6130 babel-eslint 10.0.3

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1.6131 external-editor 3.1.0

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1.6132 mimic-fn 2.1.0

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1.6135 kerberos 1.17.3

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_acquire_cred.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_cred.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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* *
* Author: Balint Cristian <cbalint@redhat.com>
* *
* matrix invert code derivate from GRASS project (< 4.0 version):
* http://grass.itc.it/
* *
* * matrix multiply algorithm:
* http://en.wikipedia.org/wiki/Matrix_multiplication
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*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at module-build@perl.org."
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' } 

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}
my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'"

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

1.6138 gnostic 0.4.1
1.6138.1 Available under license:

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1.6139 python3-certifi 2018.8.24-1

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This package contains a modified version of ca-bundle.crt:

cabundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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1.6140 spring-web 3.2.18.RELEASE
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  jar/org/springframework/http/InterceptingHttpResultMetadata.java
* /opt/cola/permits/1151703751_1617967842.31/0/spring-web-3-2-18-release-sources-3-
  jar/org/springframework/http/support/InterceptingHttpMessageConverter.java
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* /opt/cola/permits/1151703751_1617967842.31/0/spring-web-3-2-18-release-sources-3-jar/org/springframework/web/filter/CharacterEncodingFilter.java
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Found in path(s):
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* org.eclipse.jetty.orbit:javax.security.auth.message
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.6143 libjpeg 6b

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software not to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library’s internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.
OVERVIEW
--------

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpegcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
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REFERENCES
==========

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.6144 libnpmorg 1.0.1

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPLv2.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.6147 github.com/dgryski/go-jump 0.0.0-20170409065014-e1f439676b57

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.6152 perl-uri 1.73-3.el8

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1.6154 wso2-carbon-deployment-synchronizer-subversion 4.6.49

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.
Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.6170 kotlin 1.4.0

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(function (root, factory) {
    if (typeof define === 'function' && define.amd) {
        define('kotlin', ['exports'], factory);
    } else if (typeof exports === 'object') {
        factory(module.exports);
    } else {
        root.kotlin = {};
        factory(root.kotlin);
    }
}(this, function (Kotlin) {
    var _ = Kotlin;

    insertContent();
}));

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Kotlin.isBooleanArray = function (a) {
    return (Array.isArray(a) || a instanceof Int8Array) && a.$type$ === "BooleanArray"
};

Kotlin.isByteArray = function (a) {
    return a instanceof Int8Array && a.$type$ !== "BooleanArray"
};

Kotlin.isShortArray = function (a) {
    return a instanceof Int16Array
};

Kotlin.isCharArray = function (a) {
    return a instanceof Uint16Array && a.$type$ === "CharArray"
};

Kotlin.isIntArray = function (a) {
    return a instanceof Int32Array
};

Kotlin.isFloatArray = function (a) {
    return a instanceof Float32Array
};

Kotlin.isDoubleArray = function (a) {
    return a instanceof Float64Array
};

Kotlin.isLongArray = function (a) {
    return Array.isArray(a) && a.$type$ === "LongArray"
};

Kotlin.isArray = function (a) {
    return Array.isArray(a) && !a.$type$;
};

Kotlin.isArrayish = function (a) {
    return Array.isArray(a) || ArrayBuffer.isView(a)
};

Kotlin.arrayToString = function (a) {
    if (a === null) return "null"
    var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;
    return "[" + Array.prototype.map.call(a, function(e) { return toString(e); }).join(", ") + "]";
};

Kotlin.arrayDeepToString = function (arr) {
    return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);
};

Kotlin.arrayEquals = function (a, b) {
    if (a === b) {
        return true;
    }
    if (a === null || b === null || !Kotlin.isArrayish(b) || a.length !== b.length) {
        return false;
    }

    for (var i = 0, n = a.length; i < n; i++) {
        if (!Kotlin.equals(a[i], b[i])) {
            return false;
        }
    }
    return true;
};

Kotlin.arrayDeepEquals = function (a, b) {
    return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);
};

Kotlin.arrayHashCode = function (arr) {
    if (arr === null) return 0
    var result = 1;
    for (var i = 0, n = arr.length; i < n; i++) {
        result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;
    }
    return result;
};

Kotlin.arrayDeepHashCode = function (arr) {
    return Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);
};

Kotlin.primitiveArraySort = function (array) {
    array.sort(Kotlin.doubleCompareTo)
};

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Kotlin.getCallableRef = function(name, f) {
    f.callableName = name;
    return f;
};

Kotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {
    getter.get = getter;
    getter.set = setter;
    getter.callableName = name;
    return getPropertyRefClass(getter, setter, propertyRefClassMetadataCache[paramCount]);
};

function getPropertyRefClass(obj, setter, cache) {
    obj.$metadata$ = getPropertyRefMetadata(typeof setter === "function" ? cache.mutable : cache.immutable);
    obj.constructor = obj;
    return obj;
};

function propertyRefClassMetadataCache {
    mutable: { value: null, implementedInterface: function () {
        return this.valueOf;
    },
    immutable: { value: null, implementedInterface: function () {
        return this.valueOf;
    }

    },
    get: function () {
        return Kotlin.kotlin.reflect.KMutableProperty0
    },

    set: function (value) {
        this.valueOf = value;
    },

    getCallable: function () {
        return function (name, f) {
            return f
        }
    },

    getCallableRef: function (name, paramCount, getter, setter) {
        return this.createPropertyRefClass(getter, setter, paramCount);
    },

    getOwnPropertyDescriptor: function (name, descriptor) {
        return null;
    },

    getOwnPropertyNames: function () {
        return null;
    };
}

function getPropertyRefMetadata(cache) {
    if (cache.value === null) {
        cache.value = {
            interfaces: [cache.implementedInterface()],
            baseClass: null,
            properties: {},
            types: {},
            staticMembers: {}
        }
    }
    return cache.value;
};

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Kotlin.toShort = function (a) {
    return (a & 0xFFFF) << 16 >>
};

Kotlin.toByte = function (a) {
    return (a & 0xFF) << 24 >> 24;
};

Kotlin.toChar = function (a) {
    return a & 0xFFFF;
};

Kotlin.numberToLong = function (a) {
    return a instanceof Kotlin.Long ? a : Kotlin.Long.fromNumber(a);
}

Kotlin.numberToInt = function (a) {
    return a instanceof Kotlin.Long ? a : Kotlin.Long.fromInt(a);
}

Kotlin.numberToFloat = function (a) {
    return a instanceof Kotlin.Long ? a : Kotlin.Long.fromFloat(a);
}

Kotlin.numberToDouble = function (a) {
    return a instanceof Kotlin.Long ? a : Kotlin.Long.fromDouble(a);
}
a.toInt() : Kotlin.doubleToInt(a);\n\nKotlin.numberToShort = function (a) {\n    return Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function (a) {\n    return Kotlin.toByteArray(Kotlin.numberToInt(a));\n};\n\nKotlin.toDouble = function (a) {\n    return +a;\n};\n\nKotlin.numberToChar = function (a) {\n    return Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function (a) {\n    if (a > 2147483647) return 2147483647;\n    if (a < -2147483648) return -2147483648;\n    return a | 0;\n};\n\nKotlin.toBoxedChar = function (a) {\n    if (a == null) return a;\n    if (a instanceof Kotlin.BoxedChar) return a;\n    return new Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function (a) {\n    if (a == null) return a;\n    return Kotlin.toChar(a);\n};
```javascript
@type {number}
  * @private
  * \n  this.low_ = low | 0; // force into 32 signed bits.
  /**
   * @type {number}
   * @private
   */
  this.high_ = high | 0; // force into 32 signed bits.

  /**
   * @type {number}
   * @private
   */
  this.low_ = low | 0;  // force into 32 signed bits.

  /**
   * @type {number}
   * @private
   */
  this.high_ = high | 0;  // force into 32 signed bits.
};

Kotlin.Long.$metadata$ =
{
    kind: "class",
    simpleName: "Long",
    interfaces:
[ ]
};

// NOTE: Common constant values
ZERO, ONE, NEG_ONE, etc. are defined below the\n// from* methods on which they depend.\n*/

/**
 * A cache of the Long representations of small integer values.\n * @type {!Object}
 * @private
 */
Kotlin.Long.IntCache_ = {};

/**
 * Returns a Long representing the given (32-bit) integer value.\n * @param {number} value The 32-bit integer in question.\n * @return {!Kotlin.Long} The corresponding Long value.\n */
Kotlin.Long.fromInt = function(value) {
  if (-128 <= value && value < 128) {
    var cachedObj = Kotlin.Long.IntCache_[value];
    if (cachedObj) {
      return cachedObj;
    }
  }

  var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);
  if (-128 <= value && value < 128) {
  }
  return obj;
};

/**
 * Returns a Long representation of the given string, written using the given\n * radix.\n * @param {string} str The textual representation of the Long.\n * @param {number=} opt_radix The radix in which the text is written.\n * @return {!Kotlin.Long} The corresponding Long value.\n */
Kotlin.Long.fromString = function(str, opt_radix) {
  if (str.length == 0) {
    throw Error('number format error: empty string');
  }

  var radix = opt_radix || 10;
  if (radix < 2 || 36 < radix) {
    throw Error('radix out of range: ' + radix);
  }

  if (str.charAt(0) == '-') {
    return Kotlin.Long.fromString(str.substring(1), radix).negate();
  } else if (str.indexOf('-') >= 0) {
    throw Error('number format error: interior "-" character: ' + str);
  }

  // Do several (8) digits each time through the loop, so as to\n  // minimize the calls to the very expensive emulated div.\n  var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 8));

  var result = Kotlin.Long.ZERO;
  for (var i = 0; i < str.length; i += 8) {
    var size = Math.min(8, str.length - i);
    var value = parseInt(str.substring(i, i + size), radix);
    if (size < 8) {
      var power = Kotlin.Long.fromNumber(Math.pow(radix, size));
      result = result.multiply(power).add(Kotlin.Long.fromNumber(value));
    } else {
      result = result.multiply(radixToPower);
      result = result.add(Kotlin.Long.fromString(str.substring(i, i + size), radix));
    }
  }
  return result;
};

// NOTE: the compiler should inline these constant values below and then remove\n// these variables, so there should be no runtime penalty for these.\n*/

/**
 * Number used repeated below in calculations.\n * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;

/**
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;

/**
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_32_DBL_ =
    Kotlin.Long.TWO_PWR_16_DBL_ *
    Kotlin.Long.TWO_PWR_16_DBL_;

/**
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_31_DBL_ =
    Kotlin.Long.TWO_PWR_32_DBL_ / 2;

/**
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_48_DBL_ =
    Kotlin.Long.TWO_PWR_32_DBL_ *
    Kotlin.Long.TWO_PWR_16_DBL_;

/**
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_64_DBL_ =
    Kotlin.Long.TWO_PWR_32_DBL_ *
    Kotlin.Long.TWO_PWR_32_DBL_;
Kotlin.Long.TWO_PWR_63_DBL_ = Kotlin.Long.TWO_PWR_64_DBL_ / 2;

Kotlin.Long.ZERO = Kotlin.Long.fromInt(0);

Kotlin.Long.ONE = Kotlin.Long.fromInt(1);

Kotlin.Long.NEG_ONE = Kotlin.Long.fromInt(-1);

Kotlin.Long.MAX_VALUE = Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);

Kotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);

Kotlin.Long.prototype.toInt = function() {
  return this.low_;
};

Kotlin.Long.prototype.toNumber = function() {
  return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ + this.getLowBitsUnsigned();
};

Kotlin.Long.prototype.toString = function(opt_radix) {
  var radix = opt_radix || 10;
  if (radix < 2 || 36 < radix) {
    throw Error('radix out of range: ' + radix);
  }

  if (this.isZero()) {
    return '0';
  }

  if (this.isNegative()) {
    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
      var radixLong = Kotlin.Long.fromNumber(radix);
      var div = this.div(radixLong);
      var rem = div.multiply(radixLong).subtract(this);
      return div.toString(radix) + rem.toInt().toString(radix);
    } else {
      return '-' + this.negate().toString(radix);
    }
  }

  var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 6));
  var rem = this;
  var result = '';
  while (true) {
    var remDiv = rem.div(radixToPower);
    var intval = rem.subtract(remDiv.multiply(radixToPower));
    var digits = intval.toString(radix);
    rem = remDiv;
    if (rem.isZero()) {
      return digits + result;
    } else {
      while (digits.length < 6) {
        digits = '0' + digits;
      }
      result = '' + digits + result;
    }
  }
};

Kotlin.Long.prototype.getHighBitsUnsigned = function() {
  return (this.low_ >= 0) ?
      this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;
};

Kotlin.Long.prototype.getNumBitsAbs = function() {
  if (this.isNegative()) {
    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return 64;
    } else {
      return this.negate().getNumBitsAbs();
    }
  } else {
    var val = this.high_ != 0 ? this.high_ : this.low_;
    for (var bit = 31; bit > 0; bit--) {
      if ((val & (1 << bit)) != 0) {
        break;
      }
    }
    return this.high_ != 0 ? bit + 33 : bit + 1;
  }
};

Kotlin.Long.prototype.notEqualsLong = function(other) {
  return this.high_ != other.high_ &&
    (this.low_ == other.low_ ||
     this.low_ != other.low_ &&
     this.isOdd() != other.isOdd());
};

Kotlin.Long.prototype.lessThan = function(other) {
  return this.compare(other) < 0;
};

Kotlin.Long.prototype.lessThanOrEqual = function(other) {
  return this.compare(other) <= 0;
};

Kotlin.Long.prototype.equalsLong = function(other) {
  return this.high_ == other.high_ &&
    this.low_ == other.low_;
};

Kotlin.Long.prototype.isOdd = function() {
  return (this.low_ & 1) == 1;
};

Kotlin.Long.prototype.isZero = function() {
  return this.high_ == 0 &&
    this.low_ == 0;
};

Kotlin.Long.prototype.isNegative = function() {
  return this.high_ < 0;
};

Kotlin.Long.prototype.equalsLong = function(other) {
  return this.compare(other) == 0;
};

Kotlin.Long.prototype.compareTo = function(other) {
  return this.compare(other);
};
function(other) { 
  return this.compare(other) <= 0; 
} 
/**
 * @return {boolean} Whether this Long is greater than the other.
 */
Kotlin.Long.prototype.greaterThan = function(other) { 
  return this.compare(other) > 0; 
} 
/**
 * @return {boolean} Whether this Long is greater than or equal to the other.
 */
Kotlin.Long.prototype.greaterThanOrEqual = function(other) { 
  return this.compare(other) >= 0; 
} 
/**
 * Compares this Long with the given one.
 */
Kotlin.Long.prototype.compare = function(other) { 
  if (this.equalsLong(other)) { 
    return 0; 
  } 
  var thisNeg = this.isNegative();
  var otherNeg = other.isNegative();
  if (thisNeg && !otherNeg) { 
    return -1; 
  } 
  if (!thisNeg && otherNeg) { 
    return 1; 
  } 
  // at this point, the signs are the same, so subtraction will not overflow if (this.subtract(other).isNegative()) { 
    return -1; 
  } else { 
    return 1; 
  } 
} 
/**
 * Returns the negation of this value.
 */
Kotlin.Long.prototype.negate = function() { 
  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) { 
    return Kotlin.Long.MIN_VALUE; 
  } else { 
    return this.not().add(Kotlin.Long.ONE); 
  } 
} 
/**
 * Returns the sum of this and the given Long.
 */
Kotlin.Long.prototype.add = function(other) { 
  // Divide each number into 4 chunks of 16 bits, and then sum the chunks:
  var a48 = this.high_ >>> 16; 
  var a32 = this.high_ & 0xFFFF; 
  var a16 = this.low_ >>> 16; 
  var a00 = this.low_ & 0xFFFF; 
  var b48 = other.high_ >>> 16; 
  var b32 = other.high_ & 0xFFFF; 
  var b16 = other.low_ >>> 16; 
  var b00 = other.low_ & 0xFFFF; 
  var c48 = 0; 
  var c32 = 0; 
  var c16 = 0; 
  var c00 = 0; 
  var c00 += a00 + b00; 
  var c16 += c00 >>> 16; 
  var c00 &= 0xFFFF; 
  var c16 += a16 + b16; 
  var c32 += c16 >>> 16; 
  var c16 &= 0xFFFF; 
  var c32 += a32 + b32; 
  var c48 += c32 >>> 16; 
  var c32 &= 0xFFFF; 
  var c48 += a48 + b48; 
  var c48 &= 0xFFFF; 
  return Kotlin.Long.fromBits((c16 << 16) | 0, (c48 << 16) | 0); 
} 
/**
 * Returns the difference of this and the given Long.
 */
Kotlin.Long.prototype.subtract = function(other) { 
  return this.add(other.negate()); 
} 
/**
 * Returns the product of this and the given Long.
 */
Kotlin.Long.prototype.multiply = function(other) { 
  if (this.isZero()) { 
    return Kotlin.Long.ZERO; 
  } 
  if (other.isZero()) { 
    return Kotlin.Long.ZERO; 
  } 
  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) { 
    if (other.equalsLong(Kotlin.Long.ONE) ||
      other.equalsLong(Kotlin.Long.MIN_VALUE)) { 
      return Kotlin.Long.ZERO; 
    } else { 
      return this.not().add(Kotlin.Long.ONE); 
    } 
  } 
  // If both longs are small, use float multiplication:
  if (this.lessThan(Kotlin.Long.TWO_PWR_24_)) { 
    return Kotlin.Long.fromNumber(this.toNumber() * other.toNumber()); 
  } 
  var a48 = this.high_ >>> 16; 
  var a32 = this.high_ & 0xFFFF; 
  var a16 = this.low_ >>> 16; 
  var a00 = this.low_ & 0xFFFF; 
  var b48 = other.high_ >>> 16; 
  var b32 = other.high_ & 0xFFFF; 
  var b16 = other.low_ >>> 16; 
  var b00 = other.low_ & 0xFFFF; 
  var c48 = 0; 
  var c32 = 0; 
  var c16 = 0; 
  var c00 = 0; 
  var c00 += a00 + b00; 
  var c16 += c00 >>> 16; 
  var c16 &= 0xFFFF; 
  var c32 += a16 + b16; 
  var c48 += c32 >>> 16; 
  var c32 &= 0xFFFF; 
  var c48 += a48 + b48; 
  var c48 &= 0xFFFF; 
  return Kotlin.Long.fromBits((c16 << 16) | 0, (c48 << 16) | 0); 
} 
/**
 * Returns this Long divided by the given one.
 */
Kotlin.Long.prototype.div = function(other) { 
  if (other.isZero()) { 
    throw Error('division by zero'); 
  } 
  if (this.equalsLong(Kotlin.Long.ZERO)) { 
    return Kotlin.Long.ZERO; 
  } 
  if (other.equalsLong(Kotlin.Long.ZERO)) { 
    return Kotlin.Long.ZERO; 
  } 
  if (this.isZero()) { 
    return Kotlin.Long.ZERO; 
  } 
  if (other.isZero()) { 
    return Kotlin.Long.ZERO; 
  } 
  if (this.isOdd()) { 
    return Kotlin.Long.ZERO; 
  } 
  if (other.isOdd()) { 
    return Kotlin.Long.ZERO; 
  } 
  if (this.isNegative()) { 
    return this.negative(); 
  } 
  if (other.isNegative()) { 
    return other.negative(); 
  } 
  return this.tuple().div(this, other); 
} 
/**
 * Returns the maximum of this and the given Long.
 */
Kotlin.Long.prototype.max = function(other) { 
  if (this.isZero()) { 
    return other; 
  } 
  if (other.isZero()) { 
    return this; 
  } 
  if (this.isNegative()) { 
    return other; 
  } 
  if (other.isNegative()) { 
    return this; 
  } 
  return this.compare(other) >= 0; 
} 
/**
 * Returns the minimum of this and the given Long.
 */
Kotlin.Long.prototype.min = function(other) { 
  if (this.isZero()) { 
    return other; 
  } 
  if (other.isZero()) { 
    return this; 
  } 
  if (this.isNegative()) { 
    return this; 
  } 
  if (other.isNegative()) { 
    return other; 
  } 
  return this.compare(other) <= 0; 
} 
} 

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other.equalsLong(Kotlin.Long.NEG_ONE)) {
      return Kotlin.Long.MIN_VALUE;  // recall that -MIN_VALUE == MIN_VALUE
    } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return Kotlin.Long.ONE;
    } else { // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|.
      var halfThis = this.shiftRight(1);
      var approx = halfThis.div(other).shiftLeft(1);
      if (approx.equalsLong(Kotlin.Long.ZERO)) {
        return other.isNegative() ? Kotlin.Long.ONE : Kotlin.Long.NEG_ONE;
      } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
        return Kotlin.Long.ZERO;
      }
      else {
        // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|.
        var halfThis = this.shiftRight(1);
        var approx = halfThis.div(other).shiftLeft(1);
        if (approx.equalsLong(Kotlin.Long.ZERO)) {
          return other.isNegative() ? Kotlin.Long.ONE : Kotlin.Long.NEG_ONE;
        } else {
          var rem = this.subtract(other.multiply(approx));
          var result = approx.add(rem.div(other));
          return result;
        }
      }
    } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return Kotlin.Long.ZERO;
    }
    else {
      // Repeat the following until the remainder is less than other: find \(\alpha\) //
      // floating-point that approximates remainder / other *from below*, add this\(\alpha\) //
      // into the result, and subtract it from the remainder. It is critical that \(\alpha\) //
      // the approximate value is less than or equal to the real value so that the\(\alpha\) //
      // remainder never becomes negative.
      var res = Kotlin.Long.ZERO;
      var rem = this;
      while (rem.greaterThanOrEqual(other)) {
        // Approximate the result of division. This may be a little greater or \(\alpha\) //
        // smaller than the actual value.
        var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));
        // We will tweak the approximate result by changing it in the 48-th digit or \(\alpha\) //
        // the smallest non-fractional digit, whichever is larger.
        var log2 = Math.ceil(Math.log(approx) / Math.LN2);
        var delta = (log2 <= 48) ? 1 : Math.pow(2, log2 - 48);
        // Decrease the approximation until it is smaller than the remainder. Note \(\alpha\) //
        // that if it is too large, the product overflows and is negative;\(\alpha\) var approxRes = Kotlin.Long.fromNumber(approx);
        var approxRem = approxRes.multiply(other);
        while (approxRem.isNegative() || approxRem.greaterThan(rem)) {
          approx -= delta;
          approxRes = Kotlin.Long.fromNumber(approx);
          approxRem = approxRes.multiply(other);
        }
        // We know the answer can’t be zero... and actually, zero would cause \(\alpha\) //
        // infinite recursion since we would make no progress.
        if (approxRes.isZero()) {
          approxRes = Kotlin.Long.ONE;
        }
        res = res.add(approxRes);
        rem = rem.subtract(approxRem);
      }
      return res;
    }
  }

  /**
   * Returns this Long modulo the given one.
   * @param {Kotlin.Long} other Long by which to mod.
   * @return {!Kotlin.Long} This Long modulo the given one.
   */
  Kotlin.Long.prototype.modulo = function(other) {
    return this.subtract(this.div(other).multiply(other));
  }

  /** @return {!Kotlin.Long} The bitwise-NOT of this value. */
  Kotlin.Long.prototype.not = function() {
    return Kotlin.Long.fromBits(~this.low_, ~this.high_);
  }

  /**
   * Returns the bitwise-AND of this Long and the given one.
   * @param {Kotlin.Long} other The Long with which to AND.
   * @return {!Kotlin.Long} The bitwise-AND of this and the other.
   */
  Kotlin.Long.prototype.and = function(other) {
    return Kotlin.Long.fromBits(this.low_ & other.low_,
                                 this.high_ & other.high_);
  }

  /**
   * Returns the bitwise-XOR of this Long and the given one.
   * @param {Kotlin.Long} other The Long with which to XOR.
   * @return {!Kotlin.Long} The bitwise-XOR of this and the other.
   */
  Kotlin.Long.prototype.xor = function(other) {
    return Kotlin.Long.fromBits(this.low_ ^ other.low_,
                                 this.high_ ^ other.high_);
  }

  /**
   * Returns this Long with bits shifted to the left by the given amount.
   * @param {number} numBits The number of bits by which to shift.
   * @return {!Kotlin.Long} This shifted to the left by the given amount.
   */
  Kotlin.Long.prototype.shiftLeft = function(numBits) {
    return this.shiftLeft(numBits);
  }

  /**
   * Returns this Long with bits shifted to the right by the given amount.
   * @param {number} numBits The number of bits by which to shift.
   * @return {!Kotlin.Long} This shifted to the right by the given amount.
   */
  Kotlin.Long.prototype.shiftRight = function(numBits) {
    return this.shiftRight(numBits);
  }

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if (numBits < 32) {
    var low = this.low_;
    return Kotlin.Long.fromBits(low >>> numBits) | (high <<< numBits);
  } else {
    return Kotlin.Long.fromBits(high >>> numBits);
  }
}

/**
 * Returns this Long with bits shifted to the right by the given amount, with * zeros placed into the new leading bits.
 * @param {number} numBits The number of bits by which to shift.
 * @return {!Kotlin.Long} This shifted to the right by the given amount, with * zeros placed into the new leading bits.
 */
Kotlin.Long.prototype.shiftRightUnsigned = function(numBits) {
  numBits &= 63;
  if (numBits == 0) {
    return this;
  } else {
    var high = this.high_;
    if (numBits < 32) {
      var low = this.low_;
      return Kotlin.Long.fromBits((low >>> numBits) | (high << (32 - numBits)),
          high >> numBits);
    } else if (numBits == 32) {
      return Kotlin.Long.fromBits(high, 0);
    } else {
      return Kotlin.Long.fromBits(high >>> (numBits - 32), 0);
    }
  }
};

// Support for
Kotlin.unKotlin.Long.prototype.equals = function(other) {
  return other instanceof Kotlin.Long &&
      this.equalsLong(other);
};

Kotlin.Long.prototype.compareTo_11rb$ = Kotlin.Long.prototype.compareTo;

Kotlin.Long.prototype.inc = function() {
    return this.add(Kotlin.Long.ONE);
};

Kotlin.Long.prototype.dec = function() {
    return this.add(Kotlin.Long.NEG_ONE);
};

Kotlin.Long.prototype.valueOf = function() {
    return this.toNumber();
};

Kotlin.Long.prototype.unaryPlus = function() {
    return this;
};

Kotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;
Kotlin.Long.prototype.inv = Kotlin.Long.prototype.not;

Kotlin.Long.prototype.rangeTo = function(other) {
    return new Kotlin.kotlin.ranges.LongRange(this, other);
};
\[ \text{(function(value) \{ \text{ return } \text{Kotlin.doubleToRawBits(isNaN(value)) ? NaN : value; } \}) \text{ return } \text{Kotlin.doubleToRawBits(value)}; } \]

\[ \text{Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]); } \text{ return } \text{Kotlin.doubleFromBits(function(value) \{ \text{ bufInt32[lowIndex] = value.low_; bufInt32[highIndex] = value.high_; } \text{ return } \text{bufFloat64[0]; } \}) \text{ return } \text{bufFloat64[0] = value; } \text{ return } \text{bufFloat64[0]; } \}\text{ return } \text{Kotlin.floatToBits = function(value) \{ \text{ return } \text{Kotlin.floatToRawBits(isNaN(value)) ? NaN : value; } \}) \text{ return } \text{Kotlin.doubleSignBit = function(value) \{ \text{ return } \text{bufFloat64[0] = value; } \text{ return } \text{bufFloat64[0]; } \}\text{ return } \text{bufFloat64[0]; } \}\text{ return } \text{Kotlin.ensureNotNull = function(obj) \{ } \text{ return } \text{obj || obj === undefined} \}\text{ return } \text{Kotlin.sign = function(x) \{ } \text{ return } \text{Math.sign(x); } \}\text{ return } \text{Math.sinh = function(x) \{ } \text{ return } \text{Math.sinh(x); } \}\text{ return } \text{Math.sqrt = function(x) \{ } \text{ return } \text{Math.sqrt(x); } \}\text{ return } \text{Math.tanh = function(x) \{ } \text{ return } \text{Math.tanh(x); } \}\]
```javascript
typedArraySlice(begin, end) { 
    if (typeof end === 'undefined') { 
        end = this.length; 
    } 
    begin = normalizeOffset(begin || 0, this.length); 
    end = Math.max(begin, normalizeOffset(end, this.length)); 
    return new this.constructor(this.subarray(begin, end)); 
}

Object.defineProperty(TypedArray.prototype, 'fill', { 
    value: Array.prototype.fill 
});

if (typeof TypedArray.prototype.slice === 'undefined') { 
    Object.defineProperty(TypedArray.prototype, 'slice', { 
        value: typedArraySlice 
    });
}

Object.defineProperty(TypedArray.prototype, 'map', { 
    value: function(callback, self) {
        return [].slice.call(this, this.map(callback, self)); 
    } 
});

Object.defineProperty(TypedArray.prototype, 'sort', { 
    value: function(compareFunction) {
        return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);
    } 
});

Object.defineProperty(TypedArray.prototype, 'getter', { 
    value: function(getter) {
        var propertyDescriptor = Object.getOwnPropertyDescriptor(this, getter); 
        if (propertyDescriptor != null && propertyDescriptor.get != null) { 
            return propertyDescriptor.get.call(this);
        }
        return Object.getOwnPropertyDescriptor(this, getter).value;
    } 
});

Kotlin.callGetter = function (thisObject, klass, propertyName) {
    var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);
    if (propertyDescriptor != null && propertyDescriptor.get != null) {
        return propertyDescriptor.get.call(thisObject);
    }
    return Object.getOwnPropertyDescriptor(this, propertyName).value;
};

Kotlin.callSetter = function (thisObject, klass, propertyName, value) {
    var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);
    if (propertyDescriptor != null && propertyDescriptor.set != null) {
        propertyDescriptor.set.call(thisObject, value);
        return;
    }
    Object.getOwnPropertyDescriptor(this, propertyName).value = value;
};

Kotlin.isType = function (object, klass) {
    if (klass === Object) {
        switch (typeof object) {
            case 'string':
            case 'number':
            case 'boolean':
            case 'function':
                return true;
            default:
                return object instanceof object;
        }
    }
    return false;
};

Kotlin.isInheritanceFromInterface = function (ctor, iface) {
    if (isInheritanceFromInterface(ctor, iface)) { 
        return true;
    } 
    var superPrototype = ctor.prototype; 
    if (superPrototype !== null) { 
        return superPrototype.isInheritanceFromInterface(ctor, iface); 
    } else { 
        return false;
    }
};

Kotlin.prototype.isInheritanceFromInterface = function (ctor, iface) {
    if (isInheritanceFromInterface(ctor, iface)) { 
        return true;
    } 
};
```

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. 
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

Kotlin.Kind = {
    CLASS: 'class',
    INTERFACE: 'interface',
    OBJECT: 'object'
};

Kotlin.prototype.isInheritanceFromInterface = function (ctor, iface) {
    if (isInheritanceFromInterface(ctor, iface)) { 
        return true;
    } 
    var superPrototype = ctor.prototype; 
    if (superPrototype !== null) { 
        return superPrototype.isInheritanceFromInterface(ctor, iface); 
    } else { 
        return false;
    }
};
```
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*/

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("ArraysKt")

package

tk.collections

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import kotlin.random.*
import
tk.ranges.contains
import
tk.ranges.reversed

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> Array<out T>.component1(): T {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun ByteArray.component1(): Byte {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun ShortArray.component1(): Short {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun IntArray.component1(): Int {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun LongArray.component1(): Long {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun FloatArray.component1(): Float {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.component1(): Double {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.component1(): Boolean {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun CharArray.component1(): Char {
    return get(0)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> Array<out T>.component2(): T {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun ByteArray.component2(): Byte {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun ShortArray.component2(): Short {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun IntArray.component2(): Int {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun LongArray.component2(): Long {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun FloatArray.component2(): Float {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.component2(): Double {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.component2(): Boolean {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun CharArray.component2(): Char {
    return get(1)
}
*\@kotlin.internal.InlineOnly

@kotlin.internal.InlineOnly

public inline operator fun FloatArray.component2(): Float {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun DoubleArray.component2(): Double {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun BooleanArray.component2(): Boolean {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun CharArray.component2(): Char {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun <T> Array<out T>.component3(): T {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun ByteArray.component3(): Byte {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun ShortArray.component3(): Short {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun IntArray.component3(): Int {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun LongArray.component3(): Long {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun FloatArray.component3(): Float {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun DoubleArray.component3(): Double {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun BooleanArray.component3(): Boolean {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun CharArray.component3(): Char {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun <T> Array<out T>.component4(): T {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun ByteArray.component4(): Byte {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun ShortArray.component4(): Short {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun IntArray.component4(): Int {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun LongArray.component4(): Long {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun FloatArray.component4(): Float {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun DoubleArray.component4(): Double {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun BooleanArray.component4(): Boolean {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */

@kotlin.internal.InlineOnly

public inline operator fun CharArray.component4(): Char {
    return get(3)
}
/*
@kotlin.internal.InlineOnly
public inline operator fun IntArray.component4(): Int {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun LongArray.component4(): Long {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun FloatArray.component4(): Float {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.component4(): Double {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.component4(): Boolean {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun CharArray.component4(): Char {
    return get(3)
}

/**
 * Returns 5th *element* from the array.
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun IntArray.component5(): Int {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun LongArray.component5(): Long {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun FloatArray.component5(): Float {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.component5(): Double {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.component5(): Boolean {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun CharArray.component5(): Char {
    return get(4)
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun ByteArray.contains(element: Byte): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun ShortArray.contains(element: Short): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun IntArray.contains(element: Int): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun LongArray.contains(element: Long): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun FloatArray.contains(element: Float): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun DoubleArray.contains(element: Double): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun BooleanArray.contains(element: Boolean): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun CharArray.contains(element: Char): Boolean {
    return indexOf(element) >= 0
}
indexOf(element) >= 0

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun IntArray.contains(element: Int): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun LongArray.contains(element: Long): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun FloatArray.contains(element: Float): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun DoubleArray.contains(element: Double): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun BooleanArray.contains(element: Boolean): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun CharArray.contains(element: Char): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public expect fun <T> Array<out T>.elementAt(index: Int): T

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public expect fun ByteArray.elementAt(index: Int): Byte

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public expect fun ShortArray.elementAt(index: Int): Short

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public expect fun IntArray.elementAt(index: Int): Int

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public expect fun LongArray.elementAt(index: Int): Long

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public expect fun FloatArray.elementAt(index: Int): Float

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public expect fun DoubleArray.elementAt(index: Int): Double

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public expect fun BooleanArray.elementAt(index: Int): Boolean

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public expect fun CharArray.elementAt(index: Int): Char

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
calling the [defaultValue] function if the [index] is out of bounds of this array.

@sample samples.collections.Collections.Elements.elementAtOrElse

ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

BigDecimalArray.elementAtOrElse(index: Int, defaultValue: (Int) -> BigDecimal): BigDecimal {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

BigDecimalArray.elementAtOrElse(index: Int, defaultValue: (Int) -> BigDecimal): BigDecimal {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

BigDecimalArray.elementAtOrElse(index: Int, defaultValue: (Int) -> BigDecimal): BigDecimal {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

BigDecimalArray.elementAtOrElse(index: Int, defaultValue: (Int) -> BigDecimal): BigDecimal {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}

ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index) return null
}
Boolean): Long {\n  for (element in this) if (predicate(element)) return element
  throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public inline fun <T> Array<out T>.firstOrNull(): T? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public inline fun ByteArray.firstOrNull(): Byte? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public inline fun ShortArray.firstOrNull(): Short? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public inline fun IntArray.firstOrNull(): Int? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public inline fun LongArray.firstOrNull(): Long? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public inline fun FloatArray.firstOrNull(): Float? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public inline fun DoubleArray.firstOrNull(): Double? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public inline fun BooleanArray.firstOrNull(): Boolean? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public inline fun CharArray.firstOrNull(): Char? {
    return if (isEmpty()) null else this[0]
}
(predicate(this[index])) {\n    return index; }\n} \n} \n} return -1; }\n\n* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n
public inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index; \n        }\n    }\n    return -1; \n}\n\n* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n
public inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index; \n        }\n    }\n    return -1; \n}\n\n* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n
public inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index; \n        }\n    }\n    return -1; \n}\n\n* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n
public inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index; \n        }\n    }\n    return -1; \n}\n\n* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n
public inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index; \n        }\n    }\n    return -1; \n}\n\n* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n
public inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index; \n        }\n    }\n    return -1; \n}\n\n* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*
Returns the last element.

@throws [NoSuchElementException] if the array is empty.

*public fun ByteArray.last(): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

*public fun ShortArray.last(): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

*public fun IntArray.last(): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

*public fun LongArray.last(): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

*public fun FloatArray.last(): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

*public fun DoubleArray.last(): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

*public fun BooleanArray.last(): Boolean {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

*public fun CharArray.last(): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

*public fun Array<out T>.last(predicate: (T) -> Boolean): T {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

*public fun ByteArray.last(predicate: (Byte) -> Boolean): Byte {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

*public fun ShortArray.last(predicate: (Short) -> Boolean): Short {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

*public fun IntArray.last(predicate: (Int) -> Boolean): Int {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

*public fun LongArray.last(predicate: (Long) -> Boolean): Long {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

*public fun FloatArray.last(predicate: (Float) -> Boolean): Float {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

*public fun DoubleArray.last(predicate: (Double) -> Boolean): Double {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

*public fun BooleanArray.last(predicate: (Boolean) -> Boolean): Boolean {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
```kotlin
/**
 * Returns the last element, or `null` if the array is empty.
 */
public fun DoubleArray.lastOrNull(): Double? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array does not contain element.
 */
public fun FloatArray.lastOrNull(): Float? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array does not contain element.
 */
public fun LongArray.lastOrNull(): Long? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array does not contain element.
 */
public fun IntArray.lastOrNull(): Int? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array does not contain element.
 */
public fun ShortArray.lastOrNull(): Short? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array does not contain element.
 */
public fun ByteArray.lastOrNull(): Byte? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array does not contain element.
 */
public fun CharArray.lastIndexOf(element: Char): Int {
    return if (isEmpty()) -1
            else {
                for (index in indices.reversed()) {
                    if (element == this[index]) {
                        return index
                    }
                }
            }
        }
    } else {
        for (index in indices.reversed()) {
            if (element == this[index]) {
                return index
            }
        }
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
*<@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {
    if (element == null) {
        return -1
    } else {
        for (index in indices.reversed()) {
            if (element == this[index]) {
                return index
            }
        }
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
*<@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOfLast { it == element }(): Int {
    return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon.
 * Use 'indexOfLast { it == element }' instead to continue using this behavior,
 * or '.asList().lastIndexOf(element: T)' to get the same search behavior as in a list.
")
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {
    if (element == null) {
        return -1
    } else {
        for (index in indices.reversed()) {
            if (this[index] == null) {
                return index
            }
        }
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun BooleanArray.lastIndexOf(element: Boolean): Int {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
*<@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOfLast { it == element }(): Int {
    return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun CharArray.lastIndexOf(element: Char): Int {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (element == null) {
            return index
        } else {
            for (index in indices.reversed()) {
                if (element == this[index]) {
                    return index
                }
            }
        }
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun BooleanArray.lastIndexOf(element: Boolean): Int {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (element == null) {
            return index
        } else {
            for (index in indices.reversed()) {
                if (element == this[index]) {
                    return index
                }
            }
        }
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun BooleanArray.lastIndexOf(element: Boolean): Int {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (element == null) {
            return index
        } else {
            for (index in indices.reversed()) {
                if (element == this[index]) {
                    return index
                }
            }
        }
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun BooleanArray.lastIndexOf(element: Boolean): Int {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (element == null) {
            return index
        } else {
            for (index in indices.reversed()) {
                if (element == this[index]) {
                    return index
                }
            }
        }
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun BooleanArray.lastIndexOf(element: Boolean): Int {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (element == null) {
            return index
        } else {
            for (index in indices.reversed()) {
                if (element == this[index]) {
                    return index
                }
            }
        }
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
```
Returns the last element, or `null` if the array is empty.

```kotlin
/*
 * @public fun BooleanArray.lastOrNull(): Boolean? {
  return if (isEmpty()) null else this[size - 1]
}

/*
 * @public fun CharArray.lastOrNull(): Char? {
  return if (isEmpty()) null else this[size - 1]
}

/*
 * @public fun <T> Array<T>.lastOrNull(predicate: (T) -> Boolean): T? {
  for (index in this.indices.reversed()) {
    val element = this[index]
    if (predicate(element)) return element
  }
  return null
}

/*
 * @public fun ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {
  for (index in this.indices.reversed()) {
    val element = this[index]
    if (predicate(element)) return element
  }
  return null
}

/*
 * @public fun ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {
  for (index in this.indices.reversed()) {
    val element = this[index]
    if (predicate(element)) return element
  }
  return null
}

/*
 * @public fun IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {
  for (index in this.indices.reversed()) {
    val element = this[index]
    if (predicate(element)) return element
  }
  return null
}

/*
 * @public fun LongArray.lastOrNull(predicate: (Long) -> Boolean): Long? {
  for (index in this.indices.reversed()) {
    val element = this[index]
    if (predicate(element)) return element
  }
  return null
}

/*
 * @public fun FloatArray.lastOrNull(predicate: (Float) -> Boolean): Float? {
  for (index in this.indices.reversed()) {
    val element = this[index]
    if (predicate(element)) return element
  }
  return null
}

/*
 * @public fun DoubleArray.lastOrNull(predicate: (Double) -> Boolean): Double? {
  for (index in this.indices.reversed()) {
    val element = this[index]
    if (predicate(element)) return element
  }
  return null
}

/*
 * @public fun BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {
  for (index in this.indices.reversed()) {
    val element = this[index]
    if (predicate(element)) return element
  }
  return null
}

/*
 * @public fun CharArray.lastOrNull(predicate: (Char) -> Boolean): Char? {
  for (index in this.indices.reversed()) {
    val element = this[index]
    if (predicate(element)) return element
  }
  return null
}

/*
 * @public fun IntArray.random(): Int? {
  return random(Random)
}

/*
 * @public fun ByteArray.random(): Byte {
  return random(Random)
}

/*
 * @public fun ShortArray.random(): Short {
  return random(Random)
}

/*
 * @public fun IntArray.random(): Int {
  return random(Random)
}

/*
 * @public fun LongArray.random(): Long {
  return random(Random)
}

/*
 * @public fun FloatArray.random(): Float {
  return random(Random)
}

/*
 * @public fun DoubleArray.random(): Double {
  return random(Random)
}
*/
```
NoSuchElementException if this array is empty.

public inline fun BooleanArray.random(): Boolean {
    return randomRandom()
}

public inline fun CharArray.random(): Char {
    return randomRandom()
}

fun <T> Array<out T>.random(random: Random): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun ByteArray.random(random: Random): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun ShortArray.random(random: Random): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun IntArray.random(random: Random): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun LongArray.random(random: Random): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun FloatArray.random(random: Random): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun DoubleArray.random(random: Random): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun ShortArray.randomOrNull(): Short? {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun ByteArray.randomOrNull(): Byte? {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun ShortArray.randomOrNull(): Short? {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun IntArray.randomOrNull(): Int? {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun LongArray.randomOrNull(): Long? {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun FloatArray.randomOrNull(): Float? {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

fun DoubleArray.randomOrNull(): Double? {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}
element from this array, or `null` if this array is empty.

```kotlin
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
open inline fun LongArray.randomOrNull(): Long? {
    return randomOrNull(Random)
} /* Returns a random element from this array, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
open inline fun FloatArray.randomOrNull(): Float? {
    return randomOrNull(Random)
} /* Returns a random element from this array, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
open inline fun DoubleArray.randomOrNull(): Double? {
    return randomOrNull(Random)
} /* Returns a random element from this array, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
open inline fun BooleanArray.randomOrNull(): Boolean? {
    return randomOrNull(Random)
} /* Returns a random element from this array, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
open inline fun CharArray.randomOrNull(): Char? {
    return randomOrNull(Random)
} /* Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun <T> Array<out T>.randomOrNull(random: Random): T? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
} /* Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun ByteArray.randomOrNull(random: Random): Byte? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
} /* Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun ShortArray.randomOrNull(random: Random): Short? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
} /* Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun IntArray.randomOrNull(random: Random): Int? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
} /* Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun LongArray.randomOrNull(random: Random): Long? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
} /* Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun FloatArray.randomOrNull(random: Random): Float? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
} /* Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun DoubleArray.randomOrNull(random: Random): Double? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
} /* Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun BooleanArray.randomOrNull(random: Random): Boolean? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
} /* Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
```
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun CharArray.randomOrNull(random: Random): Char? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun <T> Array<out T>.single(): T {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun ByteArray.single(): Byte {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun ShortArray.single(): Short {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun IntArray.single(): Int {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun LongArray.single(): Long {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun FloatArray.single(): Float {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun DoubleArray.single(): Double {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun BooleanArray.single(): Boolean {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun CharArray.single(): Char {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no matching element.")
    @Suppress("UNCHECKED_CAST")
    return single as T
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {
    var single: Byte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no matching element.")
    @Suppress("UNCHECKED_CAST")
    return single as Byte
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {
    var single: Short? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no matching element.")
    @Suppress("UNCHECKED_CAST")
    return single as Short
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun IntArray.single(predicate: (Int) -> Boolean): Int {
    var single: Int? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no matching element.")
    @Suppress("UNCHECKED_CAST")
    return single as Int
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun LongArray.single(predicate: (Long) -> Boolean): Long {
    var single: Long? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no matching element.")
    @Suppress("UNCHECKED_CAST")
    return single as Long
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {
    var single: Float? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no matching element.")
    @Suppress("UNCHECKED_CAST")
    return single as Float
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {
    var single: Double? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no matching element.")
    @Suppress("UNCHECKED_CAST")
    return single as Double
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {
    var single: Boolean? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no matching element.")
    @Suppress("UNCHECKED_CAST")
    return single as Boolean
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun CharArray.single(predicate: (Char) -> Boolean): Char {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no matching element.")
    @Suppress("UNCHECKED_CAST")
    return single as Char
}
found = true

if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")

@Suppress("UNCHECKED_CAST")
return single as Short

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.

public inline fun IntArray.single(predicate: (Int) -> Boolean): Int {

var single: Int? = null
var found = false
for (element in this) {
    if (predicate(element)) {
        if (found) throw IllegalArgumentException("Array contains more than one matching element.")
        single = element
        found = true
    }
}

if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")

@Suppress("UNCHECKED_CAST")
return single as Int

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.

public inline fun LongArray.single(predicate: (Long) -> Boolean): Long {

var single: Long? = null
var found = false
for (element in this) {
    if (predicate(element)) {
        if (found) throw IllegalArgumentException("Array contains more than one matching element.")
        single = element
        found = true
    }
}

if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")

@Suppress("UNCHECKED_CAST")
return single as Long

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.

public inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {

var single: Float? = null
var found = false
for (element in this) {
    if (predicate(element)) {
        if (found) throw IllegalArgumentException("Array contains more than one matching element.")
        single = element
        found = true
    }
}

if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")

@Suppress("UNCHECKED_CAST")
return single as Float

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.

public inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {

var single: Double? = null
var found = false
for (element in this) {
    if (predicate(element)) {
        if (found) throw IllegalArgumentException("Array contains more than one matching element.")
        single = element
        found = true
    }
}

if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")

@Suppress("UNCHECKED_CAST")
return single as Double

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.

public inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {

var single: Boolean? = null
var found = false
for (element in this) {
    if (predicate(element)) {
        if (found) throw IllegalArgumentException("Array contains more than one matching element.")
        single = element
        found = true
    }
}

if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")

@Suppress("UNCHECKED_CAST")
return single as Boolean

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.

public inline fun CharArray.single(predicate: (Char) -> Boolean): Char {

var single: Char? = null
var found = false
for (element in this) {
    if (predicate(element)) {
        if (found) throw IllegalArgumentException("Array contains more than one matching element.")
        single = element
        found = true
    }
}

if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")

@Suppress("UNCHECKED_CAST")
return single as Char

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.

public fun <T> Array<out T>.singleOrNull(): T? {

    return if (size == 1) this[0] else null

* Returns single element, or `null` if the array is empty or has more than one element.

public fun <T> Array<out T>.singleOrNull(): T? {
    return if (size == 1) this[0] else null

* Returns single element, or `null` if the array is empty or has more than one element.

public fun <T> Array<out T>.singleOrNull(): T? {
    return if (size == 1) this[0] else null

* Returns single element, or `null` if the array is empty or has more than one element.

public fun <T> Array<out T>.singleOrNull(): T? {
    return if (size == 1) this[0] else null

* Returns single element, or `null` if the array is empty or has more than one element.
IllegalArgumentException if \( n \) is negative.\n
```kotlin

samples.collections.Collections.Transformations.drop
*/
public fun ByteArray.drop(n: Int): List<Byte> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return takeLast((size - n).coerceAtLeast(0)).\n}\n*/
public fun ShortArray.drop(n: Int): List<Short> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return takeLast((size - n).coerceAtLeast(0)).\n}\n*/
public fun IntArray.drop(n: Int): List<Int> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return takeLast((size - n).coerceAtLeast(0)).\n}\n*/
public fun LongArray.drop(n: Int): List<Long> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return takeLast((size - n).coerceAtLeast(0)).\n}\n*/
public fun FloatArray.drop(n: Int): List<Float> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return takeLast((size - n).coerceAtLeast(0)).\n}\n*/
public fun DoubleArray.drop(n: Int): List<Double> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return takeLast((size - n).coerceAtLeast(0)).\n}\n*/
public fun BooleanArray.drop(n: Int): List<Boolean> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return takeLast((size - n).coerceAtLeast(0)).\n}\n*/
public fun CharArray.drop(n: Int): List<Char> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return takeLast((size - n).coerceAtLeast(0)).\n}\n*/
public fun <T> Array<out T>.dropLast(n: Int): List<T> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun ByteArray.dropLast(n: Int): List<Byte> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun ShortArray.dropLast(n: Int): List<Short> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun IntArray.dropLast(n: Int): List<Int> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun LongArray.dropLast(n: Int): List<Long> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun FloatArray.dropLast(n: Int): List<Float> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun DoubleArray.dropLast(n: Int): List<Double> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun BooleanArray.dropLast(n: Int): List<Boolean> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun CharArray.dropLast(n: Int): List<Char> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun <T> Array<out T>.dropLast(n: Int): List<T> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun ByteArray.dropLast(n: Int): List<Byte> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun ShortArray.dropLast(n: Int): List<Short> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun IntArray.dropLast(n: Int): List<Int> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun LongArray.dropLast(n: Int): List<Long> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun FloatArray.dropLast(n: Int): List<Float> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun DoubleArray.dropLast(n: Int): List<Double> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun BooleanArray.dropLast(n: Int): List<Boolean> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun CharArray.dropLast(n: Int): List<Char> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
public fun <T> Array<out T>.dropLast(n: Int): List<T> {\n    require(n >= 0) \{ \"Requested element count $n is less than zero.\" \}\n    return take((size - n).coerceAtLeast(0)).\n}\n*/
```
IllegalArgumentException if \([n]\) is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n*/
public fun LongArray.dropLast(n: Int): List<Long> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n\n\n* Returns a list containing all elements except last \([n]\) elements.\n * @throws
samples.collections.Collections.Transformations.drop\n*/
public fun FloatArray.dropLast(n: Int): List<Float> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n\n* Returns a list containing all elements except last \([n]\) elements.\n * @throws
samples.collections.Collections.Transformations.drop\n*/
public fun DoubleArray.dropLast(n: Int): List<Double> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n\n* Returns a list containing all elements except last \([n]\) elements.\n * @throws
samples.collections.Collections.Transformations.drop\n*/
public fun BooleanArray.dropLast(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n\n* Returns a list containing all elements except last \([n]\) elements.\n * @throws
samples.collections.Collections.Transformations.drop\n*/
public fun CharArray.dropLast(n: Int): List<Char> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n\n* Returns a list containing all elements except last \([n]\) elements that satisfy the given \[predicate\].\n * @sample
samples.collections.Collections.Transformations.drop\n*/
public fun ByteArray.dropLastWhile(predicate: (Byte) -> Boolean): List<Byte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

* Returns a list containing all elements except last elements that satisfy the given \[predicate\].\n * @sample
samples.collections.Collections.Transformations.drop\n*/
public fun ShortArray.dropLastWhile(predicate: (Short) -> Boolean): List<Short> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

* Returns a list containing all elements except last elements that satisfy the given \[predicate\].\n * @sample
samples.collections.Collections.Transformations.drop\n*/
public fun IntArray.dropLastWhile(predicate: (Int) -> Boolean): List<Int> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

* Returns a list containing all elements except last elements that satisfy the given \[predicate\].\n * @sample
samples.collections.Collections.Transformations.drop\n*/
public fun LongArray.dropLastWhile(predicate: (Long) -> Boolean): List<Long> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

* Returns a list containing all elements except last elements that satisfy the given \[predicate\].\n * @sample
samples.collections.Collections.Transformations.drop\n*/
public fun FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

* Returns a list containing all elements except last elements that satisfy the given \[predicate\].\n * @sample
samples.collections.Collections.Transformations.drop\n*/
public fun DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
```
samples.collections.Collections.Transformations.drop\n
BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<
    for (index in lastIndex
        return list.add(item)
    }
}

/**
 * Returns a list containing all elements except first elements that satisfy the given
 * 
 * @sample samples.collections.Collections.Transforms.drop
 */
public inline fun <T> Array<

IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {
    var yielding = false
    val list = ArrayList<Int>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {
    var yielding = false
    val list = ArrayList<Long>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {
    for (index in lastIndex
        return list.add(item)
    }
}

```
filter(predicate: (T) -> Boolean): List<T> {\n    return filterTo(ArrayList<T>(), predicate)\n} \n
filter(predicate: (Byte) -> Boolean): List<Byte> {\n    return filterTo(ArrayList<Byte>(), predicate)\n} \n
filter(predicate: (Short) -> Boolean): List<Short> {\n    return filterTo(ArrayList<Short>(), predicate)\n} \n
filter(predicate: (Int) -> Boolean): List<Int> {\n    return filterTo(ArrayList<Int>(), predicate)\n} \n
filter(predicate: (Long) -> Boolean): List<Long> {\n    return filterTo(ArrayList<Long>(), predicate)\n} \n
filter(predicate: (Float) -> Boolean): List<Float> {\n    return filterTo(ArrayList<Float>(), predicate)\n} \n
filter(predicate: (Double) -> Boolean): List<Double> {\n    return filterTo(ArrayList<Double>(), predicate)\n} \n
filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n    return filterTo(ArrayList<Boolean>(), predicate)\n} \n
filter(predicate: (Char) -> Boolean): List<Char> {\n    return filterTo(ArrayList<Char>(), predicate)\n} \n
filterIndexed(predicate: (Int, T) -> Boolean): List<T> {\n    return filterIndexedTo(ArrayList<T>(), predicate)\n} \n
filterIndexed(predicate: (Int, Byte) -> Boolean): List<Byte> {\n    return filterIndexedTo(ArrayList<Byte>(), predicate)\n} \n
filterIndexed(predicate: (Int, Short) -> Boolean): List<Short> {\n    return filterIndexedTo(ArrayList<Short>(), predicate)\n} \n
filterIndexed(predicate: (Int, Int) -> Boolean): List<Int> {\n    return filterIndexedTo(ArrayList<Int>(), predicate)\n} \n
filterIndexed(predicate: (Int, Long) -> Boolean): List<Long> {\n    return filterIndexedTo(ArrayList<Long>(), predicate)\n} \n
filterIndexed(predicate: (Int, Float) -> Boolean): List<Float> {\n    return filterIndexedTo(ArrayList<Float>(), predicate)\n} \n
filterIndexed(predicate: (Int, Double) -> Boolean): List<Double> {\n    return filterIndexedTo(ArrayList<Double>(), predicate)\n} \n
filterIndexed(predicate: (Int, Boolean) -> Boolean): List<Boolean> {\n    return filterIndexedTo(ArrayList<Boolean>(), predicate)\n} \n
filterIndexed(predicate: (Int, Char) -> Boolean): List<Char> {\n    return filterIndexedTo(ArrayList<Char>(), predicate)\n}
FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {
    return filterIndexedTo(ArrayList<Float>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @param samples.collections.Collections.Filtering.filterIndexed
 */
public inline fun DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {
    return filterIndexedTo(ArrayList<Double>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @param samples.collections.Collections.Filtering.filterIndexed
 */
public inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {
    return filterIndexedTo(ArrayList<Boolean>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @param samples.collections.Collections.Filtering.filterIndexed
 */
public inline fun CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {
    return filterIndexedTo(ArrayList<Char>(), predicate)
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @param samples.collections.Collections.Filtering.filterIndexedTo
 */
public inline fun <T, C : MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @param samples.collections.Collections.Filtering.filterIndexedTo
 */
public inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @param samples.collections.Collections.Filtering.filterIndexedTo
 */
public inline fun <C : MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @param samples.collections.Collections.Filtering.filterIndexedTo
 */
public inline fun <C : MutableCollection<in Int>> IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @param samples.collections.Collections.Filtering.filterIndexedTo
 */
public inline fun <C : MutableCollection<in Long>> LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
[predicate] to the given [destination].
* @param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.
* @sample samples.collections.Collections.Filtering.filterIndexedTo

```kotlin
public inline fun <C : MutableCollection<in Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (Int, Double) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
```

```kotlin
/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexedTo
 */
public inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (Int, Boolean) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
```

```kotlin
/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexedTo
 */
public inline fun <C : MutableCollection<in Char>> CharArray.filterIndexedTo(destination: C, predicate: (Int, Char) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
```

```kotlin
/**
 * Returns a list containing all elements that are instances of specified type parameter R.
 * @sample samples.collections.Collections.Filtering.filterIsInstance
 */
public inline fun <reified R> Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {
    return filterIsInstanceTo(ArrayList<R>())
}
```

```kotlin
/**
 * Appends all elements that are instances of specified type parameter R to the given [destination].
 * @sample samples.collections.Collections.Filtering.filterIsInstanceTo
 */
public inline fun <reified R, C : MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {
    for (element in this) if (element is R) destination.add(element)
    return destination
}
```

```kotlin
/**
 * Returns a list containing all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun <T> Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {
    return filterNotTo(ArrayList<T>(), predicate)
}
```

```kotlin
/**
 * Returns a list containing all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun ByteArray.filterNot(predicate: (Byte) -> Boolean): List<Byte> {
    return filterNotTo(ArrayList<Byte>(), predicate)
}
```

```kotlin
/**
 * Returns a list containing all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {
    return filterNotTo(ArrayList<Short>(), predicate)
}
```

```kotlin
/**
 * Returns a list containing all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {
    return filterNotTo(ArrayList<Int>(), predicate)
}
```

```kotlin
/**
 * Returns a list containing all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun LongArray.filterNot(predicate: (Long) -> Boolean): List<Long> {
    return filterNotTo(ArrayList<Long>(), predicate)
}
```

```kotlin
/**
 * Returns a list containing all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun FloatArray.filterNot(predicate: (Float) -> Boolean): List<Float> {
    return filterNotTo(ArrayList<Float>(), predicate)
}
```

```kotlin
/**
 * Returns a list containing all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun DoubleArray.filterNot(predicate: (Double) -> Boolean): List<Double> {
    return filterNotTo(ArrayList<Double>(), predicate)
}
```

```kotlin
/**
 * Returns a list containing all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun BooleanArray.filterNot(predicate: (Boolean) -> Boolean): List<Boolean> {
    return filterNotTo(ArrayList<Boolean>(), predicate)
}
```

```kotlin
/**
 * Returns a list containing all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun CharArray.filterNot(predicate: (Char) -> Boolean): List<Char> {
    return filterNotTo(ArrayList<Char>(), predicate)
}
```
Boolean): List<Char> {
    return filterNotTo(ArrayList<Char>(), predicate)
}

/**
 * Returns a list containing all elements that are not `null`.
 * 
 * @sample samples.collections.Collections.Filtering.filterNotNull
 */
public fun <T : Any> Array<T?>.filterNotNull(): List<T> {
    return filterNotNullTo(ArrayList<T>())
}

/**
 * Appends all elements that are not `null` to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterNotNullTo
 */
public inline fun <C : MutableCollection<in T>, T : Any>
    Array<T?>.filterNotNullTo(destination: C): C {
    return filterNotNullTo(destination, { element -> element != null })
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterNotTo
 */
public inline fun <C : MutableCollection<in T>, T : Any>
    Array<T?>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {
    return filterNotTo(destination, { element -> !predicate(element) })
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterNotTo
 */
public inline fun <C : MutableCollection<in Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {
    return filterNotTo(destination, { element -> !predicate(element) })
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterNotTo
 */
public inline fun <C : MutableCollection<in Short>> ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {
    return filterNotTo(destination, { element -> !predicate(element) })
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterNotTo
 */
public inline fun <C : MutableCollection<in Int>> IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {
    return filterNotTo(destination, { element -> !predicate(element) })
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterNotTo
 */
public inline fun <C : MutableCollection<in Long>> LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {
    return filterNotTo(destination, { element -> !predicate(element) })
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterNotTo
 */
public inline fun <C : MutableCollection<in Float>> FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {
    return filterNotTo(destination, { element -> !predicate(element) })
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterNotTo
 */
public inline fun <C : MutableCollection<in Double>> DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {
    return filterNotTo(destination, { element -> !predicate(element) })
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterNotTo
 */
public inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {
    return filterNotTo(destination, { element -> !predicate(element) })
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterNotTo
 */
public inline fun <C : MutableCollection<in Char>> CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {
    return filterNotTo(destination, { element -> !predicate(element) })
}
(predicate(element)) destination.add(element) // Append all elements matching
the given [predicate] to the given [destination].

return destination

* Append all elements matching the given [predicate] to the given [destination].

@sample samples.collections.Collections.Filtering.filterTo
*公开 inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
public inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
public inline fun <C : MutableCollection<in Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
public inline fun <C : MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
public inline fun <C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
public inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
public inline fun <C : MutableCollection<in Char>> CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun <T> Array<out T>.slice(indices: IntRange): List<T> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun ByteArray.slice(indices: IntRange): List<Byte> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun ShortArray.slice(indices: IntRange): List<Short> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun IntArray.slice(indices: IntRange): List<Int> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun LongArray.slice(indices: IntRange): List<Long> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun FloatArray.slice(indices: IntRange): List<Float> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun DoubleArray.slice(indices: IntRange): List<Double> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun BooleanArray.slice(indices: IntRange): List<Boolean> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun CharArray.slice(indices: IntRange): List<Char> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}
public fun IntArray.take(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<Int>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns a list containing first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
 */
public fun ShortArray.take(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<Short>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns a list containing first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
 */
public fun ByteArray.take(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<Byte>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns a list containing first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
 */
public fun <T> Array<out T>.take(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<T>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

return result
}
a list containing first [n] elements.

@throws IllegalArgumentException if [n] is negative.

@sample

```kotlin
for (index in size - n until size)
    list.add(this[index])
return list
```

```kotlin
/**
 * Returns a list containing first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
 */
public fun ArrayList<T>(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList<T>()
    if (n >= size) return toList<T>()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<T>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
```

```kotlin
public fun <T> Array<out T>.takeLast(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList<T>()
    if (n >= size) return toList<T>()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<T>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
```
inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {
    for (index in lastIndex upTo size) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ByteArray.takeLastWhile(predicate: (Byte) -> Boolean): List<Byte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun <T> Array<out T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun CharArray.takeLast(n: Int): List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<Char>(n)
    for (index in size - n downTo size) {
        list.add(this[index])
    }
    return list
}

/**
 * Returns a list containing last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun BooleanArray.takeLast(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<Boolean>(n)
    for (index in size - n downTo size) {
        list.add(this[index])
    }
    return list
}

/**
 * Returns a list containing last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun DoubleArray.takeLast(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<Double>(n)
    for (index in size - n downTo size) {
        list.add(this[index])
    }
    return list
}

/**
 * Returns a list containing last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun FloatArray.takeLast(n: Int): List<Float> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<Float>(n)
    for (index in size - n downTo size) {
        list.add(this[index])
    }
    return list
}

/**
 * Returns a list containing last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun LongArray.takeLast(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<Long>(n)
    for (index in size - n downTo size) {
        list.add(this[index])
    }
    return list
}

/**
 * Returns a list containing last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun IntArray.takeLast(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<Int>(n)
    for (index in size - n downTo size) {
        list.add(this[index])
    }
    return list
}

/**
 * Returns a list containing last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun ShortArray.takeLast(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<Short>(n)
    for (index in size - n downTo size) {
        list.add(this[index])
    }
    return list
}

/**
 * Returns a list containing last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun ByteArray.takeLast(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<Byte>(n)
    for (index in size - n downTo size) {
        list.add(this[index])
    }
    return list
}

/**
 * Returns a list containing last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun <T> Array<out T>.takeLast(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<T>(n)
    for (index in size - n downTo size) {
        list.add(this[index])
    }
    return list
}

/**
 * Returns a list containing last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun CharArray.takeLast(n: Int): List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<Char>(n)
    for (index in size - n downTo size) {
        list.add(this[index])
    }
    return list
}
/**
 * Reverses elements in the array in-place.
 */
public fun ShortArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun ByteArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun <T> Array<T>.reverse(): Unit {
    val list = ArrayList<T>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ByteArray.takeWhile(predicate: (Byte) -> Boolean): List<Byte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun CharArray.takeLastWhile(predicate: (Char) -> Boolean): List<Char> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given 
 * predicate.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ByteArray.takeLastWhile(predicate: (Byte) -> Boolean): List<Byte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
IllegalArgumentException if `fromIndex` is greater than `toIndex`.
 */
@SinceKotlin("1.4")
public fun

* @param toIndex the end of the range (exclusive) to reverse.
 */
public fun IndexOutOfBoundsException if
`fromIndex` is less than zero or `toIndex` is greater than the size of this array.
* @throws
IllegalArgumentException if `fromIndex` is greater than `toIndex`. `fromIndex` is less than zero or `toIndex` is greater than the size of this array.
IntArray.reverse(fromIndex: Int, toIndex: Int): Unit {  
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {  
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
    }
}

/**
 * Reverses elements of the array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgument Exception if [fromIndex] is greater than [toIndex].
 */
public fun LongArray.reverse(fromIndex: Int, toIndex: Int): Unit {  
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {  
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements of the array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun FloatArray.reverse(fromIndex: Int, toIndex: Int): Unit {  
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {  
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements of the array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun DoubleArray.reverse(fromIndex: Int, toIndex: Int): Unit {  
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {  
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements of the array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {  
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {  
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Returns a list with elements in reversed order.
 */
public fun <T> Array<out T>.reversed(): List<T> {  
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
public fun ByteArray.reversed(): List<Byte> {  
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
public fun CharArray.reverse(fromIndex: Int, toIndex: Int): Unit {  
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {  
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Returns a list with elements in reversed order.
 */
public fun ByteArray.reversed(): List<Byte> {  
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
in reversed order.
 */
public fun ShortArray.reversed(): List<Short> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
public fun IntArray.reversed(): List<Int> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
public fun LongArray.reversed(): List<Long> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
public fun FloatArray.reversed(): List<Float> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
public fun DoubleArray.reversed(): List<Double> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
public fun BooleanArray.reversed(): List<Boolean> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
public fun CharArray.reversed(): List<Char> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns an array with elements in reversed order.
 */
public fun ShortArray.reversedArray(): ShortArray {
    if (isEmpty()) return this
    val result = ShortArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/**
 * Returns an array with elements in reversed order.
 */
public fun IntArray.reversedArray(): IntArray {
    if (isEmpty()) return this
    val result = IntArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/**
 * Returns an array with elements in reversed order.
 */
public fun LongArray.reversedArray(): LongArray {
    if (isEmpty()) return this
    val result = LongArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/**
 * Returns an array with elements in reversed order.
 */
public fun FloatArray.reversedArray(): FloatArray {
    if (isEmpty()) return this
    val result = FloatArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/**
 * Returns an array with elements in reversed order.
 */
public fun DoubleArray.reversedArray(): DoubleArray {
    if (isEmpty()) return this
    val result = DoubleArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/**
 * Returns an array with elements in reversed order.
 */
public fun BooleanArray.reversedArray(): BooleanArray {
    if (isEmpty()) return this
    val result = BooleanArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/**
 * Returns an array with elements of this array in reversed order.
 */
public fun ByteArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Returns an array with elements of this array in reversed order.
 */
public fun ShortArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Returns an array with elements of this array in reversed order.
 */
public fun IntArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Returns an array with elements of this array in reversed order.
 */
public fun LongArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Returns an array with elements of this array in reversed order.
 */
public fun FloatArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Returns an array with elements of this array in reversed order.
 */
public fun DoubleArray.shuffle(): Unit {
    shuffle(Random)
}

/*n*/
shuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(Random)\n\nshuffle(R
Sorts elements in the array in-place according to natural sort order of the value returned by specified 
selector function. The sort is _stable_. It means that equal elements preserve their order relative to each 
other after sorting. 

```
public fun LongArray.sortedArray(): LongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

public fun IntArray.sortedArray(): IntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

public fun ShortArray.sortedArray(): ShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

public fun ByteArray.sortedArray(): ByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

public fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {
    return sortedArray().asList()
}

public fun CharArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

public fun DoubleArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

public fun FloatArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

public fun LongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

public fun IntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

public fun ShortArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

public fun ByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}
```

Returns a list of all elements sorted according to their natural sort order. 

```
public fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {
    if (size > 1) sortWith(compareBy(selector))
}
```

Returns a list of all elements sorted according to their natural sort order. 

```
public inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {
    if (size > 1) sortWith(compareBy(selector))
}
```

Returns an array with all elements of this array sorted according to their natural sort order. 

```
public fun <T : Comparable<T>> Array<out T>.sortWith(reverseOrder()): List<T> {
    return toTypedArray().apply { sort() }.asList()
}
```

Returns an array with all elements of this array sorted according to their natural sort order. 

```
public fun <T : Comparable<T>> Array<out T>.sortWith(compareByDescending(selector): 
```

Returns an array with all elements of this array sorted according to their natural sort order. 

```
public fun <T : Comparable<T>> Array<out T>.sortWith(compareBy(selector): 
```

Returns an array with all elements of this array sorted according to their natural sort order. 

```
public fun <T : Comparable<T>> Array<out T>.sortWith(reverseOrder()): List<T> {
    return toTypedArray().apply { sort() }.asList()
}
```

Returns an array with all elements of this array sorted according to their natural sort order. 

```
public fun <T : Comparable<T>> Array<out T>.sortWith(compareByDescending(selector): 
```

Returns an array with all elements of this array sorted according to their natural sort order. 

```
public fun <T : Comparable<T>> Array<out T>.sortWith(compareBy(selector): 
```

Returns an array with all elements of this array sorted according to their natural sort order. 

```
public fun <T : Comparable<T>> Array<out T>.sortWith(reverseOrder()): List<T> {
    return toTypedArray().apply { sort() }.asList()
}
```

Returns an array with all elements of this array sorted according to their natural sort order. 

(isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun FloatArray.sortedArray(): FloatArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun DoubleArray.sortedArray(): DoubleArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun CharArray.sortedArray(): CharArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun <T : Comparable<T>> Array<T>.sortedArrayDescending(): Array<T> {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun ByteArray.sortedArrayDescending(): ByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun ShortArray.sortedArrayDescending(): ShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun IntArray.sortedArrayDescending(): IntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun LongArray.sortedArrayDescending(): LongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun FloatArray.sortedArrayDescending(): FloatArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun DoubleArray.sortedArrayDescending(): DoubleArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun CharArray.sortedArrayDescending(): CharArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <T : Comparable<T>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <R : Comparable<R>> IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {
    return sortedWith(compareBy(selector))
}
of the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {\n    return
    sortedWith(compareBy(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {\n    return
    sortedWith(compareBy(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {\n    return
    sortedWith(compareBy(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n    return
    sortedWith(compareBy(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Character> {\n    return
    sortedWith(compareBy(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {\n    return
    sortedWith(compareBy(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {\n    return
    sortedWith(compareBy(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {\n    return
    sortedWith(compareBy(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.

* \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy
*public inline fun <R : Comparable<R>>
IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n    return
    sortedWith(compareByDescending(selector))\n}\n\n* Returns a list of all elements sorted according to natural sort order of
the value returned by specified [selector] function.
according to their natural sort order. The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

```kotlin
public fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> {
    return sortedWith(reverseOrder())
}

/**
 * Returns a list of all elements sorted according to the specified [comparator].
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {
    return sortedArrayWith(comparator).asList()
}

/**
 * Returns a list of all elements sorted according to the specified [comparator].
 */
public fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified [comparator].
 */
public fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified [comparator].
 */
public fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified [comparator].
 */
public fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified [comparator].
 */
public fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified [comparator].
 */
public fun DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified [comparator].
 */
public fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified [comparator].
 */
public fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}
```

The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
corresponding elements are nested arrays, they are also compared deeply.

* If any of arrays contains itself on any nesting level the behavior is undefined.

* The elements of other types are compared for equality with the [equals][Any.equals] function.

* For floating point numbers it means that 'NaN' is equal to itself and '-0.0' is not equal to '0.0'.

* @sinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean

* Returns 'true' if the two specified arrays are

* deeply* equal to one another, i.e. contain the same number of the same elements in the same order.

* The specified arrays are also considered deeply equal if both are 'null'.

* If two corresponding elements are nested arrays, they are also compared deeply.

* If any of arrays contains itself on any nesting level the behavior is undefined.

* The elements of other types are compared for equality with the [equals][Any.equals] function.

* For floating point numbers it means that 'NaN' is equal to itself and '-0.0' is not equal to '0.0'.

* @sinceKotlin("1.4")
@kotlin.internal.LowPriorityInOverloadResolution
public expect fun <T> Array<out T>.contentDeepHashCode(): Int

* @sinceKotlin("1.4")
public expect fun <T> Array<out T>?.contentDeepHashCode(): Int

* @sinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public expect fun <T> Array<out T>.contentDeepToString(): String

* @sinceKotlin("1.4")
public expect fun <T> Array<out T>?.contentDeepToString(): String

* @deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@sinceKotlin("1.1")
@deprecatedSinceKotlin(hiddenSince = "1.4")
public expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean

* Returns 'true' if the two specified arrays are

* structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

* The elements are compared for equality with the [equals][Any.equals] function.

* For floating point numbers it means that 'NaN' is equal to itself and '-0.0' is not equal to '0.0'.

* @sinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean

* Returns 'true' if the two specified arrays are

* structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

* The elements are compared for equality with the [equals][Any.equals] function.

* For floating point numbers it means that 'NaN' is equal to itself and '-0.0' is not equal to '0.0'.

* @sinceKotlin("1.4")
@kotlin.internal.LowPriorityInOverloadResolution
public expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean

* @sinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean

* @sinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public expect infix fun IntArray.contentEquals(other: IntArray): Boolean

* @sinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public expect infix fun Boolean.contentEquals(other: Boolean): Boolean

* Returns 'true' if the two specified arrays are

* structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

* The elements are compared for equality with the [equals][Any.equals] function.

* For floating point numbers it means that 'NaN' is equal to itself and '-0.0' is not equal to '0.0'.

* @sinceKotlin("1.4")
@kotlin.internal.LowPriorityInOverloadResolution
public expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean

* Returns 'true' if the two specified arrays are

* structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

* The elements are compared for equality with the [equals][Any.equals] function.

* For floating point numbers it means that 'NaN' is equal to itself and '-0.0' is not equal to '0.0'.

* @sinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public expect infix fun Short ByteArray.contentEquals(other: Short ByteArray): Boolean

* Returns 'true' if the two specified arrays are

* structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

* The elements are compared for equality with the [equals][Any.equals] function.

* For floating point numbers it means that 'NaN' is equal to itself and '-0.0' is not equal to '0.0'.

* @sinceKotlin("1.4")
@kotlin.internal.LowPriorityInOverloadResolution
public expect infix fun Int Array.contentEquals(other: Int Array): Boolean

* Returns 'true' if the
two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements
in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For
floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun
LongArray.contentEquals(other: LongArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to
avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic
expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean\n\n/**\n * Returns `true` if the two specified
arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same
order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point
numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin
compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")\npublic expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean\n\n/**\n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun
BooleanArray.contentEquals(other: BooleanArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to
avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic
expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n/**\n * Returns `true` if the two specified
arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same
order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point
numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic
expect infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean\n\n/**\n * Returns `true` if the
two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements
in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For
floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin(\"1.4\")\npublic expect infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean\n\n/**\n
* Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number
of the same elements in the same order.\n * \n * The elements are compared for equality with the
[equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not
equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun ShortArray?.contentEquals(other: ShortArray?):
Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain
the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the
[equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not
equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun IntArray?.contentEquals(other: IntArray?):
Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain
the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the
[equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not
equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun LongArray?.contentEquals(other: LongArray?):
Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain

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the same number of the same elements in the same order. The elements are compared for equality with the 

```kotlin
public expect infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean

/**
 * Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the [equals] function. For floating point numbers it means that NaN is equal to itself and -0.0 is not equal to 0.0. 

```
IntArray?.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is
 * a List.
 */
@SinceKotlin("1.4")
public expect fun IntArray?.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is
 * a List.
 */
@SinceKotlin("1.4")
public expect fun LongArray?.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is
 * a List.
 */
@SinceKotlin("1.4")
public expect fun FloatArray?.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is
 * a List.
 */
@SinceKotlin("1.4")
public expect fun BooleanArray?.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is
 * a List.
 */
@SinceKotlin("1.4")
public expect fun CharArray?.contentHashCode(): Int

/**
 * Returns a string representation of the contents of the specified array
 * as if it is a List.
 */
@SinceKotlin("1.4")
public expect fun ByteArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array
 * as if it is a List.
 */
@SinceKotlin("1.4")
public expect fun ShortArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array
 * as if it is a List.
 */
@SinceKotlin("1.4")
public expect fun IntArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array
 * as if it is a List.
 */
@SinceKotlin("1.4")
public expect fun LongArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array
 * as if it is a List.
 */
@SinceKotlin("1.4")
public expect fun FloatArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array
 * as if it is a List.
 */
@SinceKotlin("1.4")
public expect fun BooleanArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array
 * as if it is a List.
 */
@SinceKotlin("1.4")
public expect fun CharArray.contentToString(): String
ByteArray?.contentToString(): String

*/n*/n*/n* * `Returns a string representation of the contents of the specified array as if it is [List].*/n* */n* * @sample samples.collections.Arrays.ContentOperations.contentToString
/*n*/n*/n* */n*/n* `public expect fun ShortArray?.contentToString(): String

*/n*/n*/n* * `Returns a string representation of the contents of the specified array as if it is [List].*/n* */n* * @sample samples.collections.Arrays.ContentOperations.contentToString
/*n*/n*/n* */n*/n* `public expect fun IntArray?.contentToString(): String

*/n*/n*/n* * `Returns a string representation of the contents of the specified array as if it is [List].*/n* */n* * @sample samples.collections.Arrays.ContentOperations.contentToString
/*n*/n*/n* */n*/n* `public expect fun LongArray?.contentToString(): String

*/n*/n*/n* * `Returns a string representation of the contents of the specified array as if it is [List].*/n* */n* * @sample samples.collections.Arrays.ContentOperations.contentToString
/*n*/n*/n* */n*/n* `public expect fun FloatArray?.contentToString(): String

*/n*/n*/n* * `Returns a string representation of the contents of the specified array as if it is [List].*/n* */n* * @sample samples.collections.Arrays.ContentOperations.contentToString
/*n*/n*/n* */n*/n* `public expect fun DoubleArray?.contentToString(): String

*/n*/n*/n* * `Returns a string representation of the contents of the specified array as if it is [List].*/n* */n* * @sample samples.collections.Arrays.ContentOperations.contentToString
/*n*/n*/n* */n*/n* `public expect fun BooleanArray?.contentToString(): String

*/n*/n*/n* * `Returns a string representation of the contents of the specified array as if it is [List].*/n* */n* * @sample samples.collections.Arrays.ContentOperations.contentToString
/*n*/n*/n* */n*/n* `public expect fun CharArray?.contentToString(): String

*/n*/n*/n* * `Returns a string representation of the contents of the specified array as if it is [List].*/n* */n* * @sample samples.collections.Arrays.ContentOperations.contentToString
/*n*/n*/n* */n*/n* `public expect fun `Copy this array or its subrange into the [destination] array and returns that array.`*/n* */n* */n* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.`*/n* */n* */n* @param destination the array to copy to.`*/n* */n* */n* @param destinationOffset the position in the [destination] array to copy to, 0 by default.`*/n* */n* */n* @param Array OutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex` `*/n* */n* * `Throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range or when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex` `*/n* */n* * `Throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range or when `startIndex > endIndex` `*/n* */n* * `Throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range or when `startIndex > endIndex` `*/n* */n* * `Throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range or when `startIndex > endIndex` `*/n*/n*/n* * `Throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray

* Copies this array or its subrange into the [destination] array and returns that array.

* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

* @param destination the array to copy to.

* @param destinationOffset the position in the [destination] array to copy to, 0 by default.

* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.

* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.

* * @return the [destination] array.

* * @SinceKotlin("1.3")

expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray

* Copies this array or its subrange into the [destination] array and returns that array.

* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

* @param destinationOffset the position in the [destination] array to copy to, 0 by default.

* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.

* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.

* * @return the [destination] array.

* * @SinceKotlin("1.3")

expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray

* Copies this array or its subrange into the [destination] array and returns that array.

* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

* @param destinationOffset the position in the [destination] array to copy to, 0 by default.

* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.

* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.

* * @return the [destination] array.

* * @SinceKotlin("1.3")

expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray

* Copies this array or its subrange into the [destination] array and returns that array.

* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

* @param destinationOffset the position in the [destination] array to copy to, 0 by default.

* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.

* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.

* * @return the [destination] array.

* * @SinceKotlin("1.3")

expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray

* Copies this array or its subrange into the [destination] array and returns that array.

* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

* @param destinationOffset the position in the [destination] array to copy to, 0 by default.

* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.

* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

* * @return the [destination] array.
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],

* when that index is out of the [destination] array indices range.

* @return the [destination] array.

* @SinceKotlin("1.3")
public expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

* @param destination the array to copy to, 0 by default.
* @param destinationOffset the position in the [destination] array to copy to, 0 by default.
*
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.

* @return the [destination] array.

*/
@SinceKotlin("1.3")
public expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray

/**
 * Returns new array which is a copy of the original array.

* @sample samples.collections.Arrays.CopyOfOperations.copyOf
*/
@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect fun <T> Array<T>.copyOf():

Array<T>

* @return new array which is a copy of the original array.

* @sample samples.collections.Arrays.CopyOfOperations.copyOf


* Array<T> copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.

* The copy is either truncated or padded at the end with zero values if necessary.

* If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].

* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

* The copy is either truncated or padded at the end with zero values if necessary.

* - If [newSize] is less than the size of the original array, the copy array is truncated to the

* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

**
If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

- If [newSize] is greater than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

- If [newSize] is less than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

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The copy is either truncated or padded at the end with zero values if necessary.

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The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IndexOutOfBoundsException if [fromIndex] is greater than [toIndex].
 */
public expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
public expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
public expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
public expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
public expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentExcepti on if [fromIndex] is greater than [toIndex].
 */
public expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
public expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit

@kotlin.internal.InlineOnly
public inline fun LongArray.isEmpty(): Boolean {
    return size == 0
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.isEmpty(): Boolean {
    return size == 0
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.isEmpty(): Boolean {
    return size == 0
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.isEmpty(): Boolean {
    return size == 0
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.isEmpty(): Boolean {
    return size == 0
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.isEmpty(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.isEmpty(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.isEmpty(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.isEmpty(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.isEmpty(): Boolean {
    return size == 0
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.isEmpty(): Boolean {
    return size == 0
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.isEmpty(): Boolean {
    return size == 0
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.isEmpty(): Boolean {
    return size == 0
}

/**
 * Returns `true` if the array is empty.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.isEmpty(): Boolean {
    return size == 0
}

/**
 * Returns the last valid index for the array.
 */
public val <T> Array<out T>.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the array.
 */
public val ByteArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the array.
 */
public val ShortArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the array.
 */
public val IntArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the array.
 */
public val LongArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the array.
 */
public val FloatArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the array.
 */
public val DoubleArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the array.
 */
public val BooleanArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the array.
 */
public val CharArray.lastIndex: Int
    get() = size - 1

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect operator fun <T> Array<T>.plus(element: T): Array<T>

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun ByteArray.plus(element: Byte): ByteArray

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun ShortArray.plus(element: Short): ShortArray

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun IntArray.plus(element: Int): IntArray

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun LongArray.plus(element: Long): LongArray

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun DoubleArray.plus(element: Double): DoubleArray

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun BooleanArray.plus(element: Boolean): BooleanArray

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun CharArray.plus(element: Char): CharArray

/**
 * Returns an array containing all elements of the original array and then the given [element].
 * Returns an array containing all elements of the original array and then the given [element].
 */
public expect operator fun Collection.plus(element: Collection): Array<Collection>
original array and then all elements of the given \[elements\] collection.

`ByteArray.plus(elements: Collection<Byte>): ByteArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] collection.

`ShortArray.plus(elements: Collection<Short>): ShortArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] collection.

`IntArray.plus(elements: Collection<Int>): IntArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] collection.

`LongArray.plus(elements: Collection<Long>): LongArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] collection.

`FloatArray.plus(elements: Collection<Float>): FloatArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] collection.

`DoubleArray.plus(elements: Collection<Double>): DoubleArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] collection.

`BooleanArray.plus(elements: Collection<Boolean>): BooleanArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] collection.

`CharArray.plus(elements: Collection<Char>): CharArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] array.

`Array<T>.plus(elements: Array<out T>): Array<T>` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] array.

`ByteArray.plus(elements: ByteArray): ByteArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] array.

`ShortArray.plus(elements: ShortArray): ShortArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] array.

`IntArray.plus(elements: IntArray): IntArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] array.

`LongArray.plus(elements: LongArray): LongArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] array.

`FloatArray.plus(elements: FloatArray): FloatArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] array.

`DoubleArray.plus(elements: DoubleArray): DoubleArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] array.

`BooleanArray.plus(elements: BooleanArray): BooleanArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] array.

`CharArray.plus(elements: CharArray): CharArray` * Returns an array containing all elements of the original array and then all elements of the given \[elements\] array.

`Array<T>.plusElement(element: T): Array<T>` * Sorts the array in-place.

`ByteArray.sort(): Unit` * Sorts the array in-place.

`ShortArray.sort(): Unit` * Sorts the array in-place.

`IntArray.sort(): Unit` * Sorts the array in-place.

`LongArray.sort(): Unit` * Sorts the array in-place.

`FloatArray.sort(): Unit` * Sorts the array in-place.

`DoubleArray.sort(): Unit` * Sorts the array in-place.

`BooleanArray.sort(): Unit` * Sorts the array in-place.

`CharArray.sort(): Unit` * Sorts the array in-place.

`Array<Comparable<T>>.sort(): Unit` * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
Comparable<T> sort(): Unit

/**
 * Sorts a range in the array in-place.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgument Exception if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public expect fun <T : Comparable<T>> Array<out T>.sort(): Unit

/**
 * Sorts a range in the array in-place.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgument Exception if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public expect fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Sorts a range in the array in-place.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgument Exception if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Sorts a range in the array in-place.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgument Exception if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public expect fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Sorts a range in the array in-place.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgument Exception if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public expect fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Sorts a range in the array in-place.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgument Exception if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public expect fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Sorts a range in the array in-place.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgument Exception if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public expect fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Sorts elements of the array in the specified range in-place.
 * 
 * The elements are sorted descending according to their natural sort order.
 */
@SinceKotlin("1.4")
public expect fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit
_stable_. It means that equal elements preserve their order relative to each other after sorting.

```kotlin
@SinceKotlin("1.4")
public fun <T : Comparable<T>> Array<T>.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sortWith(reverseOrder(), fromIndex, toIndex)
    // Other code...
}
```

```kotlin
@SinceKotlin("1.4")
public fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sort(fromIndex, toIndex)
    reverse(fromIndex, toIndex)
}
```

```kotlin
@SinceKotlin("1.4")
public fun ShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sort(fromIndex, toIndex)
    reverse(fromIndex, toIndex)
}
```

```kotlin
@SinceKotlin("1.4")
public fun IntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sort(fromIndex, toIndex)
    reverse(fromIndex, toIndex)
}
```

```kotlin
@SinceKotlin("1.4")
public fun LongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sort(fromIndex, toIndex)
    reverse(fromIndex, toIndex)
}
```

```kotlin
@SinceKotlin("1.4")
public fun FloatArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sort(fromIndex, toIndex)
    reverse(fromIndex, toIndex)
}
```

```kotlin
@SinceKotlin("1.4")
public fun DoubleArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sort(fromIndex, toIndex)
    reverse(fromIndex, toIndex)
}
```

```kotlin
@SinceKotlin("1.4")
public fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sort(fromIndex, toIndex)
    reverse(fromIndex, toIndex)
}
```

```kotlin
@SinceKotlin("1.4")
public fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sortWith(reverseOrder(), fromIndex, toIndex)
    // Other code...
}
```

```kotlin
@SinceKotlin("1.4")
public fun StringArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sortWith(reverseOrder(), fromIndex, toIndex)
    // Other code...
}
```
order specified by the given [comparator]. The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

*param fromIndex the start of the range (inclusive) to sort, 0 by default
*param toIndex the end of the range (exclusive) to sort, size of this array by default
*throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array
*throws IllegalArgumentException if [fromIndex] is greater than [toIndex]

/**
 * Sorts a range in the array in-place with the given [comparator].
 *
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit

/**
 * Sorts a range in the array in-place with the given [comparator].
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]
 */
public expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Returns an array of Char containing all of the elements of this generic array.
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]
 */
public expect fun <T> Array<out T>.toCharArray(): CharArray

elements of the given array.

* If any of two pairs would have the same key the last one gets added to the
map.

* The returned map preserves the entry iteration order of the original array.

* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives

\[
\text{ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> \{\ln } \text{ val capacity = mapCapacity(size).coerceAtLeast(16)\ln return associateTo(LinkedHashMap<K, V>(capacity), transform)\ln\ln/**\ln * Returns a [Map] containing key-value pairs provided by [transform] function\n* applied to elements of the given array.\ln * \ln * If any of two pairs would have the same key the last one gets added to the
map.\ln * \ln * The returned map preserves the entry iteration order of the original array.\ln * \ln * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives

\[
\text{IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> \{\ln } \text{ val capacity = mapCapacity(size).coerceAtLeast(16)\ln return associateTo(LinkedHashMap<K, V>(capacity), transform)\ln\ln/**\ln * Returns a [Map] containing key-value pairs provided by [transform] function\n* applied to elements of the given array.\ln * \ln * If any of two pairs would have the same key the last one gets added to the
map.\ln * \ln * The returned map preserves the entry iteration order of the original array.\ln * \ln * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives

\[
\text{LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> \{\ln } \text{ val capacity = mapCapacity(size).coerceAtLeast(16)\ln return associateTo(LinkedHashMap<K, V>(capacity), transform)\ln\ln/**\ln * Returns a [Map] containing key-value pairs provided by [transform] function\n* applied to elements of the given array.\ln * \ln * If any of two pairs would have the same key the last one gets added to the
map.\ln * \ln * The returned map preserves the entry iteration order of the original array.\ln * \ln * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives

\[
\text{FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> \{\ln } \text{ val capacity = mapCapacity(size).coerceAtLeast(16)\ln return associateTo(LinkedHashMap<K, V>(capacity), transform)\ln\ln/**\ln * Returns a [Map] containing key-value pairs provided by [transform] function\n* applied to elements of the given array.\ln * \ln * If any of two pairs would have the same key the last one gets added to the
map.\ln * \ln * The returned map preserves the entry iteration order of the original array.\ln * \ln * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives

\[
\text{DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> \{\ln } \text{ val capacity = mapCapacity(size).coerceAtLeast(16)\ln return associateTo(LinkedHashMap<K, V>(capacity), transform)\ln\ln/**\ln * Returns a [Map] containing key-value pairs provided by [transform] function\n* applied to elements of the given array.\ln * \ln * If any of two pairs would have the same key the last one gets added to the
map.\ln * \ln * The returned map preserves the entry iteration order of the original array.\ln * \ln * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives

\[
\text{BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> \{\ln } \text{ val capacity = mapCapacity(size).coerceAtLeast(16)\ln return associateTo(LinkedHashMap<K, V>(capacity), transform)\ln\ln/**\ln * Returns a [Map] containing key-value pairs provided by [transform] function\n* applied to elements of the given array.\ln * \ln * If any of two pairs would have the same key the last one gets added to the
map.\ln * \ln * The returned map preserves the entry iteration order of the original array.\ln * \ln * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives

\[
\text{CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> \{\ln } \text{ val capacity = mapCapacity(size).coerceAtLeast(16)\ln return associateTo(LinkedHashMap<K, V>(capacity), transform)\ln\ln/**\ln * Returns a [Map] containing the elements from the given array indexed by the key\n* returned from [keySelector] function applied to each element.\ln * \ln * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\ln * \ln * The returned map preserves the entry iteration order of the original array.\ln * \ln * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy

\[
\text{Array<out T>...associateBy(keySelector: (T) -> K): Map<K, T> \{\ln } \text{ val capacity = mapCapacity(size).coerceAtLeast(16)\ln return associateTo(LinkedHashMap<K, T>(capacity),...}

---

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keySelector)
\n\n/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element.\n * If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration
 * order of the original array.\n * @sample
 */

ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Byte>(capacity),
        keySelector)\n\n\n/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element.\n * If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration
 * order of the original array.\n * @sample
 */

ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Short>(capacity),
        keySelector)\n\n\n/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element.\n * If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration
 * order of the original array.\n * @sample
 */

IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Int>(capacity),
        keySelector)\n\n\n/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element.\n * If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration
 * order of the original array.\n * @sample
 */

LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Long>(capacity),
        keySelector)\n\n\n/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element.\n * If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration
 * order of the original array.\n * @sample
 */

FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Float>(capacity),
        keySelector)\n\n\n/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element.\n * If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration
 * order of the original array.\n * @sample
 */

DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Double>(capacity),
        keySelector)\n\n\n/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element.\n * If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration
 * order of the original array.\n * @sample
 */

BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {
    val capacity =
mapCapacity(size).coerceAtLeast(16)
return associateByTo(LinkedHashMap<K, Boolean>(capacity),
keySelector)*/ Returns a [Map] containing the elements from the given array indexed by the key
* returned from [keySelector] function applied to each element. If any two elements would have the same key
* returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration
order of the original array.

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy

/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration
order of the original array.

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by
 * [keySelector] functions applied to elements of the given array. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration
order of the original array.

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by
 * [keySelector] functions applied to elements of the given array. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration
order of the original array.
fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 */
fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 */
fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 */
fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
fun <T, K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.
 */
fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.
 */
fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.
 */
fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map. 

```kotlin
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
```

```kotlin
/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
```

```kotlin
/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
```

```kotlin
/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
```

```kotlin
/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
```

```kotlin
/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given array. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByToWithValueTransform(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

```kotlin
/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given array. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByToWithValueTransform(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```
public inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * provided by \n * function applied to each
 * element of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * provided by \n * function applied to each
 * element of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}
public inline fun <T, K, V, M> T.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * produced by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the
 * [destination].
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
 */
public inline fun <K, V, M> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * produced by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the
 * [destination].
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
 */
public inline fun <K, V, M> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * produced by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the
 * [destination].
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
 */
public inline fun <K, V, M> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * produced by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the
 * [destination].
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
 */
public inline fun <K, V, M> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * produced by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the
 * [destination].
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
 */
public inline fun <K, V, M> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * produced by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the
 * [destination].
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
 */
public inline fun <K, V, M> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * produced by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the
 * [destination].
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
 */
public inline fun <K, V, M> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * produced by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the
 * [destination].
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
 */
public inline fun <K, V, M> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Returns a [Map] where keys are elements from the given array and values are
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
 */
produced by the [valueSelector] function applied to each element.

If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

@sample samples.collections.Collections.Transformations.associateWith

BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> {
    val result = LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16)).apply { return associateWithTo(result, valueSelector)}
    return result
}

CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {
    val result = LinkedHashMap<Char, V>(mapCapacity(size.coerceAtMost(128)).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

Array<out K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

IntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

LongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}


itself and value is provided by the [valueSelector] function applied to that key.

If any two elements are equal, the last one overwrites the former value in the map.

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Float, in V>>
FloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Double, in V>>
DoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Boolean, in V>>
BooleanArray.associateWithTo(destination: M, valueSelector: (Boolean) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Char, in V>>
CharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

public fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Long>>
LongArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Float>>
FloatArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Double>>
DoubleArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Boolean>>
BooleanArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Char>>
CharArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Byte>>
ByteArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Short>>
ShortArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Int>>
IntArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Long>>
LongArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Float>>
FloatArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Double>>
DoubleArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Boolean>>
BooleanArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

public fun <C : MutableCollection<in Char>>
CharArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}
*\`public fun <T> Array<out T>.toHashSet(): HashSet<T> {\n   return toCollection(HashSet<T>(mapCapacity(size)))* Returns a new [HashSet] of all elements.*\`

*\`public fun ByteArray.toHashSet(): HashSet<Byte> {\n   return toCollection(HashSet<Byte>(mapCapacity(size)))* Returns a new [HashSet] of all elements.*\`

*\`public fun ShortArray.toHashSet(): HashSet<Short> {\n   return toCollection(HashSet<Short>(mapCapacity(size)))* Returns a new [HashSet] of all elements.*\`

*\`public fun IntArray.toHashSet(): HashSet<Int> {\n   return toCollection(HashSet<Int>(mapCapacity(size)))* Returns a new [HashSet] of all elements.*\`

*\`public fun LongArray.toHashSet(): HashSet<Long> {\n   return toCollection(HashSet<Long>(mapCapacity(size)))* Returns a new [HashSet] of all elements.*\`

*\`public fun FloatArray.toHashSet(): HashSet<Float> {\n   return toCollection(HashSet<Float>(mapCapacity(size)))* Returns a new [HashSet] of all elements.*\`

*\`public fun DoubleArray.toHashSet(): HashSet<Double> {\n   return toCollection(HashSet<Double>(mapCapacity(size)))* Returns a new [HashSet] of all elements.*\`

*\`public fun BooleanArray.toHashSet(): HashSet<Boolean> {\n   return toCollection(HashSet<Boolean>(mapCapacity(size)))* Returns a new [HashSet] of all elements.*\`

*\`public fun CharArray.toHashSet(): HashSet<Char> {\n   return toCollection(HashSet<Char>(size.coerceAtMost(128)))* Returns a [HashSet] containing all elements.*\`

*\`public fun <T> Array<out T>.toList(): List<T> {\n   return when (size) {\n      0 -> emptyList<T>()\n      1 -> listOf(this[0])\n      else -> this.toMutableList<T>()* Returns a [List] containing all elements.*\`

*\`public fun ByteArray.toList(): List<Byte> {\n   return when (size) {\n      0 -> emptyList<Byte>()\n      1 -> listOf(this[0])\n      else -> this.toMutableList<Byte>()* Returns a [List] containing all elements.*\`

*\`public fun ShortArray.toList(): List<Short> {\n   return when (size) {\n      0 -> emptyList<Short>()\n      1 -> listOf(this[0])\n      else -> this.toMutableList<Short>()* Returns a [List] containing all elements.*\`

*\`public fun IntArray.toList(): List<Int> {\n   return when (size) {\n      0 -> emptyList<Int>()\n      1 -> listOf(this[0])\n      else -> this.toMutableList<Int>()* Returns a [List] containing all elements.*\`

*\`public fun LongArray.toList(): List<Long> {\n   return when (size) {\n      0 -> emptyList<Long>()\n      1 -> listOf(this[0])\n      else -> this.toMutableList<Long>()* Returns a [List] containing all elements.*\`

*\`public fun FloatArray.toList(): List<Float> {\n   return when (size) {\n      0 -> emptyList<Float>()\n      1 -> listOf(this[0])\n      else -> this.toMutableList<Float>()* Returns a [List] containing all elements.*\`

*\`public fun DoubleArray.toList(): List<Double> {\n   return when (size) {\n      0 -> emptyList<Double>()\n      1 -> listOf(this[0])\n      else -> this.toMutableList<Double>()* Returns a [List] containing all elements.*\`

*\`public fun BooleanArray.toList(): List<Boolean> {\n   return when (size) {\n      0 -> emptyList<Boolean>()\n      1 -> listOf(this[0])\n      else -> this.toMutableList<Boolean>()* Returns a [List] containing all elements.*\`

*\`public fun CharArray.toList(): List<Char> {\n   return when (size) {\n      0 -> emptyList<Char>()\n      1 -> listOf(this[0])\n      else -> this.toMutableList<Char>()* Returns a [List] containing all elements.*\`

*\`public fun <T> Array<out T>.toMutableList(): MutableList<T> {\n   return ArrayList<T>(this.asCollection())* Returns a new [MutableList] filled with all elements of this array.*\`

*\`public fun ByteArray.toMutableList(): MutableList<Byte> {\n   val list = ArrayList<Byte>(size)\n   return list* Returns a new [MutableList] filled with all elements of this array.*\`

*\`public fun ShortArray.toMutableList(): MutableList<Short> {\n   val list = ArrayList<Short>(size)\n   return list* Returns a new [MutableList] filled with all elements of this array.*\`

*\`public fun IntArray.toMutableList(): MutableList<Int> {\n   val list = ArrayList<Int>(size)\n   return list* Returns a new [MutableList] filled with all elements of this array.*\`

*\`public fun LongArray.toMutableList(): MutableList<Long> {\n   val list = ArrayList<Long>(size)\n   return list* Returns a new [MutableList] filled with all elements of this array.*\`

*\`public fun FloatArray.toMutableList(): MutableList<Float> {\n   val list = ArrayList<Float>(size)\n   return list* Returns a new [MutableList] filled with all elements of this array.*\`

*\`public fun DoubleArray.toMutableList(): MutableList<Double> {\n   val list = ArrayList<Double>(size)\n   return list* Returns a new [MutableList] filled with all elements of this array.*\`

*\`public fun BooleanArray.toMutableList(): MutableList<Boolean> {\n   val list = ArrayList<Boolean>(size)\n   return list* Returns a new [MutableList] filled with all elements of this array.*\`

*\`public fun CharArray.toMutableList(): MutableList<Char> {\n   val list = ArrayList<Char>(size)\n   return list* Returns a new [MutableList] filled with all elements of this array.*\`

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filled with all elements of this array.

```kotlin
val list = ArrayList<Char>(size for (item in this) list.add(item) return list)
```

Returns a new [MutableList] filled with all elements of this array.

```kotlin
return list
```

* Returns a new [MutableList] filled with all elements of this array.

```kotlin
MutableList<Char>(size for (item in this) list.add(item) return list)
```

* Returns a new [MutableList] filled with all elements of this array.

```kotlin
MutableList<MutableList<Double>(size for (item in this) list.add(item) return list)
```

* Returns a new [MutableList] filled with all elements of this array.

```kotlin
mutableList()
```

* Returns a [MutableList] filled with all elements of this array.

```kotlin
mutableList()
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* Returns a [MutableList] filled with all elements of this array.

```kotlin
mutableList()
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* Returns a [MutableList] filled with all elements of this array.

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* Returns a [MutableList] filled with all elements of this array.

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* Returns a [MutableList] filled with all elements of this array.

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* Returns a [MutableList] filled with all elements of this array.

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* Returns a [MutableList] filled with all elements of this array.

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* Returns a [MutableList] filled with all elements of this array.

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* Returns a [MutableList] filled with all elements of this array.

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mutableList()
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* Returns a [MutableList] filled with all elements of this array.

```kotlin
mutableList()
```

* Returns a [MutableList] filled with all elements of this array.

```kotlin
mutableList()
```
invoked on each element of original array.

```kotlin
@public inline fun LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

@public inline fun FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

@public inline fun DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

@public inline fun BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

@public inline fun CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

```kotlin
@public inline fun Array<out T>.flatMap(transform: (T) -> Sequence<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

```kotlin
@public inline fun Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}
```

```kotlin
@public inline fun ByteArray.flatMapIndexed(transform: (index: Int, Byte) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}
```

```kotlin
@public inline fun ShortArray.flatMapIndexed(transform: (index: Int, Short) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}
```

```kotlin
@public inline fun IntArray.flatMapIndexed(transform: (index: Int, Int) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}
```
results of [transform] function being invoked on each element\n * and its index in the original array.\n * @sample samples.collections.Collections.Transformations.flatMapIndexed

/**\n * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly
public inline fun <R> LongArray.flatMapIndexed(transform: (index: Int, Long) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly
public inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly
public inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly
public inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, Char) -> Sequence<R>): C {
    return flatMapIndexedToToArrayList<ByteArray, C>(transform)
}

/**\n * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): List<R> {
    return flatMapIndexedToToArrayList<ByteArray, C>(transform)
}

/**\n * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): List<R> {
    return flatMapIndexedToToArrayList<ByteArray, C>(transform)
}

/**\n * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): List<R> {
    return flatMapIndexedToToArrayList<ByteArray, C>(transform)
}
Byte) -> Iterable<? super R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of \[transform\] function being invoked on each element in the original array, to the given \[destination\].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, Short) -> Iterable<? super R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of \[transform\] function being invoked on each element in the original array, to the given \[destination\].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> IntArray.flatMapIndexedTo(destination: C, transform: (index: Int, Int) -> Iterable<? super R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of \[transform\] function being invoked on each element in the original array, to the given \[destination\].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> LongArray.flatMapIndexedTo(destination: C, transform: (index: Long, Long) -> Iterable<? super R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of \[transform\] function being invoked on each element in the original array, to the given \[destination\].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapIndexedTo(destination: C, transform: (index: Float, Float) -> Iterable<? super R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of \[transform\] function being invoked on each element in the original array, to the given \[destination\].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index: Double, Double) -> Iterable<? super R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of \[transform\] function being invoked on each element in the original array, to the given \[destination\].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapIndexedTo(destination: C, transform: (index: Boolean, Boolean) -> Iterable<? super R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}
inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int, Char) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapShortArrayTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIntArrayTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapLongArrayTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapFloatArrayTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapDoubleArrayTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C, transform: (Double) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapBooleanArrayTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapCharArrayTo")
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapArrayOf")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapListTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableList<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> List<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapSetTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableSet<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Set<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableCollection<in R>> List<out T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapSetTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : Set<in R>> List<out T>.flatMapTo(destination: C, transform: (T) -> Set<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : Collection<in R>> Sequence<out T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapSetTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : Collection<in R>> Sequence<out T>.flatMapTo(destination: C, transform: (T) -> Set<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapSequenceTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : Collection<in R>> Sequence<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
val list = transform(element)
destination.addAll(list)
return

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and returns a map where each key group is associated with a list of
 * corresponding elements. The returned map preserves the entry iteration order of the keys produced from
 * the original array. 
 */
public inline fun <T, K> Array<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements. The returned map preserves the entry iteration order of the keys produced from
 * the original array. 
 */
public inline fun <T, K> Collection<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements. The returned map preserves the entry iteration order of the keys produced from
 * the original array. 
 */
public inline fun <T, K> Set<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements. The returned map preserves the entry iteration order of the keys produced from
 * the original array. 
 */
public inline fun <T, K> List<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}
entry iteration order of the keys produced from the original array.

samples.collections.Collections.Transformations.groupBy

CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>>

CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>>

public inline fun <K, V> Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>>

ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>>

ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>>

IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>>

LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>>

FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>>
produced from the original array.

```kotlin
@sample samples.collections.Collections.Transformations.groupByKeysAndValues

public inline fun <K, V, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<T>() }
        list.add(element)
    }
    return destination
}

public inline fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Byte>() }
        list.add(element)
    }
    return destination
}

public inline fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Short>() }
        list.add(element)
    }
    return destination
}

public inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Int>() }
        list.add(element)
    }
    return destination
}

public inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Long>() }
        list.add(element)
    }
    return destination
}
```

```kotlin
```
Groups elements of the original array by the key returned by the given [keySelector] function
applied to each element and puts to the [destination] map each group key associated with a list of
accessing elements.

@sample samples.collections.Collections.Transformations.groupBy

/*

public inline fun <K, M : MutableMap<String, MutableList<Float>>> FloatArray.groupByTo(destination: M,
keySelector: (Float) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Float>() }
        list.add(element)
    }
    return destination
}

*/

public inline fun <K, M : MutableMap<String, MutableList<Double>>> DoubleArray.groupByTo(destination: M,
keySelector: (Double) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Double>() }
        list.add(element)
    }
    return destination
}

/*

public inline fun <K, M : MutableMap<String, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M,
keySelector: (Boolean) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Boolean>() }
        list.add(element)
    }
    return destination
}

*/

public inline fun <K, V, M : MutableMap<String, MutableList<V>>> Array<out T>.groupByTo(destination: M,
keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/*

public inline fun <K, V, M : MutableMap<String, MutableList<V>>> byteArray.groupByTo(destination: M,
keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

*/

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[destination] map each group key associated with a list of corresponding values.
* @return The [destination] map.
* @sample samples.collections.Collections.Transformations.groupByKeysAndValues
* \n
public inline fun <K, V, M : MutableMap<K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {
    val list = destination.getOrPut(key) { ArrayList<V>() }
    list.add(valueTransform(element))
    return destination
}/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <K, V, M : MutableMap<K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {
    val list = destination.getOrPut(key) { ArrayList<V>() }
    list.add(valueTransform(element))
    return destination
}/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <K, V, M : MutableMap<K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    val list = destination.getOrPut(key) { ArrayList<V>() }
    list.add(valueTransform(element))
    return destination
}/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <K, V, M : MutableMap<K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    val list = destination.getOrPut(key) { ArrayList<V>() }
    list.add(valueTransform(element))
    return destination
}/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <K, V, M : MutableMap<K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    val list = destination.getOrPut(key) { ArrayList<V>() }
    list.add(valueTransform(element))
    return destination
}/**
 * Creates a [Grouping] source from an array to be used later with one of group-and-fold
 * operations
 * using the specified [keySelector] function to extract a key from each element.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.1")
public inline fun <T, K>
    Array<out T>.groupingBy(crossinline keySelector: (T) -> K) { ArrayList<V>() }
    list.add(valueTransform(element))
    return destination
}/**
 * Returns a list containing the results of applying
 * the given [transform] function to each element in the original array.
 * @sample
samples.collections.Collections.Transformations.map\n *\n
public inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n} *\n
public inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n} *\n
/**\n * Returns a list containing the results of applying the given \[transform\] function\n * to each element in the original array.\n * \n *
 */
public inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n} *\n
/**\n * Returns a list containing the results of applying the given \[transform\] function\n * to each element in the original array.\n * \n *
 */
public inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n} *\n
/**\n * Returns a list containing the results of applying the given \[transform\] function\n * to each element in the original array.\n * \n *
 */
public inline fun <R> ShortArray.map(transform: (Short) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n} *\n
/**\n * Returns a list containing the results of applying the given \[transform\] function\n * to each element in the original array.\n * \n *
 */
public inline fun <R> IntArray.map(transform: (Int) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n} *\n
/**\n * Returns a list containing the results of applying the given \[transform\] function\n * to each element in the original array.\n * \n *
 */
public inline fun <R> CharArray.map(transform: (Char) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n} *\n
/**\n * Returns a list containing the results of applying the given \[transform\] function\n * to each element and its index in the original array.\n * \n *
 */
public inline fun <T, R> Array<out

[transform] function that takes the index of an element and the element itself\n* and returns the result of the transform applied to the element.\n */
public inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function\n* to each element and its index in the original array.\n* @param [transform] function that takes the index of an element and the element itself\n* and returns the result of the transform applied to the element.\n */
public inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function\n* to each element and its index in the original array.\n* @param [transform] function that takes the index of an element and the element itself\n* and returns the result of the transform applied to the element.\n */
public inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function\n* to each element and its index in the original array.\n* @param [transform] function that takes the index of an element and the element itself\n* and returns the result of the transform applied to the element.\n */
public inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing only the non-null results of applying the given [transform] function\n* to each element and the element itself\n* and returns the result of the transform applied to the element.\n* @param [transform] function that takes the index of an element and the element itself\n* and returns the result of the transform applied to the element.\n */
public inline fun <T, R : Any> Array<out T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {
    return mapIndexedNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each element and its index in the original array\n* and appends only the non-null results to the given [destination].\n* @param [transform] function that takes the index of an element and the element itself\n* and returns the result of the transform applied to the element.\n*/
public inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {
    for (index in this)
        if (transform(index, this[index]) != null)
            destination.add(transform(index, this[index]))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array\n* and appends only the non-null results to the given [destination].\n*/
public inline fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedNotNullTo(destination: C, transform: (index: Int, Byte) -> R?): C {
    for (index in this)
        if (transform(index, this[index]) != null)
            destination.add(transform(index, this[index]))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array\n* and appends only the non-null results to the given [destination].\n*/
public inline fun <R, C : MutableCollection<in R>> ShortArray.mapIndexedNotNullTo(destination: C, transform: (index: Int, Short) -> R?): C {
    for (index in this)
        if (transform(index, this[index]) != null)
            destination.add(transform(index, this[index]))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array\n* and appends only the non-null results to the given [destination].\n*/
public inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedNotNullTo(destination: C, transform: (index: Int, Int) -> R?): C {
    for (index in this)
        if (transform(index, this[index]) != null)
            destination.add(transform(index, this[index]))
    return destination
}
returns the result of the transform applied to the element.

 */
public inline fun <R, C : MutableCollection<in R>>
LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 */
@param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <R, C : MutableCollection<in R>>
FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 */
public inline fun <R, C : MutableCollection<in R>>
DoubleArray.mapIndexedTo(destination: C, transform: (index, Double) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Returns a list containing only the non-null results of applying the given [transform] function
 * to each element in the original array.
 */
public inline fun <T, R : Any>
Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends only the non-null results to the given [destination].
 */
public inline fun <T, R : Any, C : MutableCollection<in R>>
Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {
    forEach {
        element -> transform(element)?.let { destination.add(it) }
    }
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>>
CharArray.mapTo(destination: C, transform: (Char) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>>
ShortArray.mapTo(destination: C, transform: (Short) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>>
IntArray.mapTo(destination: C, transform: (Int) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>>
LongArray.mapTo(destination: C, transform: (Long) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>>
ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>>
CharArray.mapTo(destination: C, transform: (Char) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>>
ShortArray.mapTo(destination: C, transform: (Short) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>>
IntArray.mapTo(destination: C, transform: (Int) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>>
LongArray.mapTo(destination: C, transform: (Long) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>>
ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
List<Int> { \n    return this.toMutableSet().toList()\n}\n/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */
public fun LongArray.distinct(): List<Long> { \n    return this.toMutableSet().toList()\n}\n/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */
public fun FloatArray.distinct(): List<Float> { \n    return this.toMutableSet().toList()\n}\n/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */
public fun DoubleArray.distinct(): List<Double> { \n    return this.toMutableSet().toList()\n}\n/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */
public fun BooleanArray.distinct(): List<Boolean> { \n    return this.toMutableSet().toList()\n}\n/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */
public fun CharArray.distinct(): List<Character> { \n    return this.toMutableSet().toList()\n}\n/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.\n * The elements in the resulting list are in the same order as they were in the source array.\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */
public fun <T, K> Array<T>.distinctBy(selector: (T) -> K): List<T> { \n    val set = HashSet<K>()\n    val list = ArrayList<T>()\n    for (e in this) { \n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.\n * The elements in the resulting list are in the same order as they were in the source array.\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */
public fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> { \n    val set = HashSet<K>()\n    val list = ArrayList<Byte>()\n    for (e in this) { \n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.\n * The elements in the resulting list are in the same order as they were in the source array.\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */
public fun <K> ShortArray.distinctBy(selector: (Short) -> K): List<Short> { \n    val set = HashSet<K>()\n    val list = ArrayList<Short>()\n    for (e in this) { \n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.\n * The elements in the resulting list are in the same order as they were in the source array.\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */
public fun <K> IntArray.distinctBy(selector: (Int) -> K): List<Int> { \n    val set = HashSet<K>()\n    val list = ArrayList<Int>()\n    for (e in this) { \n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.\n * The elements in the resulting list are in the same order as they were in the source array.\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */
public fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> { \n    val set = HashSet<K>()\n    val list = ArrayList<Long>()\n    for (e in this) { \n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}
were in the source array.

```kotlin
samples.collections.Collections.Transformations.distinctAndDistinctBy

public inline fun <K>
FloatArray.distinctBy(selector: (Float) -> K): List<Float> {
    val set = HashSet<K>(e)
    val list = ArrayList<Float>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they were in the source array.
 */
public inline fun <K>
DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {
    val set = HashSet<K>(e)
    val list = ArrayList<Double>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they were in the source array.
 */
public inline fun <K>
BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {
    val set = HashSet<K>(e)
    val list = ArrayList<Boolean>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they were in the source array.
 */
public inline fun <K>
CharArray.distinctBy(selector: (Char) -> K): List<Char> {
    val set = HashSet<K>(e)
    val list = ArrayList<Char>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified collection.
 * The returned set preserves the element iteration order of the original array.
 */
public infix fun <T>
Array<out T>.intersect(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified collection.
 * The returned set preserves the element iteration order of the original array.
 */
public infix fun
ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified collection.
 * The returned set preserves the element iteration order of the original array.
 */
public infix fun
ShortArray.intersect(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified collection.
 * The returned set preserves the element iteration order of the original array.
 */
public infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified collection.
 * The returned set preserves the element iteration order of the original array.
 */
public infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified collection.
 * The returned set preserves the element iteration order of the original array.
 */
public infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}
```

---

**Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 63112**
public fun IntArray.toMutableSet(): MutableList<Int> {
    return toCollection(LinkedHashSet<Int>(mapCapacity(size)))
}

/**
 * Returns a new 
 * [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 */
public fun LongArray.toMutableSet(): MutableList<Long> {
    return toCollection(LinkedHashSet<Long>(mapCapacity(size)))
}

/**
 * Returns a new 
 * [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 */
public fun FloatArray.toMutableSet(): MutableList<Float> {
    return toCollection(LinkedHashSet<Float>(mapCapacity(size)))
}

/**
 * Returns a new 
 * [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 */
public fun DoubleArray.toMutableSet(): MutableList<Double> {
    return toCollection(LinkedHashSet<Double>(mapCapacity(size)))
}

/**
 * Returns a new 
 * [MutableSet] containing all distinct elements from both collections.
 * The returned set preserves the element iteration order of the original array.
 * Those elements of the [other] collection that are unique are iterated in the end.
 * Those elements of the [other] collection that are unique are iterated in the end.
 * Those elements of the [other] collection that are unique are iterated in the end.
 * Those elements of the [other] collection that are unique are iterated in the end.
 * Those elements of the [other] collection that are unique are iterated in the end.
 * Those elements of the [other] collection that are unique are iterated in the end.
 * Those elements of the [other] collection that are unique are iterated in the end.
 * Those elements of the [other] collection that are unique are iterated in the end.
 * Those elements of the [other] collection that are unique are iterated in the end.
 * Those elements of the [other] collection that are unique are iterated in the end.
 */
public infix fun Array<out T>.union(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

public infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

public infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

public infix fun IntArray.union(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

public infix fun LongArray.union(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

public infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}
of the original array.

Those elements of the [other] collection that are unique are iterated in the end
in the order of the [other] collection.

To get a set containing all elements that are contained in both collections use
[intersect].

*public infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {
    var set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {
    var set = this.toMutableSet()
    set.addAll(other)
    return set
}

*public infix fun CharArray.union(other: Iterable<Char>): Set<Char> {
    var set = this.toMutableSet()
    set.addAll(other)
    return set
}

*inline fun <T> Array<out T>.all(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

*inline fun ByteArray.all(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

*inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

*inline fun IntArray.all(predicate: (Int) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

*inline fun LongArray.all(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

*inline fun FloatArray.all(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

*inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

*inline fun BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

*inline fun CharArray.all(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

*fun <T> Array<out T>.any(): Boolean {
    return !isEmpty()
}

*fun ByteArray.any(): Boolean {
    return !isEmpty()
}

*fun ShortArray.any(): Boolean {
    return !isEmpty()
}

*fun IntArray.any(): Boolean {
    return !isEmpty()
}

*fun LongArray.any(): Boolean {
    return !isEmpty()
}

*fun FloatArray.any(): Boolean {
    return !isEmpty()
}

*fun DoubleArray.any(): Boolean {
    return !isEmpty()
}

*fun BooleanArray.any(): Boolean {
    return !isEmpty()
}

*fun CharArray.any(): Boolean {
    return !isEmpty()
}
samples.collections.Collections.Aggregates.any

/**
 * Returns `true` if array has at least one element.
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public fun FloatArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public fun DoubleArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public fun BooleanArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public fun CharArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public inline fun IntArray.any(predicate: (Int) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public inline fun DoubleArray.any(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public inline fun BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @sample samples.collections.Collections.Aggregates.any
 */
public inline fun CharArray.any(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.count(): Int {
    return size
}

/**
 * Returns the number of elements matching the given [predicate].
 */
public inline fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) return count
    return 0
}
accumulator = operation(accumulator, element)
return accumulator

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element. Returns the specified [initial] value if the array is empty.

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.

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Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.

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Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
element with its index in the original array.

* @param [operation] function that takes the index of an element, current accumulator value, and the element itself, and calculates the next accumulator value.
* @public inline fun <R> FloatArray.foldIndexed(initial: R, operation: (Int, acc: R, Double) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @param [operation] function that takes the index of an element, current accumulator value, and the element itself, and calculates the next accumulator value.
* @public inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}

* @param [operation] function that takes the index of an element, current accumulator value, and the element itself, and calculates the next accumulator value.
* @public inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @param [operation] function that takes the index of an element, current accumulator value, and the element itself, and calculates the next accumulator value.
* @public inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @param [operation] function that takes the index of an element, current accumulator value, and the element itself, and calculates the next accumulator value.
* @public inline fun <R> IntArray.foldIndexed(initial: R, operation: (Int, acc: R, Int) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

* @param [operation] function that takes the index of an element, current accumulator value, and the element itself, and calculates the next accumulator value.
* @public inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}
and current accumulator value, and calculates the next accumulator value.

```kotlin
public inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (Int, Long, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Returns the specified [initial] value if the array is empty.

```kotlin
public inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (Int, Byte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Returns the specified [initial] value if the array is empty.

```kotlin
public inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (Int, Float, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Returns the specified [initial] value if the array is empty.

```kotlin
public inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (Int, Boolean, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Returns the specified [initial] value if the array is empty.

```kotlin
public inline fun <R> DoubleArray.foldRightIndexed(initial: R, operation: (Int, Double, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Returns the specified [initial] value if the array is empty.

```kotlin
public inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (Int, Short, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Returns the specified [initial] value if the array is empty.

```kotlin
/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left.
 * to each element and current accumulator value.
 */
```
calculates the next accumulator value.

```kotlin
public inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Accumulates value starting with [initial] value and applying [operation] from right to left

```kotlin
val * * in */public inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Returns the specified [initial] value if the array is empty.

```kotlin
val * * in */public inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Remembers the specified [initial] value if the array is empty.

```kotlin
val * * in */public inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Remembers the specified [initial] value if the array is empty.

```kotlin
val * * in */public inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Calculates the next accumulator value.

```kotlin
val * * in */public inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Performs the given [action] on each element.

```kotlin
for (element in this) action(element)
```

For each element in this action(element)
```kotlin
public inline fun CharArray.forEach(action: (Char) -> Unit): Unit {
    for (element in this)
        action(element)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 * @return [T] type of the element
 */
public inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 * @return [Byte] type of the element
 */
public inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 * @return [Short] type of the element
 */
public inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 * @return [Int] type of the element
 */
public inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 * @return [Long] type of the element
 */
public inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 * @return [Float] type of the element
 */
public inline fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 * @return [Double] type of the element
 */
public inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 * @return [Boolean] type of the element
 */
public inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {
    for (item in this)
        action(index++, item)
}
```

Float? {
    return maxOrNull()
} @Deprecated("Use maxOrNull instead.",

ReplaceWith("maxOrNull()") @DeprecatedSinceKotlin(warningSince = "1.4") public fun DoubleArray.max(): Double? {
    return maxOrNull()
} @Deprecated("Use maxOrNull instead.",

ReplaceWith("maxOrNull()") @DeprecatedSinceKotlin(warningSince = "1.4") public fun CharArray.max(): Char? {
    return maxOrNull()
} @Deprecated("Use maxOrNull instead.",

ReplaceWith("maxOrNull(selector)") @DeprecatedSinceKotlin(warningSince = "1.4") public inline fun <T, R : Comparable<R>> Array<T>.maxBy(selector: (T) -> R): T? {
    return maxByOrNull(selector)
} @Deprecated("Use maxByOrNull instead.",

ReplaceWith("maxByOrNull(selector)") @DeprecatedSinceKotlin(warningSince = "1.4") public inline fun <T, R : Comparable<R>> Array<T>.maxByOrNull(selector: (T) -> R): T? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
this[i]*/
val v = selector(e)*/
if (maxValue < v) {*/
    maxElem = e*/
    maxValue = v*/
}*/
return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R): Int? {*/
    if (isEmpty()) return null*/
    var maxElem = this[0]*/
    val lastIndex = this.lastIndex*/
    if (lastIndex == 0) return maxElem*/
    var maxValue = selector(maxElem)*/
    for (i in 1..lastIndex) {*/
        val e = this[i]*/
        val v = selector(e)*/
        if (maxValue < v) {*/
            maxElem = e*/
            maxValue = v*/
        }*/
    }*/
    return maxElem*/
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.maxOf(selector: (T) -> Double): Double {*/
    if (isEmpty()) throw NoSuchElementException()*/
    var maxValue = selector(this[0])*/
    for (i in 1..lastIndex) {*/
        val e = this[i]*/
        val v = selector(e)*/
        if (maxValue < v) {*/
            maxElem = e*/
            maxValue = v*/
        }*/
    }*/
    return maxElem*/
}
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.maxOf(selector: (Byte) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ShortArray.maxOf(selector: (Short) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun IntArray.maxOf(selector: (Int) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun LongArray.maxOf(selector: (Long) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun FloatArray.maxOf(selector: (Float) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun DoubleArray.maxOf(selector: (Double) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun BooleanArray.maxOf(selector: (Boolean) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
`NaN`: `*` `*` `*` @throws NoSuchElementException if the array is empty.

`*` `@SinceKotlin("1.4")` `@OptIn(kotlin.experimental.ExperimentalTypeInference::class)` `@OverloadResolution` `ByLambdaReturnType` `@kotlin.internal.InlineOnly` `@public inline fun CharArray.maxOf(selector: (Char) -> Double): Double {
`if (isEmpty()) throw NoSuchElementException() `var maxValue = selector(this[0]) `for (i in this.size) {
`val v = selector(this[i]) `maxValue = maxOf(maxValue, v) `}
`return maxValue}

`*` `@SinceKotlin("1.4")` `@OptIn(kotlin.experimental.ExperimentalTypeInference::class)` `@OverloadResolution` `ByLambdaReturnType` `@kotlin.internal.InlineOnly` `@public inline fun <T> Array<out T>.maxOf(selector: (T) -> Float): Float {
`if (isEmpty()) throw NoSuchElementException() `var maxValue = selector(this[0]) `for (i in this.size) {
`val v = selector(this[i]) `maxValue = maxOf(maxValue, v) `}
`return maxValue}

`*` `@SinceKotlin("1.4")` `@OptIn(kotlin.experimental.ExperimentalTypeInference::class)` `@OverloadResolution` `ByLambdaReturnType` `@kotlin.internal.InlineOnly` `@public inline fun ByteArray.maxOf(selector: (Byte) -> Float): Float {
`if (isEmpty()) throw NoSuchElementException() `var maxValue = selector(this[0]) `for (i in this.size) {
`val v = selector(this[i]) `maxValue = maxOf(maxValue, v) `}
`return maxValue}

`*` `@SinceKotlin("1.4")` `@OptIn(kotlin.experimental.ExperimentalTypeInference::class)` `@OverloadResolution` `ByLambdaReturnType` `@kotlin.internal.InlineOnly` `@public inline fun ShortArray.maxOf(selector: (Short) -> Float): Float {
`if (isEmpty()) throw NoSuchElementException() `var maxValue = selector(this[0]) `for (i in this.size) {
`val v = selector(this[i]) `maxValue = maxOf(maxValue, v) `}
`return maxValue}

`*` `@SinceKotlin("1.4")` `@OptIn(kotlin.experimental.ExperimentalTypeInference::class)` `@OverloadResolution` `ByLambdaReturnType` `@kotlin.internal.InlineOnly` `@public inline fun IntArray.maxOf(selector: (Int) -> Float): Float {
`if (isEmpty()) throw NoSuchElementException() `var maxValue = selector(this[0]) `for (i in this.size) {
`val v = selector(this[i]) `maxValue = maxOf(maxValue, v) `}
`return maxValue}

`*` `@SinceKotlin("1.4")` `@OptIn(kotlin.experimental.ExperimentalTypeInference::class)` `@OverloadResolution` `ByLambdaReturnType` `@kotlin.internal.InlineOnly` `@public inline fun LongArray.maxOf(selector: (Long) -> Float): Float {
`if (isEmpty()) throw NoSuchElementException() `var maxValue = selector(this[0]) `for (i in this.size) {
`val v = selector(this[i]) `maxValue = maxOf(maxValue, v) `}
`return maxValue}

`*` `@SinceKotlin("1.4")` `@OptIn(kotlin.experimental.ExperimentalTypeInference::class)` `@OverloadResolution` `ByLambdaReturnType` `@kotlin.internal.InlineOnly` `@public inline fun FloatArray.maxOf(selector: (Float) -> Float): Float {
`if (isEmpty()) throw NoSuchElementException() `var maxValue = selector(this[0]) `for (i in this.size) {
`val v = selector(this[i]) `maxValue = maxOf(maxValue, v) `}
`return maxValue}`
each element in the array.

If any of values produced by [selector] function is `NaN`, the returned result is 'NaN'.

*Throws NoSuchElementException if the array is empty.*

*Since Kotlin ("1.4")*

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly

@optIn@kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly

@optIn@kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly

@optIn@kotlin.experimental.ExperimentalTypeInference::class)
by [selector] function\n * applied to each element in the array.\n * @throws NoSuchElementException if the array is empty.\n
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.maxOfOrNull(selector: (T) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue
}

/**
 * Returns the largest value among all values
 * produced by [selector] function\n * applied to each element in the array.\n * @throws NoSuchElementException if the array is empty.\n
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun <T> ByArray<out T>.maxOfOrNull(selector: (T) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue
}

/**
 * Returns the largest value among all values
 * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * @throws NoSuchElementException if the array is empty.\n
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun <T> CharArray.maxOfOrNull(selector: (Char) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue
}

/**
 * Returns the largest value among all values
 * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * @throws NoSuchElementException if the array is empty.\n
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun <T> BooleanArray.maxOfOrNull(selector: (Boolean) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue
}

/**
 * Returns the largest value among all values
 * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * @throws NoSuchElementException if the array is empty.\n
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun <T> IntArray.maxOfOrNull(selector: (Int) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue
}

/**
 * Returns the largest value among all values
 * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * @throws NoSuchElementException if the array is empty.\n
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly
public inline fun <T> ShortArray.maxOfOrNull(selector: (Short) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue
}
the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n  * \n  * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n  */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(selector: (Short) -> Double): Double? {
    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {
        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}

/**
 * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n  * \n  * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n  */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOfOrNull(selector: (Int) -> Double): Double? {
    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {
        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}

/**
 * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n  * \n  * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n  */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOfOrNull(selector: (Long) -> Double): Double? {
    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {
        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}

/**
 * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n  * \n  * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n  */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOfOrNull(selector: (Float) -> Double): Double? {
    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {
        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}

/**
 * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n  * \n  * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n  */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOfOrNull(selector: (Double) -> Double): Double? {
    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {
        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}

/**
 * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n  * \n  * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n  */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOfOrNull(selector: (Boolean) -> Double): Double? {
    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {
        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}

/**
 * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n  * \n  * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n  */
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOfOrNull(selector: (Char) -> Double): Double? {
    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {
        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}
val v = selector(this[i])
    maxValue = maxOf(maxValue, v)
} return maxValue

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.maxOfOrNull(selector: (T) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.maxOfOrNull(selector: (Byte) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ShortArray.maxOfOrNull(selector: (Short) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun IntArray.maxOfOrNull(selector: (Int) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun LongArray.maxOfOrNull(selector: (Long) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun FloatArray.maxOfOrNull(selector: (Float) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun DoubleArray.maxOfOrNull(selector: (Double) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
(Double) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun BooleanArray.maxOfOrNull(selector: (Boolean) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun CharArray.maxOfOrNull(selector: (Char) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Array<out T>.maxOfOrNull(selector: (T) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ByteArray.maxOfOrNull(selector: (Byte) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ShortArray.maxOfOrNull(selector: (Short) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> IntArray.maxOfOrNull(selector: (Int) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> LongArray.maxOfOrNull(selector: (Long) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}
FloatArray.maxOfOrNull(selector: (Float) -> R): R? { 
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { 
        val v = selector(this[i])
        if (maxValue < v) { 
            maxValue = v
        }
    }
    return maxValue
}

DoubleArray.maxOfOrNull(selector: (Double) -> R): R? { 
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { 
        val v = selector(this[i])
        if (maxValue < v) { 
            maxValue = v
        }
    }
    return maxValue
}

BooleanArray.maxOfOrNull(selector: (Boolean) -> R): R? { 
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { 
        val v = selector(this[i])
        if (maxValue < v) { 
            maxValue = v
        }
    }
    return maxValue
}

CharArray.maxOfOrNull(selector: (Char) -> R): R? { 
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { 
        val v = selector(this[i])
        if (maxValue < v) { 
            maxValue = v
        }
    }
    return maxValue
}

Array.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R { 
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { 
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) { 
            maxValue = v
        }
    }
    return maxValue
}

ByteArray.maxOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R { 
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { 
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) { 
            maxValue = v
        }
    }
    return maxValue
}

ShortArray.maxOfWith(comparator: Comparator<in R>, selector: (Short) -> R): R { 
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) { 
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) { 
            maxValue = v
        }
    }
    return maxValue
}
ByLambdaReturnType

inline fun <R> IntArray.maxOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector]
 * function applied to each element in the array. *
 */
inline fun <R> LongArray.maxOfWith(comparator: Comparator<in R>, selector: (Long) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector]
 * function applied to each element in the array. *
 */
inline fun <R> FloatArray.maxOfWith(comparator: Comparator<in R>, selector: (Float) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector]
 * function applied to each element in the array. *
 */
inline fun <R> DoubleArray.maxOfWith(comparator: Comparator<in R>, selector: (Double) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector]
 * function applied to each element in the array or `null` if there are no elements. *
 */
inline fun <T, R> Array<out T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}
ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? { \n    if (isEmpty()) return null \n    var maxValue = selector(this[0]) for (i in 1..lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) { \n            maxValue = v \n        } \n    } \n    return maxValue \n} /*
Returns the largest value according to the provided [comparator] \n* among all values produced by [selector] function applied to each element in the array or ‘null’ if there are no elements.\n*/

ShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? { \n    if (isEmpty()) return null \n    var maxValue = selector(this[0]) for (i in 1..lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) { \n            maxValue = v \n        } \n    } \n    return maxValue \n} /*
Returns the largest value according to the provided [comparator] \n* among all values produced by [selector] function applied to each element in the array or ‘null’ if there are no elements.\n*/

IntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? { \n    if (isEmpty()) return null \n    var maxValue = selector(this[0]) for (i in 1..lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) { \n            maxValue = v \n        } \n    } \n    return maxValue \n} /*
Returns the largest value according to the provided [comparator] \n* among all values produced by [selector] function applied to each element in the array or ‘null’ if there are no elements.\n*/

LongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? { \n    if (isEmpty()) return null \n    var maxValue = selector(this[0]) for (i in 1..lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) { \n            maxValue = v \n        } \n    } \n    return maxValue \n} /*
Returns the largest value according to the provided [comparator] \n* among all values produced by [selector] function applied to each element in the array or ‘null’ if there are no elements.\n*/

FloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? { \n    if (isEmpty()) return null \n    var maxValue = selector(this[0]) for (i in 1..lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) { \n            maxValue = v \n        } \n    } \n    return maxValue \n} /*
Returns the largest value according to the provided [comparator] \n* among all values produced by [selector] function applied to each element in the array or ‘null’ if there are no elements.\n*/

BooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? { \n    if (isEmpty()) return null \n    var maxValue = selector(this[0]) for (i in 1..lastIndex) { \n        val v = selector(this[i]) \n        if (comparator.compare(maxValue, v) < 0) { \n            maxValue = v \n        } \n    } \n    return maxValue \n} /*
Returns the largest value according to the provided [comparator] \n* among all values produced by [selector] function applied to each element in the array or ‘null’ if there are no elements.\n*/
function applied to each element in the array or `null` if there are no elements.\n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\n@public inline fun <R>\n\nCharArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n*\nReturns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n* \n* \n* Returns the largest element or `null` if there are no elements.\n
ReplaceWith("maxWithOrNull(comparator)")

@DeprecatedSinceKotlin(warningSince = "1.4")
public fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {
    return maxWithOrNull(comparator)
}

@ Deprecated("Use maxWithOrNull instead.",
ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {
    return maxWithOrNull(comparator)
}

@ Deprecated("Use maxWithOrNull instead.",
ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double? {
    return maxWithOrNull(comparator)
}

@ Deprecated("Use maxWithOrNull instead.",
ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean? {
    return maxWithOrNull(comparator)
}

ReplaceWith("maxWithOrNull(comparator)")

/**
 * Returns the first element having the largest value according to the
 * provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun <T> Array<out T>.maxWithOrNull(comparator: Comparator<in T>): T? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the
 * provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun ByteArray.maxWithOrNull(comparator: Comparator<in Byte>): Byte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the
 * provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun ShortArray.maxWithOrNull(comparator: Comparator<in Short>): Short? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the
 * provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun IntArray.maxWithOrNull(comparator: Comparator<in Int>): Int? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the
 * provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun LongArray.maxWithOrNull(comparator: Comparator<in Long>): Long? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the
 * provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the
 * provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun DoubleArray.maxWithOrNull(comparator: Comparator<in Double>): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the
 * provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>): Boolean? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the
 * provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun CharArray.maxWithOrNull(comparator: Comparator<in Char>): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
if (isEmpty()) return null
var max = this[0]
for (i in 1..lastIndex) {
    val e = this[i]
    if (comparator.compare(max, e) < 0) max = e
}
return max
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public fun Array<out Double>.min(): Double? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun ByteArray.min(): Byte? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun ShortArray.min(): Short? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun IntArray.min(): Int? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun LongArray.min(): Long? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun FloatArray.min(): Float? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun DoubleArray.min(): Double? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun CharArray.min(): Char? {
    return minOrNull()
}

/**

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*/
* Returns the first element yielding the smallest value of the given function or `null` if there are no elements.

```kotlin
@SinceKotlin("1.4")
public inline fun <T, R : Comparable<R>> Array<out T>.minByOrNull(selector: (T) -> R): T? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (minValue > v)
            minElem = e
            minValue = v
    }
    return minElem
}
```

```kotlin
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> BooleanArray.minByOrNull(selector: (Boolean) -> R): Boolean? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (minValue > v)
            minElem = e
            minValue = v
    }
    return minElem
}
```

```kotlin
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> DoubleArray.minByOrNull(selector: (Double) -> R): Double? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (minValue > v)
            minElem = e
            minValue = v
    }
    return minElem
}
```

```kotlin
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> FloatArray.minByOrNull(selector: (Float) -> R): Float? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (minValue > v)
            minElem = e
            minValue = v
    }
    return minElem
}
```

```kotlin
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R): Int? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (minValue > v)
            minElem = e
            minValue = v
    }
    return minElem
}
```

```kotlin
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> LongArray.minByOrNull(selector: (Long) -> R): Long? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (minValue > v)
            minElem = e
            minValue = v
    }
    return minElem
}
```

```kotlin
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> ByteArray.minByOrNull(selector: (Byte) -> R): Byte? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (minValue > v)
            minElem = e
            minValue = v
    }
    return minElem
}
```
Returns the first element yielding the smallest value of the given function or `null` if there are no elements.

```kotlin
*\[@SinceKotlin("1.4\")\]@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@inline\npublic inline fun CharArray.minByOrNull(selector: (Char) -> R): Char? { \n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) { \n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) { \n            minElem = e\n            minValue = v\n        } \n    } \n    return minElem \n}
```

Returns the smallest value among all values produced by [selector] function applied to each element in the array.

```kotlin
*\[@SinceKotlin("1.4\")\]@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@inline\npublic inline fun <T> Array<out T>.minOf(selector: (T) -> Double): Double { \n    if (isEmpty()) throw NoSuchElementException() \n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        minValue = minOf(minValue, v) \n    } \n    return minValue \n}
```

Returns the smallest value among all values produced by [selector] function applied to each element in the array.

```kotlin
*\[@SinceKotlin("1.4\")\]@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@inline\npublic inline fun ByteArray.minOf(selector: (Byte) -> Double): Double { \n    if (isEmpty()) throw NoSuchElementException() \n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        minValue = minOf(minValue, v) \n    } \n    return minValue \n}
```

Returns the smallest value among all values produced by [selector] function applied to each element in the array.

```kotlin
*\[@SinceKotlin("1.4\")\]@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@inline\npublic inline fun ShortArray.minOf(selector: (Short) -> Double): Double { \n    if (isEmpty()) throw NoSuchElementException() \n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        minValue = minOf(minValue, v) \n    } \n    return minValue \n}
```

Returns the smallest value among all values produced by [selector] function applied to each element in the array.

```kotlin
*\[@SinceKotlin("1.4\")\]@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@inline\npublic inline fun IntArray.minOf(selector: (Int) -> Double): Double { \n    if (isEmpty()) throw NoSuchElementException() \n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        minValue = minOf(minValue, v) \n    } \n    return minValue \n}
```

Returns the smallest value among all values produced by [selector] function applied to each element in the array.

```kotlin
*\[@SinceKotlin("1.4\")\]@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@inline\npublic inline fun LongArray.minOf(selector: (Long) -> Double): Double { \n    if (isEmpty()) throw NoSuchElementException() \n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        minValue = minOf(minValue, v) \n    } \n    return minValue \n}
```

Returns the smallest value among all values produced by [selector] function applied to each element in the array.

```kotlin
*\[@SinceKotlin("1.4\")\]@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@inline\npublic inline fun FloatArray.minOf(selector: (Float) -> Double): Double { \n    if (isEmpty()) throw NoSuchElementException() \n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) { \n        val v = selector(this[i])\n        minValue = minOf(minValue, v) \n    } \n    return minValue \n}
```
minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array. If any of values produced by [selector] function
 * is NaN, the returned result is NaN. If any of values produced by [selector] function
 * is NaN, the returned result is NaN.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun DoubleArray.minOf(selector: (Double) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array. If any of values produced by [selector] function
 * is NaN, the returned result is NaN.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun BooleanArray.minOf(selector: (Boolean) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array. If any of values produced by [selector] function
 * is NaN, the returned result is NaN.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharArray.minOf(selector: (Char) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array. If any of values produced by [selector] function
 * is NaN, the returned result is NaN.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.minOf(selector: (T) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array. If any of values produced by [selector] function
 * is NaN, the returned result is NaN.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.minOf(selector: (Byte) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array. If any of values produced by [selector] function
 * is NaN, the returned result is NaN.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ShortArray.minOf(selector: (Short) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array. If any of values produced by [selector] function
 * is NaN, the returned result is NaN.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun IntArray.minOf(selector: (Int) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
1..lastIndex) { 
    val v = selector(this[i])
    minValue = minOf(minValue, v)
} return

minValue

/**
 * Returns the smallest value among all values produced by 
 * [selector] function * applied to each element in the array.
 */
val minValue = minOf(selector, this)

/**
 * Returns the smallest value among all values produced by 
 * [selector] function * applied to each element in the array.
 */
val minValue = minOf(selector, this)

/**
 * Returns the smallest value among all values produced by 
 * [selector] function * applied to each element in the array.
 */
val minValue = minOf(selector, this)

/**
 * Returns the smallest value among all values produced by 
 * [selector] function * applied to each element in the array.
 */
val minValue = minOf(selector, this)

/**
 * Returns the smallest value among all values produced by 
 * [selector] function * applied to each element in the array.
 */
val minValue = minOf(selector, this)

/**
 * Returns the smallest value among all values produced by 
 * [selector] function * applied to each element in the array.
 */
val minValue = minOf(selector, this)

/**
 * Returns the smallest value among all values produced by 
 * [selector] function * applied to each element in the array.
 */
val minValue = minOf(selector, this)

/**
 * Returns the smallest value among all values produced by 
 * [selector] function * applied to each element in the array.
 */
val minValue = minOf(selector, this)
= selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) if (minValue > v) { minValue = v } } return minValue

Returns the smallest value among all values produced by [selector] function

* @throws NoSuchElementException if the array is empty

* @SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution ByValLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ShortArray.minOf(selector: (Short) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) if (minValue > v) { minValue = v } } return minValue

Returns the smallest value among all values produced by [selector] function

* @throws NoSuchElementException if the array is empty

* @SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution ByValLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> IntArray.minOf(selector: (Int) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) if (minValue > v) { minValue = v } } return minValue

Returns the smallest value among all values produced by [selector] function

* @throws NoSuchElementException if the array is empty

* @SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution ByValLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> LongArray.minOf(selector: (Long) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) if (minValue > v) { minValue = v } } return minValue

Returns the smallest value among all values produced by [selector] function

* @throws NoSuchElementException if the array is empty

* @SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution ByValLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> FloatArray.minOf(selector: (Float) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) if (minValue > v) { minValue = v } } return minValue

Returns the smallest value among all values produced by [selector] function

* @throws NoSuchElementException if the array is empty

* @SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution ByValLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> DoubleArray.minOf(selector: (Double) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) if (minValue > v) { minValue = v } } return minValue

Returns the smallest value among all values produced by [selector] function

* @throws NoSuchElementException if the array is empty

* @SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution ByValLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> BooleanArray.minOf(selector: (Boolean) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) if (minValue > v) { minValue = v } } return minValue

Returns the smallest value among all values produced by [selector] function

* @throws NoSuchElementException if the array is empty

* @SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution ByValLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.minOf(selector: (Char) -> R): R

1. if (isEmpty()) throwNoSuchElementException()
2. var minValue = selector(this[0])
3. for (i in 1..lastIndex) {
4.     val v = selector(this[i])
5.     if (minValue > v) {
6.         minValue = v
7.     }
8. }
9. return minValue

Returns the smallest value among all values produced by [selector] function applied to each element in the array or 'null' if there are no elements. *null* If any of values produced by [selector] function is 'NaN', the returned result is 'NaN'.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Array<T>.minOfOrNull(selector: (T) -> Double?): Double? {
1.     if (isEmpty()) return null
2.     var minValue = selector(this[0])
3.     for (i in 1..lastIndex) {
4.         val v = selector(this[i])
5.         minValue = minOf(minValue, v)
6.     }
7.     return minValue
}

Returns the smallest value among all values produced by [selector] function applied to each element in the array or 'null' if there are no elements. *null* If any of values produced by [selector] function is 'NaN', the returned result is 'NaN'.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.minOfOrNull(selector: (Byte) -> Double): Double? {
1.     if (isEmpty()) return null
2.     var minValue = selector(this[0])
3.     for (i in 1..lastIndex) {
4.         val v = selector(this[i])
5.         minValue = minOf(minValue, v)
6.     }
7.     return minValue
}

Returns the smallest value among all values produced by [selector] function applied to each element in the array or 'null' if there are no elements. *null* If any of values produced by [selector] function is 'NaN', the returned result is 'NaN'.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ShortArray.minOfOrNull(selector: (Short) -> Double): Double? {
1.     if (isEmpty()) return null
2.     var minValue = selector(this[0])
3.     for (i in 1..lastIndex) {
4.         val v = selector(this[i])
5.         minValue = minOf(minValue, v)
6.     }
7.     return minValue
}

Returns the smallest value among all values produced by [selector] function applied to each element in the array or 'null' if there are no elements. *null* If any of values produced by [selector] function is 'NaN', the returned result is 'NaN'.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun IntArray.minOfOrNull(selector: (Int) -> Double): Double? {
1.     if (isEmpty()) return null
2.     var minValue = selector(this[0])
3.     for (i in 1..lastIndex) {
4.         val v = selector(this[i])
5.         minValue = minOf(minValue, v)
6.     }
7.     return minValue
}

Returns the smallest value among all values produced by [selector] function applied to each element in the array or 'null' if there are no elements. *null* If any of values produced by [selector] function is 'NaN', the returned result is 'NaN'.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun LongArray.minOfOrNull(selector: (Long) -> Double): Double? {
1.     if (isEmpty()) return null
2.     var minValue = selector(this[0])
3.     for (i in 1..lastIndex) {
4.         val v = selector(this[i])
5.         minValue = minOf(minValue, v)
6.     }
7.     return minValue
}

Returns the smallest value among all values produced by [selector] function applied to each element in the array or 'null' if there are no elements. *null* If any of values produced by [selector] function is 'NaN', the returned result is 'NaN'.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun FloatArray.minOfOrNull(selector: (Float) -> Double): Double? {
1.     if (isEmpty()) return null
2.     var minValue = selector(this[0])
3.     for (i in 1..lastIndex) {
4.         val v = selector(this[i])
5.         minValue = minOf(minValue, v)
6.     }
7.     return minValue
}

Returns the smallest value among all values produced by [selector] function applied to each element in the array or 'null' if there are no elements. *null* If any of values produced by [selector] function is 'NaN', the returned result is 'NaN'.

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ByLambdaReturnType

public inline fun DoubleArray.minOfOrNull(selector: (Double) -> Double): Double? {
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        var v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
public inline fun BooleanArray.minOfOrNull(selector: (Boolean) -> Double): Double? {
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        var v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
public inline fun CharArray.minOfOrNull(selector: (Char) -> Double): Double? {
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
public inline fun <T> Array<out T>.minOfOrNull(selector: (T) -> Float): Float? {
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
public inline fun ByteArray.minOfOrNull(selector: (Byte) -> Float): Float? {
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
public inline fun ShortArray.minOfOrNull(selector: (Short) -> Float): Float? {
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
public inline fun IntArray.minOfOrNull(selector: (Int) -> Float): Float? {
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun LongArray.minOfOrNull(selector: (Long) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun FloatArray.minOfOrNull(selector: (Float) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun DoubleArray.minOfOrNull(selector: (Double) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun BooleanArray.minOfOrNull(selector: (Boolean) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun CharArray.minOfOrNull(selector: (Char) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun <T, R : Comparable<R>> Array<out T>.minOfOrNull(selector: (T) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun <R : Comparable<R>> ByteArray.minOfOrNull(selector: (Byte) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}
```

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ShortArray.minOfOrNull(selector: (Short) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
IntArray.minOfOrNull(selector: (Int) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
LongArray.minOfOrNull(selector: (Long) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
FloatArray.minOfOrNull(selector: (Float) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
DoubleArray.minOfOrNull(selector: (Double) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
BooleanArray.minOfOrNull(selector: (Boolean) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
CharArray.minOfOrNull(selector: (Char) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced
 * by [selector] function * applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}
the array is empty.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun <R> ByteArray.minOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun <R> ShortArray.minOfWith(comparator: Comparator<in R>, selector: (Short) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun <R> IntArray.minOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun <R> LongArray.minOfWith(comparator: Comparator<in R>, selector: (Long) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun <R> FloatArray.minOfWith(comparator: Comparator<in R>, selector: (Float) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun <R> DoubleArray.minOfWith(comparator: Comparator<in R>, selector: (Double) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@InlineOnly
public inline fun <R> BooleanArray.minOfWith(comparator: Comparator<in R>, selector: (Boolean) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}
```

---

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Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> CharArray.minOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}
```

Cette méthode retourne la valeur la plus petite suivant le comparateur fourni parmi toutes les valeurs produites par la fonction de sélection appliquée à chaque élément de l'array. Si l'array est vide, une exception `NoSuchElementException` est levée.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}
```

Cette méthode retourne la valeur la plus petite suivant le comparateur fourni parmi toutes les valeurs produites par la fonction de sélection appliquée à chaque élément de l'array, ou `null` si l'array est vide.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> ByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}
```

Cette méthode retourne la valeur la plus petite suivant le comparateur fourni parmi toutes les valeurs produites par la fonction de sélection appliquée à chaque élément de l'array, ou `null` si l'array est vide.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> ShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}
```

Cette méthode retourne la valeur la plus petite suivant le comparateur fourni parmi toutes les valeurs produites par la fonction de sélection appliquée à chaque élément de l'array, ou `null` si l'array est vide.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> IntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}
```

Cette méthode retourne la valeur la plus petite suivant le comparateur fourni parmi toutes les valeurs produites par la fonction de sélection appliquée à chaque élément de l'array, ou `null` si l'array est vide.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> LongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}
```

Cette méthode retourne la valeur la plus petite suivant le comparateur fourni parmi toutes les valeurs produites par la fonction de sélection appliquée à chaque élément de l'array, ou `null` si l'array est vide.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}
```

Cette méthode retourne la valeur la plus petite suivant le comparateur fourni parmi toutes les valeurs produites par la fonction de sélection appliquée à chaque élément de l'array, ou `null` si l'array est vide.
(comparator.compare(minValue, v) > 0) { 
    minValue = v 
    return minValue 
} 

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun <R> 
DoubleArray.minOfOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? { 
    if (isEmpty()) return null 
    var min = selector(this[0]) 
    for (i in 1..lastIndex) { 
        val v = selector(this[i]) 
        if (comparator.compare(min, v) > 0) { 
            min = v 
        } 
    } 
    return min 
}

**Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.**

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun <R> 
BooleanArray.minOfOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? { 
    if (isEmpty()) return null 
    var min = selector(this[0]) 
    for (i in 1..lastIndex) { 
        val v = selector(this[i]) 
        if (comparator.compare(min, v) > 0) { 
            min = v 
        } 
    } 
    return min 
}

**Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.**

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun <R> 
CharArray.minOfOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? { 
    if (isEmpty()) return null 
    var min = selector(this[0]) 
    for (i in 1..lastIndex) { 
        val v = selector(this[i]) 
        if (comparator.compare(min, v) > 0) { 
            min = v 
        } 
    } 
    return min 
}

**Returns the smallest value or `null` if there are no elements.**

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun <T : Comparable<T>> 
ByteArray.minOrNull(): Byte? { 
    if (isEmpty()) return null 
    var min = this[0] 
    for (i in 1..lastIndex) { 
        val e = this[i] 
        if (min > e) min = e 
    } 
    return min 
}

**Returns the smallest element or `null` if there are no elements.**

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun <T : Comparable<T>> 
ShortArray.minOrNull(): Short? { 
    if (isEmpty()) return null 
    var min = this[0] 
    for (i in 1..lastIndex) { 
        val e = this[i] 
        if (min > e) min = e 
    } 
    return min 
}

**Returns the smallest element or `null` if there are no elements.**

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun <T : Comparable<T>> 
IntArray.minOrNull(): Int? { 
    if (isEmpty()) return null 
    var min = this[0] 
    for (i in 1..lastIndex) { 
        val e = this[i] 
        if (min > e) min = e 
    } 
    return min 
}

**Returns the smallest element or `null` if there are no elements.**

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun <T : Comparable<T>> 
LongArray.minOrNull(): Long? { 
    if (isEmpty()) return null 
    var min = this[0] 
    for (i in 1..lastIndex) { 
        val e = this[i] 
        if (min > e) min = e 
    } 
    return min 
}

**Returns the smallest element or `null` if there are no elements.**

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun <T : Comparable<T>> 
FloatArray.minOrNull(): Float? { 
    if (isEmpty()) return null 
    var min = this[0] 
    for (i in 1..lastIndex) { 
        val e = this[i] 
        if (min > e) min = e 
    } 
    return min 
}

**Returns the smallest element or `null` if there are no elements.**

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly@public inline fun <T : Comparable<T>> 
DoubleArray.minOrNull(): Double? { 
    if (isEmpty()) return null 
    var min = this[0] 
    for (i in 1..lastIndex) { 
        val e = this[i] 
        if (min > e) min = e 
    } 
    return min 
}

**Returns the smallest element or `null` if there are no elements.**
/**
 * Returns the smallest element or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun CharArray.minOrNull(): Char?
 * @n if (isEmpty()) return null
 * val min = this[0]
 * for (i in 1..lastIndex) {
 *   val e = this[i]
 *   if (min > e) min = e
 * } return min
 * }

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun <T> Array<T>.minWith(comparator: Comparator<T>): T?
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun ByteArray.minWith(comparator: Comparator<Byte>): Byte?
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun ShortArray.minWith(comparator: Comparator<Short>): Short?
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun IntArray.minWith(comparator: Comparator<Int>): Int?
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun LongArray.minWith(comparator: Comparator<Long>): Long?
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun FloatArray.minWith(comparator: Comparator<Float>): Float?
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun DoubleArray.minWith(comparator: Comparator<Double>): Double?
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun BooleanArray.minWith(comparator: Comparator<Boolean>): Boolean?
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun CharArray.minWith(comparator: Comparator<Char>): Char?
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun IntArray.minWithOrNull(comparator: Comparator<Int>): Int
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun ByteArray.minWithOrNull(comparator: Comparator<Byte>): Byte
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun ShortArray.minWithOrNull(comparator: Comparator<Short>): Short
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun IntArray.minWithOrNull(comparator: Comparator<Int>): Int
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun LongArray.minWithOrNull(comparator: Comparator<Long>): Long
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun FloatArray.minWithOrNull(comparator: Comparator<Float>): Float
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun DoubleArray.minWithOrNull(comparator: Comparator<Double>): Double
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun BooleanArray.minWithOrNull(comparator: Comparator<Boolean>): Boolean
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.

 * @SinceKotlin("1.4")
 * @public fun CharArray.minWithOrNull(comparator: Comparator<Char>): Char
 * @n if (isEmpty()) return null

 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
if (isEmpty()) return null
var min = this[0]
for (i in 1..lastIndex) {
    var e = this[i]
    if (comparator.compare(min, e) > 0) min = e
}
return min

/**
 * Returns the first element having the smallest value according to the provided comparator or null if there are no elements.
 */
@SinceKotlin("1.4")
public fun FloatArray.minWithOrNull(comparator: Comparator<Float>): Float? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided comparator or null if there are no elements.
 */
@SinceKotlin("1.4")
public fun DoubleArray.minWithOrNull(comparator: Comparator<Double>): Double? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided comparator or null if there are no elements.
 */
@SinceKotlin("1.4")
public fun BooleanArray.minWithOrNull(comparator: Comparator<Boolean>): Boolean? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided comparator or null if there are no elements.
 */
@SinceKotlin("1.4")
public fun CharArray.minWithOrNull(comparator: Comparator<Char>): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        var e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public fun <T> Array<out T>.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if no elements match the given predicate.
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun <T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/*@SinceKotlin("1.4")*/

samples.collections.Collections.Aggregates.noneWithPredicate

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun FloatArray.none(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun CharArray.none(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.onEachIndexed(action: (Int, T) -> Unit): Array<out T> {
    return apply { forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun ByteArray.onEachIndexed(action: (Byte) -> Unit): ByteArray {
    return apply { forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun ShortArray.onEachIndexed(action: (Short) -> Unit): ShortArray {
    return apply { forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun IntArray.onEachIndexed(action: (Int) -> Unit): IntArray {
    return apply { forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun LongArray.onEachIndexed(action: (Long) -> Unit): LongArray {
    return apply { forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun FloatArray.onEachIndexed(action: (Float) -> Unit): FloatArray {
    return apply { forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun DoubleArray.onEachIndexed(action: (Double) -> Unit): DoubleArray {
    return apply { forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun CharArray.onEachIndexed(action: (Char) -> Unit): CharArray {
    return apply { forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * 
 * @param [action] function that takes the index of an element and the element itself \n * and performs the action on
 * the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on
 * the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on
 * the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on
 * the element.\n */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <T> Array<T>.onEachIndexedIndexed(action: (Int, Int, T) -> Unit): Array<T> {
    return apply { forEachIndexedIndexed(action) }
}
inline fun ByteArray.onEachIndexed(action: (index: Int, Byte) -> Unit): ByteArray {
    return apply {
        forEachIndexed(action)
    }
}

/**
 * Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
inline fun ShortArray.onEachIndexed(action: (index: Int, Short) -> Unit): ShortArray {
    return apply {
        forEachIndexed(action)
    }
}

/**
 * Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun IntArray.onEachIndexed(action: (index: Int, Int) -> Unit): IntArray {
    return apply {
        forEachIndexed(action)
    }
}

/**
 * Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun LongArray.onEachIndexed(action: (index: Int, Long) -> Unit): LongArray {
    return apply {
        forEachIndexed(action)
    }
}

/**
 * Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun FloatArray.onEachIndexed(action: (index: Int, Float) -> Unit): FloatArray {
    return apply {
        forEachIndexed(action)
    }
}

/**
 * Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun DoubleArray.onEachIndexed(action: (index: Int, Double) -> Unit): DoubleArray {
    return apply {
        forEachIndexed(action)
    }
}

/**
 * Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun BooleanArray.onEachIndexed(action: (index: Int, Boolean) -> Unit): BooleanArray {
    return apply {
        forEachIndexed(action)
    }
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator


Accumulates value starting with the first element and applying \([\text{operation}]\) from left to right to each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * \n * please use \([\text{reduceOrNull}]\) instead. It returns `null` when its receiver is empty.\n * \n * @param \([\text{operation}]\) function that takes current accumulator value and an element,\n * \n * and calculates the next accumulator value.\n * \n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */
public inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying \([\text{operation}]\) from left to
 * each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * \n * please use \([\text{reduceIndexedOrNull}]\) instead. It returns `null` when its receiver is empty.\n * \n * @param \([\text{operation}]\) function that takes the index of an element, current
 * \n * accumulator value and the element itself,\n * \n * and calculates the next accumulator value.\n * \n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */
public inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying \([\text{operation}]\) from left to
 * right to each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * \n * please use \([\text{reduceIndexedOrNull}]\) instead. It returns `null` when its receiver is empty.\n * \n * @param \([\text{operation}]\) function that takes the index of an element, current
 * \n * accumulator value and the element itself,\n * \n * and calculates the next accumulator value.\n * \n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */
public inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying \([\text{operation}]\) from left to
 * right to each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * \n * please use \([\text{reduceIndexedOrNull}]\) instead. It returns `null` when its receiver is empty.\n * \n * @param \([\text{operation}]\) function that takes the index of an element, current
 * \n * accumulator value and the element itself,\n * \n * and calculates the next accumulator value.\n * \n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */
public inline fun ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying \([\text{operation}]\) from left to
 * right to each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * \n * please use \([\text{reduceIndexedOrNull}]\) instead. It returns `null` when its receiver is empty.\n * \n * @param \([\text{operation}]\) function that takes the index of an element, current
 * \n * accumulator value and the element itself,\n * \n * and calculates the next accumulator value.\n * \n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */
public inline fun IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
element, current accumulator value and the element itself, and calculates the next accumulator value.

```java
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```

```java
/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```

```java
/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```

```java
/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```

```java
/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```

```java
/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun Array<out T>.reduceIndexedOrNull(operation: (index: Int, acc: T, T) -> T): T? {
    if (isEmpty())
        return null
    var accumulator: T = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index,
accumulator, this[index])
) return accumulator

// Accumulates value starting with the first element and applying [operation] from left to right
// to current accumulator value and each element with its index in the original array.
// * Returns \texttt{null} if the array is empty.
// * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
// and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduceOrNull

@annotation
public inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * * Returns \texttt{null} if the array is empty.
 * * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator value.
 * * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
public inline fun ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short, Short) -> Short): Short? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * * Returns \texttt{null} if the array is empty.
 * * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator value.
 * * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
public inline fun IntArray.reduceIndexedOrNull(operation: (index: Int, acc: Int, Int) -> Int): Int? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * * Returns \texttt{null} if the array is empty.
 * * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator value.
 * * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * * Returns \texttt{null} if the array is empty.
 * * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator value.
 * * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
public inline fun FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * * Returns \texttt{null} if the array is empty.
 * * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator value.
 * * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
public inline fun DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc: Double, Double) -> Double): Double? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
value and the element itself,\n * and calculates the next accumulator value,\n * \n * @sample

```kotlin
samples.collections.Collections.Aggregates.reduceOrNull

@SinceKotlin("1.4")
public inline fun

BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean?

{ \n    if (isEmpty()) \n        return null
    var accumulator = this[0] \n    for (index in 1..lastIndex) \n    { \n        accumulator = operation(index, accumulator, this[index]) \n    } \n    return accumulator
}
```

*\n@SinceKotlin("1.4")\n
```kotlin
public inline fun

CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char?

{ \n    if (isEmpty()) \n        return null
    var accumulator = this[0] \n    for (index in 1..lastIndex) \n    { \n        accumulator = operation(index, accumulator, this[index]) \n    } \n    return accumulator
}
```

*\n@SinceKotlin("1.4")\n
```kotlin
public inline fun

Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S?

{ \n    if (isEmpty()) \n        return null
    var accumulator: S = this[0] \n    for (index in 1..lastIndex) \n    { \n        accumulator = operation(accumulator, this[index]) \n    } \n    return accumulator
}
```

*\n@SinceKotlin("1.4")\n
```kotlin
public inline fun

ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte?

{ \n    if (isEmpty()) \n        return null
    var accumulator = this[0] \n    for (index in 1..lastIndex) \n    { \n        accumulator = operation(accumulator, this[index]) \n    } \n    return accumulator
}
```

*\n@SinceKotlin("1.4")\n
```kotlin
public inline fun

ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short?

{ \n    if (isEmpty()) \n        return null
    var accumulator = this[0] \n    for (index in 1..lastIndex) \n    { \n        accumulator = operation(accumulator, this[index]) \n    } \n    return accumulator
}
```

*\n@SinceKotlin("1.4")\n
```kotlin
public inline fun

IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int?

{ \n    if (isEmpty()) \n        return null
    var accumulator = this[0] \n    for (index in 1..lastIndex) \n    { \n        accumulator = operation(accumulator, this[index]) \n    } \n    return accumulator
}
```

*\n@SinceKotlin("1.4")\n
```kotlin
public inline fun

LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long?

{ \n    if (isEmpty()) \n        return null
    var accumulator = this[0] \n    for (index in 1..lastIndex) \n    { \n        accumulator = operation(accumulator, this[index]) \n    } \n    return accumulator
}
```

*\n@SinceKotlin("1.4")\n
```kotlin
public inline fun

CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char?

{ \n    if (isEmpty()) \n        return null
    var accumulator = this[0] \n    for (index in 1..lastIndex) \n    { \n        accumulator = operation(index, accumulator, this[index]) \n    } \n    return accumulator
}
```
from left to right to current accumulator value and each element.

Returns `null` if the array is empty.

* @param [operation] function that takes current accumulator value and an element,

and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceOrNull

*\$\@SinceKotlin("1.4")\*@WasExperimental(ExperimentalStdlibApi::class)\*public inline fun

FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

Returns `null` if the array is empty.

* @param [operation] function that takes current accumulator value and an element,

and calculates the next accumulator value.

*\$\@SinceKotlin("1.4")\*@WasExperimental(ExperimentalStdlibApi::class)\*public inline fun

DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and

applying [operation] from left to right to current accumulator value and each element.

Returns `null` if the array is empty.

* @param [operation] function that takes current accumulator value and an element,

and calculates the next accumulator value.

*\$\@SinceKotlin("1.4")\*@WasExperimental(ExperimentalStdlibApi::class)\*public inline fun

BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to current accumulator value and each element.

Returns `null` if this array is empty. If the array can be empty in an expected way,

please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

* @param [operation] function that takes an element and current accumulator value,

and calculates the next accumulator value.

*\$\@SinceKotlin("1.4")\*@WasExperimental(ExperimentalStdlibApi::class)\*public inline fun

CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to current accumulator value and each element.

Throws an exception if this array is empty. If the array can be empty in an expected way,

please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

* @param [operation] function that takes an element and current accumulator value,

and calculates the next accumulator value.

@SinceKotlin("1.4")\*@WasExperimental(ExperimentalStdlibApi::class)\*public inline fun

ByteArray.reduceRight(operation: (acc: Byte, acc: Byte) -> Byte): Byte {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to current accumulator value and each element.

Throws an exception if this array is empty. If the array can be empty in an expected way,

please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

* @param [operation] function that takes an element and current accumulator value,

and calculates the next accumulator value.

@SinceKotlin("1.4")\*@WasExperimental(ExperimentalStdlibApi::class)\*public inline fun

ByteArray.reduceRight(operation: (acc: Byte, acc: Byte) -> Byte): Byte {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

Array.reduceRight(operation: (acc: T, acc: T) -> T): T {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
array can be empty in an expected way.\n\n* please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n
```java
public inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```java
/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```java
/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```java
/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```java
/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```java
/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element and current accumulator value.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator =
get(index--) while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n}\nreturn accumulator\n}/**\n * Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.\n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\npublic inline fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {
    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduceRightIndexedOrNull\n */\npublic inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {
    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduceRightIndexedOrNull\n */\npublic inline fun ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {
    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduceRightIndexedOrNull\n */\npublic inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {
    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}
/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * **Throws an exception if this array is empty. If the array can be empty in an expected way,**
 * please use [reduceRightIndexedOrNull] instead.
 * It returns `null` when its receiver is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value,
 * **and calculates the next accumulator value.**
 * **@param** [operation] function that takes the index of an element, the element itself and current accumulator value,
 * **and calculates the next accumulator value.**
 */
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)

    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }

    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * **Throws an exception if this array is empty. If the array can be empty in an expected way,**
 * please use [reduceRightIndexedOrNull] instead.
 * It returns `null` when its receiver is empty.
 */
public inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)

    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }

    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * **Throws an exception if this array is empty. If the array can be empty in an expected way,**
 * please use [reduceRightIndexedOrNull] instead.
 * It returns `null` when its receiver is empty.
 */
public inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)

    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }

    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * **Throws an exception if this array is empty. If the array can be empty in an expected way,**
 * please use [reduceRightIndexedOrNull] instead.
 * It returns `null` when its receiver is empty.
 */
public inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)

    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }

    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * **Throws an exception if this array is empty. If the array can be empty in an expected way,**
 * please use [reduceRightIndexedOrNull] instead.
 * It returns `null` when its receiver is empty.
 */
public inline fun CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator =
get(index--)\nwhile (index >= 0) {\n    get(index--)\n    accumulator = operation(index, get(index), accumulator)\n    accumulator = operation(index, get(index), accumulator)\n    --index\n\n} return accumulator\n
Returns `null` if the array is empty.\n
@sample
samples.collections.Collections.Aggregates.reduceRightOrNull
 */\@SinceKotlin("1.4")*/\public inline fun <S, T : S> Array<out T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S?): S? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = operation(index, get(index), accumulator)\n    --index\n    return accumulator\n
Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n
@sample
samples.collections.Collections.Aggregates.reduceRightOrNull
 */\@SinceKotlin("1.4")*/\public inline fun ByteArray.reduceRightIndexedOrNull(operation: (index: Int, Byte, Byte) -> Byte?): Byte? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = operation(index, get(index), accumulator)\n    --index\n    return accumulator\n
Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n
@sample
samples.collections.Collections.Aggregates.reduceRightOrNull
 */\@SinceKotlin("1.4")*/\public inline fun ShortArray.reduceRightIndexedOrNull(operation: (index: Int, Short, Short) -> Short?): Short? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = operation(index, get(index), accumulator)\n    --index\n    return accumulator\n
Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n
@sample
samples.collections.Collections.Aggregates.reduceRightOrNull
 */\@SinceKotlin("1.4")*/\public inline fun IntArray.reduceRightIndexedOrNull(operation: (index: Int, Int, Int) -> Int?): Int? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = operation(index, get(index), accumulator)\n    --index\n    return accumulator\n
Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n
@sample
samples.collections.Collections.Aggregates.reduceRightOrNull
 */\@SinceKotlin("1.4")*/\public inline fun LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, Long) -> Long?): Long? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = operation(index, get(index), accumulator)\n    --index\n    return accumulator\n
Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n
@sample
samples.collections.Collections.Aggregates.reduceRightOrNull
 */\@SinceKotlin("1.4")*/\public inline fun FloatArray.reduceRightIndexedOrNull(operation: (index: Int, Float, Float) -> Float?): Float? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = operation(index, get(index), accumulator)\n    --index\n    return accumulator\n
Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.
accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 *
 * Accumulates value starting with the last element and applying [operation] from right to left to each element with
 * its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value,
 * and calculates the next accumulator value.
 */
samples.collections.Collections.Aggregates.reduceRightOrNull

@SinceKotlin("1.4")
public inline fun DoubleArray.reduceRightIndexedOrNull(operation: (Index, Double, acc: Double): Double?)

@SinceKotlin("1.4")
public inline fun BooleanArray.reduceRightIndexedOrNull(operation: (Index, Boolean, acc: Boolean): Boolean?)

@SinceKotlin("1.4")
public inline fun CharArray.reduceRightIndexedOrNull(operation: (Index, Char, acc: Char): Char?)

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun Array<out T>.reduceRightOrNull(operation: (T, acc: S): S?)

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun ByteArray.reduceRightOrNull(operation: (Byte, acc: Byte): Byte?)

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun ShortArray.reduceRightOrNull(operation: (Short, acc: Short): Short?)

accumulator = operation(index, get(index), accumulator)
        --index
}
operation(get(index--), accumulator)
   return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.
 * Returns ‘null’ if the array is empty.
 * @param [operation] function that takes an element and current accumulator value and calculates the next accumulator value.
 * @param samples.collections.Collections.Aggregates.reduceRightOrNonNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.
 * Returns ‘null’ if the array is empty.
 * @param [operation] function that takes an element and current accumulator value and calculates the next accumulator value.
 * @param samples.collections.Collections.Aggregates.reduceRightOrNonNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.
 * Returns ‘null’ if the array is empty.
 * @param [operation] function that takes an element and current accumulator value and calculates the next accumulator value.
 * @param samples.collections.Collections.Aggregates.reduceRightOrNonNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.
 * Returns ‘null’ if the array is empty.
 * @param [operation] function that takes an element and current accumulator value and calculates the next accumulator value.
 * @param samples.collections.Collections.Aggregates.reduceRightOrNonNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.
 * Returns ‘null’ if the array is empty.
 * @param [operation] function that takes an element and current accumulator value and calculates the next accumulator value.
 * @param samples.collections.Collections.Aggregates.reduceRightOrNonNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.
 * Returns ‘null’ if the array is empty.
 * @param [operation] function that takes an element and current accumulator value and calculates the next accumulator value.
 * @param samples.collections.Collections.Aggregates.reduceRightOrNonNull
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun CharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation
operation(get(index--), accumulator)\n | return accumulator\n|\n\n/*\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * Note that \`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n *\n * @param \[operation\] function that takes current accumulator value and an element, and calculates the next accumulator value.\n *\n * @sample samples.collections.Collections.Aggregates.runningFold\n */
@SinceKotlin("1.4")\npublic inline fun <T, R> Array<out T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}

/**\n * Returns a list containing successive accumulation values generated by applying \n * [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n *\n * @param \[operation\] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */
@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.runningFold(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}

/**\n * Returns a list containing successive accumulation values generated by applying \n * [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n *\n * @param \[operation\] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */
@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.runningFold(initial: R, operation: (acc: R, Short) -> R): List<R> {\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}

/**\n * Returns a list containing successive accumulation values generated by applying \n * [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n *\n * @param \[operation\] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */
@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.runningFold(initial: R, operation: (acc: R, Int) -> R): List<R> {\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}

/**\n * Returns a list containing successive accumulation values generated by applying \n * [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n *\n * @param \[operation\] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */
@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.runningFold(initial: R, operation: (acc: R, Long) -> R): List<R> {\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}
function should not be mutated; otherwise it would affect the previous value in resulting list.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

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* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

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* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold
 *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    var result = ArrayList<R>(size + 1).apply { \n        add(initial) \n        var accumulator = initial\n        for (index in indices) { \n            accumulator = operation(index, accumulator, this[index])\n        }\n        return result}()}\n
@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    var result = ArrayList<R>(size + 1).apply { \n        add(initial) \n        var accumulator = initial\n        for (index in indices) { \n            accumulator = operation(index, accumulator, this[index])\n        }\n        return result}()}\n
@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    var result = ArrayList<R>(size + 1).apply { \n        add(initial) \n        var accumulator = initial\n        for (index in indices) { \n            accumulator = operation(index, accumulator, this[index])\n        }\n        return result}()}\n
@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    var result = ArrayList<R>(size + 1).apply { \n        add(initial) \n        var accumulator = initial\n        for (index in indices) { \n            accumulator = operation(index, accumulator, this[index])\n        }\n        return result}()}\n
@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    var result = ArrayList<R>(size + 1).apply { \n        add(initial) \n        var accumulator = initial\n        for (index in indices) { \n            accumulator = operation(index, accumulator, this[index])\n        }\n        return result}()}
DoubleArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> { if (isEmpty()) return listOf(initial) val result = ArrayList<R>(size + 1).apply { add(initial) } var accumulator = initial
for (index in indices) { accumulator = operation(index, accumulator, this[index])
    result.add(accumulator) }
    return result }

BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> { if (isEmpty()) return listOf(initial) val result = ArrayList<R>(size + 1).apply { add(initial) } var accumulator = initial
    for (index in indices) { accumulator = operation(index, accumulator, this[index])
        result.add(accumulator) }
        return result }

CharArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> { if (isEmpty()) return listOf(initial) val result = ArrayList<R>(size + 1).apply { add(initial) } var accumulator = initial
    for (index in indices) { accumulator = operation(index, accumulator, this[index])
        result.add(accumulator) }
        return result }

Array<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> { if (isEmpty()) return emptyList() var accumulator: S = this[0]
    val result = ArrayList<S>(size).apply { add(accumulator) }
    for (index in 1 until size) { accumulator = operation(accumulator, this[index])
        result.add(accumulator) }
        return result }

ByteArray.runningReduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> { if (isEmpty()) return emptyList() var accumulator = this[0]
    val result = ArrayList<Byte>(size).apply { add(accumulator) }
    for (index in 1 until size) { accumulator = operation(accumulator, this[index])
        result.add(accumulator) }
        return result }

**Note:** The Java version of the `runningFoldIndexed()` function takes an initial value and an operation function. The operation function should not be mutated, or it will affect the previous value in the result. The function calculates the next accumulator value based on the previous value and the current element, and the result is accumulated in a new list. The `runningFoldIndexed()` function is a generic function that works with different types of collections and arrays.
samples.collections.Collections.Aggregates.runningReduce

*\@SinceKotlin("1.4")*\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduce(operation: (acc: Short, Short) -> Short): List<Short> {
    \n    if (isEmpty()) return emptyList()
    \n    var accumulator = this[0]
    \n    val result = ArrayList<Short>(size).apply { add(accumulator) }
    \n    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    \n    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying \[operation\] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param \[operation\] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningReduce
*/

*\@SinceKotlin("1.4")*\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduce(operation: (acc: Int, Int) -> Int): List<Int> {
    if (isEmpty()) return emptyList()
    \n    var accumulator = this[0]
    \n    val result = ArrayList<Int>(size).apply { add(accumulator) }
    \n    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    \n    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying \[operation\] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param \[operation\] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningReduce
*/

*\@SinceKotlin("1.4")*\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.runningReduce(operation: (acc: Long, Long) -> Long): List<Long> {
    if (isEmpty()) return emptyList()
    \n    var accumulator = this[0]
    \n    val result = ArrayList<Long>(size).apply { add(accumulator) }
    \n    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    \n    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying \[operation\] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param \[operation\] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningReduce
*/

*\@SinceKotlin("1.4")*\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation: (acc: Float, Float) -> Float): List<Float> {
    if (isEmpty()) return emptyList()
    \n    var accumulator = this[0]
    \n    val result = ArrayList<Float>(size).apply { add(accumulator) }
    \n    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    \n    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying \[operation\] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param \[operation\] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningReduce
*/

*\@SinceKotlin("1.4")*\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduce(operation: (acc: Double, Double) -> Double): List<Double> {
    if (isEmpty()) return emptyList()
    \n    var accumulator = this[0]
    \n    val result = ArrayList<Double>(size).apply { add(accumulator) }
    \n    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    \n    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying \[operation\] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param \[operation\] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningReduce
*/

*\@SinceKotlin("1.4")*\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {
    if (isEmpty()) return emptyList()
    \n    var accumulator = this[0]
    \n    val result = ArrayList<Boolean>(size).apply { add(accumulator) }
    \n    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    \n    return result
}
value.

```kotlin
@sample samples.collections.Collections.Aggregates.runningReduce

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun CharArray.runningReduce(operation:
    (acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(size).apply {
        add(accumulator)
    }
    for (index in 0 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

@sample
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun CharArray.runningReduceIndexed(operation:
    (index: Int, acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(size).apply {
        add(accumulator)
    }
    for (index in 0 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun ByteArray.runningReduceIndexed(operation:
    (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Byte>(size).apply {
        add(accumulator)
    }
    for (index in 0 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun ShortArray.runningReduceIndexed(operation:
    (index: Int, acc: Short, Short) -> Short): List<Short> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Short>(size).apply {
        add(accumulator)
    }
    for (index in 0 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun IntArray.runningReduceIndexed(operation:
    (index: Int, acc: Int, Int) -> Int): List<Int> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Int>(size).apply {
        add(accumulator)
    }
    for (index in 0 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun LongArray.runningReduceIndexed(operation:
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Long>(size).apply {
        add(accumulator)
    }
    for (index in 0 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

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### FloatArray.runningReduceIndexed

```kotlin
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Float>(size).apply {
        add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

### DoubleArray.runningReduceIndexed

```kotlin
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun DoubleArray.runningReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Double>(size).apply {
        add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

### BooleanArray.runningReduceIndexed

```kotlin
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun BooleanArray.runningReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Boolean>(size).apply {
        add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

### CharArray.runningReduceIndexed

```kotlin
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun CharArray.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(size).apply {
        add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

### Array<out T>.scan

```kotlin
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <T, R> Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {
    return runningFold(initial, operation)
}
```
from left to right to each element and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

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Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
and an element, and calculates the next accumulator value.

```kotlin
public inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * from left to right\n * to each element and current accumulator value that starts with [initial]
 * value.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

```
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n @sample samples.collections.Collections.Aggregates.scan

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@unpublished inline fun <R> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}**\n* \n * Returns a list containing successive accumulation values
* generated by applying [operation] from left to right on * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] \n * \n * @sample samples.collections.Collections.Aggregates.scan

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@unpublished inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}**\n* \n * Returns a list containing successive accumulation values
* generated by applying [operation] from left to right on * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] \n * \n * @sample samples.collections.Collections.Aggregates.scan

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@unpublished inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}**\n* \n * Returns a list containing successive accumulation values
* generated by applying [operation] from left to right on * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] \n * \n * @sample samples.collections.Collections.Aggregates.scan

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@unpublished inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}**\n* \n * Returns a list containing successive accumulation values
* generated by applying [operation] from left to right on * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] \n * \n * @sample samples.collections.Collections.Aggregates.scan

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@unpublished inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}**\n* \n * Returns a list containing successive accumulation values
* generated by applying [operation] from left to right on * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] \n * \n * @sample samples.collections.Collections.Aggregates.scan

@Deprecated("Use runningReduce instead.",\nReplaceWith("runningReduce(operation)"), level =\nDeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\nunpublished inline fun <S, T : S>\nArray<out T>.reduce(operation: (acc: S, T) -> S): List<S> {\n    return runningReduce(operation)\n}**\n* \n * Returns a list containing successive accumulation values
* generated by applying [operation] from left to right on * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] \n * \n * @sample samples.collections.Collections.Aggregates.scan

@Deprecated("Use runningReduce instead.",\nReplaceWith("runningReduce(operation)"), level =\nDeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal\nunpublished inline fun <S, T : S>\nByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> {\n    return runningReduce(operation)\n}**\n* \n * Returns a list containing successive accumulation values
* generated by applying [operation] from left to right on * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] \n * \n * @sample samples.collections.Collections.Aggregates.scan

@Deprecated("Use runningReduce instead.",\nReplaceWith("runningReduce(operation)"), level =\nDeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal\nunpublished inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): List<Short> {\n    return runningReduce(operation)\n}**\n* \n * Returns a list containing successive accumulation values
* generated by applying [operation] from left to right on * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] \n * \n * @sample samples.collections.Collections.Aggregates.scan
return runningReduceIndexed(operation)\n}@Deprecated("Use runningReduceIndexed instead.",
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)@SinceKotlin("1.3")@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.scanReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double):
List<Double> {
    return runningReduceIndexed(operation)\n}@Deprecated("Use runningReduceIndexed instead.",
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)@SinceKotlin("1.3")@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.scanReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean):
List<Boolean> {
    return runningReduceIndexed(operation)\n}@Deprecated("Use runningReduceIndexed instead.",
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)@SinceKotlin("1.3")@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char):
List<Char> {
    return runningReduceIndexed(operation)\n}/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun IntArray.sumBy(selector: (Int) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun LongArray.sumBy(selector: (Long) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun CharArray.sumBy(selector: (Char) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the array.
 */
public inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
(element in this) {\n    sum += selector(element)\n} \nreturn sum\n\n* Returns the sum of all values produced by [selector] function applied to each element in the array.\n* /\n
public inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    } \nreturn sum\n\n* Returns the sum of all values produced by [selector] function applied to each element in the array.\n* /\n
public inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    } \nreturn sum\n\n* Returns the sum of all values produced by [selector] function applied to each element in the array.\n* /\n
public inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    } \nreturn sum\n\n* Returns the sum of all values produced by [selector] function applied to each element in the array.\n* /\n
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    } \nreturn sum\n\n* Returns the sum of all values produced by [selector] function applied to each element in the array.\n* /\n
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    } \nreturn sum\n\n* Returns the sum of all values produced by [selector] function applied to each element in the array.\n* /\n
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    } \nreturn sum\n\n* Returns the sum of all values produced by [selector] function applied to each element in the array.\n* /\n
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    } \nreturn sum\n\n* Returns the sum of all values produced by [selector] function applied to each element in the array.\n* /\n
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    } \nreturn sum\n\n* Returns the sum of all values produced by [selector] function applied to each element in the array.\n* /\n
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray sumOf(selector: (Float) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    } \nreturn sum\n\n* Returns the sum of all values produced by [selector] function applied to each element in the array.\n* /\n
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray sumOf(selector: (Double) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    } \nreturn sum\n\n* Returns the sum of all values produced by [selector] function applied to each element in the array.\n* /
`@SinceKotlin("1.4")`@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")@kotlin.internal.InlineOnly
public inline fun
BooleanArray.sumOf(selector: (Boolean) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

`@SinceKotlin("1.4")`@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")@kotlin.internal.InlineOnly
public inline fun
CharArray.sumOf(selector: (Char) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

`@SinceKotlin("1.4")`@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
Array<out T>.sumOf(selector: (T) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

`@SinceKotlin("1.4")`@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
ByteArray.sumOf(selector: (Byte) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

`@SinceKotlin("1.4")`@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
ShortArray.sumOf(selector: (Short) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

`@SinceKotlin("1.4")`@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
IntArray.sumOf(selector: (Int) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

`@SinceKotlin("1.4")`@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
LongArray.sumOf(selector: (Long) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

`@SinceKotlin("1.4")`@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
FloatArray.sumOf(selector: (Float) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

`@SinceKotlin("1.4")`@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
@LambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
DoubleArray.sumOf(selector: (Double) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
sum += selector(element)
} return sum
*/

/**
 * Returns the sum of all values produced by [selector] function
defined for each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun CharArray.sumOf(selector: (Char) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
defined for each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfLong")@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.sumOf(selector: (T) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
defined for each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfLong")@kotlin.internal.InlineOnly
public inline fun ByteArray.sumOf(selector: (Byte) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
defined for each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfLong")@kotlin.internal.InlineOnly
public inline fun ShortArray.sumOf(selector: (Short) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
defined for each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfLong")@kotlin.internal.InlineOnly
public inline fun IntArray.sumOf(selector: (Int) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
defined for each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfLong")@kotlin.internal.InlineOnly
public inline fun LongArray.sumOf(selector: (Long) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
defined for each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfLong")@kotlin.internal.InlineOnly
public inline fun FloatArray.sumOf(selector: (Float) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
defined for each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfLong")@kotlin.internal.InlineOnly
public inline fun DoubleArray.sumOf(selector: (Double) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
defined for each element in the array.
*/
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfLong")@kotlin.internal.InlineOnly
public inline fun BooleanArray.sumOf(selector: (Boolean) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */

ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfByte")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */

ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfShort")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */

ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */

ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */

ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfFloat")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */

ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */

ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfBoolean")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
values produced by [selector] function applied to each element in the array.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong): ULong {  
    var sum: ULong = 0.toULong()  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum
}

/*
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong {  
    var sum: ULong = 0.toULong()  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum
}

/*
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun ShortArray.sumOf(selector: (Short) -> ULong): ULong {  
    var sum: ULong = 0.toULong()  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum
}

/*
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {  
    var sum: ULong = 0.toULong()  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum
}

/*
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong {  
    var sum: ULong = 0.toULong()  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum
}

/*
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong {  
    var sum: ULong = 0.toULong()  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum
}

/*
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun DoubleArray.sumOf(selector: (Double) -> ULong): ULong {  
    var sum: ULong = 0.toULong()  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum
}

/*
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong): ULong {  
    var sum: ULong = 0.toULong()  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum
}
```

```kotlin
/*
 * Returns an original collection containing all the non-`null` elements, throwing an 
 * [IllegalArgumentException] if there are any `null` elements.
 */
public fun <T : Any> Array<T?>.requireNoNulls(): Array<T> {  
    for (element in this) {  
        if (element == null) {  
            throw IllegalArgumentException("null element found in $this.")
        }
    }
}
```kotlin
@Suppress("UNCHECKED_CAST")
    return this as Array<T>
}

/**
 * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */
public inline fun <T> Array<out T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */
public inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {
    val first = ArrayList<Byte>()
    val second = ArrayList<Byte>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */
public inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {
    val first = ArrayList<Short>()
    val second = ArrayList<Short>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */
public inline fun IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {
    val first = ArrayList<Int>()
    val second = ArrayList<Int>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */
public inline fun LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {
    val first = ArrayList<Long>()
    val second = ArrayList<Long>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */
public inline fun FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {
    val first = ArrayList<Float>()
    val second = ArrayList<Float>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */
public inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {
    val first = ArrayList<Double>()
    val second = ArrayList<Double>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */
public inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {
    val first = ArrayList<Boolean>()
    val second = ArrayList<Boolean>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}
```

---

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(predicate(element)) {
    first.add(element)
} else {
    second.add(element)
}

val first = ArrayList<Char>(predicate)
val second = ArrayList<Char>(predicate)

return Pair(first, second)
}

/**
 * Splits the original array into pair of lists, where first list contains elements for which [predicate] yielded `true`, while second list contains elements for which [predicate] yielded `false`.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives
 */
public inline fun CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {
    val first = ArrayList<Char>()
    val second = ArrayList<Char>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.ITERABLES.zipped
 */
public inline fun <T, R> Array<T>.zip(other: Array<R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.ITERABLES.zipped
 */
public inline fun <R> ByteArray.zip(other: Array<R>): List<Pair<Byte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.ITERABLES.zipped
 */
public inline fun <R> ShortArray.zip(other: Array<R>): List<Pair<Short, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.ITERABLES.zipped
 */
public inline fun <R> IntArray.zip(other: Array<R>): List<Pair<Int, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.ITERABLES.zipped
 */
public inline fun <R> LongArray.zip(other: Array<R>): List<Pair<Long, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.ITERABLES.zipped
 */
public inline fun <R> FloatArray.zip(other: Array<R>): List<Pair<Float, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.ITERABLES.zipped
 */
public inline fun <R> DoubleArray.zip(other: Array<R>): List<Pair<Double, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.ITERABLES.zipped
 */
public inline fun <R> BooleanArray.zip(other: Array<R>): List<Pair<Boolean, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.ITERABLES.zipped
 */
public inline fun <T, R> Array<T>.zip(other: Array<R>, transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.ITERABLES.zipped
 */
public inline fun <R, V> ByteArray.zip(other: Array<R>, transform: (a: Byte, b: R) -> V): List<V> {
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
size = minOf(size, other.size)
val list = ArrayList<V>(size)
for (i in 0 until size) {
    list.add(transform(this[i], other[i]))
} return list

// Returns a list of values built from the elements of 'this' array and the [other] array with the same index
// using the provided [transform] function applied to each pair of elements.
// The returned list has length of the shortest collection.

public inline fun <R, V> ShortArray.zip(other: Array<R>, transform: (a: Short, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

// Returns a list of values built from the elements of 'this' array and the [other] array with the same index
// using the provided [transform] function applied to each pair of elements.
// The returned list has length of the shortest collection.

public inline fun <R, V> IntArray.zip(other: Array<R>, transform: (a: Int, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

// Returns a list of values built from the elements of 'this' array and the [other] array with the same index
// using the provided [transform] function applied to each pair of elements.
// The returned list has length of the shortest collection.

    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

// Returns a list of values built from the elements of 'this' array and the [other] array with the same index
// using the provided [transform] function applied to each pair of elements.
// The returned list has length of the shortest collection.

public inline fun <R, V> FloatArray.zip(other: Array<R>, transform: (a: Float, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

// Returns a list of values built from the elements of 'this' array and the [other] array with the same index
// using the provided [transform] function applied to each pair of elements.
// The returned list has length of the shortest collection.

public inline fun <R, V> DoubleArray.zip(other: Array<R>, transform: (a: Double, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

// Returns a list of values built from the elements of 'this' array and the [other] array with the same index
// using the provided [transform] function applied to each pair of elements.
// The returned list has length of the shortest collection.

public inline fun <R, V> BooleanArray.zip(other: Array<R>, transform: (a: Boolean, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

// Returns a list of values built from the elements of 'this' array and the [other] array with the same index
// using the provided [transform] function applied to each pair of elements.
// The returned list has length of the shortest collection.

public inline fun <R, V> CharArray.zip(other: Array<R>, transform: (a: Char, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

// Returns a list of pairs built from the elements of 'this' collection and [other] array with the same index.
// The returned list has length of the shortest collection.

public inline fun <R, V> CharArray.zip(other: Array<R>, transform: (a: Char, b: R) -> V): List<Pair<R, Char>> {
    val size = minOf(size, other.size)
    val list = ArrayList<Pair<R, Char>>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

// Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.
// The returned list has length of the shortest collection.

public inline fun <R, V> CharArray.zip(other: Array<R>, transform: (a: Char, b: R) -> V): List<Pair<R, Char>> {
    val size = minOf(size, other.size)
    val list = ArrayList<Pair<R, Char>>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

// Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.
// The returned list has length of the shortest collection.

public inline fun <R, V> CharArray.zip(other: Array<R>, transform: (a: Char, b: R) -> V): List<Pair<R, Char>> {
    val size = minOf(size, other.size)
    val list = ArrayList<Pair<R, Char>>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of 'this' collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <R> ShortArray.zip(other: Iterable<R>): List<Pair<Short, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of 'this' collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <R> IntArray.zip(other: Iterable<R>): List<Pair<Int, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of 'this' collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <R> LongArray.zip(other: Iterable<R>): List<Pair<Long, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of 'this' collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <R> FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of 'this' collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <R> DoubleArray.zip(other: Iterable<R>): List<Pair<Double, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of 'this' collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <R> BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> Array<out T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V> ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V> ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V> IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V> FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V> BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}
IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
} * Returns a list of values built from the elements of `this` array and the [other] collection with the same index

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

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** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

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* using the provided [transform] function applied to each pair of elements.

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* using the provided [transform] function applied to each pair of elements.

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** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

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** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

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* using the provided [transform] function applied to each pair of elements.

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** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

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* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.

** Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.

* The returned list has length of the shortest collection.
LongArray.zip(other: LongArray): List<Pair<Long, Long>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public infix fun List<Pair<Float, Float>>.zip(other: FloatArray): List<Pair<Float, Float>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public infix fun List<Pair<Double, Double>>.zip(other: DoubleArray): List<Pair<Double, Double>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public infix fun List<Pair<Boolean, Boolean>>.zip(other: BooleanArray): List<Pair<Boolean, Boolean>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public infix fun List<Pair<Char, Char>>.zip(other: CharArray): List<Pair<Char, Char>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
public inline fun List<Pair<Byte, Byte>>.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
public inline fun List<Pair<Short, Short>>.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
public inline fun List<Pair<Int, Int>>.zip(other: IntArray, transform: (a: Int, b: Int) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
public inline fun List<Pair<Float, Float>>.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
public inline fun List<Pair<Double, Double>>.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
other.size))
    val list = ArrayList<V>(size) for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array
 * with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
@sample samples.collections.Operations.zipIterableWithTransform
BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size) for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the
 * [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
public inline fun <V> BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size) for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the
 * [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
public inline fun <V> CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size) for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Appends the string from all the elements separated using [separator] and using the
 * given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @sample samples.collections.Collections.Transformations.joinTo
 */
public fun <T, A : Appendable> Array<out T>.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @sample samples.collections.Collections.Transformations.joinTo
 */
public fun <T, A : Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @sample samples.collections.Collections.Transformations.joinTo
 */
public fun <T, A : Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @sample samples.collections.Collections.Transformations.joinTo
 */
public fun <T, A : Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)\n buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.to(String))\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return\n buffer\n}/**\n * Appends the string from all the elements separated using [separator] and using the given\n * [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\")\n * @sample samples.collections.Collections.Transformations.joinTo\n */
public fun <A : Appendable> LongArray.joinTo(buffer: A, separator: CharSequence = ",", prefix: CharSequence = "", postfix: CharSequence = "]", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)\n buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.to(String))\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}/**\n * Appends the string from all the elements separated using [separator] and using the given\n * [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\")\n * @sample samples.collections.Collections.Transformations.joinTo\n */
public fun <A : Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = ",", prefix: CharSequence = "", postfix: CharSequence = "]", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)\n buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.to(String))\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}/**\n * Appends the string from all the elements separated using [separator] and using the given\n * [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\")\n * @sample samples.collections.Collections.Transformations.joinTo\n */
public fun <A : Appendable> DoubleArray.joinTo(buffer: A, separator: CharSequence = ",", prefix: CharSequence = "", postfix: CharSequence = "]", limit: Int = -1, truncated: CharSequence = "...", transform: ((Double) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)\n buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.to(String))\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}/**\n * Appends the string from all the elements separated using [separator] and using the given\n * [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\")\n * @sample samples.collections.Collections.Transformations.joinTo\n */
public fun <A : Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = ",", prefix: CharSequence = "", postfix: CharSequence = "]", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.to(String))\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}/**\n * Appends the string from all the elements separated using [separator] and using the given\n * [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\")\n * @sample samples.collections.Collections.Transformations.joinTo\n */
public fun <A : Appendable> StringArray.joinTo(buffer: A, separator: CharSequence = ",", prefix: CharSequence = "", postfix: CharSequence = "]", limit: Int = -1, truncated: CharSequence = "...", transform: ((String) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.to(String))\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}/**\n * Appends the string from all the elements separated using [separator] and using the given\n * [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\")\n * @sample samples.collections.Collections.Transformations.joinTo\n */
public fun <A : Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = ",", prefix: CharSequence = "", postfix: CharSequence = "]", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.to(String))\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}/**\n * Appends the string from all the elements separated using [separator] and using the given\n * [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\")\n * @sample samples.collections.Collections.Transformations.joinTo\n */
public fun <A : Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = ",", prefix: CharSequence = "", postfix: CharSequence = "]", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null): A {
Appendable<CharArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element)
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\").
 */
public fun <T> Array<T>.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\").
 */
public fun ByteArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\").
 */
public fun ShortArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\").
 */
public fun IntArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\").
 */
public fun LongArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to \"...\").
 */
public fun FloatArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

```kotlin
@sample samples.collections.Collections.Transformations.joinToString
/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * 
 * @sample samples.collections.Collections.Transformations.joinToString
 */
public fun DoubleArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Double) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * 
 * @sample samples.collections.Collections.Transformations.joinToString
 */
public fun BooleanArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * 
 * @sample samples.collections.Collections.Transformations.joinToString
 */
public fun CharArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun <T> Array<out T>.asIterable(): Iterable<T> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun ByteArray.asIterable(): Iterable<Byte> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun ShortArray.asIterable(): Iterable<Short> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun IntArray.asIterable(): Iterable<Int> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun LongArray.asIterable(): Iterable<Long> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun FloatArray.asIterable(): Iterable<Float> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun DoubleArray.asIterable(): Iterable<Double> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun BooleanArray.asIterable(): Iterable<Boolean> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun CharArray.asIterable(): Iterable<Char> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun <T> Array<out T>.asSequence(): Sequence<T> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun ByteArray.asSequence(): Sequence<Byte> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun ShortArray.asSequence(): Sequence<Short> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun IntArray.asSequence(): Sequence<Int> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun LongArray.asSequence(): Sequence<Long> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun FloatArray.asSequence(): Sequence<Float> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun DoubleArray.asSequence(): Sequence<Double> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun BooleanArray.asSequence(): Sequence<Boolean> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun CharArray.asSequence(): Sequence<Char> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}
### Sequence Methods

The following methods are provided for various sequence types to facilitate manipulation of sequences:

- `Sequence<Short>`
- `Sequence<Int>`
- `Sequence<Long>`
- `Sequence<Float>`
- `Sequence<Double>`
- `Sequence<Boolean>`
- `Sequence<Char>`

Each method wraps the original array, returning its elements when being iterated.

### Array Methods

The following methods compute the average of elements in arrays of specific types:

- `Array<out Byte>.average()` computes the average of elements in an `Array` of `Byte`
- `Array<out Short>.average()` computes the average of elements in an `Array` of `Short`
- `Array<out Int>.average()` computes the average of elements in an `Array` of `Int`
- `Array<out Long>.average()` computes the average of elements in an `Array` of `Long`
- `Array<out Float>.average()` computes the average of elements in an `Array` of `Float`
- `Array<out Double>.average()` computes the average of elements in an `Array` of `Double`
- `ByteArray.average()` computes the average of elements in an `ByteArray`
- `ShortArray.average()` computes the average of elements in a `ShortArray`
- `IntArray.average()` computes the average of elements in an `IntArray`
- `LongArray.average()` computes the average of elements in a `LongArray`
- `FloatArray.average()` computes the average of elements in a `FloatArray`
- `DoubleArray.average()` computes the average of elements in a `DoubleArray`

These methods return the average value of elements in the array, wrapping the original array and returning its elements when being iterated.

---

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```kotlin
/**
 * Returns an average value of elements in the array.
 */
public fun FloatArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun DoubleArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Array<out Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Array<out Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Array<out Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Array<out Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Array<out Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Array<out Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns a random element from this range.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun IntRange.random(): Int {
    return random(Random)
}

/**
 * Returns a random element from this range.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun LongRange.random(): Long {
    return random(Random)
}

/**
 * Returns a random element from this range.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun CharRange.random(): Char {
    return random(Random)
}

/**
 * Returns a random element from this range using the specified source of randomness.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun IntRange.random(random: Random): Int {
    try {
        return random.nextInt(this)
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Returns a random element from this range using the specified source of randomness.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun LongRange.random(random: Random): Long {
    return random.nextLong()
}

/**
 * Returns a random element from this range using the specified source of randomness.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun CharRange.random(random: Random): Char {
    return random.nextChar()
}
```

---

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*\@SinceKotlin("1.3")\@public fun LongRange.random(random: Random): Long {
    try {
        return random.nextLong(this)
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 */
@SinceKotlin("1.4")\@inline fun IntRange.randomOrNullable(random: Random): Int? {
    return random.nextInt(first.toInt(), last.toInt() + 1).toChar()
}

/**
 * Returns a random element from this range, or `null` if this range is empty.
 */
@SinceKotlin("1.4")\@WasExperimental(ExperimentalStdlibApi::class)\@public fun IntRange.randomOrNullable(): Int? {
    return random.nextInt(this)
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 */
@SinceKotlin("1.4")\@WasExperimental(ExperimentalStdlibApi::class)\@public inline fun IntRange.randomOrNull(): Int? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this range, or `null` if this range is empty.
 */
@SinceKotlin("1.4")\@WasExperimental(ExperimentalStdlibApi::class)\@public fun LongRange.randomOrNull(): Long? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 */
@SinceKotlin("1.4")\@WasExperimental(ExperimentalStdlibApi::class)\@public fun CharRange.randomOrNull(): Char? {
    return randomOrNull(Random)
}

/**
 * Returns `true` if this range contains the specified [element].
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.3")\@public fun ClosedRange<Int>.contains(value: Int?): Boolean {
    return contains(value.toInt())
}

/**
 * Returns `true` if this range contains the specified [element].
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.3")\@public fun ClosedRange<Long>.contains(value: Long?): Boolean {
    return contains(value.toLong())
}

/**
 * Returns `true` if this range contains the specified [element].
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.3")\@public fun ClosedRange<Short>.contains(value: Short?): Boolean {
    return contains(value.toShort())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\@JvmName("doubleRangeContains")\@public inline operator fun DoubleRange.contains(value: Byte): Boolean {
    return contains(value.toDouble())
}
Checks if the specified [value] belongs to this range.

```kotlin
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3.0", errorSince = "1.4.0")
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Byte): Boolean {
    return contains(value.toFloat())
}  

@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3.0", errorSince = "1.4.0")
@kotlin.jvm.JvmName("intRangeContains")
public operator fun ClosedRange<Int>.contains(value: Double): Boolean {
    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }
}  

@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3.0", errorSince = "1.4.0")
@kotlin.jvm.JvmName("longRangeContains")
public operator fun ClosedRange<Long>.contains(value: Double): Boolean {
    return value.toLongExactOrNull().let { if (it != null) contains(it) else false }
}  

@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3.0", errorSince = "1.4.0")
@kotlin.jvm.JvmName("byteRangeContains")
public operator fun ClosedRange<Byte>.contains(value: Double): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}  

@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3.0", errorSince = "1.4.0")
@kotlin.jvm.JvmName("shortRangeContains")
public operator fun ClosedRange<Short>.contains(value: Double): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }
}  

@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3.0", errorSince = "1.4.0")
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Float): Boolean {
    return value.toDoubleExactOrNull().let { if (it != null) contains(it) else false }
}
```
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```kotlin

fun Short.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1
 *  `this` value.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 * @param to
 * @return
 */
public infix fun Short.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1
 *  `this` value.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Short.downTo(to: Int): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to, -1)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1
 *  `this` value.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Short.downTo(to: Byte): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to, -1)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1
 *  `this` value.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Short.downTo(to: Char): CharProgression {
    return CharProgression.fromClosedRange(this, to, -1)
}
```
* If the [to] value is greater than 'this' value the returned progression is empty.

```kotlin
public infix fun Int.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1)
}
```

* The [to] value should be less than or equal to 'this' value.

```kotlin
public infix fun Long.downTo(to: Short): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -1L)
}
```

* If the [to] value is greater than 'this' value the returned progression is empty.

```kotlin
public infix fun Byte.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}
```

* If the [to] value is greater than 'this' value the returned progression is empty.

```kotlin
public infix fun Short.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}
```

* Returns a progression that goes over the same range in the opposite direction with the same step.

```kotlin
public fun IntProgression.reversed(): IntProgression {
    return IntProgression.fromClosedRange(last, first, -step)
}
```

* Returns a progression that goes over the same range in the opposite direction with the same step.

```kotlin
public fun LongProgression.reversed(): LongProgression {
    return LongProgression.fromClosedRange(last, first, -step)
}
```

* Returns a progression that goes over the same range in the opposite direction with the same step.

```kotlin
public fun CharProgression.reversed(): CharProgression {
    return CharProgression.fromClosedRange(last, first, -step)
}
```

* Returns a progression that goes over the same range with the given step.

```kotlin
public infix fun IntProgression.step(step: Int): IntProgression {
    checkStepIsPositive(step > 0, step)
    return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}
```

* Returns a progression that goes over the same range with the given step.

```kotlin
public infix fun LongProgression.step(step: Long): LongProgression {
    checkStepIsPositive(step > 0, step)
    return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}
```

* Returns a progression that goes over the same range with the given step.

```kotlin
public infix fun CharProgression.step(step: Int): CharProgression {
    checkStepIsPositive(step > 0, step)
    return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}
```

* Returns a progression that goes over the same range with the specified [to] value.

```kotlin
publicifacts.

```kotlin
public infix fun Int.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1)
}
```

* The [to] value should be less than or equal to 'this' value.

```kotlin
public infix fun Long.downTo(to: Short): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -1L)
}
```

* If the [to] value is greater than 'this' value the returned progression is empty.

```kotlin
public infix fun Byte.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}
```

* If the [to] value is greater than 'this' value the returned progression is empty.

```kotlin
public infix fun Short.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}
```

* Returns a progression from this value down to the specified [to] value with the step -1.

```kotlin
public infix fun Int.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1)
}
```

* The [to] value should be less than or equal to 'this' value.

```kotlin
public infix fun Long.downTo(to: Short): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -1L)
}
```

* If the [to] value is greater than 'this' value the returned progression is empty.

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}
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}
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    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}
```

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}
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}
```

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public infix fun Byte.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
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* If the [to] value is greater than 'this' value the returned progression is empty.

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}
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    return IntProgression.fromClosedRange(this, to.toInt(), -1)
}
```

* The [to] value should be less than or equal to 'this' value.

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public infix fun Long.downTo(to: Short): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -1L)
}
```

* If the [to] value is greater than 'this' value the returned progression is empty.

```kotlin
public infix fun Byte.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}
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* If the [to] value is greater than 'this' value the returned progression is empty.

```kotlin
public infix fun Short.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
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```

* Returns a progression from this value down to the specified [to] value with the step -1.

```kotlin
public infix fun Int.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1)
}
```

* The [to] value should be less than or equal to 'this' value.

```kotlin
public infix fun Long.downTo(to: Short): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -1L)
}
```

* If the [to] value is greater than 'this' value the returned progression is empty.

```kotlin
public infix fun Byte.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}
```

* If the [to] value is greater than 'this' value the returned progression is empty.

```kotlin
public infix fun Short.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}
```

* Returns a progression from this value down to the specified [to] value with the step -1.

```kotlin
public infix fun Int.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1)
}
```

* The [to] value should be less than or equal to 'this' value.

```kotlin
public infix fun Long.downTo(to: Short): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -1L)
}
```
range is empty.
*/
public infix fun Short.until(to: Short): IntRange {
    return this.toInt() .. (to.toInt() -
    1).toInt() //\n} //\n/* Ensures that this value is not less than the specified [minimumValue].\n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisonsComparableOps.coerceAtLeastComparable\n */\npublic fun <T : Comparable<T>>
T.coerceAtLeast(minimumValue: T): T {\n    return if (this < minimumValue) minimumValue else this\n} //\n/* Ensures that this value is not less than the specified [minimumValue].\n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisonsComparableOps.coerceAtLeast\n */\npublic fun Byte.coerceAtLeast(minimumValue: Byte): Byte {\n    return if (this < minimumValue) minimumValue else this\n} //\n/* Ensures that this value is not less than the specified [minimumValue].\n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisonsComparableOps.coerceAtLeast\n */\npublic fun Short.coerceAtLeast(minimumValue: Short): Short {\n    return if (this < minimumValue) minimumValue else this\n} //\n/* Ensures that this value is not less than the specified [minimumValue].\n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisonsComparableOps.coerceAtLeast\n */\npublic fun Int.coerceAtLeast(minimumValue: Int): Int {\n    return if (this < minimumValue) minimumValue else this\n} //\n/* Ensures that this value is not less than the specified [minimumValue].\n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisonsComparableOps.coerceAtLeast\n */\npublic fun Long.coerceAtLeast(minimumValue: Long): Long {\n    return if (this < minimumValue) minimumValue else this\n} //\n/* Ensures that this value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisonsComparableOps.coerceAtMostComparable\n */\npublic fun <T : Comparable<T>>
T.coerceAtMost(maximumValue: T): T {\n    return if (this > maximumValue) maximumValue else this\n} //\n/* Ensures that this value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisonsComparableOps.coerceAtMost\n */\npublic fun Byte.coerceAtMost(maximumValue: Byte): Byte {\n    return if (this > maximumValue) maximumValue else this\n} //\n/* Ensures that this value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisonsComparableOps.coerceAtMost\n */\npublic fun Short.coerceAtMost(maximumValue: Short): Short {\n    return if (this > maximumValue) maximumValue else this\n} //\n/* Ensures that this value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisonsComparableOps.coerceAtMost\n */\npublic fun Int.coerceAtMost(maximumValue: Int): Int {\n    return if (this > maximumValue) maximumValue else this\n} //\n/* Ensures that this value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisonsComparableOps.coerceAtMost\n */\npublic fun Long.coerceAtMost(maximumValue: Long): Long {\n    return if (this > maximumValue) maximumValue else this\n} //\n/* Ensures that this value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisonsComparableOps.coerceAtMost\n */
@sample samples.comparisons.ComparableOps.coerceAtMost

public fun Float.coerceAtMost(maximumValue: Float): Float {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */

public fun Double.coerceAtMost(maximumValue: Double): Double {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value lies in the specified range [minimumValue..maximumValue].
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * @sample samples.comparisons.ComparableOps.coerceIn
 */

public fun T.coerceIn(minimumValue: T?, maximumValue: T?): T {
    if (minimumValue == null && maximumValue == null) {
        return if (minimumValue > maximumValue) throw
IllegalStateException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue."$
    } else {
        return if (minimumValue <= maximumValue) return minimumValue
            else if (this <= minimumValue) return minimumValue
            else return maximumValue
    }
}

/**
 * Ensures that this value lies in the specified range [minimumValue..maximumValue].
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * @sample samples.comparisons.ComparableOps.coerceIn
 */

public fun Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {
    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue."$
    else {return if (this < minimumValue) return minimumValue
        else if (this <= maximumValue) return this
            else return maximumValue
    }
}

/**
 * Ensures that this value lies in the specified range [minimumValue..maximumValue].
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * @sample samples.comparisons.ComparableOps.coerceIn
 */

public fun Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {
    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue."$
    else {return if (this < minimumValue) return minimumValue
        else if (this <= maximumValue) return this
            else return maximumValue
    }
}

/**
 * Ensures that this value lies in the specified range [minimumValue..maximumValue].
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * @sample samples.comparisons.ComparableOps.coerceIn
 */

public fun Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {
    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue."$
    else {return if (this < minimumValue) return minimumValue
        else if (this <= maximumValue) return this
            else return maximumValue
    }
}

/**
 * Ensures that this value lies in the specified range [minimumValue..maximumValue].
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * @sample samples.comparisons.ComparableOps.coerceIn
 */

public fun Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {
    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue."$
    else {return if (this < minimumValue) return minimumValue
        else if (this <= maximumValue) return this
            else return maximumValue
    }

minimum $minimumValue.

* Ensures that this value lies in the specified range.
$n * $n

if (this < minimumValue) return minimumValue

if (this > maximumValue) return maximumValue

return this
$n * $n

* Ensures that this value lies in the specified range.

$maximumValue.$maximumValue.

* $n * $n

if (this < minimumValue) return minimumValue

if (this > maximumValue) return maximumValue

return this
$n * $n

* Ensures that this value lies in the specified [range].

$n * $n

* @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`. $n * $n

* @sample samples.comparisons.ComparableOps.coerceIn

/**
 * Ensures that this value lies in the specified range.
 * 
 * @return this value if it's in the range, or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`. $n * $n

* @sample samples.comparisons.ComparableOps.coerceInFloatingPointRange

*/

public fun Double.coerceIn(minimumValue: Double, maximumValue: Double): Double {

    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")

    if (this < minimumValue) return minimumValue

    if (this > maximumValue) return maximumValue

    return this
}

/**
 * Ensures that this value lies in the specified range.
 * 
 * @return this value if it's in the range, or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`. $n * $n

* @sample samples.comparisons.ComparableOps.coerceIn

*/

public fun Int.coerceIn(range: ClosedRange<Int>): Int {

    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<Int>(range)
    }

    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")

    return when {
        this < range.start -> range.start

        this > range.endInclusive -> range.endInclusive

        else -> this
    }
}

/**
 * Ensures that this value lies in the specified range.
 * 
 * @return this value if it's in the range, or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`. $n * $n

* @sample samples.comparisons.ComparableOps.coerceInComparable

*/

public fun Long.coerceIn(range: ClosedRange<Long>): Long {

    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<Long>(range)
    }

    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")

    return when {
        this < range.start -> range.start

        this > range.endInclusive -> range.endInclusive

        else -> this
    }
}

/**
 * Ensures that this value lies in the specified range.
 * 
 * @return this value if it's in the range, or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`. $n * $n

* @sample samples.comparisons.ComparableOps.coerceIn

*/

public fun ComparableOps.coerceIn

*/

/**
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 *
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {

    companion object {

        /**
         * A constant holding the minimum value an instance of UByte can have.
         */
        public const val MIN_VALUE: UByte = UByte(0)

        /**
         * A constant holding the maximum value an instance of UByte can have.
         */
        public const val MAX_VALUE: UByte = UByte(-1)

        /**
         * The number of bytes used to represent an instance of UByte in a binary form.
         */
        public const val SIZE_BYTES: Int = 1
    }

    public companion object {

        * A constant holding the minimum value an instance of UByte can have.

        * A constant holding the maximum value an instance of UByte can have.

        * The number of bits used to represent an instance of UByte in a binary form.

        * A constant holding the minimum value an instance of UByte can have.

        * A constant holding the maximum value an instance of UByte can have.

        * The number of bits used to represent an instance of UByte in a binary form.

        * A constant holding the minimum value an instance of UByte can have.

        * A constant holding the maximum value an instance of UByte can have.

        * The number of bits used to represent an instance of UByte in a binary form.

        * A constant holding the minimum value an instance of UByte can have.

        * A constant holding the maximum value an instance of UByte can have.

        * The number of bits used to represent an instance of UByte in a binary form.

        * A constant holding the minimum value an instance of UByte can have.

        * A constant holding the maximum value an instance of UByte can have.

        * The number of bits used to represent an instance of UByte in a binary form.

        * A constant holding the minimum value an instance of UByte can have.

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        * The number of bits used to represent an instance of UByte in a binary form.

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        * A constant holding the minimum value an instance of UByte can have.

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        * The number of bits used to represent an instance of UByte in a binary form.

        * A constant holding the minimum value an instance of UByte can have.

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        * The number of bits used to represent an instance of UByte in a binary form.

        * A constant holding the minimum value an instance of UByte can have.

        * A constant holding the maximum value an instance of UByte can have.

        * The number of bits used to represent an instance of UByte in a binary form.

        * A constant holding the minimum value an instance of UByte can have.

        * A constant holding the maximum value an instance of UByte can have.

        * The number of bits used to represent an instance of UByte in a binary form.
form.
 */
public const val SIZE_BITS: Int = 8
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)

/** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())
/** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())
/** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)
/** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)

/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())
value. */
@kotlin.internal.InlineOnly
public inline operator fun dec(): UByte = UByte(data.dec())
/**
 * Creates a range from this value to the specified [other] value. */
@kotlin.internal.InlineOnly
public inline operator fun rangeTo(other: UByte): UIntRange = UIntRange(this.toUInt(), other.toUInt())
/**
 * Performs a bitwise AND operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun and(other: UByte): UByte = UByte(data and other.data)
/**
 * Performs a bitwise OR operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun or(other: UByte): UByte = UByte(data or other.data)
/**
 * Performs a bitwise XOR operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun xor(other: UByte): UByte = UByte(data xor other.data)
/**
 * Inverts the bits in this value. */
@kotlin.internal.InlineOnly
public inline fun inv(): UByte = UByte(data.inv())
/**
 * Converts this [UByte] value to [Byte].
 * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents
 * the same numerical value as this `UByte`. Otherwise the result is negative.
 * The resulting `Byte` value has the same binary representation as this `UByte`. The least significant 8 bits of the resulting `Byte` value are the same as the bits of this `UByte`. whereas the most significant 8 bits are filled with zeros.
 * Converts this [UByte] value to [Int].
 * The resulting `Int` value represents the same numerical value as this `UByte`. whereas the most significant 8 bits are filled with zeros.
 * Converts this [UByte] value to [Long].
 * The resulting `Long` value represents the same numerical value as this `UByte`. whereas the most significant 8 bits are filled with zeros.
 * Converts this [UByte] value to [Double].
 * The resulting `Double` value represents the same numerical value as this `UByte`. whereas the most significant 8 bits are filled with zeros.
 * Converts this [UByte] value to [Float].
 * The resulting `Float` value represents the same numerical value as this `UByte`. whereas the most significant 8 bits are filled with zeros.
 * Converts this [UByte] value to [UShort].
 * The resulting `UShort` value represents the same numerical value as this `UByte`. whereas the most significant 8 bits are filled with zeros.
 * Converts this [UByte] value to [UInt].
 * The resulting `UInt` value represents the same numerical value as this `UByte`. whereas the most significant 8 bits are filled with zeros.
 * Converts this [UByte] value to [ULong].
 * The resulting `ULong` value represents the same numerical value as this `UByte`. whereas the most significant 8 bits are filled with zeros.
numerical value as this `Short`.

* * *

The resulting `UByte` value is represented by the least significant 8 bits of
this `Short` value.

* * *

The resulting `UByte` value is represented by the least significant 8 bits of
this `Int` value. * * *

The resulting `UByte` value is represented by the least significant 8 bits of
this `Int` value.

* * *

The resulting `UByte` value is represented by the least significant 8 bits of
this `Long` value.

* * *

A constant holding the minimum value an instance of UInt can have.

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A constant holding the maximum value an instance of UInt can have.

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The number of bits used to represent an instance of Int in a binary form.

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The number of bits used to represent an instance of Int in a binary form.

* * *

The number of bytes used to represent an instance of UInt in a binary form.

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The number of bytes used to represent an instance of UInt in a binary form.

* * *

A constant holding the maximum value an instance of Int can have.

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A constant holding the maximum value an instance of Int can have.

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A constant holding the maximum value an instance of Int can have.

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The number of bytes used to represent an instance of UInt in a binary form.

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The number of bytes used to represent an instance of UInt in a binary form.

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The number of bytes used to represent an instance of UInt in a binary form.

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The number of bytes used to represent an instance of UInt in a binary form.

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A constant holding the minimum value an instance of UInt can have.

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A constant holding the maximum value an instance of UInt can have.

* * *

A constant holding the maximum value an instance of UInt can have.
This text contains a detailed explanation of Kotlin's bitwise and shift operations on `UInt` values, including methods like `toInt()`, `toShort()`, `toByte()`, `inv()`, `xor()`, `or()`, `and()`, `shr()`, `shl()`, `rangeTo()`, `dec()`, `inc()`, `rem()`, `div()`, `times()`, and `minus()`. Each method is described with its purpose and relevant Kotlin code snippets. The text also covers the conversion of `UInt` values to other numeric types and the use of bitwise operators for manipulating binary data.
most significant 32 bits are filled with zeros.\n *\n @kotlin.internal.InlineOnly\n public inline fun toLong():
 Long = data.toLong() and 0xFFFF_FFFF\n /***\n * Converts this [UInt] value to [UByte].\n *\n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte =
 data.toUByte()\n /***\n * Converts this [UInt] value to [UShort].\n *\n @kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort =
 data.toUShort()\n /***\n * Returns this value.\n *\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,\n * whereas the most significant 32 bits are filled with zeros.\n *\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt =
 this\n /***\n * Converts this [UInt] value to [Int].\n *\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int =
 this\n /***\n * Converts this [UInt] value to [Long].\n *\n @kotlin.internal.InlineOnly\n public inline fun toLong():
 Long =
 data.toLong() and 0xFFFF_FFFF\n /***\n * Converts this [UInt] value to [Float].\n *\n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float =
 this.toDouble().toFloat()\n /***\n * Converts this [UInt] value to [Double].\n *\n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =
 uintToDouble(data)\n /***\n * Converts this [Byte] value to [UInt].\n *\n @kotlin.internal.InlineOnly\n public inline fun Byte.toUInt(): UInt =
 this.toInt()\n /***\n * Converts this [Short] value to [UInt].\n *\n @kotlin.internal.InlineOnly\n public inline fun Short.toUInt(): UInt =
 this.toInt()\n /***\n * Converts this [Int] value to [UInt].\n *\n @kotlin.internal.InlineOnly\n public inline fun Int.toUInt(): UInt =
 this\n /***\n * Converts this [Long] value to [UInt].\n *\n @kotlin.internal.InlineOnly\n public inline fun Long.toUInt():
 UInt =
 this.toInt()\n /***\n * Converts this [Float] value to [UInt].\n *\n @kotlin.internal.InlineOnly\n public inline fun Float.toUInt():
 UInt =
 this.toDouble()\n /***\n * Converts this [Double] value to [UInt].\n
 /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n// Auto-generated file. DO NOT EDIT!

package kotlin

import
kotlin.experimental.*\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n
// SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class UShort @PublishedApi internal
constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {
    companion object {
        /**
         * A constant holding the minimum value an instance of UShort can have.
         */
        public const val MIN_VALUE: UShort = UShort(0)

        /**
         * A constant holding the maximum value an instance of UShort can have.
         */
        public const val MAX_VALUE: UShort = UShort(-1)

        /**
         * The number of bytes used to represent an instance of UShort in a binary form.
         */
        public const val SIZE_BYTES: Int = 2

        /**
         * The number of bits used to represent an instance of UShort in a binary form.
         */
        public const val SIZE_BITS: Int = 16
    }

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if
     * it's less than other, or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if
     * it's less than other, or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public override inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if
     * it's less than other, or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UInt): Int = this.toInt().compareTo(other.toInt())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if
     * it's less than other, or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: ULong): Int = this.toDouble().compareTo(other.toDouble())

    /**
     * Returns zero if this value is equal to the specified other value, a negative number if
     * it's less than other, or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: Double): Int = this.toDouble().compareTo(other.toDouble())

    /**
     * Adds the other value to this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())

    /**
     * Adds the other value to this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())

    /**
     * Adds the other value to this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)

    /**
     * Adds the other value to this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)

    /**
     * Subtracts the other value from this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())

    /**
     * Subtracts the other value from this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())

    /**
     * Subtracts the other value from this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)

    /**
     * Subtracts the other value from this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)

    /**
     * Multiplies this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())

    /**
     * Multiplies this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())

    /**
     * Multiplies this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)

    /**
     * Multiplies this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: ULong): ULong = this.toULong().times(other)

    /**
     * Divides this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())

    /**
     * Divides this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())

    /**
     * Divides this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)

    /**
     * Divides this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: ULong): ULong = this.toULong().div(other)

    /** Calculates the remainder of
     * Divides this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())

    /** Calculates the remainder of
     * Divides this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())

    /** Calculates the remainder of
     * Divides this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)

    /** Calculates the remainder of
     * Divides this value by the other value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)
@kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toInt().toFloat()

/**
 * Converts this ULong value to Float. The resulting Float value represents the same numerical value as this UShort.
 */

ULong = ULong(data.toLong() and 0xFFFF)

/**
 * Converts this UShort value to Float. The least significant 16 bits of the resulting Float value are the same as the bits of this UShort value, whereas the most significant 16 bits are filled with zeros.
 */

@kotlin.internal.InlineOnly
public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)

/**
 * Converts this UShort value to ULong. The resulting ULong value represents the same numerical value as this UShort.
 */

@kotlin.internal.InlineOnly
public inline infix fun xor(other: UShort): UShort = UShort(this.data xor other.data)

/** Inverts the bits in this value. */

@kotlin.internal.InlineOnly
public inline fun inv(): UShort = UShort(data.inv())

@kotlin.internal.InlineOnly
public inline operator fun rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())

/** Performs a bitwise AND operation between the two values. */

@kotlin.internal.InlineOnly
public inline operator fun and(other: UShort): UShort = UShort(this.data and other.data)

/** Performs a bitwise OR operation between the two values. */

@kotlin.internal.InlineOnly
public inline operator fun or(other: UShort): UShort = UShort(this.data or other.data)

@kotlin.internal.InlineOnly
public inline operator fun xor(other: UShort): UShort = UShort(data.toUByte().toUShort() xor other.data)

/** Inverts the bits in this value. */

@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toUByte()

@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)

@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)

@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUShort().rem(other)

@kotlin.internal.InlineOnly
public inline operator fun rem(other: Byte): UByte = this.toUByte().rem(other)

@kotlin.internal.InlineOnly
public inline operator fun rem(other: Short): Short = this.toUShort().rem(other)

@kotlin.internal.InlineOnly
public inline operator fun rem(other: Int): Int = this.toUInt().rem(other)

@kotlin.internal.InlineOnly
public inline operator fun rem(other: Long): Long = this.toULong().rem(other)

@kotlin.internal.InlineOnly
public inline operator fun rem(other: Float): Float = this.toFloat().rem(other)

@kotlin.internal.InlineOnly
public inline operator fun rem(other: Double): Double = this.toDouble().rem(other)
[UShort] value to [Double].\n *\n * The resulting 'Double' value represents the same numerical value as this 'UShort'.\n *\n * @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =\n this.toInt().toDouble()\n \n public override fun toString(): String = toString()\n\n/**\n * Converts this [Byte] value to [UShort].\n *\n * The least significant 8 bits of the resulting 'UShort' value are the same as the bits of this 'Byte'.\n *\n * The resulting 'UShort' value represents the same numerical value as this 'Byte'.\n */\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toUShort(): UShort = UShort(this.toShort())\n
/**\n * Converts this [Short] value to [UShort].\n *\n * The least significant 16 bits of this 'Int' value.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUShort(): UShort = UShort(this.toShort())\n
/**\n * Converts this [Long] value to [UShort].\n *\n * The least significant 16 bits of this 'Long' value.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUShort(): UShort = UShort(this.toShort())
listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()

/**
 * Creates a new read-only list with the specified [size], where each element is calculated by calling the specified
 * [init] function.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> List(size: Int, init: (index: Int) -> T): List<T> = MutableList(size, init)

/**
 * Creates a new mutable list with the specified [size], where each element is calculated by calling the specified
 * [init] function.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> MutableList(size: Int, init: (index: Int) -> T): MutableList<T> {
    val list = ArrayList<T>(size)
    repeat(size) { index -> list.add(init(index)) }
    return list
}

/**
 * Builds a new read-only [List] by populating a [MutableList] using the given [builderAction] and returning a read-only list
 * with the same elements.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <T> buildList(@BuilderInference builderAction: MutableList<T>.() -> Unit): List<T> {
    contract {
        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) } 
    return buildListInternal(builderAction)
}

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
internal expect inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>.() -> Unit): List<E>

/**
 * Returns an [IntRange] of the valid indices for this collection.
 */
public val Collection<*>.indices: IntRange
    get() = 0..size - 1

/**
 * Returns the index of the last item in the list or -1 if the list is empty.
 */
public val <T> List<T>.lastIndex: Int
    get() = this.size - 1

/**
 * Returns `true` if the collection is not empty.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()

/**
 * Returns `true` if this nullable collection is either null or empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>?.isNullOrEmpty(): Boolean {
    contract {
        returns(false) implies (this@isNullOrEmpty != null)
    }
    return this == null || this.isEmpty()
}

/**
 * Returns this collection if it's not empty or the result of calling [defaultValue] function if the collection is empty.
 */
@sample samples.collections.Collections.Collections.collectionIfEmpty

```kotlin
/*@SinceKotlin("1.3")*/
@kotlin.internal.InlineOnly
public fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<*>, C : R =
    if (isEmpty()) defaultValue() else this

/**
 * Checks if all elements in the specified collection are contained in this collection.
 * Allows to overcome type-safety restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T>
    Collection<T>.containsAll(elements: Collection<T>): Boolean =
    this.containsAll(elements)

/**
 * Returns a new list with the elements of this list randomly shuffled using the specified [random] instance as the source of randomness.
 */
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases
@kotlin.internal.InlineOnly
public fun <T> Iterable<T>.shuffled(random: Random): List<T> =
    toMutableList().apply { shuffle(random) }

internal fun <T> List<T>.optimizeReadOnlyList() = when (size) {
    0 -> emptyList()
    1 -> listOf(this[0])
    else -> this
}

/**
 * Searches this list or its range for the provided [element] using the binary search algorithm.
 * The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements, otherwise the result is undefined.
 * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.
 * 'null' value is considered to be less than any non-null value.
 * @return the index of the element, if it is contained in the list within the specified range; otherwise, the inverted insertion point `(-insertion point - 1)`.
 * The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted.
 */
public fun <T : Comparable<T>>
    List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {
    rangeCheck(size, fromIndex, toIndex)
    var low = fromIndex
    var high = toIndex - 1
    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = comparator.compare(midVal, element)
        if (cmp < 0) low = mid + 1
        else if (cmp > 0) high = mid - 1
        else return mid // key found
    }
    return -(low + 1)  // key not found
}

/**
 * Searches this list or its range for an element having the key returned by the specified [selector] function equal to the provided [key] value using the binary search algorithm.
 * The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements, otherwise the result is undefined.
 * If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.
 * 'null' value is considered to be less than any non-null value.
 * @return the index of the element with the specified [key], if it is contained in the list within the specified range; otherwise, the inverted insertion point `(-insertion point - 1)`.
 * The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted.
 */
public inline fun <T, K : Comparable<K>>
    List<T>.binarySearchByKey(key: K, fromIndex: Int = 0, toIndex: Int = size): Int {
    rangeCheck(size, fromIndex, toIndex)
    var low = fromIndex
    var high = toIndex - 1
    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = comparator.compare(midVal, key)
        if (cmp < 0) low = mid + 1
        else if (cmp > 0) high = mid - 1
        else return mid // key found
    }
    return -(low + 1)  // key not found
}
```

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 63214
List<T>.binarySearchBy(
    key: K?,
    fromIndex: Int = 0,
    toIndex: Int = size,
    crossinline selector: (T) -> K?
): Int =
    binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }

// do not introduce this
//public fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>,
//fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =
//    binarySearch(fromIndex, toIndex) {
//        comparator.compare(selector(it), key) }

/**
 * Searches this list or its range for an element for which the
 * given [comparison] function returns zero using the binary search algorithm.
 * The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements, i.e. negative values come before zero and zeroes come before positive values. Otherwise, the result is undefined. If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.
 * @param comparison comparison function that returns zero when called on the list element being searched.
 * On the elements coming before the target element, the function must return negative values; on the elements coming after the target element, the function must return positive values. If the list is contained in the list within the specified range, otherwise, the inverted insertion point `(-insertion point - 1)` is the insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted.
 * 
 * @param compareComparison comparison function that returns zero when called on the list element being searched.
 * 
 * @param sample samples.collections.Collections.Lists.binarySearchWithComparisonFunction
 */
public fun <T>
    List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {
    rangeCheck(size, fromIndex, toIndex)

    var low = fromIndex
    var high = toIndex - 1

    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = comparison(midVal)

        if (cmp < 0)
            low = mid + 1
        else if (cmp > 0)
            high = mid - 1
        else
            return mid // key found
    }
    return -(low + 1)  // key not found
}

/**
 * Checks that `from` and `to` are in the range of `0..size` and throws an appropriate exception, if they aren't.
 */
private fun rangeCheck(size: Int, fromIndex: Int, toIndex: Int) {
    when {
        fromIndex > toIndex -> throw IllegalArgumentException("fromIndex ($fromIndex) is greater than toIndex ($toIndex).")
        fromIndex < 0 -> throw IndexOutOfBoundsException("fromIndex ($fromIndex) is less than zero.")
        toIndex > size -> throw IndexOutOfBoundsException("toIndex ($toIndex) is greater than size ($size).")
    }
}

@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkIndexOverflow(index: Int): Int

@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkCountOverflow(count: Int): Int

@PublishedApi
@SinceKotlin("1.3")
internal fun throwIndexOverflow() { throw ArithmeticException("Index overflow has happened.") }

@PublishedApi
@SinceKotlin("1.3")
internal fun throwCountOverflow() { throw ArithmeticException("Count overflow has happened.") }

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")
@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@unpackage kotlin.collections
@unimport kotlin.collections.

/**
 * Returns an empty read-only map of specified type.
 */
public fun <K, V> emptyMap(): Map<K, V> = @Suppress("UNCHECKED_CAST") (EmptyMap as Map<K, V>)

/**
 * Returns a new read-only map with the specified content, given as a list of pairs.
 */
public fun <K, V> newReadOnlyMap(): Map<K, V> = @Suppress("UNCHECKED_CAST") (EmptyMap as Map<K, V>)
public fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =
    if (pairs.size > 0)
        pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))).apply { putAll(pairs) }
    else emptyMap()

/**
 * Returns an empty read-only map.
 *
 * The returned map preserves the entry iteration order.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> mapOf(): Map<K, V> = emptyMap()<K, V>()

/**
 * Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction]
 * and returning a read-only map with the same key-value pairs.
 *
 * The map passed as a receiver to the [builderAction] is valid only inside that function.
 * Using it outside of the function produces an unspecified behavior.
 *
 * @throws IllegalArgumentException if the given [capacity] is negative.
 *
 * @sample samples.collections.Builders.Maps.buildMapSample
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <K, V> buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {

    contract {
        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) } return
    buildMapInternal(builderAction) { @PublishedApi @SinceKotlin("1.3") inline @ExperimentalStdlibApi
        @kotlin.internal.InlineOnly internal expect inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {

            var map = LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }
            if (pairs.size > 0) {
                pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))).apply { putAll(pairs) } map
            }
            val newMap = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }
            if (pairs.size > 0) {
                pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))).apply { putAll(pairs) } newMap
            }
            return newMap
        }
    }
}

private fun buildMapInternal(builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {
    var map = LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }
    if (pairs.size > 0) {
        pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))).apply { putAll(pairs) } map
    }
    val newMap = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }
    if (pairs.size > 0) {
        pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))).apply { putAll(pairs) } newMap
    }
    return newMap
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return buildMapInternal(capacity, builderAction)/n}@PublishedApi@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly\n    internal expect inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>.() -> Unit): Map<K, V>?\n        * Returns `true` if this map is not empty./n * @sample samples.collections.Maps.Usage.mapIsNotEmpty
\n/**
 * Calculate the initial capacity of a map.
 */
@PublishedApi
internal expect fun mapCapacity(expectedSize: Int): Int

/**
 * Returns `true` if this map is not empty.
 * @sample samples.collections.Maps.Usage.mapIsNotEmpty
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.isEmpty(): Boolean = !isEmpty() || isNullOrEmpty \n * @sample samples.collections.Maps.Usage.mapIsNullOrEmpty

/**
 * Returns the map if it's not `null`, or the empty map otherwise.
 * @sample samples.collections.Maps.Usage.mapOrEmpty
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()

/**
 * Converts entry to \[Pair\] with key being first component and value being second.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key, value)

// false warning, extension takes precedence in some cases
\n/**
 * Removes the specified key and its corresponding value from this map.
 * @return the previous value associated with the key, or `null` if the key was not present in the map.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> MutableMap<K, V>.remove(key: K): V? =
    remove(key)\n
/*
 * Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 63217
*/
value())\n\n* Returns the value for the given key, or the result of the [defaultValue] function if there was no entry for the given key.\n\n* @sample samples.collections.Maps.Usual\n
*\n*\n@kotlin.internal.InlineOnly\n\npublic inline fun <K, V> Map<K, V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue()\n\n*\n\n/**\n* Returns the value for the given key, or the result of the [defaultValue] function if there was no entry for the given key.\n*\n* If the key is not found in the map, calls the [defaultValue] function to get the value to return.\n*\n* @sample samples.collections.Maps.Usual\n\n* @kotlin.internal.InlineOnly\n\npublic inline fun <K, V> Map<K, V>.getOrElseNullable(key: K, defaultValue: () -> V): V {
val value = get(key)\n    return if (value == null && !containsKey(key)) {
        defaultValue()\n    } else {
        value as V\n    }\n\n\n\n\n/**\n* Returns the value for the given key, or throws an exception if there is no such key in the map.\n*\n* @throws NoSuchElementException when the map doesn't contain a value for the specified key\n*\n* Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.\n\n* @sample samples.collections.Maps.Usual\n\n* @sample samples.collections.Maps.Usual\n\n* @kotlin.internal.InlineOnly\n\n\n\n/**\n* Returns a [Iterator] over the entries in the [Map].\n*\n* @sample samples.collections.Maps.Usual\n\n* @kotlin.internal.InlineOnly\n\n\n\n/**\n* Returns a [MutableIterator] over the mutable entries in the [MutableMap].\n*\n* @sample samples.collections.Maps.Usual\n\n/**\n* Puts all the given [pairs] into this [MutableMap] with the first component in the pair being the key and the second the value.\n*\n* @sample samples.collections.Maps.Usual\n\n/**\n* Puts all the elements of the given [collection] into this [MutableMap] with the first component in the pair being the key and the second the value.\n*\n* @sample samples.collections.Maps.Usual\n\n/**\n* Puts all the elements of the given [sequence] into this [MutableMap] with the first component in the pair being the key and the second the value.\n*\n* @sample samples.collections.Maps.Usual\n\n/**\n* Returns a new map with entries having the keys of this map and the values obtained by applying the [transform] function to each entry in this [Map].\n*\n* @sample samples.collections.Maps.Usual\n\n/**\n* Returns a new Map with entries having the keys obtained by applying the [transform] function to each entry in this [Map] and the values of this map.\n*\n* @sample samples.collections.Maps.Usual\n\n/**\n* Puts all the given [pairs] into this [Map] with the first component in the pair being the key and the second the value.\n*\n* @sample samples.collections.Maps.Usual\n\n/**\n* Puts all the elements of the given [collection] into this [Map] with the first component in the pair being the key and the second the value.\n*\n* @sample samples.collections.Maps.Usual\n\n/**\n* Puts all the elements of the given [sequence] into this [Map] with the first component in the pair being the key and the second the value.\n*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samples.collections.Maps.Usual\n\n/*\n* @sample samplescollections.Maps.Transformations.mapValues\n* @sample samplescollections.Maps.Transformations.mapKeys\n* @sample samplescollections.Maps.Transformations.mapValues\n* @sample samplescollections.Maps.Transformations.mapKeys
* the keys of which are contained in the given [keys] array.

* The returned map preserves the entry iteration order of the original map.

* Returns a map containing all entries of the original map except those entries
  * the keys of which are contained in the given [keys] sequence.

* The returned map preserves the entry iteration order of the original map.

* Returns a map containing all entries of the original map except those entries
  * the keys of which are contained in the given [keys] array.

* Removes the entry with the given [key] from this mutable map.

* Removes all entries the keys of which are contained in the given [keys] collection from this mutable map.

* Removes all entries the keys of which are contained in the given [keys] array from this mutable map.

*/
@SinceKotlin("1.1")
    this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()

/**
 * Returns a map containing all entries of the original map except those entries
  * the keys of which are contained in the given [keys] sequence.

 * The returned map preserves the entry iteration order of the original map.

 * Returns a map containing all entries of the original map except those entries
  * the keys of which are contained in the given [keys] array.

 * Removes the entry with the given [key] from this mutable map.

 * Removes all entries the keys of which are contained in the given [keys] collection from this mutable map.

 * Removes all entries the keys of which are contained in the given [keys] array from this mutable map.

*/

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {
    remove(key)
}

/**
 * Removes all entries the keys of which are contained in
  * the given [keys] array from this mutable map.

 * Removes all entries the keys of which are contained in
  * the given [keys] collection from this mutable map.

 * Removes all entries the keys of which are contained in
  * the given [keys] array from this mutable map.

 */

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) {
    this.keys.removeAll(keys)
}

/**
 * Removes all entries the keys of
  * which are contained in the given [keys] sequence from this mutable map.

 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Sequence<K>) {
    this.keys.removeAll(keys)
}


// do not expose for now
@PublishedApi
internal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {
    0 -> emptyMap()
    1 -> toSingletonMapOrSelf()
    else -> this
}

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")
@file:OptIn(kotlin.experimental
1.ExperimentalTypeInference::class)

package kotlin.collections

import kotlin.contracts.*

internal object

EmptySet : Set<Nothing>, Serializable {
    private const val serialVersionUID: Long =
        3406603774387020532

    override fun equals(other: Any?): Boolean = other is Set<*>
        & other.isEmpty()

    override fun hashCode(): Int = 0

    override fun toString(): String = ":[ ]"

    override val size: Int get() = 0

    override fun isEmpty(): Boolean = true

    override fun contains(element: Nothing): Boolean = false

    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()

    override fun iterator(): Iterator<Nothing> = EmptyIterator

    private fun readResolve(): Any = EmptySet
}

/**
 * Returns an empty read-only set.  The returned set is serializable (JVM).
 * @sample samples.collections.Collections.Sets.emptyReadOnlySet
 */
public fun <T> emptySet(): Set<T> = EmptySet

/**
 * Returns a new read-only set with the given elements.
 * Elements of the set are iterated in the order they were specified.
 * The returned set is serializable (JVM).
 * @sample samples.collections.Collections.Sets.readOnlySet
 */
public fun <T> setOf(vararg elements: T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()

/**
 * Returns an empty new [MutableSet].
 * Elements of the set are iterated in the order they were specified.
 * The returned set is serializable (JVM).
 * @sample samples.collections.Collections.Sets.mutableSet
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> mutableSetOf(): Set<T> = LinkedHashSet().associate { it -> it

/**
 * Returns an empty new [HashSet].
 * @sample samples.collections.Collections.Sets.hashSet
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> hashSetOf(): Set<T> = HashSet()
T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))

/**
 * Returns a new read-only set either with single given element, if it is not null, or empty set if the element is null.
 * The returned set is serializable (JVM).
 */
@sample samples.collections.Collections.Sets.emptyLinkedHashSet
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> linkedSetOf(): LinkedHashSet<T> = LinkedHashSet()

/**
 * Returns a new read-only set only with those given elements, that are not null.
 * Elements of the set are iterated in the order they were specified.
 * The returned set is serializable (JVM).
 */
@sample samples.collections.Collections.Sets.setOfNotNull
@SinceKotlin("1.4")
public fun <T : Any> setOfNotNull(element: T?): Set<T> = if (element != null) setOf(element) else emptySet()

/**
 * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction] and returning a read-only set with the same elements.
 * The set passed as a receiver to the [builderAction] is valid only inside that function.
 * Using it outside of the function produces an unspecified behavior.
 * Elements of the set are iterated in the order they were added by the [builderAction].
 */
@sample samples.collections.Builders.Sets.buildSetSample
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E> buildSet(@BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {
    contract {
        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n        return buildSetInternal(builderAction)
}

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
internal expect inline fun <E> buildSetInternal(builderAction: MutableSet<E>.() -> Unit): Set<E>

/**
 * Parses the string as a signed [Byte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@sample kotlin.jvm.jvmInternal.InlineDefaultImpl
@SinceKotlin("1.1")
public fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)

/**
 * Parses the string as a signed [Byte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@sample kotlin.jvm.jvmInternal.InlineDefaultImpl
@SinceKotlin("1.1")
public fun String.toByteOrNull(radix: Int): Byte? = toByteOrNull(radix)

// Kotlin source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()

// Optimization - use signed division if both dividend and divisor < 2^63
if (dividend >= divisor) {
    val quot = dividend / divisor
    val rem = dividend % divisor
    return quot * divisor + rem
}

// Optimization - use signed modulus if both dividend and divisor < 2^63
if (dividend >= divisor) {
    return dividend % divisor
}

doubleToUInt(v: Double): Int = when {
    v.isNaN() -> 0
    v <= Int.MIN_VALUE.toDouble() -> Int.MIN_VALUE
    v >= Int.MAX_VALUE.toDouble() -> Int.MAX_VALUE
    v <= Float.MAX_VALUE.toDouble() -> v.toInt().toUInt()
    else -> (v - Float.MAX_VALUE.toDouble()).toInt().toUInt() + Float.MAX_VALUE.toUInt()
}

doubleToULong(v: Double): ULong = when {
    v.isNaN() -> 0
    v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE
    v >= ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE
    v < Long.MAX_VALUE => v.toLong().toULong()
    else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL
}

ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)

ulongToString(v: Long): String = ulongToString(v, 10)

ulongToString(v: Long, base: Int): String {
    if (v >= 0) return v.toString(base)

    var quot = ((v ushr 1) / base) shl 1
    var rem = v - quot * base

    if (rem >= base) {
        rem -= base
        quot += 1
    }
    return quot.toString(base) + rem.toString(base)
}

CollectionsKt

package kotlin.collections

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
 * contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
 * license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

open class CollectionsKt

package kotlin.collections

public class CollectionsKt

// Given an [iterator] function constructs an [Iterable] instance that returns values through
// the [iterator] function. It's provided by that function. *
// @sample samples.collections.Iterables

// Returns true when it's safe to convert this collection to a set without changing contains behavior.
private fun Collection<T>.safeToConvertToSet(): Boolean { return this is ArrayList && size > 2 }
Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =
    when (this) {
        is Set -> this
        is Collection ->
            when {
                source is Collection && source.size < 2 -> this

else -> if (this.safeToConvertToSet()) toHashSet() else this
            }
        else -> toHashSet()
    }

>Returns a single list of all elements from all collections in the given collection.

Iterable<T>.convertToSetForSetOperationWith(): Collection<T> =
    when (this) {
        is Set -> this
        is Collection ->
            when {
                source is Collection && source.size < 2 -> this

else -> if (this.safeToConvertToSet()) toHashSet() else this
            }
        else -> toHashSet()
    }

/**
 * Converts this collection to a set, when it's worth so and it doesn't change contains method behavior. *
 */
internal fun <T> Iterable<T>.convertToSet(): Collection<T> =
    when (this) {
        is Set -> this
        is Collection -> if (this.safeToConvertToSet()) toHashSet() else this
        else -> toHashSet()
    }

/**
 * Returns a single list of all elements from all collections in the given collection.
 */
@sample
package
collections.Iterables.Operations.flattenIterable

/**
 * Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator]
 * provided by that function. The values are evaluated lazily, and the sequence is potentially infinite.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {
    override fun iterator(): Iterator<T> = iterator()
}

/**
 * Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()

/**
 * Returns a sequence that iterates through the elements either of
 * this sequence or, if this sequence turns out to be empty, of the sequence returned by 
 * [defaultValue] function.
 */
@SinceKotlin("1.3")
public fun <T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {
    @since("1.3")
    val iterator = this@ifEmpty.iterator()
    if (iterator.hasNext()) {
        yieldAll(iterator)
    } else {
        yieldAll(defaultValue())
    }
}

/**
 * Returns a sequence that returns values through the [Iterator]
 * provided by that function.
 */
@kotlin.internal.InlineOnly
public fun <T, R> Iterable<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {
    val expectedSize = collectionSizeOrDefault(10)
    val listT = ArrayList<T>(expectedSize)
    val listR = ArrayList<R>(expectedSize)
    for (pair in this) {
        listT.add(pair.first)
        listR.add(pair.second)
    }
    return listT to listR
}

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SequencesKt")

package
kotlin.sequences

import kotlin.random.Random

/**
 * Given an [iterator] function constructs a [Sequence]
 * that returns values through the [Iterator]
 * provided by that function. The values are evaluated lazily, and the sequence is potentially infinite.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {
    override fun iterator(): Iterator<T> = iterator()
}

/**
 * Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()

/**
 * Returns a sequence that iterates through the elements either of
 * this sequence or, if this sequence turns out to be empty, of the sequence returned by 
 * [defaultValue] function.
 */
@SinceKotlin("1.3")
public fun <T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {
    @since("1.3")
    val iterator = this@ifEmpty.iterator()
    if (iterator.hasNext()) {
        yieldAll(iterator)
    } else {
        yieldAll(defaultValue())
    }
}

/**
 * Returns a sequence that iterates through the elements either of
 * this sequence or, if this sequence turns out to be empty, of the sequence returned by 
 * [defaultValue] function.
 */
@kotlin.internal.InlineOnly
public fun <T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {
    @since("1.3")
    val iterator = this@ifEmpty.iterator()
    if (iterator.hasNext()) {
        yieldAll(iterator)
    } else {
        yieldAll(defaultValue())
    }
}

/**
 * Given an [iterator] function constructs a [Sequence]
 * that returns values through the [Iterator]
 * provided by that function. The values are evaluated lazily, and the sequence is potentially infinite.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {
    override fun iterator(): Iterator<T> = iterator()
}

/**
 * Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()

/**
 * Returns a sequence that iterates through the elements either of
 * this sequence or, if this sequence turns out to be empty, of the sequence returned by 
 * [defaultValue] function.
 */
@SinceKotlin("1.3")
public fun <T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {
    @since("1.3")
    val iterator = this@ifEmpty.iterator()
    if (iterator.hasNext()) {
        yieldAll(iterator)
    } else {
        yieldAll(defaultValue())
    }
}

/**
 * Given an [iterator] function constructs a [Sequence]
 * that returns values through the [Iterator]
 * provided by that function. The values are evaluated lazily, and the sequence is potentially infinite.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {
    override fun iterator(): Iterator<T> = iterator()
}

/**
 * Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()
Sequence<R> {\n    if (this is TransformingSequence<*, *>){\n        return (this as TransformingSequence<*, T>).flatten(iterator)\n    }\n    return FlatteningSequence(this, it, iterator)\n}/**\n * Returns a pair of lists, where *first* list is built from the first values of each pair from this sequence, *second* list is built from the second values of each pair from this sequence.\n */\npublic fun <T, R> Sequence<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>()\n    val listR = ArrayList<R>()\n    for (pair in this) {\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}/**\n * Returns a sequence that yields elements of this sequence randomly shuffled.\n */\npublic fun <T, R> Sequence<Pair<T, R>>.shuffled(): Sequence<T> = shuffled(Random)\n
/**\n * Returns a sequence that yields elements of this sequence randomly shuffled using the specified [random] instance as the source of randomness.\n */\npublic fun <T> Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {\n    val buffer = toMutableList()\n    while (buffer.isNotEmpty()) {\n        val j = random.nextInt(buffer.size)\n        val last = buffer.removeLast()\n        val value = if (j < buffer.size) buffer.set(j, last) \n        else last\n    }\n}/**\n * A sequence that returns the values from the underlying [sequence] that either match or do not match the specified [predicate].\n */\ninternal class FilteringSequence<T>(\n    private val sequence: Sequence<T>,\n    private val sendWhen: Boolean = true,\n    private val predicate: (T) -> Boolean\n) : Sequence<T> {\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator = sequence.iterator()\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n        var nextItem: T? = null\n
        private fun calcNext() {\n            while (iterator.hasNext()) {\n                val item = iterator.next()\n                if (predicate(item) == sendWhen) {\n                    nextItem = item\n                    nextState = 1\n                    return\n                }\n            }\n            nextState = 0\n        }

        override fun next(): T {\n            if (nextState == -1)\n                calcNext()\n            if (nextState == 0)\n                throw NoSuchElementException()\n            val result = nextItem\n            nextItem = null\n            nextState = -1\n            return result\n        }

        override fun hasNext(): Boolean {\n            if (nextState == -1)\n                calcNext()\n            return nextState == 1\n        }
    }
}/**\n * A sequence which returns the results of applying the given [transformer] function to the values in the underlying [sequence].\n */\n
internal class TransformingSequence<T, R>
constructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) : Sequence<R> {\n    override fun iterator(): Iterator<R> = object : Iterator<R> {\n        val iterator = sequence.iterator()\n        override fun next(): R {\n            return transformer(iterator.next())\n        }

        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }
    }\n
    internal fun <E> flatten(iterator: (R) -> Iterator<E>): Sequence<E> {\n        return FlatteningSequence<T, R, E>(sequence, transformer, iterator)\n    }
}/**\n * A sequence which returns the results of applying the given [transformer] function to the values in the underlying [sequence], where the transformer function takes the index of the value in the underlying sequence along with the value itself.\n */\n
internal class TransformingIndexedSequence<T, R>
constructor(private val sequence: Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {\n    override fun iterator(): Iterator<R> = object : Iterator<R> {\n        val iterator = sequence.iterator()\n        var index = 0

        override fun next(): R {\n            return transformer(checkIndexOverflow(index++), iterator.next())\n        }

        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }
    }
}/**\n * A sequence which combines values from the underlying [sequence] with their indices and returns them as [IndexedValue] objects.\n */\n
internal class IndexingSequence<T>
constructor(private val sequence: Sequence<T>) : Sequence<IndexedValue<T>> {\n    override fun iterator(): Iterator<IndexedValue<T>> = object : Iterator<IndexedValue<T>> {\n        val iterator = sequence.iterator()\n        var index = 0

        override fun next(): IndexedValue<T> {\n            return IndexedValue(index++, iterator.next())\n        }

        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }
    }
}
returns values from the underlying \([sequence]\) while the \(\[predicate\]\) function returns \(* \ `true`, and stops returning
* \`

```kotlin
override fun hasNext(): Boolean {
    return left > 0 && iterator.hasNext()
}
```

```kotlin
/**
 * A sequence that returns at most \(\[count]\) values from the underlying \([sequence]\), and stops returning values
 * as soon as that count is reached.
 */
internal class TakeSequence<T>(
    private val sequence: Sequence<T>,
    private val count: Int
) : Sequence<T>, DropTakeSequence<T> {

    init {
        require(count >= 0) { "count must be non-negative, but was $count." }
    }

    override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, n, count)
    override fun take(n: Int): Sequence<T> = if (n < count) this else SubSequence(sequence, n, count)

    override fun iterator(): Iterator<T> = object : Iterator<T> {
        val iterator = sequence.iterator()
        var position = 0

        override fun hasNext(): Boolean {
            return ensureItemIterator() && iterator.hasNext()
        }

        private fun ensureItemIterator(): Boolean {
            if (itemIterator?.hasNext() == false)
                itemIterator = null
            return true
        }

        override fun next(): T {
            if (itemIterator == null)
                throw NoSuchElementException()
            val element = iterator.next()
            val nextItemIterator = iterator(transformer(element))
            while (itemIterator == null) {
                if (!iterator.hasNext()) {
                    return false
                } else {
                    itemIterator = nextItemIterator
                    position++
                    return true
                }
            }
            return itemIterator.next()
        }

        private fun nextItemIterator(): Iterator<T> {
            if (nextItemIterator?.hasNext() == false)
                nextItemIterator = null
            return nextItemIterator
        }
    }
}
```
override fun hasNext(): Boolean {
    if (nextState < 0)
        calcNext()
    return nextState == 1
}

/**
 * Returns a wrapper sequence that provides
 * values of this sequence, but ensures it can be iterated only one time.
 * The operation is _intermediate_ and _stateless_.
 * [IllegalStateException] is thrown on iterating the returned sequence from the second time.
 * Returns a sequence which invokes the function to calculate the next value on each iteration until the function returns `null`.
 * The returned sequence is constrained to be iterated only once.
 * The sequence can be iterated multiple times, each time starting with [seed].
 * The sequence produces values until it encounters first `null` value.
 * If [seed] is `null`, an empty sequence is produced.
 * The sequence can be iterated multiple times, each time starting with [seed].
 */
public fun <T> Sequence<T>.constrainOnce(): Sequence<T> {
    // as? does not work in js
    //return this as?
    return if (this is ConstrainedOnceSequence<T>)
        this else ConstrainedOnceSequence<T>(nextFunction())
    return GeneratorSequence(nextFunction)
}

/**
 * Returns a sequence defined by the starting value [seed] and the function [nextFunction],
 * which is invoked to produce the starting value, and the [nextFunction],
 * which is invoked to calculate the next value based on the previous one on each iteration.
 * The sequence produces values until it encounters first `null` value.
 * If [seed] is `null`, an empty sequence is produced.
 * The sequence can be iterated multiple times, each time starting with [seed].
 */
public fun <T : Any> generateSequence(seed: T?,
    nextFunction: (T) -> T?): Sequence<T> =
    if (seed == null)
        EmptySequence
    else
        GeneratorSequence({ seed }, nextFunction)

/**
 * Throws an [IllegalArgumentException] if the [value] is false.
 * @sample samples.misc.Preconditions.failRequireWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean): Unit {
    contract {
        returns() implies value
    }
    require(value) {
        "Failed requirement." }
}

/**
 * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is false.
 * @sample samples.misc.Preconditions.failRequireWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns() implies value
    }
    if (!value) {
        val message = lazyMessage()
        throw IllegalArgumentException(message.toString())
    }
}

/**
 * Throws an [IllegalStateException] if the [value] is false.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun
check(value: Boolean): Unit {
    contract {
        returns() implies value
    }
    check(value) { "Check failed." }
}

/**
 * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.
 * Otherwise returns the not null value.
 */
@sample samples.missing.Length
public inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns() implies value
    }
    if (!value) {
        throw IllegalStateException(lazyMessage().toString())
    } else {
        return value
    }
}

/**
 * Throws an [IllegalStateException] with the given [message] if the [value] is null. Otherwise returns the not null value.
 */
@sample samples.missing.Length
    return checkNotNull(value, message) { "Required value was null." }
}

/**
 * Throws an [IllegalStateException] with the given [message] at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@sample samples.missing.Length
public inline fun <T> Array<T>.elementAt(index: Int): T {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@sample samples.missing.Length
public inline fun ByteArray.elementAt(index: Int): Byte {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@sample samples.missing.Length
public inline fun ShortArray.elementAt(index: Int): Short {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@sample samples.missing.Length
public inline fun IntArray.elementAt(index: Int): Int {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@sample samples.missing.Length
public inline fun LongArray.elementAt(index: Int): Long {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@sample samples.missing.Length
public inline fun FloatArray.elementAt(index: Int): Float {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@sample samples.missing.Length
public inline fun DoubleArray.elementAt(index: Int): Double {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}
actual fun BooleanArray.elementAt(index: Int): Boolean {
    throw IndexOutOfBoundsException("index: $index, size: $size")
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * If any of arrays contains itself on any nesting level the behavior is undefined.
 * Elements of other types are compared for equality with the [equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 * 
 * @param element the element to return from this list
 * @param index the index of the element to return
 * @return the element at the specified index
 * @throws IndexOutOfBoundsException if the specified index is out of bounds
 */
actual fun CharArray.elementAt(index: Int): Char {
    throw IndexOutOfBoundsException("index: $index, size: $size")
}

/**
 * Returns a [List] that wraps the original array.
 * 
 * If any of arrays contains itself on any nesting level the behavior is undefined.
 * Elements of other types are compared for equality with the [equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 * 
 * @param object the object to return from this list
 * @param index the index of the element to return
 * @return the element at the specified index
 * @throws IndexOutOfBoundsException if the specified index is out of bounds
 */
actual fun CharArray.asList(): List<Char> {
    // Implementation...
}

/**
 * Returns a [List] that wraps the original array.
 * 
 * If any of arrays contains itself on any nesting level the behavior is undefined.
 * Elements of other types are compared for equality with the [equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 * 
 * @param other the other array to compare
 * @return true if the two arrays are deeply equal
 */
actual infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {
    // Implementation...
}

/**
 * Returns a hash code based on the contents of this array as if it is a list.
 * 
 * If any of arrays contains itself on any nesting level the behavior is undefined.
 * Elements of other types are compared for equality with the [equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 * 
 * @return the hash code of this array
 */
actual fun <T> Array<out T>.contentHashCode(): Int {
    // Implementation...
}
contains itself on any nesting level the behavior is undefined.

```kotlin
@SinceKotlin("1.4")
fun library("arrayDeepHashCode")
public actual fun <T> Array<out T>? .contentDeepHashCode(): Int
@definedExternally
returns a string representation of the contents of this array as if it is a [List].
@nested arrays are treated as lists too.
If any of arrays contains itself on any nesting level that reference is rendered as `"[...]"` to prevent recursion.

@SinceKotlin("1.1")
fun library("arrayDeepToString")
public actual fun <T> Array<out T>? .contentDeepToString(): String
@definedExternally
returns a string representation of the contents of this array as if it is a [List].
@nested arrays are treated as lists too.
If any of arrays contains itself on any nesting level that reference is rendered as `"[...]"` to prevent recursion.

@SinceKotlin("1.4")
fun library("arrayDeepToString")
public actual fun <T> ByteArray .contentDeepToString(): String
@SinceKotlin("1.1")
fun library("arrayDeepToString")
public actual fun <T> ShortArray .contentDeepToString(): String
@SinceKotlin("1.4")
fun library("arrayDeepToString")
public actual fun <T> IntArray .contentDeepToString(): String
@SinceKotlin("1.1")
fun library("arrayDeepToString")
public actual fun <T> LongArray .contentDeepToString(): String
@SinceKotlin("1.4")
fun library("arrayDeepToString")
public actual fun <T> FloatArray .contentDeepToString(): String
```

```kotlin
public actual fun <T> Array<out T>?.contentDeepToString(): String
@definedExternally
returns a string representation of the contents of this array as if it is a [List].
@nested arrays are treated as lists too.
If any of arrays contains itself on any nesting level that reference is rendered as `"[...]"` to prevent recursion.
```
`true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. *

```
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean {
    return this.contentEquals(other)
}
```

Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {
    return this.contentEquals(other)
}
```

Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun <T> Array<out T?>.contentEquals(other: Array<out T?>): Boolean {
    definedExternally
}
```

Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean {
    definedExternally
}
```

Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean {
    definedExternally
}
```

Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun IntArray?.contentEquals(other: IntArray?): Boolean {
    definedExternally
}
```

Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun LongArray?.contentEquals(other: LongArray?): Boolean {
    definedExternally
}
```

Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean {
    definedExternally
}
```
*structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

The elements are compared for equality with the [equals][Any.equals] function.

For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```kotlin
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean {
    definedExternally
}
```

The elements are compared for equality with the [equals][Any.equals] function.

For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```kotlin
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean {
    definedExternally
}
```

The elements are compared for equality with the [equals][Any.equals] function.

For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```kotlin
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun CharArray?.contentEquals(other: CharArray?): Boolean {
    definedExternally
}
```

A hash code based on the contents of this array as if it is [List].

```kotlin
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun <T> Array<out T>.contentHashCode(): Int {
    return this.contentHashCode()
}
```

A hash code based on the contents of this array as if it is [List].

```kotlin
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun ByteArray?.contentHashCode(): Int {
    definedExternally
}
```

A hash code based on the contents of this array as if it is [List].

```kotlin
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun ShortArray?.contentHashCode(): Int {
    definedExternally
}
```

A hash code based on the contents of this array as if it is [List].

```kotlin
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun IntArray?.contentHashCode(): Int {
    definedExternally
}
```

A hash code based on the contents of this array as if it is [List].

```kotlin
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun LongArray?.contentHashCode(): Int {
    definedExternally
}
```

A hash code based on the contents of this array as if it is [List].

```kotlin
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun FloatArray?.contentHashCode(): Int {
    definedExternally
}
```

A hash code based on the contents of this array as if it is [List].

```kotlin
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun DoubleArray?.contentHashCode(): Int {
    definedExternally
}
```

A hash code based on the contents of this array as if it is [List].

```kotlin
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun BooleanArray?.contentHashCode(): Int {
    definedExternally
}
```

A hash code based on the contents of this array as if it is [List].

```kotlin
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun CharArray?.contentHashCode(): Int {
    definedExternally
}
```
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contents of this array as if it is [List].

```kotlin
@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun IntArray?.contentHashCode(): Int {
    definedExternally
}

@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun LongArray?.contentHashCode(): Int {
    definedExternally
}

@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun FloatArray?.contentHashCode(): Int {
    definedExternally
}

@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun DoubleArray?.contentHashCode(): Int {
    definedExternally
}

@SinceKotlin("1.4")
@library("arrayHashCode")
public actual fun BooleanArray?.contentHashCode(): Int {
    definedExternally
}

@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun <T> Array<out T>.contentToString(): String {
    return this.contentToString()
}

@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun ByteArray.contentToString(): String {
    return this.contentToString()
}

@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun ShortArray.contentToString(): String {
    return this.contentToString()
}

@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun IntArray.contentToString(): String {
    return this.contentToString()
}

@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun LongArray.contentToString(): String {
    return this.contentToString()
}

@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun FloatArray.contentToString(): String {
    return this.contentToString()
}

@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun DoubleArray.contentToString(): String {
    return this.contentToString()
}

@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun BooleanArray.contentToString(): String {
    return this.contentToString()
}

@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun CharArray.contentToString(): String {
    return this.contentToString()
}
```

samples.collections.Arrays.ContentOperations.contentToString

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun <T> Array<out T>.contentToString(): String {
    return this.contentToString()
}

samples.collections.Arrays.ContentOperations.contentToString

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun ByteArray.contentToString(): String {
    return this.contentToString()
}

samples.collections.Arrays.ContentOperations.contentToString

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun ShortArray.contentToString(): String {
    return this.contentToString()
}

samples.collections.Arrays.ContentOperations.contentToString

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun IntArray.contentToString(): String {
    return this.contentToString()
}

samples.collections.Arrays.ContentOperations.contentToString

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun LongArray.contentToString(): String {
    return this.contentToString()
}
```

samples.collections.Arrays.ContentOperations.contentToString

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun FloatArray.contentToString(): String {
    return this.contentToString()
}

samples.collections.Arrays.ContentOperations.contentToString

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun DoubleArray.contentToString(): String {
    return this.contentToString()
}

samples.collections.Arrays.ContentOperations.contentToString

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun BooleanArray.contentToString(): String {
    return this.contentToString()
}

samples.collections.Arrays.ContentOperations.contentToString

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun CharArray.contentToString(): String {
    return this.contentToString()
}

```
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0,\nstartIndex: Int = 0, endIndex: Int = size): ByteArray {\narrayCopy(this.unsafeCast<Array<Byte>>(),\ndestination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n* Copies this array or its subrange into the [destination] array and returns that array.\n* \n* @param destination the array to copy to, 0 by default.\n* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n* \n* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n* or when that index is out of the [destination] array indices range.\n* \n* @return the [destination] array.\n
@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0,\nstartIndex: Int = 0, endIndex: Int = size): ShortArray {\narrayCopy(this.unsafeCast<Array<Short>>(),\ndestination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n* Copies this array or its subrange into the [destination] array and returns that array.\n* \n* @param destination the array to copy to, 0 by default.\n* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n* \n* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n* or when that index is out of the [destination] array indices range.\n* \n* @return the [destination] array.\n
@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0,\nstartIndex: Int = 0, endIndex: Int = size): IntArray {\narrayCopy(this.unsafeCast<Array<Int>>(),\ndestination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n* Copies this array or its subrange into the [destination] array and returns that array.\n* \n* @param destination the array to copy to, 0 by default.\n* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n* \n* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n* or when that index is out of the [destination] array indices range.\n* \n* @return the [destination] array.\n
@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0,\nstartIndex: Int = 0, endIndex: Int = size): LongArray {\narrayCopy(this.unsafeCast<Array<Long>>(),\ndestination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)\n* Copies this array or its subrange into the [destination] array and returns that array.\n* \n* @param destination the array to copy to, 0 by default.\n* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n* \n* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n* or when that index is out of the [destination] array indices range.\n* \n* @return the [destination] array.\n
@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual inline fun U8Array.copyInto(destination: U8Array, destinationOffset: Int = 0,\nstartIndex: Int = 0, endIndex: Int = size): U8Array {\narrayCopy(this.unsafeCast<Array<Byte>>(),\ndestination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n* Copies this array or its subrange into the [destination] array and returns that array.\n* \n* @param destination the array to copy to, 0 by default.\n* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n* \n* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n* or when that index is out of the [destination] array indices range.\n* \n* @return the [destination] array.\n
@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual inline fun U16Array.copyInto(destination: U16Array, destinationOffset: Int = 0,\nstartIndex: Int = 0, endIndex: Int = size): U16Array {\narrayCopy(this.unsafeCast<Array<Short>>(),\ndestination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n* Copies this array or its subrange into the [destination] array and returns that array.\n* \n* @param destination the array to copy to, 0 by default.\n* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n* \n* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n* or when that index is out of the [destination] array indices range.\n* \n* @return the [destination] array.

@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual inline fun U32Array.copyInto(destination: U32Array, destinationOffset: Int = 0,\nstartIndex: Int = 0, endIndex: Int = size): U32Array {\narrayCopy(this.unsafeCast<Array<Int>>(),\ndestination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n* Copies this array or its subrange into the [destination] array and returns that array.\n* \n* @param destination the array to copy to, 0 by default.\n* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n* \n* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n* or when that index is out of the [destination] array indices range.\n* \n* @return the [destination] array.

@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual inline fun U64Array.copyInto(destination: U64Array, destinationOffset: Int = 0,\nstartIndex: Int = 0, endIndex: Int = size): U64Array {\narrayCopy(this.unsafeCast<Array<Long>>(),\ndestination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)\n* Copies this array or its subrange into the [destination] array and returns that array.\n* \n* @param destination the array to copy to, 0 by default.\n* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n* \n* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n* or when that index is out of the [destination] array indices range.\n* \n* @return the [destination] array.
startIndex: Int = 0, endIndex: Int = size): CharArray {n  arrayCopy(this.unsafeCast<Array<Char>>(),
destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)n  return destination\n}n/**n * Returns new array which is a copy of the original array.\n* @sample
samples.collections.Arrays.CopyOfOperations.copyOf(n */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun <T> ArrayCopy<T>.copyOf(): T ArrayCopy\n{ return this.asDynamic().slice(0, this.size)\n}n/**n * Returns new array which is a copy of the original array.\n* @sample
samples.collections.Arrays.CopyOfOperations.copyOf(n */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun ByteArray.copyOf(): ByteArray { return this.asDynamic().slice(0, this.size)\n}n/**n * Returns new array which is a copy of the original array.\n* @sample
samples.collections.Arrays.CopyOfOperations.copyOf(n */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun ShortArray.copyOf(): ShortArray { return this.asDynamic().slice(0, this.size)\n}n/**n * Returns new array which is a copy of the original array.\n* @sample
samples.collections.Arrays.CopyOfOperations.copyOf(n */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun IntArray.copyOf(): IntArray { return this.asDynamic().slice(0, this.size)\n}n/**n * Returns new array which is a copy of the original array.\n* @sample
samples.collections.Arrays.CopyOfOperations.copyOf(n */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun LongArray.copyOf(): LongArray { return this.asDynamic().slice(0, this.size)\n}n/**n * Returns new array which is a copy of the original array.\n* @sample
samples.collections.Arrays.CopyOfOperations.copyOf(n */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun FloatArray.copyOf(): FloatArray { return this.asDynamic().slice(0, this.size)\n}n/**n * Returns new array which is a copy of the original array.\n* @sample
samples.collections.Arrays.CopyOfOperations.copyOf(n */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun DoubleArray.copyOf(): DoubleArray { return this.asDynamic().slice(0, this.size)\n}n/**n * Returns new array which is a copy of the original array.\n* @sample
samples.collections.Arrays.CopyOfOperations.copyOf(n */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun CharArray.copyOf(): CharArray { return this.asDynamic().slice(0, this.size)\n}n/**n * Returns new array which is a copy of the original array.\n* @sample
samples.collections.Arrays.CopyOfOperations.copyOf(n */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun BooleanArray.copyOf(): BooleanArray { return this.asDynamic().slice(0, this.size)\n}n/**n * Returns new array which is a copy of the original array.\n* @sample
samples.collections.Arrays.CopyOfOperations.copyOf(n */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun ByteArray.copyOf(newSize: Int): ByteArray { return fillFrom(this, ByteArray(newSize))\n}n/**n * Returns new array which is a copy of the original array, resized to the given
[newSize].\n* The copy is either truncated or padded at the end with zero values if necessary.\n* @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n* */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun ShortArray.copyOf(newSize: Int): ShortArray { return fillFrom(this, ShortArray(newSize))\n}n/**n * Returns new array which is a copy of the original array, resized to the given
[newSize].\n* The copy is either truncated or padded at the end with zero values if necessary.\n* @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n* */@Suppress("ACTUAL_WITHOUT_EXPECTY", \"NOTHING_TO_INLINE\")public actual inline fun IntArray.copyOf(newSize: Int): IntArray { return fillFrom(this, IntArray(newSize))\n}n/**n * Returns new array which is a copy of the original array, resized to the given
[newSize].\n* The copy is either truncated or padded at the end with zero values if necessary.\n
* \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun LongArray.copyOf(newSize: Int): LongArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("LongArray", arrayCopyResize(this, newSize, 0L))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun FloatArray.copyOf(newSize: Int): FloatArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, FloatArray(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, DoubleArray(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with `false` values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("BooleanArray", arrayCopyResize(this, newSize, false))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\u0000`) values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun CharArray.copyOf(newSize: Int): CharArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("CharArray", fillFrom(this, CharArray(newSize)))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with `null` values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf
 */
@Suppress("ACTUAL_WITHOUT_EXPECT")
public actual fun <T> Array<out T>.copyOf(newSize: Int): Array<T> {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * @sample samples.Collections.Arrays.CopyOfOperations.resizingCopyOf
 */
@Suppress("ACTUAL_WITHOUT_EXPECT")
public actual fun <T> Array<out T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

*\n* - Suppress("\ACTUAL\_WITHOUT\_EXPECT")\n*\n* \n* @param fromIndex the start of the range (inclusive) to copy.
* @param toIndex the end of the range (exclusive) to copy.
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
* @sample samples.Collections.Arrays.CopyOfOperations.resizingCopyOf
*/
@Suppress("ACTUAL\_WITHOUT\_EXPECT")
public actual fun <T> Array<out T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
    * @param fromIndex the start of the range (inclusive) to copy.
    * @param toIndex the end of the range (exclusive) to copy.
    * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
    * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
    * @param fromIndex the start of the range (inclusive) to copy.
    * @param toIndex the end of the range (exclusive) to copy.
    * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
    * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
    * @param fromIndex the start of the range (inclusive) to copy.
    * @param toIndex the end of the range (exclusive) to copy.
    * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
    * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
    * @param fromIndex the start of the range (inclusive) to copy.
    * @param toIndex the end of the range (exclusive) to copy.
    * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
    * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
    * @param fromIndex the start of the range (inclusive) to copy.
    * @param toIndex the end of the range (exclusive) to copy.
    * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
    * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
    * @param fromIndex the start of the range (inclusive) to copy.
    * @param toIndex the end of the range (exclusive) to copy.
    * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
    * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("BooleanArray", this.asDynamic().slice(fromIndex, toIndex))
    * @param fromIndex the start of the range (inclusive) to copy.
    * @param toIndex the end of the range (exclusive) to copy.
    * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
    * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("CharArray", this.asDynamic().slice(fromIndex, toIndex))
    * @param fromIndex the start of the range (inclusive) to copy.
    * @param toIndex the end of the range (exclusive) to copy.
    * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
    * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

Array.copyOfRange(fromIndex: Int, toIndex: Int): Array {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("Array", this.asDynamic().slice(fromIndex, toIndex))
    * @param fromIndex the start of the range (inclusive) to copy.
    * @param toIndex the end of the range (exclusive) to copy.
    * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
    * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

* 

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

* @SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

* @SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

* @SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

* @SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

* @SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

*/

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to fill, size of this array by default.\n * @param \n @throws IndexOutOfBoundsException if \[fromIndex\] is less than zero or \[toIndex\] is greater than the size of this array.\n * @throws IllegalArgumentException if \[fromIndex\] is greater than \[toIndex\].

\n  */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public
abstract fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {
    \n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified \[element\] value.
 * @param \n * fromIndex the start of the range to fill, 0 by default.\n * \[toIndex\] the end of the range (exclusive) to fill, size of this array by default.\n * @param \n * @throws IndexOutOfBoundsException if \[fromIndex\] is less than zero or \[toIndex\] is greater than the size of this array.\n * @throws IllegalArgumentException if \[fromIndex\] is greater than \[toIndex\].

\n
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public
abstract fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {
    \n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified \[element\] value.
 * @param \n * fromIndex the start of the range (inclusive) to fill, 0 by default.\n * \[toIndex\] the end of the range (exclusive) to fill, size of this array by default.\n * @param \n * @throws IndexOutOfBoundsException if \[fromIndex\] is less than zero or \[toIndex\] is greater than the size of this array.\n * @throws IllegalArgumentException if \[fromIndex\] is greater than \[toIndex\].

\n
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public
abstract fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {
    \n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Returns an array containing all elements of the original array and then the given \[element\].

\n
 */
@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")
public
actual inline operator
fun <T> Array<out T>.plus(element: T): Array<T> {
    return
this.asDynamic().concat(arrayOf(element))
}

/**
 * Returns an array containing all elements of the original
array and all elements of the given \[elements\] collection.

\n
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun <T> Array<out T>.plus(elements:
containing all elements of the original array and then all elements of the given [elements] array.

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun CharArray.plus(elements: CharArray): CharArray {
    return primitiveArrayConcat(this, elements)
}

/**
 * Returns an array containing
 * all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline fun <T> Array<out T> plusElement(element: T): Array<T> {
    return this.asDynamic().concat(arrayOf(element)).unsafeCast<T>()
}

/**
 * Returns an array containing
 * all elements of the original array and then all elements of the given [elements] array.
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArray
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ByteArray>()
    subarray.sort()
}

/**
 * Returns an array containing
 * all elements of the original array and then all elements of the given [elements] array.
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun Array<out ArrayOfComparable>.sortRangeOfArray(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<Array<out ArrayOfComparable>>()
    subarray.sort()
}

/**
 * Returns an array containing
 * all elements of the original array and then all elements of the given [elements] array.
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun Array<out ArrayOfComparable>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<Array<out ArrayOfComparable>>()
    subarray.sort()
}

/**
 * Returns an array containing
 * all elements of the original array and then all elements of the given [elements] array.
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun Array<out ArrayOfComparable>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<Array<out ArrayOfComparable>>()
    subarray.sort()
}

/**
 * Returns an array containing
 * all elements of the original array and then all elements of the given [elements] array.
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun Array<out ArrayOfComparable>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<Array<out ArrayOfComparable>>()
    subarray.sort()
}

/**
 * Returns an array containing
 * all elements of the original array and then all elements of the given [elements] array.
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun Array<out ArrayOfComparable>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<Array<out ArrayOfComparable>>()
    subarray.sort()
}

/**
 * Returns an array containing
 * all elements of the original array and then all elements of the given [elements] array.
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun Array<out ArrayOfComparable>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<Array<out ArrayOfComparable>>()
    subarray.sort()
}

/**
 * Returns an array containing
 * all elements of the original array and then all elements of the given [elements] array.
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun Array<out ArrayOfComparable>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<Array<out ArrayOfComparable>>()
    subarray.sort()
}

/**
 * Returns an array containing
 * all elements of the original array and then all elements of the given [elements] array.
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun Array<out ArrayOfComparable>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<Array<out ArrayOfComparable>>()
    subarray.sort()
}

/**
 * Returns an array containing
 * all elements of the original array and then all elements of the given [elements] array.
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun Array<out ArrayOfComparable>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<Array<out ArrayOfComparable>>()
    subarray.sort()
}

/**
 * Returns an array containing
 * all elements of the original array and then all elements of the given [elements] array.
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable
 */
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun Array<out ArrayOfComparable>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<Array<out ArrayOfComparable>>()
    subarray.sort()
val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<CharArray>().sort()

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AbstractList.checkRangeIndexes(fromIndex, toIndex, size) * Sorts the array in-place according to the order specified by the given [comparison] function.

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 */


license/LICENSE.txt file
/*
\* @file:kotlin.jvm.JvmName("ComparisonsKt")
\* @file:kotlin.jvm.JvmMultifileClass
\* \n
package kotlin.comparisons

/**
 * Compares two values using the specified functions [selectors] to calculate the result of the comparison.
 * The functions are called sequentially, receive the given values [a] and [b] and return [Comparable] objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do not compare as equal, the result of that comparison is returned.
 */

public fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>) : Int {
    return compareValuesByImpl(a, b, selectors)
}

private fun <T> compareValuesByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>>?) : Int {
    var diff = compareValues(v1, v2)
    if (diff != 0) return diff
    return 0
}

/**
 * Compares two values using the specified [selector] function to calculate the result of the comparison.
 * The result of comparison of these [Comparable] instances is returned.
 */

public inline fun <T> compareValuesBy(selector: (T) -> Comparable<*>) : Int {
    return compareValuesByImpl(a, b, selector)
}

/**
 * Compares two values using the specified [selector] function to transform values being compared and then applying [comparator] to compare transformed values.
 */

public inline fun <T, K> compareValuesBy(comparator: Comparator<in K>, selector: (T) -> K) : Int {
    return compareValuesByImpl(a, b, comparator, selector)
}

/**
 * Creates a comparator using the sequence of functions to calculate a result of comparison.
 */

public fun <T> compareBy(vararg selectors: (T) -> Comparable<*>) : Comparator<T> {
    return Comparator { a, b ->
        compareValuesByImpl(a, b, selectors)
    }
}

/**
 * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.
 */

public inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>) : Comparator<T> =
    Comparator { a, b ->
        compareValuesBy(a, b, selector)
    }

/**
 * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.
 */

public inline fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K) : Comparator<T> =
    Comparator { a, b ->
        compareValuesBy(a, b, comparator, selector)
    }

/**
 * Creates a descending comparator using the function to transform value to a [Comparable] instance for comparison.
 */

public inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>) : Comparator<T> =
    Comparator { a, b ->
        compareValuesBy(b, a, selector)
    }

/**
 * Creates a comparator using the function to transform values being compared and then applying [comparator] to compare transformed values.
 */

public fun <T> compareByDescendingWithSingleSelector() : Comparator<T> {
    return Comparator { a, b ->
        compareValuesByDescending(a, b)
    }
}

/**
 * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.
 */

public fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>) : Comparator<T> =
    Comparator { a, b ->
        compareValuesByDescending(a, b, selector)
    }

/**
 * Creates a comparator using the function to transform values being compared and then applying [comparator] to compare transformed values.
 */

public fun <T> compareByDescendingWithSingleSelector() : Comparator<T> {
    return Comparator { a, b ->
        compareValuesByDescending(a, b, selector)
    }
}

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applying
* the specified [comparator] to compare transformed values.
* Note that an order of [comparator] is reversed by this wrapper.
* @sample

samples.comparisons.Comparisons.compareByDescendingWithComparator

*@kotlin.internal.InlineOnly
/public inline fun <T, K> compareByDescending(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =
Comparator<T> { a, b -> compareValuesBy(b, a, comparator,
selector) }\n\n* *\n* Creates a comparator comparing values after the primary comparator defined them equal. It uses\n* the function to transform value to a [Comparable] instance for comparison.\n* @sample

samples.comparisons.Comparisons.thenBy

*@kotlin.internal.InlineOnly
/public inline fun <T,K> Comparator<T>.thenBy(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =
Comparator { a, b ->
val previousCompare = this@thenBy.compare(a, b)\nif (previousCompare != 0) previousCompare else compareValuesBy(a, b, comparator, selector) }\n\n* *\n* Creates a comparator comparing values after the primary comparator defined them equal. It uses\n* the [selector] function to transform values and then compares them with the given [comparator].
* @sample

samples.comparisons.Comparisons.thenByWithComparator

*@kotlin.internal.InlineOnly
/public inline fun <T,K> Comparator<T>.thenByWithComparator(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =
Comparator { a, b ->
val previousCompare = this@thenByWithComparator.compare(a, b)\nif (previousCompare != 0) previousCompare else compareValuesBy(a, b, comparator, selector) }\n\n* *\n* Creates a comparator comparing values after the primary comparator defined them equal. It uses\n* the [selector] function to transform values and then compares them with the given [comparator].
* @sample

samples.comparisons.Comparisons.thenByDescending

*@kotlin.internal.InlineOnly
/public inline fun <T,K> Comparator<T>.thenByDescending(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =
Comparator { a, b ->
val previousCompare = this@thenByDescending.compare(a, b)\nif (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector) }\n\n* *\n* Creates a comparator comparing values after the primary comparator defined them equal. It uses\n* the function to transform value to a [Comparable] instance for comparison.\n* @sample

samples.comparisons.Comparisons.thenByDescendingWithComparator

*@kotlin.internal.InlineOnly
/public inline fun <T,K> Comparator<T>.thenByDescendingWithComparator(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =
Comparator { a, b ->
val previousCompare = this@thenByDescendingWithComparator.compare(a, b)\nif (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector) }\n\n* *\n* Creates a comparator comparing values after the primary comparator defined them equal. It uses\n* the function to transform value to a [Comparable] instance for comparison.\n* @sample

samples.comparisons.Comparisons.thenByWithComparator

*@kotlin.internal.InlineOnly
/public inline fun <T> Comparator<T>.thenComparator(comparison: (a: T, b: T) -> Int): Comparator<T> =
Comparator { a, b ->
val previousCompare = this@thenComparator.compare(a, b)\nif (previousCompare != 0) previousCompare else comparison(a, b) }\n\n* *\n* Creates a comparator using the primary comparator and function to calculate a result of comparison.\n* @sample

samples.comparisons.Comparisons.thenComparator

*@kotlin.internal.InlineOnly
/infix fun <T> Comparator<T>.then(comparator: Comparator<in T>): Comparator<T> =
Comparator { a, b ->
val previousCompare = this@then.compare(a, b)\nif (previousCompare != 0) previousCompare else comparator.compare(a, b) }\n\n* *\n* Combines this comparator and the given [comparator] such that the latter is applied only\n* when the former considered values equal.\n* @sample

samples.comparisons.Comparisons.then

*@kotlin.internal.InlineOnly
/infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =
Comparator<T> { a, b ->
val previousCompare = this@thenDescending.compare(b, a)\nif (previousCompare != 0) previousCompare else comparator.compare(b, a) }\n\n* *\n* Combines this comparator and the given [comparator] such that the latter is applied only\n* when the former considered values equal.\n* @sample

samples.comparisons.Comparisons.thenDescending

*@kotlin.internal.InlineOnly
/public fun <T> Comparator<T>.nullsFirstLastWithComparator(comparator: Comparator<in T>): Comparator<T> { a, b ->
val previousCompare = this@nullsFirstLastWithComparator.compare(a, b)\nif (previousCompare != 0) previousCompare else comparator.compare(a, b) }\n\n* *\n* Extends the given [comparator] of non-nullable values to a comparator of nullable values\n* considering `null` value less than any other value.\n* @sample

samples.comparisons.Comparisons.nullsFirstLastWithComparator

*@kotlin.internal.InlineOnly
/public infix fun <T> Comparator<T>.nullsFirstLastWithComparator{\n\n* *\n* Provides a comparator of nullable [Comparable] values\n* considering `null` value less than any other
value.

```
value.

*\n
@sample sample.samples.comparisons.Comparisons.nullsFirstLastComparator

*\n
@kotlin.internal.InlineOnly\n
public inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> =
nullsFirst(naturalOrder())\n
*\n
Returns a comparator that compares [Comparable] objects in natural order.

*\n
@sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n
*\n
nullsLast(comparator: Comparator<T>): Comparator<T?> =
nullsLast(naturalOrder())\n
*\n
Returns a comparator that compares [Comparable] objects in reversed natural order.

*\n
@sample samples.comparisons.Comparisons.nullsFirstLastComparator

*\n
naturalOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")

(NaturalOrderComparator as Comparator<T>)\n
*\n
ReverseOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")

(ReverseOrderComparator as Comparator<T>)\n
*\n
nullsLast(): Comparator<T?> =
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*\n
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naturalOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")

(NaturalOrderComparator as Comparator<T>)\n
*\n
ReverseOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")

(ReverseOrderComparator as Comparator<T>)\n
*\n
nullsLast(): Comparator<T?> =
```
callsInPlace(block, InvocationKind.EXACTLY_ONCE))
    }
    return block()
}

/**
 * Calls the specified function [block] with `this` value as its argument and returns `this` value.
 */
@kotlin.internal.InlineOnly
public inline fun <T> T.let(block: (T) -> Unit): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    block(this)
    return this
}

/**
 * Calls the specified function [block] with `this` value as its argument and returns its result.
 */
@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T, R> T.let(block: (T) -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block(this)
}

/**
 * Returns `null` if it satisfies the given [predicate] or `null`, if it doesn't.
 */
@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    }
    return if (predicate(this)) this else null
}

/**
 * Returns `null` if it _does not_ satisfy the given [predicate] or `null`, if it does.
 */
@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    }
    return if (!predicate(this)) this else null
}

/**
 * Executes the given function [action] specified number of [times].
 * A zero-based index of current iteration is passed as a parameter to [action].
 */
@kotlin.internal.InlineOnly
public inline fun repeat(times: Int, action: (Int) -> Unit) {
    contract { callsInPlace(action) }

    for (index in 0 until times) {
        action(index)
    }
}

/**
 * Returns the greater of two values.
 * If values are equal, returns the first one.
 */
@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Byte, b: Byte): Byte {
    return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Short, b: Short): Short {
    return Math.max(a.toInt(), b.toInt()).unsafeCast<Short>()
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Int, b: Int): Int {
    return Math.max(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Long, b: Long): Long {
    return if (a > b) a else b
}

/**
 * Returns the greater of two values.
 * If either value is NaN, returns NaN.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Float, b: Float): Float {
    return if (a > b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Double, b: Double): Double {
    return if (a > b) a else b
}
inline fun maxOf(a: Float, b: Float): Float {
    return Math.max(a, b)
}

/**
* Returns the greater of two values.
* 
* If either value is `NaN`, returns `NaN`.
*/
public actual inline fun maxOf(a: Double, b: Double): Double {
    return Math.max(a, b)
}

/**
* Returns the greater of three values.
* 
* If there are multiple equal maximal values, returns the first of them.
*/
public actual inline fun maxOf(a: Float, b: Float, c: Float): Float {
    return Math.max(a, b, c)
}

/**
* Returns the greater of three values.
* 
* If any value is `NaN`, returns `NaN`.
*/
public actual fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}

/**
* Returns the smaller of two values.
* 
* If values are equal, returns the first one.
*/
public actual fun <T : Comparable<T>> minOf(a: T, b: T): T {
    return if (a <= b) a else b
}

// Other methods for other numeric types...

// End of class...
inline fun minOf(a: Int, b: Int): Int {
    return Math.min(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Long, b: Long): Long {
    return Math.min(a, b)
}

/**
 * Returns the smaller of two values.
 * 
 * If either value is NaN, returns NaN.
 */
*@

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 */

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@PublishedApi internal

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 */

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@PublishedApi internal
constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {
    companion object {
        /**
         * A constant holding the minimum value an instance of ULong can have.
         */
        public const val MIN_VALUE: ULong = ULong(0)

        /**
         * A constant holding the maximum value an instance of ULong can have.
         */
        public const val MAX_VALUE: ULong = ULong(-1)

        /**
         * The number of bytes used to represent an instance of ULong in a binary form.
         */
        public const val SIZE_BYTES: Int = 8

        /**
         * The number of bits used to represent an instance of ULong in a binary form.
         */
        public const val SIZE_BITS: Int = 64
    }

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if
     * it's less than other, or a positive number if it's greater than other.
     */
    public operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if
     * it's less than other, or a positive number if it's greater than other.
     */
    public operator fun compareTo(other: UShort): Int = this.compareTo(other.toULong())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if
     * it's less than other, or a positive number if it's greater than other.
     */
    public operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if
     * it's less than other, or a positive number if it's greater than other.
     */
    public operator fun compareTo(other: ULong): Int = ulongCompare(this.data, other.data)

    /** Adds the other value to this value. */
    public operator fun plus(other: UByte): ULong = this.plus(other.toULong())

    /** Adds the other value to this value. */
    public operator fun plus(other: UShort): ULong = this.plus(other.toULong())

    /** Adds the other value to this value. */
    public operator fun plus(other: UInt): ULong = this.plus(other.toULong())

    /** Adds the other value to this value. */
    public operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))

    /** Subtracts the other value from this value. */
    public operator fun minus(other: UByte): ULong = this.minus(other.toULong())

    /** Subtracts the other value from this value. */
    public operator fun minus(other: UShort): ULong = this.minus(other.toULong())

    /** Subtracts the other value from this value. */
    public operator fun minus(other: UInt): ULong = this.minus(other.toULong())

    /** Subtracts the other value from this value. */
    public operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))

    /** Multiplies this value by the other value. */
    public operator fun times(other: UByte): ULong = this.times(other.toULong())

    /** Multiplies this value by the other value. */
    public operator fun times(other: UShort): ULong = this.times(other.toULong())

    /** Multiplies this value by the other value. */
    public operator fun times(other: UInt): ULong = this.times(other.toULong())

    /** Multiplies this value by the other value. */
    public operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))

    /** Divides this value by the other value. */
    public operator fun div(other: UByte): ULong = this.div(other.toULong())

    /** Divides this value by the other value. */
    public operator fun div(other: UShort): ULong = this.div(other.toULong())

    /** Divides this value by the other value. */
    public operator fun div(other: UInt): ULong = this.div(other.toULong())

    /** Divides this value by the other value. */
    public operator fun div(other: ULong): ULong = ulongDivide(this, other)

    /** Calculates the remainder of dividing this value by the other value. */
    public operator fun rem(other: UByte): ULong = this.rem(other.toULong())

    /** Calculates the remainder of dividing this value by the other value. */
    public operator fun rem(other: UShort): ULong = this.rem(other.toULong())

    /** Calculates the remainder of dividing this value by the other value. */
    public operator fun rem(other: UInt): ULong = this.rem(other.toULong())

    /** Calculates the remainder of dividing this value by the other value. */
    public operator fun rem(other: ULong): ULong = this.rem(other.toULong())
**ULong** value is exactly between two `Float`s, *the one with zero at least significant bit of mantissa is selected.*

```kotlin
/**
 * Converts this [ULong] value to [Double].
 * The resulting value is the closest `Double` to this `ULong` value. *In case when this `ULong` value is exactly between two `Double`s, *the one with zero at least significant bit of mantissa is selected.*
 */
public inline fun toDouble(): Double = ulongToDouble(data)
```

```kotlin
/**
 * Converts this [Byte] value to [ULong].
 * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value, *whereas the most significant 56 bits are filled with the sign bit of this value.*
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun Byte.toULong(): ULong = ULong(this.toLong())
```

```kotlin
/**
 * Converts this [Short] value to [ULong].
 * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value, *whereas the most significant 48 bits are filled with the sign bit of this value.*
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun Short.toULong(): ULong = ULong(this.toLong())
```

```kotlin
/**
 * Converts this [Int] value to [ULong].
 * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value, *whereas the most significant 32 bits are filled with the sign bit of this value.*
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun Int.toULong(): ULong = ULong(this.toLong())
```

```kotlin
/**
 * Converts this [Long] value to [ULong].
 * The resulting `ULong` value has the same binary representation as this `Long` value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun Long.toULong(): ULong = ULong(this)
```

```kotlin
/**
 * Converts this [Float] value to [ULong].
 * The fractional part, if any, is rounded down towards zero. *If this `Float` value is negative or `NaN`, *returns zero.*
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())
```

```kotlin
/**
 * Converts this [Double] value to [ULong].
 * The fractional part, if any, is rounded down towards zero. *If this `Double` value is negative or `NaN`, *returns zero.*
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun Double.toULong(): ULong = doubleToULong(this)
```

---

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get(3)\n\n/**
 * Returns 5th *element* from the list.\n * @throws an [IndexOutOfBoundsException] if the size
 * of this list is less than 5.\n * @return\n */
@kotlin.internal.InlineOnly\n\n/**
 * Returns `true` if [element] is found in the collection.\n * @return\n */
@kotlin.internal.InlineOnly\n\n/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
 * out of bounds of this collection.\n * @throws\n */
@kotlin.internal.InlineOnly\n\n/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
 * out of bounds of this collection.\n * @throws\n */
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 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
 * out of bounds of this collection.\n * @throws\n */
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 * out of bounds of this collection.\n * @throws\n */
@kotlin.internal.InlineOnly\n\n/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
 * out of bounds of this collection.\n * @throws\n */
@kotlin.internal.InlineOnly\n\n/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
 * out of bounds of this collection.\n * @throws\n */
@kotlin.internal.InlineOnly
throw NoSuchElementException("Collection contains no element matching the predicate.\")

* Returns the first element, or ‘null’ if the collection is empty.

* Returns the first element matching the given [predicate], or ‘null’ if the list is empty.

* Returns first index of [element], or -1 if the collection does not contain element.

* Returns last index of the first element matching the given [predicate], or -1 if the list does not contain such element.

* Returns last index of the first element matching the given [predicate], or -1 if the list does not contain such element.

* Returns the first element matching the given [predicate], or `null` if the collection is empty.

* Returns the last element matching the given [predicate], or `null` if the list does not contain such element.

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* Returns the last element matching the given [predicate], or `null` if the list does not contain such element.

* Returns the last element matching the given [predicate], or `null` if the list does not contain such element.
while (iterator.hasPrevious()) {
    val element = iterator.previous()
    if (predicate(element)) return
}

throw NoSuchElementException("List contains no element matching the predicate.")

checkIndexOverflow(index) if (element == item) lastIndexOf = index

lastIndexOf(index++) * Returns last index of [element], or `-1` if the list does not contain element.

@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases
```kotlin
public fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {
    if (this is List) return this.lastIndexOf(element)
    var lastIndex = -1
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element == item) lastIndex = index
        index++
    }
    return lastIndex
}
```

@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases
```kotlin
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun <T> Collection<T>.randomOrNull(random: Random): T? {
    if (isEmpty())
        return null
    return elementAt(random.nextInt(size))
}
```

```
```
single element, or ‘null’ if the collection is empty or has more than one element.

public fun <T>
Iterable<T>.singleOrNull(): T? {
    when (this) {
        List -> return (if (size == 1) this[0] else null)
        else -> {

            val iterator = iterator()
            if (!iterator.hasNext())
                return null
            val single = iterator.next()
            if (iterator.hasNext())
                return single
            else
                return null
        }
    }
}

/**
 * Appends all elements that are instances of specified type
 * @kotlin.internal.NoInfer
 */
public inline fun <reified R>
Samples.collections.Collections.Filtering.filterIsInstanceTo(ArrayList<R>())
{
    return samples.collections.Collections.Filtering.filterIsInstance
}

/**
 * Appends all elements that are instances of specified type
 * @kotlin.internal.NoInfer
 */
public inline fun <reified R>
Returns a list containing all elements except first [n] elements.

/**
 * Returns a list containing only elements matching the given [predicate],
 * or ‘null’ if element was not found or more than one element was found.
 */
public fun <T> List<T>.dropLast(n: Int):

/**
 * Returns a list containing only elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 */
public fun <T> List<T>.dropLast(n: Int):

/**
 * Returns a list containing only elements matching the given [predicate],
 * or ‘null’ if element was not found or more than one element was found.
 */
public fun <T> List<T>.dropLast(n: Int):

parameter R to the given [destination].

```kotlin
public inline fun <reified R, C : MutableCollection<in R>> Iterable<in R>.filterIsInstanceTo(destination: C): C {
    for (element in this) if (element is R) destination.add(element)
    return destination
}
```

```kotlin
/**
 * Returns a list containing all elements that are not null.
 * @sample samples.collections.Collections.Filtering.filterNotNullTo
 */
public fun <T : Any> Iterable<T>.filterNotNullTo(destination: T?): List<T?> {
    return filterNotNullTo(ArrayList<T>(), destination)
}
```

```kotlin
/**
 * Returns a list containing all elements matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filterTo
 */
public inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}
```

```kotlin
/**
 * Returns a list containing all elements at indices in the specified [indices] range.
 */
public fun <T> List<T>.slice(indices: IntRange): List<T> {
    if (indices.isEmpty()) return listOf()
    return this.subList(indices.start, indices.endInclusive + 1).toList()
}
```

```kotlin
/**
 * Returns a list containing last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.take
 */
public fun <T> List<T>.takeLast(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (this is RandomAccess) {
        for (index in size - n until size)
            list.add(this[index])
    } else {
        for (item in listIterator(size - n))
            list.add(item)
    }
    return list
}
```

```kotlin
/**
 * Returns a list containing first [n] elements satisfying the given [predicate].
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {
    if (isEmpty())
        return emptyList()
    val iterator = listIterator(size)
    while (iterator.hasNext()) {
        if (!predicate(iterator.previous())) {
            iterator.next()
            val expectedSize = size - iterator.nextIndex()
            if (expectedSize == 0) return emptyList()
            return ArrayList<T>(expectedSize).apply {
                while (iterator.hasNext())
                    add(iterator.next())
            }
        }
    }
    return toList()
}
```

```kotlin
/**
 * Returns a list containing first elements satisfying the given [predicate].
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun <T> Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {
    val list = ArrayList<T>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}
```

```kotlin
/**
 * Reverses elements in the list in-place.
 */
public expect fun <T> MutableList<T>.reverse(): Unit
```

```kotlin
/**
 * Returns a list with elements in reversed order.
 * @sample samples.collections.Collections.Transformations.take
 */
public fun <T> Iterable<T>.reversed(): List<T> {
    if (this is Collection && size <= 1) return toList()
    val
```
list = toMutableList()
list.reverse() return list

*Randomly shuffles elements in this list in-place using the specified [random] instance as the source of randomness.*

*See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm*

*\[\text{for (i in lastIndexOf(1)) \{ val j = random.nextInt(i + 1) \}}\]*

*Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.*

*The sort is \_stable\_. It means that equal elements preserve their order relative to each other after sorting.*

*\[\text{sortWith(compareBy(selector) \{ (o1, o2) -> o1 < o2 \})} \]*

*Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function.*

*The sort is \_stable\_. It means that equal elements preserve their order relative to each other after sorting.*

*\[\text{toList()} \text{\@Suppress("UNCHECKED_CAST")} \text{as Array<T>} \].apply { (it) as List }\]*

*Returns a list of all elements sorted according to their natural sort order.*

*The sort is \_stable\_. It means that equal elements preserve their order relative to each other after sorting.*

*\[\text{sorted()} \text{\@Suppress("UNCHECKED_CAST")} \text{as List<T>}\]*

*Returns a list of all elements sorted according to the specified [comparator].*
= FloatArray(size)
var index = 0
for (element in this)
    result[index++] = element
return result

Returns an array of Int containing all of the elements of this collection.

public fun

Collection<Int>.toIntArray(): IntArray {
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Long containing all of the elements of this collection.
 */
public fun

Collection<Long>.toLongArray(): LongArray {
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Short containing all of the elements of this collection.
 */
public fun

Collection<Short>.toShortArray(): ShortArray {
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * provided by [transform] function applied to elements of the given collection.
 */
public inline fun

Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity), transform)
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * provided by [keySelector] function applied to each element.
 */
public inline fun

Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs
 * provided by [valueTransform] function applied to elements of the given collection.
 */
public inline fun

Iterable<T>.associateByWithValueTransform(valueTransform: (T) -> V): Map<K, V> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueSelector] function applied to each element of the given collection.
 */
public inline fun

Iterable<T>.associateTo(destination: M, valueSelector: (T) -> V): M {
    for (element in this)
        destination += valueSelector(element)
    return destination
}
element.

If any two elements are equal, the last one gets added to the map.
The returned map preserves the entry iteration order of the original collection.
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* @sample samples.collections.Collections.Transformations.associateWith

If any two elements are equal, the last one gets added to the map.

The returned map preserves the entry iteration order of the original collection.

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If any two elements are equal, the last one gets added to the map.

The returned map preserves the entry iteration order of the original collection.

* @sample samples.collections.Collections.Transformations.associateWith
c inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {
    return
    flatMapIndexedTo(ArrayList<R>(), transform)
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element and its index in the original collection, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(checkIndexOverflow(index++), element)
        destination.addAll(list)
    }
    return
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element and its index in the original collection, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(checkIndexOverflow(index++), element)
        destination.addAll(list)
    }
    return
}

/**
 * Groups elements of the original collection by the key returned by the given [keySelector] function and returns a map where each group key is associated with a list of corresponding elements.
 * The returned map preserves the entry iteration order of the keys produced from the original collection.
 */
public inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<T>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original collection by the key returned by the given [keySelector] function and puts to the [destination] map each group key associated with a list of corresponding elements.
 * The returned map preserves the entry iteration order of the keys produced from the original collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("groupBy")
@kotlin.internal.InlineOnly
fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return
    groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original collection
 * by the key returned by the given [keySelector] function and puts to the [destination] map each group key associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("groupByKeysAndValues")
public inline fun <T, K, V> Iterable<T>.groupByKeysAndValues(valueTransform: (T) -> V): Map<K, List<V>> {
    return
    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups elements of the original collection by the key returned by the given [keySelector] function and puts to the [destination] map each group key associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("groupByKeys")
@kotlin.internal.InlineOnly
fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByKeysTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<T>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original collection
 * by the key returned by the given [keySelector] function and puts to the [destination] map each group key associated with a list of corresponding values.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("groupByValues")
public inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByValuesTo(destination: M): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<T>() }
        list.add(element)
    }
    return destination
}
samples.collections.Collections.Transformations.groupByKeysAndValues

/**
 * Returns a list containing the results of applying the given
 * [transform] function to each element and its index in the
 * original collection.
 */
public inline fun <T, R> Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)
}

/**
 * Returns a list containing only the non-null results of applying the given
 * [transform] function to each element and its index in the original collection.
 */
public inline fun <T, R : Any> Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {
    return mapIndexedNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each element and its index in the original collection
 * and appends only the non-null results to the given [destination].
 */
public inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {
    var index = 0
    for (item in this)
        destination.add(transform(checkIndexOverflow(index++), item))
    return destination
}

/**
 * Applies the given [transform] function to each element and appends the results to the given
 * [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C, transform: (T) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Returns a lazy [Iterable] that wraps each element of the original collection in
 * [IndexedValue] containing the index of that element and the element itself.
 */
public fun <T> Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a list containing only distinct elements from the given collection.
 */
public inline fun <T : Any> Iterable<T>.distinct(): List<T> {
    return distinctTo(ArrayList<T>(), { it in this })
}

/**
 * Applies the given [transform] function to each element of the original collection
 * and appends the results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C, transform: (T) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
given collection, only the first one will be present in the resulting list.

* The elements in the resulting list are in the same order as they were in the source collection.

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy

```
public fun <T> Iterable<T>.distinct(): List<T> {
    return this.toMutableSet().toList()
}
```

```
public inline fun <T, K>
Iterable<T>.distinctBy(selector: (T) -> K): List<T> {
    val set = HashSet<K>()
    val list = ArrayList<T>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}
```

```
public infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}
```

```
public infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}
```

```
public fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {
    return when (this) {
        is Collection<T> -> LinkedHashSet(this)
        else -> toCollection(LinkedHashSet<T>())
    }
}
```

```
public infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}
```

```
public inline fun <T>
Iterable<T>.all(predicate: (T) -> Boolean): Boolean {
    if (this is Collection && isEmpty()) return true
    for (element in this) if (!predicate(element)) return false
    return true
}
```

```
public fun <T>
Iterable<T>.any(): Boolean {
    if (this is Collection) return !isEmpty()
    return iterator().hasNext()
}
```

```
public inline fun <T>
Iterable<T>.any(predicate: (T) -> Boolean): Boolean {
    if (this is Collection && isEmpty()) return false
    for (element in this) if (predicate(element)) return true
    return false
}
```

```
public fun <T> Iterable<T>.count(): Int {
    if (this is Collection) return size
    var count = 0
    for (element in this) checkCountOverflow(++count)
    return count
}
```

```
public inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
```

```
public inline fun <T, R>
Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(acc, accumulator, element)
    return accumulator
}
```

```
public fun <T>
Iterable<T>.distinct(): List<T> {
    return this.toMutableSet().toList()
}
```

```
public fun <T> Iterable<T>.retainAll(other: Iterable<T>): Boolean {
    var count = 0
    for (element in this) checkCountOverflow(++count)
    return count == 0
}
```

```
public fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
```

```
public fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(acc, accumulator, element)
    return accumulator
}
```

```
public fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(acc, accumulator, element)
    return accumulator
}
```

```
public fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(acc, accumulator, element)
    return accumulator
}
```

---

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specified [initial] value if the collection is empty.

```kotlin
public inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)
    return accumulator
}
```

```kotlin
/**
 * Performs the given [action] on each element.
 */
@kotlin.internal.HidesMembers
public inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {
    for (element in this) action(element)
}
```

```kotlin
@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public fun Iterable<Double>.max(): Double? {
    return maxOrNull()
}
```

```kotlin
@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public fun Iterable<Float>.max(): Float? {
    return maxOrNull()
}
```

```kotlin
@Deprecated("Use maxOrNull instead.", ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.1")
public fun <T : Comparable<T>> Iterable<T>.max(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxValue = iterator.next()
    while (iterator.hasNext()) {
        val v = iterator.next()
        if (maxValue < v) maxValue = v
    }
    return maxValue
}
```

```kotlin
@Deprecated("Use maxByOrNull instead.", ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <T, R : Comparable<R>> Iterable<T>.maxByOrNull(selector: (T) -> R): T? {
    var maxElem = null
    while (iterator.hasNext()) {
        val e = iterator.next()
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
@Deprecated("Use maxByOrNull instead.", ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun <T> Iterable<T>.maxBy(selector: (T) -> Double): Double {
    var maxElement: T? = null
    for (element in this) {
        val v = selector(element)
        if (maxValue < v) {
            maxElement = element
            maxValue = v
        }
    }
    return maxValue
}
```
values produced by [selector function] applied to each element in the collection. * If any of values produced by [selector function] is 'NaN', the returned result is 'NaN'. * @throws NoSuchElementException if the collection is empty.

*\@SinceKotlin("1.4")*\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun <T> Iterable<T>.maxOf(selector: (T) -> Float): Float {\n    \n    var maxVal = selector(iterator.next())\n    while (iterator.hasNext()) {\n        \n        if (maxVal < v) {\n            \n        maxVal = maxOf(maxVal, v)\n        \n    return maxVal
    }
}

*\@SinceKotlin("1.4")*\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun <T, R : Comparable<R>> Iterable<T>.maxOf(selector: (T) -> R): R {\n    \n    var maxVal = selector(iterator.next())\n    while (iterator.hasNext()) {\n        \n        if (maxVal < v) {\n            \n        maxVal = maxOf(maxVal, v)\n    return maxVal
    }
}

*\@SinceKotlin("1.4")*\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun <T> Iterable<T>.maxOfOrNull(selector: (T) -> Double): Double? {\n    \n    var maxVal = selector(iterator.next())\n    while (iterator.hasNext()) {\n        \n        if (maxVal < v) {\n            \n        maxVal = maxOf(maxVal, v)\n    return maxVal
    }
}

*\@SinceKotlin("1.4")*\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun <T, R : Comparable<R>> Iterable<T>.maxOfOrNull(selector: (T) -> R): R? {\n    \n    var maxVal = selector(iterator.next())\n    while (iterator.hasNext()) {\n        \n        if (maxVal < v) {\n            \n        maxVal = maxOf(maxVal, v)\n    return maxVal
    }
}

*\@SinceKotlin("1.4")*\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun <T> Iterable<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    \n    var maxVal = selector(iterator.next())\n    while (iterator.hasNext()) {\n        \n        if (maxVal < v) {\n            \n        maxVal = maxOf(maxVal, v)\n    return maxVal
    }
}

*\@SinceKotlin("1.4")*\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun <T, R : Comparable<R>> Iterable<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    \n    var maxVal = selector(iterator.next())\n    while (iterator.hasNext()) {\n        \n        if (maxVal < v) {\n            \n        maxVal = maxOf(maxVal, v)\n    return maxVal
    }
}

*\@SinceKotlin("1.4")*\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun <T> Iterable<T>.maxOfWithWith(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    \n    var maxVal = selector(iterator.next())\n    while (iterator.hasNext()) {\n        \n        if (maxVal < v) {\n            \n        maxVal = maxOf(maxVal, v)\n    return maxVal
    }
}

*\@SinceKotlin("1.4")*\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun <T> Iterable<T>.maxOfWithWithWith(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    \n    var maxVal = selector(iterator.next())\n    while (iterator.hasNext()) {\n        \n        if (maxVal < v) {\n            \n        maxVal = maxOf(maxVal, v)\n    return maxVal
    }
}

*\@SinceKotlin("1.4")*\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution ByLambdaReturnType\@kotlin.internal.InlineOnly\@public inline fun <T, R : Comparable<R>> Iterable<T>.maxOfWithWithWith(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    \n    var maxVal = selector(iterator.next())\n    while (iterator.hasNext()) {\n        \n        if (maxVal < v) {\n            \n        maxVal = maxOf(maxVal, v)\n    return maxVal
    }
}
Iterable<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator = iteratee()\n if (!iterator.hasNext()) return null\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n return maxValue\n }\n
* Returns the largest element or 'null' if there are no elements.\n* If any of elements is 'NaN' returns 'NaN'.\n* @see SinceKotlin("1.4")\n
public fun Iterable<Double>.maxOrNull(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (maxOf(max, e) > max) max = e\n }\n return max\n}\n
* Returns the largest element or 'null' if there are no elements.\n* @see SinceKotlin("1.4")\n
public fun Iterable<Double>.maxOrNull(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (maxOf(max, e) > max) max = e\n }\n return max\n}\n
* Returns the largest element or 'null' if there are no elements.\n* @see SinceKotlin("1.4")\n
public fun <T : Comparable<T>> Iterable<T>.maxOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (maxOf(max, e) > max) max = e\n }\n return max\n}\n
* Returns the largest element or 'null' if there are no elements.\n* @see SinceKotlin("1.4")\n
public fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n
* Returns the largest element or 'null' if there are no elements.\n* @see SinceKotlin("1.4")\n
public fun <T> Iterable<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n
* Returns the largest element or 'null' if there are no elements.\n* @see SinceKotlin("1.4")\n
public fun <T> Iterable<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator = iteratee()\n if (!iterator.hasNext()) return null\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n return maxValue\n }\n
* Returns the largest element or 'null' if there are no elements.\n* If any of elements is 'NaN' returns 'NaN'.\n* @see SinceKotlin("1.4")\n
public fun Iterable<Float>.maxOrNull(): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (maxOf(max, e) > max) max = e\n }\n return max\n}\n
* Returns the largest element or 'null' if there are no elements.\n* @see SinceKotlin("1.4")\n
public fun Iterable<Float>.maxOrNull(): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (maxOf(max, e) > max) max = e\n }\n return max\n}\n
* Returns the largest element or 'null' if there are no elements.\n* @see SinceKotlin("1.4")\n
public fun <T : Comparable<T>> Iterable<T>.maxOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (maxOf(max, e) > max) max = e\n }\n return max\n}\n
* Returns the largest element or 'null' if there are no elements.\n* @see SinceKotlin("1.4")\n
public fun <T> Iterable<T>.maxBy(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minElem = iterator.next()\n do {\n val v = selector(e)\n if (minValue > v) {\n minValue = v\n }\n } while (iterator.hasNext())\n return minElem\n}\n
* Returns the smallest value among all values produced by [selector] function\n* applied to each element in the collection.\n* If any of values produced by [selector] function is 'NaN', the returned result is 'NaN'.\n* @throws NoSuchElementException if the collection is empty.\n
* @see SinceKotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n* @OverloadResolution
* ByLambdaReturnType@kotlin.internal.InlineOnly\n
public inline fun <T> Iterable<T>.minOf(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n
* Returns the smallest value among all values produced by [selector] function\n* applied to each element in the collection.\n* If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minOf(selector: (T) -> Float): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>>
Iterable<T>.minOf(selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minOfOrNull(selector: (T) -> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minOfOrNull(selector: (T) -> Float): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator]
 * among all values produced by [selector] function applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Iterable<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator]
 * among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Iterable<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}
```

iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest element or `null` if there are no elements.\n * @param comparator a comparator used to compare elements.
 * @return the smallest element stopped by \n */
@SinceKotlin("1.4")
public fun <T> Iterable<T>.minOrNull(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        min = minOf(min, e)
    }
    return min
}

/**
 * Returns the smallest element or `null` if there are no elements.
 * @param comparator a comparator used to compare elements.
 * @return the smallest element stopped by \n */
@SinceKotlin("1.4")
public fun <T : Comparable<T>> Iterable<T>.minOrNull(comparator: Comparator<T>): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (min > e) min = e
    }
    return min
}

@Deprecated("Use minWithOrNull instead.",
ReplaceWith("minWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {
    return minWithOrNull(comparator)
}

/**
 * Returns the first element having the smallest value according to the
 * provided [comparator] or `null` if there are no elements.\n * @param comparator a comparator used to compare elements.
 * @return the smallest element stopped by \n */
@SinceKotlin("1.4")
public inline fun <T> Iterable<T>.minWithOrNull(comparator: Comparator<in T>): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns `true` if
 * the collection has no elements.\n * @param predicate a predicate used to test elements.
 * @return `true` if the collection has no elements.
 */
@SinceKotlin("1.4")
public fun <T> Iterable<T>.none(): Boolean {
    if (this is Collection) return isEmpty()
    return !iterator().hasNext()
}

/**
 * Returns `true` if no elements match the given [predicate].
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {
    if (this is Collection && isEmpty()) return true
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Performs the given [action] on each
 * element and returns the collection itself afterwards.
 * @param action a function that takes an element and performs an action.
 * @return the collection itself afterwards.
 */
@SinceKotlin("1.1")
public inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {
    return apply { for (element in this) action(element) }
}

/**
 * Performs the given [action] on each element, providing sequential index with the element,
 * and returns the collection itself afterwards.\n * @param action a function that takes an index, an element and performs an action.
 * @return the collection itself afterwards.
 */
@SinceKotlin("1.4")
public inline fun <T, C : Iterable<T>> C.onEachIndexed(action: (index: Int, T) -> Unit): C {
    return apply { forEachIndexed(action) }
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param operation a function that takes the index of an element, current accumulator value
 * and an element to calculate the next accumulator value.
 * @return the next accumulator value.
 */
public inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * @param operation a function that takes the index of an element, current accumulator value
 * and an element to calculate the next accumulator value.
 * @return the next accumulator value.
 */
public inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S) -> S): S {
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}
iterator = this.iterator()
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")
    var index = 1
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
        index++
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original collection.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator value.
 * @param [operation] function that takes the index of an element, current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.4")
public @kotlin.internal.InlineVisible inline fun <S, T : S>
    Iterable<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {
        val iterator = this.iterator()
        if (!iterator.hasNext()) return null
        var index = 1
        var accumulator: S = iterator.next()
        while (iterator.hasNext()) {
            accumulator = operation(index++, accumulator, iterator.next())
        }
        return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to current accumulator value and each element.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun <S, T : S>
    List<T>.reduceRight(operation: (T, acc: S) -> S): S {
        val iterator = listIterator(size)
        if (!iterator.hasPrevious())
            throw UnsupportedOperationException("Empty list can't be reduced.")
        var accumulator: S = iterator.previous()
        while (iterator.hasPrevious()) {
            accumulator = operation(iterator.previous(), accumulator)
        }
        return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to current accumulator value and each element with its index in the original list
 * and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRightIndexed
 */
public inline fun <S, T : S>
    List<T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {
        val iterator = listIterator(size)
        if (!iterator.hasPrevious())
            return null
        var accumulator: S = iterator.previous()
        while (iterator.hasPrevious()) {
            val index = iterator.previousIndex()
            accumulator = operation(index, iterator.previous(), accumulator)
        }
        return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with its index in the original list and current accumulator value.
 * Returns `null` if the collection is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRightIndexedOrNull
 */
@SinceKotlin("1.4")
public inline fun <S, T : S>
    List<T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {
        val iterator = listIterator(size)
        if (!iterator.hasPrevious())
            return null
        var accumulator: S = iterator.previous()
        while (iterator.hasPrevious()) {
            val index = iterator.previousIndex()
            accumulator = operation(index, iterator.previous(), accumulator)
        }
        return accumulator
}
Returns `null` if the list is empty.

```kotlin
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <S, T : S> List<T>.reduceRightOrNull(operation: (T, acc: S) -> S)?
    if (!iterator.hasPrevious())
        return null
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        accumulator = operation(iterator.previous(), accumulator)
    }
    return accumulator
```

### Description

- **Returns**: A list containing successive accumulation values generated by applying `operation` from left to right to each element and current accumulator value that starts with `[initial]` value. If the list is empty, returns `null`.
- **Operation**:
  - `operation`: A function that takes an element and current accumulator value, and calculates the next accumulator value.
  - `initial`: The initial value for the accumulator.

---

### Running Fold

- **Returns**: A list containing successive accumulation values generated by applying `operation` from left to right to each element and current accumulator value that starts with `initial` value.
- **Operation**:
  - `operation`: A function that takes `element` and current accumulator value, and calculates the next accumulator value.
  - `initial`: The initial value for the accumulator.

---

### Running Fold Indexed

- **Returns**: A list containing successive accumulation values generated by applying `operation` from left to right to each element, its index in the original collection and current accumulator value that starts with `initial` value.
- **Operation**:
  - `operation`: A function that takes `index`, current accumulator value and `element`, and calculates the next accumulator value.
  - `initial`: The initial value for the accumulator.

---

### Running Reduce

- **Returns**: A list containing successive accumulation values generated by applying `operation` from left to right to each element and current accumulator value that starts with the first element of the collection.
- **Operation**:
  - `operation`: A function that takes the current accumulator value and the element, and calculates the next accumulator value.
  - `initial`: The initial value for the accumulator.

---

### Running Reduce Indexed

- **Returns**: A list containing successive accumulation values generated by applying `operation` from left to right to each element, its index in the original collection and current accumulator value that starts with the first element of the collection.
- **Operation**:
  - `operation`: A function that takes the index, current accumulator value and the element, and calculates the next accumulator value.
accumulator, iterator.next())
result.add(accumulator)
return result

*/

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
@SinceKotlin("1.4")
@ExperimentalStdlibApi::class
public inline fun <T, R> Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original collection and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 */
@SinceKotlin("1.4")
@ExperimentalStdlibApi::class
public inline fun <T, R> Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

@Deprecated("Use runningReduce instead.", ReplaceWith("runningReduce(operation)"), level = DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Iterable<T>.scanReduce(operation: (acc: S, T) -> S): List<S> {
    return runningReduce(operation)
}

@Deprecated("Use runningReduceIndexed instead.", ReplaceWith("runningReduceIndexed(operation)"), level = DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Iterable<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    return runningReduceIndexed(operation)
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the collection.
 */
public inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the collection.
 */
public inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.jvm.JvmName("sumOfInt")
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.sumOf(selector: (T) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.jvm.JvmName("sumOfLong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.sumOf(selector: (T) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
public inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the collection.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgument exception] if there are any `null` elements.
 */
public fun <T : Any> Iterable<T?>.requireNoNulls(): Iterable<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as Iterable<T>
}

/**
 * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgument exception] if there are any `null` elements.
 */
public fun <T : Any> List<T?>.requireNoNulls(): List<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as List<T>
}

/**
 * Splits this collection into a list of lists each not exceeding the given [size].
 * The last list in the resulting list may have less elements than the given [size].
 * Param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.
 */
@SinceKotlin("1.2")
public fun <T> Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

/**
 * Splits this collection into several lists each not exceeding the given [size] and applies the given [transform] function to an each.
 * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
 * The last list may have less elements than the given [size].
 * Param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.
 */
@SinceKotlin("1.2")
public fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {
    return windowed(size, size, partialWindows = true, transform = transform)
}

/**
 * Returns a list containing all elements of the original collection without the first occurrence of the given [element].
 */
public operator fun <T> Iterable<T>.minus(element: T): List<T> {
    val result = ArrayList<T>(collectionSizeOrDefault(10))
    var removed = false
    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }
}

/**
 * Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.
 * The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a `==` a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.
 */
public operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {
    val other = elements.convertToSetForSetOperationWith(this)
    if (other.isEmpty())
        return this.toList()
    return this.filterNot { it in other }
}

/**
 * Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence.
 * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a `==` a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.
 */
public operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {
    val other = elements.toHashSet()
    if (other.isEmpty())
        return this.toList()
    return this.filterNot { it in other }
}
containing all elements of the original collection without the first occurrence of the given [element].

*/
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minusElement(element: T): List<T> {
    return minus(element)
}

/**
 * Splits the original collection into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`, *second* list contains elements for which [predicate] yielded `false`.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    return partition(predicate)
}

/**
 * Returns a list containing all elements of the original collection and then the given [element].
 */
public operator fun <T> Iterable<T>.plus(element: T): List<T> {
    return plus(element)
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given [elements].
 */
public operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {
    return plus(elements)
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.
 */
public operator fun <T> Iterable<T>.plus(elements: Sequence<T>): List<T> {
    return plus(elements)
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.
 */
public operator fun <T> Collection<T>.plus(element: T): List<T> {
    return plus(element)
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.
 */
public operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {
    return plus(elements)
}

/**
 * Returns a list of snapshots of the window of the given [size]
 * sliding along this collection with the given [step], where each
 * snapshot is a list.
 * Several last lists may have less elements than the given [size]n. [Both [size]n and [step]n must be positive and can be greater than the number of elements in this collection.
 */
@SinceKotlin("1.2")
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
        val result = ArrayList(resultCapacity)
        for (i in 0 until thisSize - size + 1) {
            val window = ArrayList(size)
            for (j in 0 until size) {n
                if (i + j < thisSize) {n
                    window.add(this[i + j])
                } else {n
                    window.add(null)
                }
            }
            result.add(window)
        }
        if (partialWindows) {n
            result.add(ArrayList(this.last()) + ArrayList(size - thisSize % step))
        }
        return result
    }
    return ArrayList()
}
ArrayList<List<T>>(resultCapacity)
    var index = 0
    while (index in 0 until thisSize) {
        val windowSize = size.coerceAtMost(thisSize - index)
        if (windowSize < size && !partialWindows) break
        result.add(List(windowSize) { this[it + index] })
        index += step
    }
    return result
}

val result = ArrayList<List<T>>()
    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {
        result.add(it)
    }
    return result
}

/**
 * Returns a list of results of applying the
 * given [transform] function to an each list representing a view over the window of the given [size] sliding
 * along this collection with the given [step].
 * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it. Several last lists may have less elements than the given [size].
 * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.
 * @param size the number of elements to take in each window
 * @param step the number of elements to move the window forward by on each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any.
 * by default `false` which means partial windows won't be preserved
 * @sample samples.collections.Sequences.Transformations.averageWindows
 */
@SinceKotlin("1.2")
    List<R> {
        checkWindowSizeStep(size, step)
        if (this is RandomAccess && this is List) {
            val thisSize = this.size
            val resultCapacity = size / step + if (size % step == 0) 0 else 1
            val result = ArrayList<R>(resultCapacity)
            val window = MovingSubList(this)
            var index = 0
            while (index in 0 until thisSize) {
                val windowSize = size.coerceAtMost(thisSize - index)
                if (!partialWindows && windowSize < size) break
                window.move(index, index + windowSize)
                result.add(transform(window))
                index += step
            }
            return result
        }
        val result = ArrayList<R>()
        windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {
            result.add(transform(it))
        }
        return result
    }

/**
 * Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of values built from the elements of `this` collection and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {
    val first = iterator()
    val second = other.iterator()
    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))
    while (first.hasNext() && second.hasNext()) {
        list.add(transform(first.next(), second.next()))
    }
    return list
}

/**
 * Returns a list of pairs of each two adjacent elements in this collection.
 * The returned list is empty if this collection contains less than two elements.
 * by default `false` which means partial windows won't be preserved
 * @sample samples.collections.Collections.Transformations.zipWithNext
 */
@SinceKotlin("1.2")
public fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {
    return zipWithNext { a, b -> a to b }
}

/**
 * Returns a list containing the results of applying the given [transform] function to an each pair of two adjacent elements in this collection.
 * The returned list is empty if this collection contains less than two elements.
 * by default `false` which means partial windows won't be preserved
 * @sample samples.collections.Collections.Transformations.zipWithNext
 */
@SinceKotlin("1.2")
public fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {
    return zipWithNext { a, b -> a to b }
}

/**
 * Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of values built from the elements of `this` collection and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
public inline fun <T, R, V> Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {
    val first = iterator()
    val second = other.iterator()
    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))
    while (first.hasNext() && second.hasNext()) {
        list.add(transform(first.next(), second.next()))
    }
    return list
}
less than two elements.

samples.collections.Collections.Transformations.zipWithNextToFindDeltas

public inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = this.iterator()
    while (iterator.hasNext()) {
        val next = iterator.next()
        current = next
    }
    return result
}

/**
 * Appends the string from all the elements separated using [separator] and
 * using the given [prefix] and [postfix] if supplied.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
 */
@SinceKotlin("1.2")
public
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = iterator()
    if (!iterator.hasNext()) return emptyList()
    val result = mutableListOf<R>()
    var current = iterator.next()
    while (iterator.hasNext()) {
        val next = iterator.next()
        result.add(transform(current, next))
        current = next
    }
    return result
}

/**
 * Appends the string from all the elements separated using [separator] and
 * using the given [prefix] and [postfix] if supplied.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
 */
@SinceKotlin("1.2")
public
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = iterator()
    if (!iterator.hasNext()) return emptyList()
    val result = mutableListOf<R>()
    var current = iterator.next()
    while (iterator.hasNext()) {
        val next = iterator.next()
        result.add(transform(current, next))
        current = next
    }
    return result
}

/**
 * Appends the string from all the elements separated using [separator] and
 * using the given [prefix] and [postfix] if supplied.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
 */
@SinceKotlin("1.2")
public
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = iterator()
    if (!iterator.hasNext()) return emptyList()
    val result = mutableListOf<R>()
    var current = iterator.next()
    while (iterator.hasNext()) {
        val next = iterator.next()
        result.add(transform(current, next))
        current = next
    }
    return result
}

/**
 * Appends the string from all the elements separated using [separator] and
 * using the given [prefix] and [postfix] if supplied.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
 */
@SinceKotlin("1.2")
public
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = iterator()
    if (!iterator.hasNext()) return emptyList()
    val result = mutableListOf<R>()
    var current = iterator.next()
    while (iterator.hasNext()) {
        val next = iterator.next()
        result.add(transform(current, next))
        current = next
    }
    return result
}

/**
 * Appends the string from all the elements separated using [separator] and
 * using the given [prefix] and [postfix] if supplied.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
 */
@SinceKotlin("1.2")
public
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = iterator()
    if (!iterator.hasNext()) return emptyList()
    val result = mutableListOf<R>()
    var current = iterator.next()
    while (iterator.hasNext()) {
        val next = iterator.next()
        result.add(transform(current, next))
        current = next
    }
    return result
}

/**
 * Appends the string from all the elements separated using [separator] and
 * using the given [prefix] and [postfix] if supplied.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
 */
@SinceKotlin("1.2")
public
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = iterator()
    if (!iterator.hasNext()) return emptyList()
    val result = mutableListOf<R>()
    var current = iterator.next()
    while (iterator.hasNext()) {
        val next = iterator.next()
        result.add(transform(current, next))
        current = next
    }
    return result
}

/**
 * Appends the string from all the elements separated using [separator] and
 * using the given [prefix] and [postfix] if supplied.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
 */
@SinceKotlin("1.2")
public
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = iterator()
    if (!iterator.hasNext()) return emptyList()
    val result = mutableListOf<R>()
    var current = iterator.next()
    while (iterator.hasNext()) {
        val next = iterator.next()
        result.add(transform(current, next))
        current = next
    }
    return result
}

/**
 * Appends the string from all the elements separated using [separator] and
 * using the given [prefix] and [postfix] if supplied.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
 */
@SinceKotlin("1.2")
public
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = iterator()
    if (!iterator.hasNext()) return emptyList()
    val result = mutableListOf<R>()
    var current = iterator.next()
    while (iterator.hasNext()) {
        val next = iterator.next()
        result.add(transform(current, next))
        current = next
    }
    return result
}

/**
 * Appends the string from all the elements separated using [separator] and
 * using the given [prefix] and [postfix] if supplied.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
 */
@SinceKotlin("1.2")
public
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = iterator()
    if (!iterator.hasNext()) return emptyList()
    val result = mutableListOf<R>()
    var current = iterator.next()
Iterable<Byte>.sum(): Int {\n    var sum = Int(0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
@kotlin.jvm.JvmName("sumOfShort") public fun Iterable<Short>.sum(): Int {\n    var sum = Int(0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
@kotlin.jvm.JvmName("sumOfInt") public fun Iterable<Int>.sum(): Int {\n    var sum = Int(0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
@kotlin.jvm.JvmName("sumOfLong") public fun Iterable<Long>.sum(): Long {\n    var sum = Long(0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
@kotlin.jvm.JvmName("sumOfFloat") public fun Iterable<Float>.sum(): Float {\n    var sum = Float(0.0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
@kotlin.jvm.JvmName("sumOfDouble") public fun Iterable<Double>.sum(): Double {\n    var sum = Double(0.0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
Collection<T>.toTypedArray(): Array<T> =
    copyToArray(this)\n    copyToArray(collection: Collection<T>): Array<T> {\n        return if (collection.asDynamic().toArray !== undefined)\n            collection.asDynamic().toArray() \n        else\n            copyToArrayImpl(collection)\n    } * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. *\n
Iterable<Byte>.sum(): Int {\n    var sum = Int(0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
Iterable<Short>.sum(): Int {\n    var sum = Int(0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
Iterable<Int>.sum(): Int {\n    var sum = Int(0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
Iterable<Long>.sum(): Long {\n    var sum = Long(0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
Iterable<Float>.sum(): Float {\n    var sum = Float(0.0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
Iterable<Double>.sum(): Double {\n    var sum = Double(0.0) \n    for (element in this) {\n        sum += element\n    } \n    return sum\n} * Returns the sum of all elements in the collection.\n
@JsName("copyToArray") internal actual fun <T> copyToArray(collection: Collection<T>): Array<T> =
    copyToArrayImpl(collection)\n    copyToArray(collection: Collection<T>): Array<T> {
        return if (collection.asDynamic().toArray !== undefined)\n            collection.asDynamic().toArray() \n        else\n            copyToArrayImpl(collection)\n    } * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. *\n
@JsName("copyToArrayImpl") internal actual fun <T> copyToArrayImpl(collection: Collection<T>): Array<T> =
    copyToArrayImpl(collection)\n    copyToArrayImpl(collection: Collection<T>): Array<T> {
        return if (collection.asDynamic().toArray !== undefined)\n            collection.asDynamic().toArray() \n        else\n            copyToArrayImpl(collection)\n    } * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. *\n
@JsName("copyToExistingArrayImpl") internal actual fun <T> copyToExistingArrayImpl(array: Array<T>, collection: Collection<T>): Array<T> =
    copyToExistingArrayImpl(array, collection)\n    copyToExistingArrayImpl(array: Array<T>, collection: Collection<T>): Array<T> {
        return if (array.size < collection.size)\n            copyToExistingArrayImpl(array, collection) \n        else\n            copyToExistingArrayImpl(array, collection)\n    } * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. *\n
@JsName("copyToExistingArrayImpl") internal actual fun <T> copyToExistingArrayImpl(array: Array<T>, collection: Collection<T>): Array<T> {
    if (array.size < collection.size)\n        return copyToExistingArrayImpl(array, collection) \n    else\n        return copyToExistingArrayImpl(array, collection)\n    } * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. *\n
@JsName("copyToExistingArrayImpl") internal actual fun <T> copyToExistingArrayImpl(array: Array<T>, collection: Collection<T>): Array<T> {
    if (array.size < collection.size)\n        return copyToExistingArrayImpl(array, collection) \n    else\n        return copyToExistingArrayImpl(array, collection)\n    } * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. *\n
internal actual inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {
    builderAction().apply(builderAction).build()
}

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
internal actual inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {
    LinkedHashMap<K, V>().apply(capacity).apply(builderAction).build()
}

/**
 * Fills the list with the provided [value].
 * Each element in the list gets replaced with the [value].
 *
 * Returns a new list with the elements of this list randomly shuffled.
 *
 * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm
 */
@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.fill(value: T): Unit {
    for (index in 0..lastIndex) {
        this[index] = value
    }
}

/**
 * Randomly shuffles elements in this list.
 *
 * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm
 */
@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)

/**
 * Returns a new list with the elements of this list randomly shuffled.
 *
 * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm
 */
@SinceKotlin("1.2")
public actual fun <T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }

/**
 * Sorts elements in the list in-place according to their natural sort order.
 *
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 *
 * Returns a new list with the elements of this list randomly shuffled.
 */
@PublishedApi
@SinceKotlin("1.3")
public actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {
    sortArrayWith(array)
}

/**
 * Sorts elements in the list in-place according to the order specified with [comparator].
 *
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public actual fun <T> MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {
    sortArrayWith(array, comparator)
}

private fun <T> sortArrayWith(array: Array<T>, comparator: Comparator<in T>) {
    if (array.size <= 1) return

    val rangeSize = array.size - 1
    for (index in 0 until rangeSize) {
        array[index] = array[index + 1]
    }
}

@SinceKotlin("1.3")
@PublishedApi
@JsName("arrayCopy")
internal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int, startIndex: Int, endIndex: Int) {
    AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)
    AbstractList.checkRangeIndexes(destinationOffset, destinationOffset + rangeSize, destination.size)
    if (js("ArrayBuffer").isView(destination) &&
        js("ArrayBuffer").isView(source)) {
        val subrange = source.asDynamic().subarray(startIndex, endIndex)
        destination.asDynamic().set(subrange, destinationOffset)
    } else {
        for (index in rangeSize - 1 downTo 0) {
            destination[destinationOffset + index] = source[startIndex + index]
        }
    }
}

@Suppress("NOTHING_TO_INLINE")
internal actual inline fun <K, V> Map<K, V>.toSingletonMapOrSelf(): Map<K, V> = this

@Suppress("NOTHING_TO_INLINE")
internal actual inline fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> = this.toMutableMap().toSingletonMapOrSelf()

@PublishedApi
internal actual fun checkIndexOverflow(index: Int): Int {
    if (index < 0) {
        throwIndexOverflow()
    }
    return index
}

@PublishedApi
internal actual fun checkCountOverflow(count: Int): Int {
    if (count < 0) {
        throwCountOverflow()
    }
    return count
}


/**
 * JS map and set implementations do not make use of capacities or load factors.
 */
@PublishedApi
internal actual fun mapCapacity(expectedSize: Int) = expectedSize

/**
 * Checks a collection builder function capacity argument.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
internal fun checkBuilderCapacity(capacity: Int) {
    require(capacity >= 0) { "capacity must be non-negative." }
}
package kotlin.collections

/**
 * Returns the given iterator itself. This allows to use an instance of iterator in a `for`
 * loop. 
 */
public inline operator fun <T> Iterator<T>.iterator(): Iterator<T> = this

/**
 * Returns an `Iterator` that wraps each element produced
 * by the original iterator into an `IndexedValue` containing the index of that element and the element itself.
 */
internal class IndexingIterator<out T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {
    private var index = 0
    final override fun hasNext(): Boolean = iterator.hasNext()
    final override fun next(): IndexedValue<T> = IndexedValue(checkIndexOverflow(index++), iterator.next())
}

package kotlin.comparisons

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
public expect fun <T : Comparable<T>> maxOf(a: T, b: T): T

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Byte, b: Byte): Byte

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Short, b: Short): Short

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Int, b: Int): Int

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Long, b: Long): Long

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Float, b: Float): Float

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Double, b: Double): Double

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect fun maxOf(a: T, b: T, c: T): T

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
public fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {
    return maxOf(a, maxOf(b, c, comparator), comparator)
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
public fun <T> maxOf(a: Byte, b: Byte, c: Byte): Byte {
    return if (comparator.compare(a, b) >= 0) a else b
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
public fun <T> maxOf(a: Short, b: Short, c: Short): Short {
    return if (comparator.compare(a, b) >= 0) a else b
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
public fun <T> maxOf(a: Int, b: Int, c: Int): Int {
    return if (comparator.compare(a, b) >= 0) a else b
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
public fun <T> maxOf(a: Long, b: Long, c: Long): Long {
    return if (comparator.compare(a, b) >= 0) a else b
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
public fun <T> maxOf(a: Float, b: Float, c: Float): Float {
    return if (comparator.compare(a, b) >= 0) a else b
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
public fun <T> maxOf(a: Double, b: Double, c: Double): Double {
    return if (comparator.compare(a, b) >= 0) a else b
}
multiple equal maximal values, returns the first of them.

```kotlin
public expect fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T
```

```kotlin
public expect fun maxOf(a: Byte, vararg other: Byte): Byte
```

```kotlin
public expect fun maxOf(a: Short, vararg other: Short): Short
```

```kotlin
public expect fun maxOf(a: Int, vararg other: Int): Int
```

```kotlin
public expect fun <T : Comparable<T>> maxOf(a: Long, vararg other: Long): Long
```

```kotlin
public expect fun maxOf(a: Float, vararg other: Float): Float
```

```kotlin
public expect fun maxOf(a: Double, vararg other: Double): Double
```

```kotlin
public expect fun <T> maxOf(a: T, vararg other: T, comparator: Comparator<in T>): T
```

```kotlin
@SinceKotlin("1.1")
public expect fun <T : Comparable<T>> minOf(a: T, b: T): T
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Byte, b: Byte): Byte
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Short, b: Short): Short
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Int, b: Int): Int
```

```kotlin
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public expect fun minOf(a: Long, b: Long): Long
```

```kotlin
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```

```kotlin
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```

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```

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```

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```

```kotlin
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```

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```

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public expect fun minOf(a: Int, b: Int): Int
```

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```

```kotlin
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public expect fun minOf(a: Float, b: Float): Float
```

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```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Byte, b: Byte): Byte
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Short, b: Short): Short
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Int, b: Int): Int
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Long, b: Long): Long
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Float, b: Float): Float
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Double, b: Double): Double
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Byte, b: Byte): Byte
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Short, b: Short): Short
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Int, b: Int): Int
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Long, b: Long): Long
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Float, b: Float): Float
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Double, b: Double): Double
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Byte, b: Byte): Byte
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Short, b: Short): Short
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Int, b: Int): Int
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Long, b: Long): Long
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Float, b: Float): Float
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Double, b: Double): Double
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Byte, b: Byte): Byte
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Short, b: Short): Short
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Int, b: Int): Int
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Long, b: Long): Long
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Float, b: Float): Float
```

```kotlin
@SinceKotlin("1.1")
public expect fun minOf(a: Double, b: Double): Double
```
smaller of the given values.

```kotlin
@SinceKotlin("1.4")
public expect fun minOf(a: Short, vararg other: Short): Short
```

```kotlin
@SinceKotlin("1.4")
public expect fun minOf(a: Int, vararg other: Int): Int
```

```kotlin
@SinceKotlin("1.4")
public expect fun minOf(a: Long, vararg other: Long): Long
```

```kotlin
@SinceKotlin("1.4")
public expect fun minOf(a: Float, vararg other: Float): Float
```

```kotlin
@SinceKotlin("1.4")
public expect fun minOf(a: Double, vararg other: Double): Double
```

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.jvm.JvmName("minOf")
@kotlin.jvm.JvmMultifileClass
@kotlin.jvm.JvmName("MapsKt")
@@kotlin.package
@@kotlin.collections
@@kotlin
@@Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma
```

```
import kotlin.random.
import kotlin.ranges.contains
import kotlin.ranges.reversed
```

```kotlin
/**
 * Returns a List containing all key-value pairs.
 */
public fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {
    if (size == 0)
        return emptyList()
    val iterator = entries.iterator()
    if (!iterator.hasNext())
        return emptyList()
    val first = iterator.next()
    if (!iterator.hasNext())
        return listOf(first.toPair())
    val result = ArrayList<Pair<K, V>>(size)
    result.add(first.toPair())
    do {
        result.add(iterator.next().toPair())
    } while (iterator.hasNext())
    return result
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map.
 */
public inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map.
 */
public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
```

```kotlin
/**
 * Returns a list containing the results of applying the given [transform] function to each entry
 * of the original map.
 */
public inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {
    return mapTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a list containing the results of applying the given [transform] function to each entry
 * of the original map.
 */
public inline fun <K, V, R> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map.
 */
public inline fun <K, V, R> Map<out K, V>.flatMapSequence(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map.
 */
public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapSequenceTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map.
 */
public inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> R): List<R> {
    return mapTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map.
 */
public inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {
    return mapTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map.
 */
public inline fun <K, V, R> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map.
 */
public inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> R): List<R> {
    return mapTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map.
 */
public inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {
    return mapTo(ArrayList<R>(), transform)
}
```
transform)\n\n\n\nApplies the given [transform] function to each entry in the original map\n* and appends only the non-null results to the given [destination].\n*
\n\n\nApplies the given [transform] function to each entry in the original map\n* and appends the results to the given [destination].\n*
\n\n\n\nApplies the given [predicate] function to each entry in the original map\n* and appends \n\n\n\nApplies the given [predicate] function to each entry in the original map\n* and appends \n\n\n\nApplies the given [predicate] function to each entry in the original map\n* and appends the results to the given [destination].\n*
\n\n\nApplies the given [predicate] function to each entry in the original map\n* and appends the results to the given [destination].\n*
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {
    return entries.maxOfOrNull(selector)
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each entry in the map or `null` if there are no entries.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {
    return entries.maxOfOrNull(selector)
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each entry in the map or `null` if there are no entries.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
    return entries.maxOfOrNull(selector)
}

/**
 * Returns the largest value according to the provided [comparator] function
 * applied to each entry in the map.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
    return entries.maxOfWith(comparator, selector)
}

/**
 * Returns the largest value according to the provided [comparator] function
 * applied to each entry in the map or `null` if there are no entries.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
    return entries.maxOfWithOrNull(comparator, selector)
}

@Deprecated("Use maxWithOrNull instead.",
ReplaceWith("maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@kotlin.internal.InlineOnly
    return maxWithOrNull(comparator)
}

/**
 * Returns the first entry having the largest value according to the provided [comparator] or `null` if there are no entries.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
    return entries.maxWithOrNull(comparator)
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each entry in the map or `null` if there are no entries.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> Double): Double? {
    return entries.minOf(selector)
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each entry in the map or `null` if there are no entries.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {
    return entries.minOfOrNull(selector)
}

@Deprecated("Use minByOrNull instead.",
ReplaceWith("minByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
    return minByOrNull(selector)
}

/**
 * Returns the first entry yielding the smallest value of the given function
 * or `null` if there are no entries.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
    return entries.minByOrNull(selector)
}

/* Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 63286 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> Float): Float {
    return entries.minOf(selector)
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each entry in the map.
 * @throws NoSuchElementException if the map is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V, R : Comparable<R>> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> R): R {
    return entries.minOf(selector)
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each entry in the map or `null` if there are no entries.
 * If any of values produced by [selector] function is ``NaN`, the returned result is ``NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {
    return entries.minOfOrNull(selector)
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each entry in the map or `null` if there are no entries.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {
    return entries.minOfOrNull(selector)
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each entry in the map or `null` if there are no entries.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V, R> Map<out K, V>.minOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {
    return entries.minOfWith(comparator, selector)
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each entry in the map or `null` if there are no entries.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
    return entries.minOfWithOrNull(comparator, selector)
}

@Deprecated("Use minWithOrNull instead.",
ReplaceWith("minWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
    return minWithOrNull(comparator)
}

/**
 * Returns `true` if no entries match the given [predicate].
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun <K, V> Map<out K, V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {
    if (isEmpty()) return true
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Performs the given [action] on each entry and...
M.onEach(action: (Map.Entry<K, V>) -> Unit): M {
    return apply {
        forEachIndexed { index, entry -> action(entry) }
    }
}

/**
 * Performs the given `[action]` on each entry, providing sequential index with the entry.
 * @param `[action]` a function that takes a sequential index and a map entry and returns
 * `true` if the corresponding entry should be removed. A `true` return makes
 * the `forEachIndexed` call visit the entry and the `forEach` call not visit it.
 */
@SinceKotlin("1.1")
public inline fun <K, V, M : Map<out K, V>>
    M.onEachIndexed(action: (Int, Map.Entry<K, V>) -> Unit): M {
    return apply {
        entries.forEachIndexed { index, entry -> action(index, entry) }
    }
}

/**
 * Creates an `Iterable` instance that wraps the original map returning
 * its entries when being iterated.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {
    return entries
}

/**
 * Creates a `Sequence` instance that
 * wraps the original map returning its entries when being iterated.
 */
public fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K, V>> {
    return entries.asSequence()
}

/*
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 * Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SequencesKt")

package kotlin.sequences

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//
import kotlin.random.*

/**
 * Returns `true` if `[element]` is found in the sequence.
 * The operation is _terminal_.
 */
public operator fun <T> Sequence<T>.contains(element: T): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns an element at the given `[index]` or throws an `[IndexOutOfBoundsException]` if the
 * `[index]` is out of bounds of this sequence.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public fun <T> Sequence<T>.elementAt(index: Int): T {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("Sequence doesn't contain element at index $index.") }
}

/**
 * Returns an element at the given `[index]` or the result of calling the `[defaultValue]` function if the `[index]` is out of bounds of this sequence.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
public fun <T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
    if (index < 0)
        return defaultValue(index)
    var iterator = iterator()
    var count = 0
    while (iterator.hasNext()) {
        val element = iterator.next()
        if (index == count++)
            return element
    }
    return defaultValue(index)
}

/**
 * Returns first element.
 * @throws [NoSuchElementException] if the
 * sequence is empty.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.first(): T {
    val iterator = iterator()
    if (!iterator.hasNext())
        throw NoSuchElementException("Sequence is empty.")
    return iterator.next()
}

/**
 * Returns the first element matching the given `[predicate]`. If no such element is found,`null` is returned.
 * The operation is _terminal_.
 */
public inline fun <T> Sequence<T>.first(predicate: (T) -> Boolean): T {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Sequence contains no element matching the predicate.")
}

/**
 * Returns first element, or `null` if the sequence is empty.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.find(predicate: (T) -> Boolean): T? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {
    return lastOrNull(predicate)
}

/**
 * Returns last element matching the given [predicate], or `null` if no such element was found.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.last(): T? {
    val iterator = iterator()
    if (!iterator.hasNext())
        return null
    var last = iterator.next()
    while (iterator.hasNext()) {
        val current = iterator.next()
        if (current != last)
            last = current
    }
    return last
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {
    val iterator = iterator()
    if (!iterator.hasNext())
        return null
    var last = iterator.next()
    while (iterator.hasNext()) {
        val current = iterator.next()
        if (current != last)
            last = current
    }
    return last
}

/**
 * Returns an element at the given `[index]` or `null` if the `[index]` is out of bounds of this sequence.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Elements.elementAtOrNull
 */
public fun <T> Sequence<T>.elementAtOrNull(index: Int): T? {
    if (index < 0)
        return null
    var iterator = iterator()
    var count = 0
    while (iterator.hasNext()) {
        val element = iterator.next()
        if (index == count++)
            return element
    }
    return null
}

/**
 * Returns first element.
 * @throws [NoSuchElementException] if the
 * sequence is empty.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.firstOrNull(predicate: (T) -> Boolean): T? {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Sequence contains no element matching the predicate.")
}

/**
 * Returns first element, or `null` if the sequence is empty.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.firstOrNull(predicate: (T) -> Boolean): T? {
    for (element in this) if (predicate(element)) return element
    return null
}

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 63288
Sequence<T>.firstOrNull(): T? { \n var iterator = iterator(); \n if (!iterator.hasNext()) return null; \n return iterator.next(); \n } \n
Sequence<T>.firstOrDefault(): T? { \n var iterator = iterator(); \n if (!iterator.hasNext()) return null; \n return iterator.next(); \n } \n
Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int { \n var index = 0; \n for (element in this) \n if (predicate(element)) \n return index; \n index++; \n } \n
Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int { \n var index = lastIndex; \n for (item in this) \n if (predicate(item)) \n return index; \n index++; \n } \n
Sequence<T>.indexOf(element: T): Int { \n var index = -1; \n for (item in this) \n if (element == item) \n return index; \n index++; \n } \n
Sequence<T>.indexOfLast(element: T): Int { \n var index = lastIndex; \n for (item in this) \n if (element == item) \n return index; \n index++; \n } \n
Sequence<T>.lastOrNull(): T? { \n var last = iterator.next(); \n while (iterator.hasNext()) \n last = iterator.next(); \n return last; \n } \n
Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? { \n var last = iterator.next(); \n while (iterator.hasNext()) \n last = iterator.next(); \n if (predicate(last)) \n return last; \n } \n
Sequence<T>.last(): T { \n var last = iterator.next(); \n while (iterator.hasNext()) \n last = iterator.next(); \n return last; \n } \n
Sequence<T>.lastOrDefault(): T { \n var last = iterator.next(); \n while (iterator.hasNext()) \n last = iterator.next(); \n return last; \n } \n
Sequence<T>.indexOfFirst(allowMissing: Boolean): Int { \n var index = 0; \n for (element in this) \n if (predicate(element)) \n return index; \n index++; \n } \n
Sequence<T>.indexOfLast(allowMissing: Boolean): Int { \n var index = 0; \n for (element in this) \n if (predicate(element)) \n return index; \n index++; \n } \n
Sequence<T>.firstOrNull(allowMissing: Boolean): T? { \n var iterator = iterator(); \n if (!iterator.hasNext()) \n return null; \n return iterator.next(); \n } \n
Sequence<T>.firstOrDefault(allowMissing: Boolean): T? { \n var iterator = iterator(); \n if (!iterator.hasNext()) \n return null; \n return iterator.next(); \n } \n
Sequence<T>.indexOfFirst(allowMissing: Boolean): Int { \n var index = 0; \n for (element in this) \n if (predicate(element)) \n return index; \n index++; \n } \n
Sequence<T>.indexOfLast(allowMissing: Boolean): Int { \n var index = 0; \n for (element in this) \n if (predicate(element)) \n return index; \n index++; \n } \n
Sequence<T>.lastOrNull(allowMissing: Boolean): T? { \n var last = iterator.next(); \n while (iterator.hasNext()) \n last = iterator.next(); \n if (predicate(last)) \n return last; \n } \n
Sequence<T>.lastOrDefault(allowMissing: Boolean): T { \n var last = iterator.next(); \n while (iterator.hasNext()) \n last = iterator.next(); \n return last; \n } \n
Sequence<T>.indexOfFirst(allowMissing: Boolean): Int { \n var index = 0; \n for (element in this) \n if (predicate(element)) \n return index; \n index++; \n } \n
Sequence<T>.indexOfLast(allowMissing: Boolean): Int { \n var index = 0; \n for (element in this) \n if (predicate(element)) \n return index; \n index++; \n } \n
Sequence<T>.firstOrNull(allowMissing: Boolean): T? { \n var iterator = iterator(); \n if (!iterator.hasNext()) \n return null; \n return iterator.next(); \n } \n
Sequence<T>.firstOrDefault(allowMissing: Boolean): T? { \n var iterator = iterator(); \n if (!iterator.hasNext()) \n return null; \n return iterator.next(); \n } \n
Sequence<T>.indexOfFirst(allowMissing: Boolean): Int { \n var index = 0; \n for (element in this) \n if (predicate(element)) \n return index; \n index++; \n } \n
Sequence<T>.indexOfLast(allowMissing: Boolean): Int { \n var index = 0; \n for (element in this) \n if (predicate(element)) \n return index; \n index++; \n } \n
Sequence<T>.lastOrNull(allowMissing: Boolean): T? { \n var last = iterator.next(); \n while (iterator.hasNext()) \n last = iterator.next(); \n if (predicate(last)) \n return last; \n } \n
Sequence<T>.lastOrDefault(allowMissing: Boolean): T { \n var last = iterator.next(); \n while (iterator.hasNext()) \n last = iterator.next(); \n return last; \n } \n
Sequence<T>.indexOfFirst(allowMissing: Boolean): Int { \n var index = 0; \n for (element in this) \n if (predicate(element)) \n return index; \n index++; \n } \n
Sequence<T>.indexOfLast(allowMissing: Boolean): Int { \n var index = 0; \n for (element in this) \n if (predicate(element)) \n return index; \n index++; \n } \n
Sequence<T>.firstOrNull(allowMissing: Boolean): T? { \n var iterator = iterator(); \n if (!iterator.hasNext()) \n return null; \n return iterator.next(); \n } \n
Sequence<T>.firstOrDefault(allowMissing: Boolean): T? { \n var iterator = iterator(); \n if (!iterator.hasNext()) \n return null; \n return iterator.next(); \n }
return single\n} \n
/**
 * Returns the single element matching the given [predicate], or `null` if no element was found.
 * The operation is _terminal_ and _stateless_.
 */
public inline fun <T> Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        } else if (!found) return null
    }
    return single
}

/**
 * Returns a sequence containing all elements except first n elements.
 * The operation is _intermediate_ and _stateless_.
 */
public inline fun <T> Sequence<T>.drop(n: Int): Sequence<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return when {
        n == 0 -> this
        this is DropTakeSequence -> this.drop(n)
        else -> DropSequence(this, n)
    }
}

/**
 * Returns a sequence containing all elements except first n elements that satisfy the given [predicate].
 * The operation is _intermediate_ and _stateless_.
 */
public fun <T> Sequence<T>.dropWhile(predicate: (T) -> Boolean): Sequence<T> {
    return DropWhileSequence(this, predicate)
}

/**
 * Returns a sequence containing only elements matching the given [predicate].
 * The operation is _intermediate_ and _stateless_.
 */
public fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {
    return FilteringSequence(this, predicate)
}

/**
 * Returns a sequence containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * The operation is _intermediate_ and _stateless_.
 */
public inline fun <T> Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {
    return TransformingSequence(FilteringSequence(IndexingSequence(this), { predicate(it.index, it.value) }), { it.value })
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * The operation is _terminal_ and _stateless_.
 */
public inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {
    forEachIndexed {
        index, element ->
            if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Returns a sequence containing all elements that are instances of specified type parameter
 * R.
 * The operation is _intermediate_ and _stateless_.
 */
public inline fun <reified R> Sequence<*>.filterIsInstance(): Sequence<R> {
    @Suppress("UNCHECKED_CAST")
    return filter { it is R } as Sequence<R>
}

/**
 * Appends all elements that are instances of specified type parameter R to the given [destination].
 * The operation is _intermediate_ and _stateless_.
 */
public fun <C : MutableCollection<in R>> Sequence<R>.filterIsInstanceTo(destination: C): C {
    for (element in this) if (element is R) destination.add(element)
    return destination
}

/**
 * Returns a sequence containing all elements not matching the given [predicate].
 * The operation is _intermediate_ and _stateless_.
 */
public fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {
    return FilteringSequence(this, false, predicate)
}

/**
 * Returns a sequence containing all elements that are not `null`.
 * The operation is _intermediate_ and _stateless_.
 */
public fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {
    @Suppress("UNCHECKED_CAST")
    return filterNot { it == null } as Sequence<T?>
}

/**
 * Returns a sequence containing all elements that are not `null` to the given [destination].
 * The operation is _intermediate_ and _stateless_.
 */
public inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterNotNullTo(destination: C): C {
    for (element in this) if (element != null) destination.add(element)
    return destination
}

/*
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the given [predicate] to the given [destination].

* The operation is _terminal_.

@sample samples.collections.Collections.Filtering.filterTo

*/

```kotlin
public inline fun <T, C : MutableCollection<in T>>
    Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * 
 * The operation is _terminal_.
 * 
 * @sample samples.collections.Collections.Filtering.filterTo
 */
public inline fun <T, C : MutableCollection<in T>>
    Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Returns a sequence containing first [n] elements satisfying the given [predicate].
 * The operation is _intermediate_ and _stateless_.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public fun <T> Sequence<T>.take(n: Int): Sequence<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return when {
        n == 0 -> emptySequence()
        this is DropTakeSequence -> this.take(n)
        else -> TakeSequence(this, n)
    }
}

/**
 * Returns a sequence containing first elements satisfying the given [predicate].
 * The operation is _intermediate_ and _stateful_.
 */
public fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {
    return TakeWhileSequence(this, predicate)
}

/**
 * Returns a sequence that yields elements of this sequence sorted according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * The operation is _intermediate_ and _stateful_.
 */
public fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {
    return object : Sequence<T> {
        override fun iterator(): Iterator<T> {
            val sortedList = this@sorted.toMutableList()
            sortedList.sort()
            return sortedList.iterator()
        }
    }
}

/**
 * Returns a sequence that yields elements of this sequence sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * The operation is _intermediate_ and _stateful_.
 */
public inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a sequence that yields elements of this sequence sorted descending according to natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * The operation is _intermediate_ and _stateful_.
 */
public fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {
    return sortedWith(reverseOrder())
}

/**
 * Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * The operation is _intermediate_ and _stateful_.
 */
public fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {
    return object : Sequence<T> {
        override fun iterator(): Iterator<T> {
            val sortedList = this@sortedWith.toMutableList()
            sortedList.sortWith(comparator)
            return sortedList.iterator()
        }
    }
}

/**
 * Returns a Map containing key-value pairs provided by [transform] function applied to elements of the given sequence.
 * The returned map preserves the entry iteration order of the original sequence.
 */
public inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
    return associateTo(LinkedHashMap<K, V>(), transform)
}
```

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iteration order of the original sequence. *
 * The operation is _terminal_.
 * 
 * @sample

```kotlin
public inline fun <T, K>

Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {
    return associateByTo(LinkedHashMap<K, T>(), keySelector)"
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence. *
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original sequence. *
 * The operation is _terminal_.
 * 
 * @sample

```kotlin
public inline fun <T, K, V>

Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)"
 * Populates and returns the [destination] mutable map with key-value pairs. *
 * where key is provided by the [keySelector] function applied to each element of the given sequence. *
 * and value is the element itself. *
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The operation is _terminal_.
 * 
 * @sample

```kotlin
public inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs. *
 * where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given sequence. *
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map. *
 * The operation is _terminal_.
 * 
 * @sample

```kotlin
public inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByToWithValueTransform(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection. *
 * The operation is _terminal_.
 */
public fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Returns a [HashSet] of all elements. *
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.toHashSet(): HashSet<T> {
    return toCollection(HashSet<T>())
}

/**
 * Returns a [List] containing all elements. *
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.toList(): List<T> {
    return
```
this.toMutableList().optimizeReadOnlyList(). Returns a new [MutableList] filled with all elements of this.sequence $\ast n$ * The operation is _terminal_ $\ast n$ *public fun $\langle T \rangle$ Sequence$\langle T \rangle$.toMutableList():
MutableList$\langle T \rangle$ $\{ [n \quad return toCollection(ArrayList$\langle T \rangle())])\}n/\ast \ast n$ * Returns a [Set] of all elements.$\ast n$ * $\ast n$ * The operation is _intermediate_ and _stateless_ $\ast n$ * @sample samples.collections.Collections.Transformations.flatMap

*\@\@SinceKotlin("1.4")\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.jvm.JvmName("flatMapIterable")\@public fun $\langle T, R \rangle$
Sequence$\langle T \rangle$.flatMap(transform: (T) -> Iterable$\langle R \rangle$): Sequence$\langle R \rangle$ $\{ [n \quad return FlatteningSequence(this, transform, Iterable$\langle R \rangle$::iterator)\}n/\ast \ast n$ * Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.$\ast n$ * $\ast n$ * The operation is _intermediate_ and _stateless_ $\ast n$ * @sample samples.collections.Collections.Transformations.flatMap

*\@\@SinceKotlin("1.4")\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.jvm.JvmName("flatMapIndexedIterable")\@public fun $\langle T, R \rangle$
Sequence$\langle T \rangle$.flatMapIndexed(transform: (Int, T) -> Iterable$\langle R \rangle$): Sequence$\langle R \rangle$ $\{ [n \quad return FlatteningSequence(this, transform, Iterable$\langle R \rangle$::iterator)\}n/\ast \ast n$ * Returns a single sequence of all elements yielded from results of [transform] function being invoked on each element$\ast n$ * and its index in the original sequence.$\ast n$ * $\ast n$ * The operation is _intermediate_ and _stateless_ $\ast n$ * @sample

samples.collections.Collections.Transformations.flatMapIndexed

*\@\@SinceKotlin("1.4")\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.jvm.JvmName("flatMapIndexed")\@public fun $\langle T, R \rangle$
Sequence$\langle T \rangle$.flatMapIndexed(transform: (Int, T) -> Sequence$\langle R \rangle$): Sequence$\langle R \rangle$ $\{ [n \quad return FlatteningSequence(this, transform, Sequence$\langle R \rangle$::iterator)\}n/\ast \ast n$ * Returns a single sequence of all elements yielded from results of [transform] function being invoked on each element$\ast n$ * and its index in the original sequence.$\ast n$ * $\ast n$ * The operation is _intermediate_ and _stateless_ $\ast n$ * @sample

samples.collections.Collections.Transformations.flatMap

*\@\@SinceKotlin("1.4")\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.jvm.JvmName("flatMapIndexedTo")\@public fun $\langle T, R, C : MutableCollection<in R> \rangle$ Sequence$\langle T \rangle$.flatMapIndexedTo(destination: C, transform: (Int, T) -> Iterable$\langle R \rangle$): C $\{ [n \quad var index = 0n \quad for (element in this) \{ [n \quad val list = transform(checkIndexOfOverflow(index++), element) \quad destination.addAll(list) \}}n \quad return destination$\}n/\ast \ast n$ * Appends all elements yielded from results of [transform] function being invoked on each element$\ast n$ * and its index in the original sequence, to the given [destination].$\ast n$ * $\ast n$ * The operation is _terminal_ $\ast n$

*\@\@SinceKotlin("1.4")\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.jvm.JvmName("flatMapTo")\@public inline fun $\langle T, R, C : MutableCollection<in R> \rangle$ Sequence$\langle T \rangle$.flatMapTo(destination: C, transform: (Int, T) -> Sequence$\langle R \rangle$): C $\{ [n \quad var index = 0n \quad for (element in this) \{ [n \quad val list = transform(checkIndexOfOverflow(index++), element) \quad destination.addAll(list) \}}n \quad return destination$\}n/\ast \ast n$ * Appends all elements yielded from results of [transform] function being invoked on each element of original sequence, to the given [destination]$\ast n$ * $\ast n$ * The operation is _terminal_ $\ast n$

*\@\@SinceKotlin("1.4")\@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\@OverloadResolution
ByLambdaReturnType\@kotlin.jvm.JvmName("flatMapIterable")\@public fun $\langle T, R \rangle$

MutableCollection<R> >> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each
 * element of original sequence, to the given [destination].
 * The operation is _terminal_.
 */
public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Groups elements of the original sequence by the key returned by the given [keySelector]
 * function
 * to each element and returns a map where each key is associated with a list of
 * corresponding elements.
 * The returned map preserves the entry iteration order of the keys produced from the
 * original sequence.
 */
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each
 * element of the original sequence
 * by the key returned by the given [keySelector] function applied to the element
 * and returns a map where each group key is associated with a list of corresponding values.
 */
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Creates a [Grouping] source from a sequence to be used later with one of group-and-fold
 * operations
 * using the specified [keySelector] function to extract a key from each element.
 */
@SinceKotlin("1.1")
public inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {
    return object : Grouping<T, K> {
        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()
        override fun keyOf(element: T): K = keySelector(element)
    }
}

/**
 * Returns a sequence containing the results of applying the given [transform] function
 * to each element of the original sequence.
 */
public fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {
    return TransformingSequence(this, transform)
}

/**
 * Returns a sequence containing the results of applying the given [transform] function
 * to each element and its index in the original sequence.
 */
public fun <T, R> Sequence<T>.mapIndexed(transform: (Int, T) -> R): Sequence<R> {
    return
TransformingIndexedSequence(this, transform).filterNotNull(). Returns a sequence containing only the non-null results of applying the given [transform] function to each element and its index in the original sequence.

@transform (indexOf the index of an element and the element itself) and returns the result of the transform applied to the element.

The operation is _intermediate_ and _stateless_.

public fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {
    return TransformingIndexedSequence(this, transform).filterNotNull().
}

/**
 * Returns a sequence containing only the non-null results of applying the given [transform] function
to each element and its index in the original sequence and appends only the non-null results to the given
[destination].

@transform (indexOf the index of an element and the element itself) and returns the result of the transform applied to the element.

The operation is _terminal_ and _stateless_.

public inline fun <T, R : Any, C : MutableCollection<R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {
    return destination.mapIndexedNotNull(transform).
}

/**
 * Applies the given [transform] function to each element of the original sequence
 * and appends the results to the given [destination].
 *
 * The operation is _terminal_ and _stateless_.
 */
public inline fun <T, R, C : MutableCollection<R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Returns a sequence containing only distinct elements from the given sequence.
 * 
 * Among equal elements of the given sequence, only the first one will be present in the resulting sequence.
 * The operation is _intermediate_ and _stateful_.
 * 
 * @sample
 */
public fun <T> Sequence<T>.distinct(): Sequence<T> {
    return this.distinctBy { it }
}

/**
 * Returns a new [MutableSet] containing all distinct elements from the given sequence.
 * 
 * The returned set preserves the element iteration order of the original sequence.
 * The operation is _terminal_ and _stateful_.
 */
public fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {
    val set = LinkedHashSet<T>()
    for (item in this)
        set.add(item)
    return set
}

/**
 * Returns `true` if all elements match the given [predicate].
 *
 * The operation is _terminal_ and _stateful_.
 */
public inline fun <T> Sequence<T>.all(transform: (T) -> Boolean): Boolean {
    return this.all { transform(it) }
}
Sequence<T>.all(predicate: (T) -> Boolean): Boolean { for (element in this) if (!predicate(element)) return false
    return true
}

Sequence<T>.any(): Boolean { return iterator().hasNext()
}

Sequence<T>.any(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

Sequence<T>.count(): Int { var count = 0
    for (element in this) checkCountOverflow(++count)
    return count
}

Sequence<T>.count(predicate: (T) -> Boolean): Int { var count = 0
    for (element in this) if (predicate(element)) checkCountOverflow(++count)
    return count
}

Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R { var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R { var index = 0
    var accumulator = initial
    for (item in this) accumulator = operation(checkIndexOverflow(index++), accumulator, item)
    return accumulator
}

Sequence<T>.forEach(action: (T) -> Unit): Unit { for (element in this) action(element)
}

Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit { var index = 0
    for (item in this) action(checkIndexOverflow(index++), item)
}

Sequence<T>.max(): Double? { if (!hasNext()) return null
    var maxElem = next()
    if (!hasNext()) return maxElem
    var maxValue = selector(maxElem)
    do { var v = selector(next())
        if (maxValue < v) { maxElem = v
            maxValue = v
        } while (hasNext())
    return maxElem
}

Sequence<T>.maxBy(selector: (T) -> R): T { var iterator = iterator()
    if (!iterator.hasNext()) return null
    var maxElem = iterator.next()
    if (!iterator.hasNext()) return maxElem
    var maxValue = selector(maxElem)
    do { var v = selector(iterator.next())
        if (maxValue < v) { maxElem = v
            maxValue = v
        } while (iterator.hasNext())
    return maxElem
}

Sequence<T>.maxOrNull(): Double? { if (!hasNext()) return null
    var maxElem = next()
    if (!hasNext()) return maxElem
    var maxValue = selector(maxElem)
    do { var v = selector(next())
        if (maxValue < v) { maxElem = v
            maxValue = v
        } while (hasNext())
    return maxElem
}

Sequence<T>.maxByOrNull(selector: (T) -> R): T? { var iterator = iterator()
    if (!iterator.hasNext()) return null
    var maxElem = iterator.next()
    if (!iterator.hasNext()) return maxElem
    var maxValue = selector(maxElem)
    do { var v = selector(iterator.next())
        if (maxValue < v) { maxElem = v
            maxValue = v
        } while (iterator.hasNext())
    return maxElem
}
is NaN. The operation is _terminal_.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.maxOf(selector: (T) -> Double): Double {
    val iterator = iterator() if (iterator.hasNext()) throw NoSuchElementException() var maxValue = selector(iterator.next()) while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function \n * applied to each element in the sequence.\n * If any of values produced by [selector] function is NaN, the returned result is NaN.\n * The operation is _terminal_.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.maxOf(selector: (T) -> Float): Float {
    val iterator = iterator() if (iterator.hasNext()) throw NoSuchElementException() var maxValue = selector(iterator.next()) while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function \n * applied to each element in the sequence or `null` if there are no elements.\n * If any of values produced by [selector] function is NaN, the returned result is NaN.\n * The operation is _terminal_.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Sequence<T>.maxOfOrNull(selector: (T) -> R): R? {
    val iterator = iterator() if (iterator.hasNext()) return null
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function \n * applied to each element in the sequence or `null` if there are no elements.\n * If any of values produced by [selector] function is NaN, the returned result is NaN.\n * The operation is _terminal_.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.maxOfOrNull(selector: (T) -> Double): Double? {
    val iterator = iterator() if (iterator.hasNext()) return null
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function \n * applied to each element in the sequence or `null` if there are no elements.\n * The operation is _terminal_.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.maxOfOrNull(selector: (T) -> Float): Float? {
    val iterator = iterator() if (iterator.hasNext()) return null
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function \n * applied to each element in the sequence or `null` if there are no elements.\n * The operation is _terminal_.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Sequence<T>.maxOfOrNull(selector: (T) -> R): R? {
    val iterator = iterator() if (iterator.hasNext()) return null
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}
public inline fun <T, R: Comparable<T>> Sequence<T>.maxByOrNull(selector: (T) -> R): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minElem = iterator.next()
    var minValue = selector(minElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    } while (iterator.hasNext())
    return minElem
}
minElem

Returns the smallest value among all values produced by [selector] function\n* applied to
each element in the sequence.\nIf any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n*\n*\n*\nto throws NoSuchElementException if the sequence is empty.\n*\n*\n*\nThe operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n*\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n*\n@OverloadResolution
ByLambdaReturnType
*\npublic inline fun <T> Sequence<T>.minOf(selector: (T) -> Double): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}

*\n@SinceKotlin("1.4")\n*\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n*\n@OverloadResolution
ByLambdaReturnType
*\npublic inline fun <T> Sequence<T>.minOf(selector: (T) -> Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}

*\n@SinceKotlin("1.4")\n*\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n*\n@OverloadResolution
ByLambdaReturnType
*\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}

*\n@SinceKotlin("1.4")\n*\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n*\n@OverloadResolution
ByLambdaReturnType
*\npublic inline fun <T> Sequence<T>.minOfOrNull(selector: (T) -> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}

*\n@SinceKotlin("1.4")\n*\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n*\n@OverloadResolution
ByLambdaReturnType
*\npublic inline fun <T> Sequence<T>.minOfOrNull(selector: (T) -> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}

*\n@SinceKotlin("1.4")\n*\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n*\n@OverloadResolution
ByLambdaReturnType
*\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}
NoSuchElementException if the sequence is empty.\n*\n* The operation is _terminal_.
Sequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R { val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n return minValue\n}\n*\n* Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.\n*\n* The operation is _terminal_.
Sequence<T>.minOrNull(): Double? {
 val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n*\n* Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n*\n* The operation is _terminal_.
Sequence<T>.minWithOrNull(comparator: Comparator<in T>): T? {
 val iterator = iterator()\n if (!iterator.hasNext()) return null\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n*\n* Returns `true` if the sequence has no elements.\n*\n* The operation is _terminal_.
Sequence<T>.none(): Boolean {
 return !iterator().hasNext()\n}\n*\n* Returns `true` if no elements match the given [predicate].\n*\n* The operation is _intermediate_ and _stateless_.
Sequence<T>.onEachIndexed(action: (index: Int, T) -> Unit): Sequence<T> {
 val returnMap = map {\n action(it)\n it\n }\n returnMap\n}\n*\n* Returns a sequence which performs the given [action] on each element of the original sequence as they pass through it.\n*\n* The operation is _intermediate_ and _stateless_.
Sequence<T>.onEachIndexed(action: (index: Int, T) -> Unit): Sequence<T> {
 val returnMapIndexed = mapIndexed { index, element ->\n action(index, element)\n element\n }\n returnMapIndexed\n}\n*\n* Accumulates value starting with the first element and applying [operation] from left to
right
 * to current accumulator value and each element.

 * Throws an exception if this sequence is empty. If the sequence can be empty in an expected way, please use [reduceOrNull] instead. It returns ‘null’ when its receiver is empty.

 * and calculates the next accumulator value.

 * The operation is _terminal_.

 * @param

 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun <S, T : S>
Sequence<T>.reduce(operation: (acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original sequence.

 * Returns ‘null’ if the sequence is empty. If the sequence can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

 * @param

 * @sample samples.collections.Collections.Aggregates.reduce
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <S, T : S>
Sequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return null
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right to current accumulator value and each element.

 * Returns ‘null’ if the sequence is empty.

 * Note that ‘acc’ value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.

 * The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence’s lazy nature.

 * @param

 * @sample samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun <T, R> Sequence<T>.runningFold(initial: R, operation: (acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var accumulator = initial
        for (element in this@runningFold) {
            accumulator = operation(accumulator, element)
            yield(accumulator)
        }
    }
}
with [initial] value.

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.

* The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.

* @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

* The operation is _intermediate_ and _stateless._

* @sample samples.collections.Collections.Aggregates.runningFold

*\n@SinceKotlin("1.4")\n
public fun <T, R> Sequence<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var index = 0
        var accumulator = initial
        for (element in this@runningFoldIndexed) {
            accumulator = operation(checkIndexOverflow(index++), accumulator, element)
            yield(accumulator)
        }
    }
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right \* to each element and current accumulator value that starts with the first element of this sequence.

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.

* @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.

* The operation is _intermediate_ and _stateless._

* @sample samples.collections.Collections.Aggregates.runningReduce

*\n@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
public fun <S, T : S> Sequence<T>.runningReduce(operation: (acc: S, T) -> S): Sequence<S> {
    return sequence {
        val iterator = iterator()
        if (iterator.hasNext()) {
            var accumulator: S = iterator.next()
            yield(accumulator)
            while (iterator.hasNext()) {
                accumulator = operation(accumulator, iterator.next())
                yield(accumulator)
            }
        }
    }
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right \* to each element, its index in the original sequence and current accumulator value that starts with the first element of this sequence.

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.

* @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

* The operation is _intermediate_ and _stateless._

* @sample samples.collections.Collections.Aggregates.runningReduceIndexed

*\n@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
public fun <S, T : S> Sequence<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {
    return sequence {
        val iterator = iterator()
        if (iterator.hasNext()) {
            var accumulator: S = iterator.next()
            yield(accumulator)
            var index = 1
            while (iterator.hasNext()) {
                accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
                yield(accumulator)
            }
        }
    }
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right \* to each element and current accumulator value that starts with [initial] value.

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.

* The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* The operation is _intermediate_ and _stateless._

* @sample samples.collections.Collections.Aggregates.scan

*\n@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
public fun <T, R> Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right \* to each element, its index in the original sequence and current accumulator value that starts with [initial] value.

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.

* The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.

* @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

* The operation is _intermediate_ and _stateless._

* @sample samples.collections.Collections.Aggregates.scanIndexed

*\n@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
public fun <T, R> Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {
    return runningFoldIndexed(initial, operation)
}
@sample samples.collections.Collections.Aggregates.scan

*Lu* @sample samples.collections.Collections.Aggregates.scan

```kotlin
@Sample
@Experimental(ExperimentalStdlibApi::class)@Public fun <T, R>
Sequence<T>.scanIndexed(initial: R, operation: (Int, acc: R, T) -> R): Sequence<R> {
    return runningFoldIndexed(initial, operation)
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T, S>
Sequence<T>.scanReduceIndexed(operation: (Int, acc: S, T) -> S): Sequence<S> {
    return runningReduceIndexed(operation)
}

@Deprecated("Use runningReduceIndexed instead.",
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)
@SinceKotlin("1.3")@ExperimentalStdlibApi
public fun <S, T : S>
Sequence<T>.scanReduceIndexed(operation: (Int, acc: S, T) -> S): Sequence<S> {
    return runningReduceIndexed(operation)
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the sequence.
 */
@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
public fun <T> Sequence<T>.sumOf(selector: (T) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the sequence.
 */
@SinceKotlin("1.4")@OverloadResolution
public fun <T, R>
Sequence<T>.scanIndexed(initial: R, operation: (Int, acc: R, T) -> R): Sequence<R> {
    return runningFoldIndexed(initial, operation)
}

@Deprecated("Use runningReduceIndexed instead.",
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)
@SinceKotlin("1.3")@ExperimentalStdlibApi
public fun <S, T : S>
Sequence<T>.scanReduceIndexed(operation: (Int, acc: S, T) -> S): Sequence<S> {
    return runningReduceIndexed(operation)
}
```

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The last list in the resulting sequence may have less elements than the given \[size\] and the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence. The operation is _intermediate_ and _stateful_ and returns a sequence containing all elements of the original sequence without the first occurrence of the given \[element\]. The operation is _intermediate_ and _stateless_.

If the \[elements\] are converted to a [HashSet] to speed up the operation, then the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations. The operation is _intermediate_ and _stateful_.

The \[elements\] may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations. The operation is _intermediate_ and _stateful_.

The operation is _intermediate_ and _stateful_. The \[elements\] may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations. The operation is _intermediate_ and _stateful_.
```kotlin
/*@kotlin.internal.InlineOnly*/
@kotlin.internal.InlineOnly
@public inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {
    return minus(element)
}

/**
 * Splits the original sequence into pair of lists, where *first* list contains elements for which [predicate] yielded `true`, while *second* list contains elements for which [predicate] yielded `false`. The operation is _terminal_ and _stateless_.
 * @sample samples.collections.Sequences.Transformations.partition
 */
@public inline fun <T> Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Returns a sequence containing all elements of the original sequence and then the given [element].
 * The operation is _intermediate_ and _stateless_.
 */
@public inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {
    return plus(element)
}

/**
 * Returns a sequence of snapshots of the window of the given [size] sliding along this sequence with the given [step], where each snapshot is a list.
 * Several last lists may have less elements than the given [size].
 * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.
 * @param size the number of elements to take in each window
 * @param step the number of elements to move the window forward by on each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any, by default `false`
 * which means partial windows won't be preserved
 * @sample samples.collections.Sequences.Transformations.takeWindows
 */
@public fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {
    return windowedSequence(size, step, partialWindows, reuseBuffer = false)
}
```

This code defines a series of functions for manipulating sequences in Kotlin, including operations like splitting a sequence based on a predicate and adding elements to the end of a sequence. The `windowed` function is particularly interesting, as it allows for creating a sequence of snapshots of a sliding window along a given sequence, with options to control the size and step of the window, as well as whether to preserve partial windows at the end.
Sequence<R> { return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform) } Returns a sequence of values built from the elements of this sequence and the other sequence with the same index. The resulting sequence ends as soon as the shortest input sequence ends. The operation is intermediate and stateless. * @sample samples.collections.Sequences.Transformations.zip

/**
 * Returns a sequence of values built from the elements of this sequence and the other sequence with the same index using the provided transform function applied to each pair of elements. The resulting sequence ends as soon as the shortest input sequence ends. The operation is intermediate and stateless. * @sample samples.collections.Sequences.Transformations.zip

/**
 * Returns a sequence of pairs of each two adjacent elements in this sequence. The returned sequence is empty if this sequence contains less than two elements. The operation is intermediate and stateless. * @sample samples.collections.Sequences.Transformations.zipWithNext

/**
 * Returns a sequence containing the results of applying the given transform function to an each pair of two adjacent elements in this sequence. The returned sequence is empty if this sequence contains less than two elements. The operation is intermediate and stateless. * @sample samples.collections.Sequences.Transformations.zipWithNextToFindDeltas

/**
 * Appends the string from all the elements separated using separator and using the given prefix and postfix if supplied. If the collection could be huge, you can specify a non-negative value of limit, in which case only the first limit elements will be appended, followed by the truncated string (which defaults to "...")). The operation is terminal. * @sample samples.collections.Collections.Transformations.joinTo

/**
 * Creates a string from all the elements separated using separator and using the given prefix and postfix if supplied. If the collection could be huge, you can specify a non-negative value of limit, in which case only the first limit elements will be appended, followed by the truncated string (which defaults to "...")). The operation is terminal. * @sample samples.collections.Collections.Transformations.joinToString

/**
 * Creates an Iterable instance that wraps the original sequence returning its elements when being iterated.
 */
public fun <T> Sequence<T>.asIterable(): Iterable<T> {
    return this
}

/**
 * Returns this sequence as a Sequence. *
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.asSequence(): Sequence<T> {
    return this
}

/**
 * Returns an average value of elements in the sequence. The operation is terminal. *
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Sequence<Byte>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns
an average value of elements in the sequence.

* The operation is _terminal_.

* * *

```kotlin
@kotlin.jvm.JvmName("averageOfShort")
public fun Sequence<Short>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

@kotlin.jvm.JvmName("averageOfInt")
public fun Sequence<Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

@kotlin.jvm.JvmName("averageOfLong")
public fun Sequence<Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

@kotlin.jvm.JvmName("averageOfFloat")
public fun Sequence<Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

@kotlin.jvm.JvmName("averageOfDouble")
public fun Sequence<Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
```

*/

```

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")

package kotlin.collections


import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns a set containing all elements of the original
 * set except the given [element].
 * 
 * The returned set preserves the element iteration order of the original set.
 */
public operator fun <T> Set<T>.minus(element: T): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size))
    var removed = false
    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }
}
```
```kotlin
/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements]
 * collection.
 */
public fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(elements)
    return result
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements]
 * collection.
 */
public fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(elements.intersect(elements))
    return result
}

/**
 * Returns a set containing all elements of the original set except the given [element].
 */
public fun <T> Set<T>.minus(element: T): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.remove(element)
    return result
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements]
 * sequence.
 */
public fun <T> Set<T>.minus(element: Sequence<T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.remove(elements.intersect(sequence))
    return result
}

/**
 * Returns a set containing all elements of the original set that aren't already in this set.
 */
public fun <T> Set<T>.minusNull(): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeNull()
    return result
}

/**
 * Returns a set containing all elements of the original set except the given [element] if it isn't already in this set.
 */
public fun <T> Set<T>.minusNull(element: T): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeNull(element)
    return result
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements]
 * collection.
 */
public fun <T> Set<T>.minusNull(elements: Collection<out T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(elements)
    return result
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements]
 * sequence.
 */
public fun <T> Set<T>.minusNull(sequence: Sequence<T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(sequence)
    return result
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements]
 * collection.
 */
public fun <T> Set<T>.minusNull(elements: Array<out T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(elements)
    return result
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements]
 * sequence.
 */
public fun <T> Set<T>.minusNull(sequence: Sequence<T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(sequence)
    return result
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements]
 * collection.
 */
public fun <T> Set<T>.minusNull(elements: Collection<out T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(elements)
    return result
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements]
 * sequence.
 */
public fun <T> Set<T>.minusNull(sequence: Sequence<T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(sequence)
    return result
}
```

---

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doesn't change between successive invocations.

```

```
public fun CharSequence.random(random: Random): Char {
    if (isEmpty())
        throw NoSuchElementException("Char sequence is empty.")
    return get(random.nextInt(length))
}

/**
 * Returns a random character from this char sequence, or `null` if this char sequence is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun CharSequence.randomOrNull(): Char? {
    return randomOrNull(Random)
}

/**
 * Returns a random character from this char sequence using the specified source of randomness, or `null` if this char sequence is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun CharSequence.randomOrNull(random: Random): Char? {
    if (isEmpty())
        return null
    return get(random.nextInt(length))
}

/**
 * Returns the single character, or throws an exception if the char sequence is empty or has more than one character.
 */
@SinceKotlin("1.3")
public fun CharSequence.single(): Char {
    return single(predicate = true)
}

/**
 * Returns the single character matching the given [predicate], or throws a matching character.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
                IllegalArgumentException("Char sequence contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Char sequence contains no character matching the predicate.")

    @Suppress("UNCHECKED_CAST")
    return single as Char
}

/**
 * Returns single character, or `null` if the char sequence is empty or has more than one character.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun String.drop(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return substring(n.coerceAtMost(length))
}

/**
 * Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given [predicate].
 */
public inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in this.indices)
        if (!predicate(this[index]))
            return subSequence(index, length)
    return ""
}

/**
 * Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].
 */
public inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
}

/**
 * Returns a subsequence of this char sequence with the first [n] characters removed.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun String.dropLast(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return substring((length - n).coerceAtLeast(0))
}

/**
 * Returns a subsequence of this char sequence with the last [n] characters removed.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun String.dropFirst(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return substring(n.coerceAtMost(length))
}

/**
 * Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun String.dropFirstWhile(predicate: (Char) -> Boolean): String {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
}

/**
 * Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given [predicate].
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun String.dropWhile(predicate: (Char) -> Boolean): String {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
* Returns a string containing all characters except first characters that satisfy the given [predicate].
@sample samples.text.Strings.drop

```kotlin
public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    for (index in this.indices)
        if (!predicate(this[index]))
            return substring(index)
    return ""
}
```

* Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].

```kotlin
public inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {
    return filterTo(StringBuilder(), predicate)
}
```

* Returns a char sequence containing only those characters from the original string that match the given [predicate].

```kotlin
public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    return filterTo(StringBuilder(), predicate).toCharSequence()
}
```

* Returns a string containing only those characters from the original string that satisfy the given [predicate].

```kotlin
public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    return filterTo(StringBuilder(), predicate).toString()
}
```

* Returns a string containing only those characters from the original string that satisfy the given [predicate].

```kotlin
public inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {
    return filterTo(StringBuilder(), predicate)
}
```

* Returns a char sequence containing only those characters from the original string that match the given [predicate].

```kotlin
public inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {
    return filterTo(StringBuilder(), predicate).toCharSequence()
}
```

* Returns a char sequence containing only those characters from the original string that do not match the given [predicate].

```kotlin
public inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {
    return filterNotTo(StringBuilder(), predicate)
}
```

* Returns a string containing only those characters from the original string that do not match the given [predicate].

```kotlin
public inline fun String.filterNot(predicate: (Char) -> Boolean): String {
    return filterNotTo(StringBuilder(), predicate).toString()
}
```

* Returns a char sequence containing only those characters from the original string that match the given [predicate].

```kotlin
public inline fun CharSequence.filterIndexed(predicate: (Int, Char) -> Boolean): CharSequence {
    return filterIndexedTo(StringBuilder(), predicate)
}
```

* Returns a string containing only those characters from the original string that match the given [predicate].

```kotlin
public inline fun String.filterIndexed(predicate: (Int, Char) -> Boolean): String {
    return filterIndexedTo(StringBuilder(), predicate).toString()
}
```

* Returns a string containing only those characters from the original string that do not match the given [predicate].

```kotlin
public inline fun CharSequence.filterIndexedNot(predicate: (Int, Char) -> Boolean): CharSequence {
    return filterIndexedNotTo(StringBuilder(), predicate)
}
```

* Returns a string containing only those characters from the original string that do not match the given [predicate].

```kotlin
public inline fun String.filterIndexedNot(predicate: (Int, Char) -> Boolean): String {
    return filterIndexedNotTo(StringBuilder(), predicate).toString()
}
```

* Returns a char sequence containing characters of the original char sequence at the specified range of [indices].

```kotlin
public fun CharSequence.slice(indices: IntRange): CharSequence {
    if (indices.isEmpty()) return ""
    return subSequence(indices)
}
```

* Returns a string containing characters of the original string at the specified range of [indices].

```kotlin
public fun String.slice(indices: IntRange): String {
    if (indices.isEmpty()) return ""
    return substring(indices)
}
```

* Returns a char sequence containing characters of the original char sequence at the specified range of [indices].

```kotlin
public fun CharSequence.slice(indices: Iterable<Int>): CharSequence {
    val result = StringBuilder(indices.size)
    for (index in indices) {
        result.append(get(index))
    }
    return result.toString()
}
```

* Returns a string containing characters of the original string at specified [indices].

```kotlin
public fun String.slice(indices: Iterable<Int>): String {
    val result = StringBuilder(indices.size)
    for (index in indices) {
        result.append(get(index))
    }
    return result.toString()
}
```

* Returns a char sequence containing characters of the original string at specified [indices].

```kotlin
public fun CharSequence.slice(indices: Iterable<Int>): CharSequence {
    val result = StringBuilder(indices.size)
    for (i in indices) {
        result.append(get(i))
    }
    return result.toString()
}
```

* Returns a string containing characters of the original string at specified [indices].

```kotlin
public fun String.slice(indices: Iterable<Int>): String {
    val result = StringBuilder(indices.size)
    for (i in indices) {
        result.append(get(i))
    }
    return result.toString()
}
```

* Returns a char sequence containing characters of the original string at specified [indices].

```kotlin
public fun CharSequence.slice(indices: Iterable<Int>): CharSequence {
    val result = StringBuilder(indices.size)
    for (i in indices) {
        result.append(get(i))
    }
    return result.toString()
}
```

* Returns a string containing characters of the original string at specified [indices].

```kotlin
public fun String.slice(indices: Iterable<Int>): String {
    val result = StringBuilder(indices.size)
    for (i in indices) {
        result.append(get(i))
    }
    return result.toString()
}
```
first \([n]\) characters from this char sequence, or the entire char sequence if this char sequence is shorter.\(\text{ln} * \text{ln} * \) @throws IllegalArgumentException if \(n\) is negative.\(\text{ln} * \text{ln} * \) @sample samples.text.Strings.take\(n\) */

public fun CharSequence.take(n: Int): CharSequence {
    require(n >= 0) { "Requested character count \(n\) is less than zero." }
    return subSequence(0, n.coerceAtMost(length)).\(\text{ln} * \text{ln} * \) \(\text{ln} * \text{ln} * \) Returns a string containing the first \(n\) characters from this string, or the entire string if this string is shorter.\(\text{ln} * \text{ln} * \) @throws IllegalArgumentException if \(n\) is negative.\(\text{ln} * \text{ln} * \) @sample samples.text.Strings.take\(n\) */

public fun String.take(n: Int): String {
    require(n >= 0) { "Requested character count \(n\) is less than zero." }
    return substring(0, n.coerceAtMost(length)).\(\text{ln} * \text{ln} * \) \(\text{ln} * \text{ln} * \) Returns a string containing the last \(n\) characters from this string, or the entire string if this string is shorter.\(\text{ln} * \text{ln} * \) @throws IllegalArgumentException if \(n\) is negative.\(\text{ln} * \text{ln} * \) @sample samples.text.Strings.take\(n\) */

public fun CharSequence.takeLast(n: Int): CharSequence {
    require(n >= 0) { "Requested character count \(n\) is less than zero." }
    val length = length
    return subSequence(length - n.coerceAtMost(length), length).\(\text{ln} * \text{ln} * \) \(\text{ln} * \text{ln} * \) Returns a string containing the last \(n\) characters from this string, or the entire string if this string is shorter.\(\text{ln} * \text{ln} * \) @throws IllegalArgumentException if \(n\) is negative.\(\text{ln} * \text{ln} * \) @sample samples.text.Strings.take\(n\) */

public fun String.takeLast(n: Int): String {
    require(n >= 0) { "Requested character count \(n\) is less than zero." }
    val length = length
    return substring(length - n.coerceAtMost(length)).\(\text{ln} * \text{ln} * \) \(\text{ln} * \text{ln} * \) Returns a string containing the last \(n\) characters from this string, or the entire string if this string is shorter.\(\text{ln} * \text{ln} * \) @throws IllegalArgumentException if \(n\) is negative.\(\text{ln} * \text{ln} * \) @sample samples.text.Strings.take\(n\) */

public fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return subSequence(index + 1, length).\(\text{ln} * \text{ln} * \) \(\text{ln} * \text{ln} * \) Returns a string containing the last characters that satisfy the given \(\text{predicate}\).\(\text{ln} * \text{ln} * \) @sample samples.text.Strings.take\(n\) */

public fun String.takeLastWhile(predicate: (Char) -> Boolean): String {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return substring(index + 1).\(\text{ln} * \text{ln} * \) \(\text{ln} * \text{ln} * \) Returns a string containing the last characters that satisfy the given \(\text{predicate}\).\(\text{ln} * \text{ln} * \) @sample samples.text.Strings.take\(n\) */

public fun CharSequence.reverse(): CharSequence {
    return StringBuilder(this).reverse().\(\text{ln} * \text{ln} * \) \(\text{ln} * \text{ln} * \) Returns a string with characters in reversed order.\(\text{ln} * \text{ln} * \) @sample samples.text.Strings.take\(n\) */

public fun String.reverse(): String {
    return (this as CharSequence).reverse().toString().\(\text{ln} * \text{ln} * \) \(\text{ln} * \text{ln} * \) Returns a [String] containing key-value pairs provided by \(\text{transform}\) function.\(\text{ln} * \) applied to characters of the given char sequence.\(\text{ln} * \text{ln} * \) If any of two pairs would have the same key the last one gets added to the map.\(\text{ln} * \text{ln} * \) The returned map preserves the entry iteration order of the original char sequence.\(\text{ln} * \text{ln} * \) @sample samples.text.Strings.associate */

public fun <K> String.associateBy(keySelector: (Char) -> K): Map<K, Char> {
    val capacity = mapCapacity(length).coerceAtLeast(16).\(\text{ln} * \text{ln} * \) \(\text{ln} * \text{ln} * \) Returns a [Map] containing the characters from the given char sequence indexed by the key.\(\text{ln} * \) returned from [keySelector] function applied to each character.\(\text{ln} * \text{ln} * \) If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\(\text{ln} * \text{ln} * \) The returned map preserves the entry iteration order of the original char sequence.\(\text{ln} * \text{ln} * \) @sample samples.text.Strings.associateBy */

public fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {
    val capacity = mapCapacity(length).coerceAtLeast(16).\(\text{ln} * \text{ln} * \) \(\text{ln} * \text{ln} * \) Returns a [Map] containing the characters of the given char sequence.\(\text{ln} * \text{ln} * \) If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\(\text{ln} * \text{ln} * \) The returned map preserves the
entry iteration order of the original char sequence.

```kotlin
CharSequence.associateByWithValueTransform

CharSequence.associateByWithValueTransform

CharSequence.associateByWithValueTransform

CharSequence.associateByWithValueTransform

CharSequence.associateWith

CharSequence.associateWith

CharSequence.associateWith

CharSequence.toCollection

CharSequence.toHashSet

CharSequence.toList

CharSequence.toMutableList

CharSequence.toSet

CharSequence.toMutableList
```

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samples.collections.Collections.Transformations.flatMap\n*\n@public inline fun <R>
 CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n*\n* Returns a single list of all elements yielded from results of [transform] function being invoked on each character and its index in the original char sequence.\n* \n* @sample
 samples.collections.Collections.Transformations.flatMapIndexedTo\n
\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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ByLambdaReturnType\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterable")
@kotlin.internal.InlineOnly
public inline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), \n* \n* Adds all elements yielded from results of [transform] function being invoked on each character\n* and its index in the original char sequence, to the given \n* \n* @sample
samples.collections.Grouping.groupingByEachCount
*/
@SinceKotlin("1.1")
public inline fun <K>
CharSequence.groupingBy(inline keySelector: (Char) -> K): Grouping<Char, K> {
    return object : Grouping<Char, K> {
        override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()
        override fun keyOf(element: Char): K = keySelector(element)
    }
}

/**
 * Returns a list containing the results of applying the given [transform] function
 * to each character in the original char sequence.
 */
@param [transform] function that takes the index of a character and the character itself
 * and returns the result of the transform applied to the character.
 @sample samples.text.Strings.map
 */
public inline fun <R> CharSequence.map(transform: (Char) -> R): List<R> {
    return mapTo(ArrayList<R>(length), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function
 * to each character and its index in the original char sequence.
 */
@param [transform] function that takes the index of a character and the character itself
 * and returns the result of the transform applied to the character.
 @sample samples.text.Strings.mapIndexed
 */
public inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(length), transform)
}

/**
 * Returns a list containing only the non-null results of applying the given [transform] function
 * to each character and its index in the original char sequence.
 */
@sample samples.text.Strings.mapNotNull
 */
public inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each character and its index in the original char sequence
 * and appends only the non-null results to the given [destination].
 */
@param [transform] function that takes the index of a character and the character itself
 * and returns the result of the transform applied to the character.
 @sample samples.collections.Collections.Transformations.mapNotNull
 */
public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) -> R?): C {
    forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }
    return destination
}

/**
 * Applies the given [transform] function to each character of the original char sequence
 * and appends the results to the given [destination].
 */
public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform: (Char) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Returns a lazy [Iterable] that wraps each character of the original char sequence
 * into an [IndexedValue] containing the index of that character and the character itself.
 */
public fun CharSequence.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns `true` if all characters match the given [predicate].
 */
public inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if at least one character matches the given [predicate].
 */
public inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one character matches the given [predicate].
 */
public inline fun CharSequence.anyWithPredicate(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one character matches the given [predicate].
 */
public inline fun CharSequence.anyWithPredicate(predicate: (Char) -> Boolean): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one character matches the given [predicate].
 */
public inline fun CharSequence.anyWithPredicate(predicate: (Char) -> Boolean): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one character matches the given [predicate].
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public inline fun CharSequence.anyWithPredicate(predicate: (Char) -> Boolean): Boolean {
    return !isEmpty()
}

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 * Returns `true` if at least one character matches the given [predicate].
 */
public inline fun CharSequence.anyWithPredicate(predicate: (Char) -> Boolean): Boolean {
    return !isEmpty()
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/**
 * Returns `true` if at least one character matches the given [predicate].
 */
public inline fun CharSequence.anyWithPredicate(predicate: (Char) -> Boolean): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one character matches the given [predicate].
 */
public inline fun CharSequence.anyWithPredicate(predicate: (Char) -> Boolean): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one character matches the given [predicate].
 */
public inline fun CharSequence.anyWithPredicate(predicate: (Char) -> Boolean): Boolean {
    return !isEmpty()
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each character in the char sequence.
 * If any of values produced by [selector] function is `NaN`, the returned
 * result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun CharSequence.maxOf(selector: (Char) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each character in the char sequence.
 * If any of values produced by [selector] function is `NaN`, the returned
 * result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun <R : Comparable<R>> CharSequence.maxOf(selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each character in the char sequence or `null` if there are no
 * characters.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun CharSequence.maxOfOrNull(selector: (Char) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each character in the char sequence or `null` if there are no
 * characters.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun <R : Comparable<R>> CharSequence.maxOfOrNull(selector: (Char) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator]
 * among all values produced by [selector] function applied to each character
 * in the char sequence or `null` if there are no characters.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun <R> CharSequence.maxOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all
 * values produced by [selector] function applied to each character in the
 * char sequence or `null` if there are no characters.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
public inline fun <R> CharSequence.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}
return null

var maxValue = selector(this[0])
for (i in 1..lastIndex) {
    val v = selector(this[i])
    if (comparator.compare(maxValue, v) < 0) {
        maxValue = v
    }
}

return maxValue

*\n
Returns the largest character or `null` if there are no characters.

*\n
@SinceKotlin("1.4")

public fun CharSequence.maxOrNull(): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest character or `null` if there are no characters.
 * 
 * @since 1.4
 */

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun CharSequence.minOf(selector: (Char) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the largest character or `null` if there are no characters.
 * 
 * @since 1.4
 */

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun CharSequence.minOf(selector: (Char) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the largest character or `null` if there are no characters.
 * 
 * @since 1.4
 */

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> CharSequence.minOf(selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the largest character or `null` if there are no characters.
 * 
 * @since 1.4
 */

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> CharSequence.minOfOrNull(selector: (Char) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}
1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each character in the char sequence or `null` if there are no characters.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.experimental.ExperimentalTypeInference
public inline fun CharSequence.minOfOrNull(selector: (Char) -> Float): Float? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each character in the char sequence or `null` if there are no characters.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> CharSequence.minOfOrNull(selector: (Char) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each character in the char sequence.
 * @throws NoSuchElementException if the char sequence is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.experimental.ExperimentalTypeInference
public inline fun <R> CharSequence.minOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function applied to each character in the char sequence or `null` if there are no characters.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun <R> CharSequence.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest character or `null` if there are no characters.
 */
@SinceKotlin("1.4")
public fun CharSequence.minOrNull(): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

@Deprecated("Use minWithOrNull instead.", ReplaceWith("minWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@DeprecatedSinceKotlin(warningSince = "1.4")
@kotlin.experimental.ExperimentalTypeInference
fun CharSequence.minWithOrNull(comparator: Comparator<in Char>): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Performs the given [action] on each character and returns the char sequence afterwards.
 * Performs the given [action] on each character and returns the char sequence afterwards.
 */
@SinceKotlin("1.1")
public inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S {
    return apply { for (element in this) action(element) }
}

/**
 * Performs the given [action] on each character, providing sequential index with the character, and returns the char sequence afterwards.
 */
@param [action] function that takes the index of a character and the character itself and performs the action on
the character.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\nCharSequence.reduceRightOrNull(operation: (acc: Char, Char) -> Char): Char? { \n    var index = lastIndex \n    if (index < 0) \n        throw UnsupportedOperationException("The char sequence is empty.")\n    var accumulator = get(index)\n    while (index >= 0) { \n        accumulator = operation(get(--index), accumulator)\n        index--\n    }\n    return accumulator
}

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\nCharSequence.reduceRight(operation: (Char, Char) -> Char): Char { \n    var index = lastIndexOf(\n        Char(0)\n    )\n    if (index == -1) \n        throw UnsupportedOperationException("The char sequence is empty.")\n    var accumulator = get(index)\n    while (index >= 0) { \n        accumulator = operation(\n            get(index),\n            accumulator\n        )\n        index--\n    }\n    return accumulator
}

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\nCharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? { \n    var index = lastIndex \n    if (index == -1) \n        throw UnsupportedOperationException("The char sequence is empty.")\n    var accumulator = get(index)\n    while (index >= 0) { \n        accumulator = operation(index, \n            get(--index),\n            accumulator\n        )\n        index--\n    }\n    return accumulator
}

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\nCharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char { \n    var index = lastIndex \n    if (index == -1) \n        throw UnsupportedOperationException("The char sequence is empty.")\n    var accumulator = get(index)\n    while (index >= 0) { \n        accumulator = operation(index, \n            get(--index),\n            accumulator\n        )\n        index--\n    }\n    return accumulator
}
next accumulator value.

public inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char

val index = lastIndex
if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")

var accumulator = get(index--)
while (index >= 0) {
    index -= index
    return accumulator
}

accumulator

@SinceKotlin("1.4")
public inline fun CharSequence.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char?{
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun CharSequence.reduceRightIndexedNull(operation: (index: Int, Char) -> Char): Char?{
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
        --index
    }
    return accumulator
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each character and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
public inline fun CharSequence.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(length + 1).apply { add(initial) }
    var accumulator = initial
    for (index in 0 until length) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each character and current accumulator value that starts with the first character of this char sequence.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.runningReduce
 */
@SinceKotlin("1.4")
public inline fun CharSequence.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(length).apply { add(accumulator) }
    for (index in 1 until length) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from right to left
 * to each character and current accumulator value that starts with the index of a character, the character itself and current accumulator value.
 * @param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
public inline fun CharSequence.runningFoldIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(length + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, get(index), accumulator)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each character and current accumulator value that starts with the index of a character, the character itself and current accumulator value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
public inline fun CharSequence.runningFoldIndexedOrNull(operation: (index: Int, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    val result = ArrayList<Char>(length + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(get(index--), this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each character and current accumulator value that starts with the index of a character, the character itself and current accumulator value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
public inline fun CharSequence.runningFoldIndexedNull(operation: (index: Int) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    val result = ArrayList<Char>(length + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, get(index), this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each character and current accumulator value that starts with the index of a character, the character itself and current accumulator value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
public inline fun CharSequence.runningFoldIndexedOrNull(operation: (index: Int, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    val result = ArrayList<Char>(length + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, get(index), this[index])
        result.add(accumulator)
    }
    return result
}
values generated by applying [operation] from left to right\n * to each character, its index in the original char sequence and current accumulator value that starts with the first character of this char sequence.\n * Note that \`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningReduce\n */
@SinceKotlin("1.4")
public inline fun
CharSequence.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(length).apply {
        add(accumulator) }
    for (index in 1 until length) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character and current accumulator value that starts with [initial] value.\n * Note that \`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.scan\n */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <R>
CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character, its index in the original char sequence and current accumulator value that starts with [initial] value.\n * Note that \`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.scanIndexed\n */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <R>
CharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

@Deprecated("Use runningReduce instead.",
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun
CharSequence.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {
    return runningReduce(operation)
}

@Deprecated("Use runningReduceIndexed instead.",
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun
CharSequence.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {
    return runningReduceIndexed(operation)
}

/**
 * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n * @sample samples.collections.Collections.Aggregates.sumBy\n */
public inline fun CharSequence.sumBy(selector: (Char) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n * @sample samples.collections.Collections.Aggregates.sumByDouble\n */
public inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n * @sample samples.collections.Collections.Aggregates.sumOf\n */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun
CharSequence.sumOf(selector: (Char) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n * @sample samples.collections.Collections.Aggregates.sumOfInt\n */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")
@kotlin.internal.InlineOnly
public inline fun
CharSequence.sumOf(selector: (Char) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum
+= selector(element)\n  }\n} return sum\n\n/**\n  * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.
*/
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOf")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Long): Long {
  var sum: Long = 0.toLong()
  for (element in this) {
    sum += selector(element)
  }
  return sum
}

/**
  * Returns the sum of all values produced by
  * [selector] function applied to each character in the char sequence.
*/
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun CharSequence.sumOf(selector: (Char) -> UInt): UInt {
  var sum: UInt = 0.toUInt()
  for (element in this) {
    sum += selector(element)
  }
  return sum
}

/**
  * Returns the sum of all values produced by
  * [selector] function applied to each character in the char sequence.
*/
@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun CharSequence.sumOf(selector: (Char) -> ULong): ULong {
  var sum: ULong = 0.toULong()
  for (element in this) {
    sum += selector(element)
  }
  return sum
}

/**
  * Splits this char sequence into a list of strings each not exceeding the given [size].\n  * The last string in the resulting list may have less characters than the given [size].\n  * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.\n  */
@SinceKotlin("1.2")
public fun CharSequence.chunked(size: Int): List<String> {
  return windowed(size, size, partialWindows = true)
}

/**
  * Splits this char sequence into several char sequences each not exceeding the given [size] and applies the given [transform] function to an each.\n  * The last char sequence may have less characters than the given [size].\n  * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n  */
@SinceKotlin("1.2")
public fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {
  return windowed(size, size, partialWindows = true, transform = transform)
}

/**
  * Splits this char sequence into a sequence of strings each not exceeding the given [size].\n  * The last string in the resulting sequence may have less characters than the given [size].\n  * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.\n  */
@SinceKotlin("1.2")
public fun CharSequence.chunkedSequence(size: Int): Sequence<String> {
  return windowedSequence(size, size) { it.toString() }
}

/**
  * Splits the original char sequence into pair of char sequences, where *first* char sequence contains characters for which [predicate] yielded `true`, *second* char sequence contains characters for which [predicate] yielded `false`.\n  * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n  */
@SinceKotlin("1.2")
public fun CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {
  return windowedSequence(size, size, partialWindows = true, transform = transform)
}
for (element in this) {
    if (predicate(element)) {
        first.append(element)
    } else {
        second.append(element)
    }
} return Pair(first, second)

/**
 * Splits the original string into pair of strings,\n * where *first* string contains characters for which [predicate] yielded `true`,\n * while *second* string contains characters for which [predicate] yielded `false`.\n * @sample samples.text.Strings.partition\n *\n *\n */
public inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {
    val first = StringBuilder()
    val second = StringBuilder()
    for (element in this) {
        if (predicate(element)) {
            first.append(element)
        } else {
            second.append(element)
        }
    }
    return Pair(first.toString(),
                second.toString())
}

/**
 * Returns a list of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * Several last strings may have less\n * characters than the given [size].\n * Both [size] and [step] must be positive and can be greater than the number of\n * elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on each step, by default 1\n *\n *\n */
@SinceKotlin("1.2")
public fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<R> {
    checkWindowSizeStep(size, step)
    val thisSize = this.length
    val resultCapacity = thisSize / step
    + if (thisSize % step == 0) 0 else 1
    val result = ArrayList<R>(resultCapacity)
    var index = 0
    while (index in 0 until thisSize) {
        val end = index + size
        val coercedEnd = if (partialWindows)
        else end
        result.add(transform(subSequence(index, coercedEnd)))
        index += step
    }
    return result
}

/**
 * Returns a sequence of snapshots of the window of the given\n * [size] sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * Several last strings may have less\n * characters than the given [size].\n * Both [size] and [step] must be positive and can be greater than the number of\n * elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n *\n *\n */
@SinceKotlin("1.2")
public fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> {
    return windowedSequence(size, step, partialWindows) { it.toString() }
}

/**
 * Returns a list of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n *\n *\n */
@SinceKotlin("1.2")
public fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<R> {
    checkWindowSizeStep(size, step)
    val thisSize = this.length
    val resultCapacity = thisSize / step
    + if (thisSize % step == 0) 0 else 1
    val result = ArrayList<R>(resultCapacity)
    var index = 0
    while (index in 0 until thisSize) {
        val end = index + size
        val coercedEnd = if (end < 0) 0 else end
        result.add(transform(subSequence(index, coercedEnd)))
        index += step
    }
    return result
}

/**
 * Returns a sequence of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n *\n *\n */
@SinceKotlin("1.2")
public fun(CharSequence)\n
whether or not to keep partial windows in the end if any.\n * by default 'false' which means partial windows won't be preserved\n * @sample samples.collections.Sequences.Transformations.averageWindows
 *\n */
@SinceKotlin("1.2.1")@public fun <R> CharSequence.windowsizedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {\n    checkWindowSizeStep(size, step)\n    val windows = (if (partialWindows) indices else 0 until length - size + 1) step step\n    return windows.asSequence().map { index ->\n        val end = index + size\n        val coercedEnd = if (end < 0 || end > length) length else end\n        transform(subSequence(index, coercedEnd))\n    }\n}

/**
 * Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index\n * The returned list has length of the shortest char sequence.\n *\n * @sample samples.text.Strings.zip\n */
@SinceKotlin("1.2.1")@public fun <V> CharSequence.zip(other: CharSequence, transform: (Char, V) -> V): List<Pair<Char, V>> {\n    return zip(other) { c1, c2 -> transform(c1, c2)\n}
}

/**
 * Returns a list containing the results of applying the given [transform] function to each pair of two adjacent
 * characters in this char sequence.\n *\n * @sample samples.collections.Collections.Transformations.zipWithNext\n */
@SinceKotlin("1.2.1")@public fun CharSequence.zipWithNext(transform: (Char, Char) -> Char): List<Pair<Char, Char>> {\n    return zipWithNext { a, b -> transform(a, b)\n}
}

/**
 * Creates a [Iterable] instance that wraps the original char sequence returning its characters when being iterated.\n */
public fun CharSequence.asIterable(): Iterable<Char> {\n    if (this is String && isEmpty()) return emptyList()\n    return Iterable { this.iterator()\n}
}

/**
 * Creates a [Sequence] instance that wraps the original char sequence returning its characters when being iterated.\n */
public fun CharSequence.asSequence(): Sequence<Char> {\n    if (this is String && isEmpty()) return emptySequence()\n    return Sequence { this.iterator()\n}

/*
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@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

package kotlin.text

import kotlin.contracts.contract

/**
 * Returns a sub sequence of this char sequence having leading and trailing characters matching the [predicate] removed.\n */
public fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {\n    var startIndex = 0\n    var endIndex = length - 1\n    var startFound = false\n    while (startIndex <= endIndex) {\n        val index = if (!startFound) startIndex else endIndex\n        val match = predicate(this[index])\n        if (!startFound) {\n            if (!match) {\n                startIndex += 1\n                startFound = true\n            }\n        } else {\n            if (!match) {\n                break\n            }\n        }\n    }\n    return this.substring(startIndex, endIndex + 1)\n}

/**
 * Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed.\n */
public fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence {\n    return this.substring(0, \n    if (this is String && isEmpty()) return emptyString()\n    return String { this.iterator()\n}

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*\n *\n */

@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n
package kotlin.text

import kotlin.contracts.contract

/**
 * Returns a sub sequence of this char sequence having leading and trailing characters matching the [predicate] removed.\n */
public fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {\n    var startIndex = 0\n    var endIndex = length - 1\n    var startFound = false\n    while (startIndex <= endIndex) {\n        val index = if (!startFound) startIndex else endIndex\n        val match = predicate(this[index])\n        if (!startFound) {\n            if (!match) {\n                startIndex += 1\n                startFound = true\n            }\n        } else {\n            if (!match) {\n                break\n            }\n        }\n    }\n    return this.substring(startIndex, endIndex + 1)\n}

/**
 * Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed.\n */
public fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence {\n    return this.substring(0, \n    if (this is String && isEmpty()) return emptyString()\n    return String { this.iterator()\n
*/

*/

*/
CharSequence).trimStart(predicate).toString()

/**
 * Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed.
 */
@Paginator inline fun String.trimEnd(predicate: (Char) -> Boolean): CharSequence {
    for (index in this.indices.reversed())
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
}

/**
 * Returns a string having trailing and trailing characters from the [chars] array removed.
 */
@Paginator fun String.trimEnd(vararg chars: Char): String = 
    (this as CharSequence).trimEnd(vararg chars: Char).toString()

/**
 * Returns a sub sequence of this char sequence having leading and trailing whitespace removed.
 */
public fun String.trim(): String = this.toString().trim().toString()

/**
 * Pads the string to the specified [length] at the beginning with the specified character or space.
 * @param length the desired string length.
 * @param padChar the character to pad string with, if it has length less than the [length] specified.
 * Space is used by default.
 * @return Returns a string of length at least [length] consisting of ‘this’ char sequence prepended with [padChar] as many times as are necessary to reach that length.
 * @sample samples.text.Strings.padStart
 */
public fun String.padStart(length: Int, padChar: Char = ' '): String = 
    if (length < 0)
        throw IllegalArgumentException("Desired length $length is less than zero.")
    var sb = StringBuilder(length)
    var times = 0
    while (times < length - this.length)
        sb.append(padChar)
    sb.append(this)
    return sb.toString()
StringBuilder(length) sb.append(this) for (i in 1..(length - this.length)) return sb
        return sb
    
    * Pads the string to the specified [length] at the end with the specified character or space.
    
    @param length the desired string length.
    * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.
    * @return Returns a string of length at least [length] consisting of this string appended with [padChar] as many times as are necessary to reach that length.
    
    @sample samples.text.Strings.padEnd
    */
pubString public fun String.padEnd(length: Int, padChar: Char): String =
        (this as CharSequence).padEnd(length, padChar).toString()

    /**
     * Pads the string to the specified [length] at the end with the specified character or space.
     *
     *
     * @param length the desired string length.
     * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.
     * @sample samples.text.Strings.padEnd
     */
    @kotlin.internal.InlineOnly
    public inline fun CharSequence?.isNullOrEmpty(): Boolean {
        contract {
            returns(false) implies (this@isNullOrEmpty != null)
        }

        return this == null || this.length == 0
    }

    /**
     * Returns true if this CharSequence is empty (contains no characters).
     * @sample samples.text.Strings.stringIsNullOrEmpty
     */
    @kotlin.internal.InlineOnly
    public inline fun CharSequence.isEmpty(): Boolean = length == 0

    /**
     * Returns true if this CharSequence is not empty.
     * @sample samples.text.Strings.stringIsNotEmpty
     */
    @kotlin.internal.InlineOnly
    public inline fun CharSequence.isNotEmpty(): Boolean = length > 0

    // implemented differently in JVM and JS
    //public fun String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }

    /**
     * Returns true if this CharSequence is not empty and contains some characters except of whitespace characters.
     * @sample samples.text.Strings.stringIsNotBlank
     */
    @kotlin.internal.InlineOnly
    public inline fun CharSequence.isNotBlank(): Boolean = !isBlank()

    /**
     * Returns true if this nullable CharSequence is either null or empty or consists solely of whitespace characters,
     * @sample samples.text.Strings.stringIsNullOrBlank
     */
    @kotlin.internal.InlineOnly
    public inline fun CharSequence?.isNullOrBlank(): Boolean {
        contract {
            returns(false) implies (this@isNullOrBlank != null)
        }

        return this == null || this.isBlank()
    }

    /**
     * Iterator for characters of the given char sequence.
     */
    public operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {
        private var index = 0

        public override fun nextChar(): Char = get(index++)

        public override fun hasNext(): Boolean = index < length
    }

    /**
     * Returns the string if it is not null, or the empty string otherwise.
     */
    @kotlin.internal.InlineOnly
    public inline fun String?.orEmpty(): String = this ?: ""

    /**
     * Returns this char sequence if it's not empty
     * or the result of calling [defaultValue] function if the char sequence is empty.
     * @sample samples.text.Strings.stringIfEmpty
     */
    @SinceKotlin("1.3")
    @kotlin.internal.InlineOnly
    public inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =
        if (isEmpty()) defaultValue() else this

    /**
     * Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters,
     * or the result of calling [defaultValue] otherwise.
     * @sample samples.text.Strings.stringIfBlank
     */
    @SinceKotlin("1.3")
    @kotlin.internal.InlineOnly
    public inline fun <C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R =
        if (isBlank()) defaultValue() else this

    /**
     * Returns a substring specified by the given [range] of indices.
     */
    public fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)

    /**
     * Returns a subsequence of this char sequence specified by the given [range] of indices.
     */
    public fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)

    /**
     * Returns a substring specified by the given [range] of indices.
     */
    public fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)

    /**
     * Returns a subsequence of this char sequence specified by the given [range] of indices.
     */
    public fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)

    /**
     * Returns a subsequence of this char sequence specified by the given [range] of indices.
     */
    public fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)

    /**
     * Returns a subsequence of this char sequence specified by the given [range] of indices.
     */
    public fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)

    /**
     * Returns a subsequence of this char sequence specified by the given [range] of indices.
     */
    public fun String.substring(range: IntRange): String = substring.range(startIndex, endIndex)

    // replaced with name changes.
    ReplaceWith("subSequence(startIndex

char sequence having this [delimiter] removed both from the start and end. * Otherwise returns a new char sequence with the same characters. *

*public fun CharSequence.removeSurrounding(delimiter: CharSequence):
CharSequence = removeSurrounding(delimiter, delimiter)\n\n* * Removes the given [delimiter] string from both the start and the end of this string. *

* Otherwise returns this string unchanged. * *public fun String.removeSurrounding(delimiter: CharSequence):
String = removeSurrounding(delimiter, delimiter)\n\n* * Replace part of string before the first occurrence of given delimiter with the [replacement] string. *

* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string. * *public fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this):
String = replaceBefore(delimiter, replacement)\n\n* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string. * *public fun String.replaceBefore(delimiter: String, replacement: String, missingDelimiterValue: String = this):
String = replaceBefore(delimiter, replacement)\n\n* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string. * *public fun String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this):
String = replaceAfterLast(delimiter, replacement)\n\n* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string. * *public fun String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue: String = this):
String = replaceAfter(delimiter, replacement)\n\n* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string. * *public fun String.replaceAfter(delimiter: String, replacement: String, missingDelimiterValue: String = this):
String = replaceAfter(delimiter, replacement)\n\n* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string. * 

*public fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific
*public fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific

* *public inline fun CharSequence.replace(regex: Regex, replacement: String): String
* *public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this):
String = replaceBeforeLast(delimiter, replacement)\n\n* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string. *
sequence that matches the given regular expression\n* with the result of the given function [transform] that takes
[MatchResult] and returns a string to be used as an * replacement for that match.

*/@kotlin.internal.InlineOnly
public inline fun CharSequence.replace(regex: Regex, noinline transform:
    (MatchResult) -> CharSequence): String =
    regex.replace(this, transform)\n*\n* Replaces the first
occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.
\n*\n* @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for
details.\n*\n*\n@kotlin.internal.InlineOnly
public inline fun CharSequence.replaceFirst(regex: Regex, replacement:
    String): String =
    regex.replaceFirst(this, replacement)\n*\n* Returns `true` if this char sequence matches the
given regular expression.\n*\n* @param replacement An infix function that takes
CharSequence
regionMatchesImploffset: Int. other: CharSequence, offset: Int. length: Int,
ignoreCase: Boolean): Boolean =
    regex.matches(this, offset, length, ignoreCase)

/**
 * Replaces the first
occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.
*\n* @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for
details.\n*\n*\n@kotlin.internal.InlineOnly
public inline fun CharSequence.replaceFirst(regex: Regex, replacement:
    String): String =
    regex.replaceFirst(this, replacement)\n*\n* Returns `true` if this char sequence starts with the specified character.\n*\n* @param replacement An infix function
CharSequence
startsWith(char: Char, ignoreCase: Boolean = false): Boolean =
    this[0].equals(char, ignoreCase)

/**
 * Returns `true` if this char sequence ends with the specified suffix.
 */
public fun CharSequence.endsWith(suffix: CharSequence,
    ignoreCase: Boolean = false): Boolean =
    this[lastIndex].equals(suffix[0], ignoreCase)

/**
 * Returns the longest string `prefix` such that this char\nsequence and \[other\] char sequence both start with this prefix,
* taking care not to split surrogate pairs.\n* If this
*\n* @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n*\n* @sample samples.text.Strings.commonPrefixWith

*/@kotlin.internal.InlineOnly
public fun CharSequence.commonPrefixWith(other: CharSequence,
    ignoreCase: Boolean = false): String {
    val shortestLength = minOf(this.length, other.length)
    var i = 0
    while (i < shortestLength &&
    this[i].equals(other[i], ignoreCase)) {
        i++
    } if (this.hasSurrogatePairAt(i - 1) ||
    other.hasSurrogatePairAt(i - 1)) {
        i--
    }
    return subSequence(0, i).toString()
 optionally ignoring the case.

```kotlin
    return nativeLastIndexOf(char, startIndex) } } else {
        for (index in indices) {
            if (other.regionMatches(0, this, index, other.length, ignoreCase))
                return index
        }
    } else {
        startIndex.coerceAtMost(lastIndex)
    }
```

```kotlin
    private fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase:

    if (!ignoreCase && chars.size == 1) {
        val char = chars.single()
        return nativeIndexOf(char, startIndex)
    } else {
        for (index in startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length) ) else
            startIndexOf(CharSequence, startIndex: Int, ignoreCase: Boolean = false): Int {

    return findAnyOf(strings: Collection<String>, startIndex: Int, ignoreCase: Boolean = false): Int {

    if (!ignoreCase && chars.size == 1) {
        val char = chars.single()
        return indexOf(char, startIndex)
    } else {
        for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {
            val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index,
                ignoreCase) }
            if (matchingString != null)
                return index to matchingString
        }
    } else {
        for (index in indices) {
            val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length,
                ignoreCase) }
            if (matchingString != null)
                return index to matchingString
        }
    } else {
        for (index in startIndex.coerceAtLeast(0) downTo lastIndex.coerceAtMost(0))
            return if (index < 0) null else index
    }
```
starting from the specified [startIndex] and optionally ignoring the case.

@suppress(INAPPLICABLE_OPERATOR_MODIFIER)

public

CharArraySequence.indexOfAny(strings: Collection<String>, start: Int = 0, ignoreCase: Boolean = false): Int =

findAnyOf(strings, start, ignoreCase, last = false).first ?: -1

这方面有字符在共同，这种方法从从[startIndex]的最后一个匹配字符在[strings]或-1如果在[strings]中没有找到的情况下，继续查找下一个字符。默认false。

@suppress(INAPPLICABLE_OPERATOR_MODIFIER)

public

CharArraySequence.indexOfAny(strings: Collection<String>, start: Int = 0, ignoreCase: Boolean = false): Int =

findAnyOf(strings, start, ignoreCase, last = false).first ?: -1

这方面有字符在共同，这种方法从从[startIndex]的最后一个匹配字符在[strings]或-1在没有找到。
public fun CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =
rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }

/**
 * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].
 * @param delimiters One or more strings to be used as delimiters.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 * To avoid ambiguous results when strings in [delimiters] have characters in common, this method
 * proceeds from the beginning to the end of this string, and matches at each position the first element in [delimiters]
 * that is equal to a delimiter in this instance at that position.
 * @public fun

CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
    if (delimiters.size == 1) {
        val delimiter = delimiters[0]
        if (!delimiter.isEmpty()) {
            return split(delimiter, ignoreCase, limit)
        }
    }

    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}

/**
 * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].
 * @param delimiters One or more strings to be used as delimiters.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return.
 * @public fun

CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =
    rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }

/**
 * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].
 * This is specialized version of split which receives single non-empty delimiter and offers better performance.
 * @param delimiter String used as delimiter
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return.
 * @private fun

CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {
    require(limit >= 0, {"Limit must be non-negative, but was $limit." })

    var currentOffset = 0
    var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    if (nextIndex == -1 || limit == 1) {
        return listOf(this.toString())
    }

    val isLimited = limit > 0
    val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)
    do {
        result.add(substring(currentOffset, nextIndex))
        currentOffset = nextIndex + delimiter.length
        // Do not search for next occurrence if we're reaching limit
        if (isLimited && result.size == limit - 1) break
        nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    } while (nextIndex != -1)

    result.add(substring(currentOffset, length))
    return result
}

/**
 * Splits this char sequence around matches of the given regular expression.
 * @param regex The regular expression to use for splitting the sequence.
 * @param limit Non-negative value specifying the maximum number of substrings to return.
 * @since 1.2
 * @deprecated Use

CharSequence.split(regex: Regex, limit: Int = 0): List<String> =
regex.split(this, limit).map { it }.toList()

/**
 * Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.
 * The lines returned do not include terminating line separators.
 * @public fun

CharSequence.lineSequence(): Sequence<String> = splitToSequence("\r\n", "\n", "\r")

/**
 * Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.
 * The lines returned do not include terminating line separators.
 * @since 1.2
 * @deprecated Use

CharSequence.lines(): List<String> = lineSequence().toList()
CharArray.concatToString() instead
"chars.concatToString()"
public actual fun String(chars: CharArray): String {
    var result = ""
    for (char in chars) {
        result += char
    }
    return result
}

/**
 * Converts the characters from a portion of the specified array to a string.
 * @param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.
 * @param endIndex the end (exclusive) of the subrange of characters, size of this array by default.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    return CharArray(endIndex - startIndex) { get(startIndex + it) }
}

/**
 * Returns a CharArray containing characters of this string.
 * @param startIndex the beginning (inclusive) of the substring, 0 by default.
 * @param endIndex the end (exclusive) of the substring, length of this string by default.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, size)
    return CharArray(endIndex - startIndex) { get(startIndex + it) }
}

/**
 * Returns a ByteArray containing characters of this string or its substring.
 * @param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.
 * @param endIndex the end (exclusive) of the subrange of characters, size of this array by default.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this array.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteArray.decodeToString(): String {
    return decodeUtf8(this, 0, size, false)
}

/**
 * Decodes a string from the bytes in UTF-8 encoding in this array or its subrange.
 * @param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to decode, size of this array by default.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this array.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteArray.decodeToString(startIndex: Int = 0, endIndex: Int = this.size) {
    throwOnInvalidSequence: Boolean = false
    return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)
}

/**
 * Encodes this string to an array of bytes in UTF-8 encoding.
 * @param encoding the encoding to use for encoding.
 * @param throwOnInvalidSequence specifies whether to throw an exception on malformed byte sequence or replace it by the replacement char '\uFFFD'.
 * @throws IllegalArgumentException if [encoding] is not a valid encoding.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public actual fun String.encodeToByteArray(encoding: String = UTF8, throwOnInvalidSequence: Boolean = false): ByteArray {
    throwOnInvalidSequence: Boolean = false
    return encodeToUtf8(this, encoding, throwOnInvalidSequence)
}

/**
 * Encodes this string to an array of bytes in UTF-8 encoding.
 * @param startIndex the beginning (inclusive) of the subrange to encode, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to encode, size of this string by default.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.encodeToByteArray(startIndex: Int = 0, endIndex: Int = this.length) {
    throwOnInvalidSequence: Boolean = false
    return encodeToUtf8(this, startIndex, endIndex, throwOnInvalidSequence)
}
public actual fun String.encodeToByteArray(): ByteArray {
    return encodeUtf8(this, 0, length, false)
}

/**
 * Encodes this string or its substring to an array of bytes in UTF-8 encoding.
 * @param startIndex the beginning (inclusive) of the substring to encode, 0 by default.
 * @param endIndex the end (exclusive) of the substring to encode, length of this string by default.
 * @param throwOnInvalidSequence specifies whether to throw an exception on malformed char sequence or replace.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 * @throws CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.
 */
public actual fun String.encodeToByteArray(
    startIndex: Int = 0,
    endIndex: Int = this.length,
    throwOnInvalidSequence: Boolean = false
): ByteArray {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)
}

/**
 * Returns a copy of this string converted to upper case using the rules of the default locale.
 * @param sample samples.text.Strings.toUpperCase
 */
public actual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()

/**
 * Returns a copy of this string converted to lower case using the rules of the default locale.
 * @param sample samples.text.Strings.toLowerCase
 */
public actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()

internal actual inline fun String.nativeIndexOf(str: String, position: Int): Int = asDynamic().indexOf(str, position)

internal actual inline fun String.nativeLastIndexOf(str: String, position: Int): Int = asDynamic().lastIndexOf(str, position)

internal inline fun String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s, position)

internal inline fun String.nativeEndsWith(s: String): Boolean = asDynamic().endsWith(s)

actual inline fun String.substring(startIndex: Int): String = asDynamic().substring(startIndex)

actual inline fun String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex, endIndex)

public inline fun String.concat(str: String): String = asDynamic().concat(str)

public inline fun String.match(regex: String): Array<String>? = asDynamic().match(regex)

//native public fun String.trim(): String
//TODO: String.replace to implement effective trimLeading and trimTrailing

internal inline fun String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern, replacement)

private val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UByteArray
@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@Published
internal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {  

    /**
     * Creates a new array of the specified [size], with all elements initialized to zero.
     */
    public constructor(size: Int) : this(ByteArray(size)) { /*
     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS
     * where the behavior is unspecified.
     */
    }

    /**
     * Returns the array element at the given [index]. This method can be called
     * using the index operator.
     */
    *public constructor(size: Int) : this(ByteArray(size)) {
    /**
     * Creates an iterator over the elements of the array.
     */
    private class Iterator(private val array: ByteArray) : UByteIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextUByte() = if (index < array.size) array[index++].toUByte() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: UByte): Boolean { /*
     * Copyright 2010-2020 JetBrains s.r.o. and
     * Kotlin Programming Language contributors.
     */
    return false && storage.contains(element.toByte())
}

    override fun containsAll(elements: Collection<UByte>): Boolean { /*
     * Copyright 2010-2020 JetBrains s.r.o. and
     * Kotlin Programming Language contributors.
     */
    return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }
}

    override fun isEmpty(): Boolean = this.storage.size == 0
}

/**
 * Creates a new array of the specified [size], with all elements initialized to zero.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {
    return UByteArray(ByteArray(size) { index -> init(index).toByte() })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun ubyteArrayOf(vararg elements: UByte): UByteArray = elements

// Auto-generated file. DO NOT EDIT!

package kotlin

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UIntArray
@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@PublishedApi
internal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> { /*
 * Creates a new array of the specified [size], with all elements initialized to zero.
 */
    private class Iterator(private val array: IntArray) : UIntIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextUInt() = if (index < array.size) array[index++].toUInt() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: UInt): Boolean { /*
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     * Kotlin Programming Language contributors.
     */
    return false && storage.contains(element.toInt())
}

    override fun containsAll(elements: Collection<UInt>): Boolean { /*
     * Copyright 2010-2020 JetBrains s.r.o. and
     * Kotlin Programming Language contributors.
     */
    return (elements as Collection<*>).all { it is UInt && storage.contains(it.toInt()) }
}

    override fun isEmpty(): Boolean = this.storage.size == 0
}
fun contains(element: UInt): Boolean {
    return (elements as Collection<*>).all { it is UInt &&
        storage.containsKey(it.toInt()) }
}

override fun isEmpty(): Boolean = this.storage.size == 0

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * function. * The function [init] is called for each array element sequentially starting from the first one. * It
 * should return the value for an array element given its index.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
 UIntArray(size: Int, init: (Int) -> UInt): UIntArray {
    return UIntArray(IntArray(size) { index ->
        init(index).toInt() })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
 uintArrayOf(vararg elements: UInt): UIntArray = elements

/**
 * Indicates the current state of the object.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
 isAny(): Boolean {
    return true
}

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * function. * The function [init] is called for each array element sequentially starting from the first one. * It
 * should return the value for an array element given its index.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
 UIntArray(size: Int, init: (Int) -> UInt): UIntArray {
    return UIntArray(IntArray(size) { index ->
        init(index).toInt() })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
 uintArrayOf(vararg elements: UInt): UIntArray = elements

/**
 * Indicates the current state of the object.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
 isAny(): Boolean {
    return true
}

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * function. * The function [init] is called for each array element sequentially starting from the first one. * It
 * should return the value for an array element given its index.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
 UIntArray(size: Int, init: (Int) -> UInt): UIntArray {
    return UIntArray(IntArray(size) { index ->
        init(index).toInt() })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
 uintArrayOf(vararg elements: UInt): UIntArray = elements

/**
 * Indicates the current state of the object.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
 isAny(): Boolean {
    return true
}
using the index operator.

*\n  * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS

  * where the behavior is unspecified.

*\n  * public

  * operator fun get(index: Int): UShort = storage[index].toUShort()/**\n
  * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.

  * *\n  * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS

  * where the behavior is unspecified.

*\n  * public operator fun set(index: Int, value: UShort) {

  * storage[index] = value.toShort()

  */

  /**

  * Returns the number of elements in the array. *\n
  */

  public override val size: Int get() = storage.size


/** Creates an iterator over the elements of the array. *\n
  * UShortIterator = Iterator(storage)\n
  * private class Iterator(private val storage: UShortArray) : UShortIterator() {

  * private var index = 0

  * override fun hasNext() = index < storage.size

  * override fun nextUShort() = if (index < storage.size) storage[index++].toUShort() else throw NoSuchElementException(index.toString())

  */

  override fun contains(element: UShort): Boolean {

    // TODO: Eliminate this check after KT-30016 gets fixed.

    // Currently JS BE does not generate special bridge method for this method.\n
    if ((element as Any?) !is UShort)

      return false

    return storage.contains(element.toShort())

  }


/**

  * Creates a new array of the specified [size], where each element is calculated by calling the specified

  * [init] function. *\n
  * The function [init] is called for each array element sequentially starting from the first one. *\n
  */

  @SinceKotlin("1.3")

  @ExperimentalUnsignedTypes

  @kotlin.internal.InlineOnly

  public inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {

    return UShortArray(ShortArray(size) { index ->

      init(index).toShort()

    })

  }

  @SinceKotlin("1.3")

  @ExperimentalUnsignedTypes

  @kotlin.internal.InlineOnly

  public inline fun ushortArrayOf(vararg elements: UShort): UShortArray = elements

/*
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 * and Kotlin Programming Language contributors.
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 * that can be found in the license/LICENSE.txt file.

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UArraysKt")
@file:kotlin.jvm.JvmPackageName("kotlin.collections.unsigned")

package kotlin.collections

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**

  * Returns 1st *element* from the array.

  * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS

  */

  @SinceKotlin("1.3")

  @ExperimentalUnsignedTypes

  @kotlin.internal.InlineOnly

  public inline operator fun UIntArray.component1(): UInt {

    return get(0)

  }


/**

  * Returns 1st *element* from the array.

  * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS

  */

  @SinceKotlin("1.3")

  @ExperimentalUnsignedTypes

  @kotlin.internal.InlineOnly

  public inline operator fun ULongArray.component1(): ULong {

    return get(0)

  }


/**

  * Returns 1st *element* from the array.

  * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS

  */

  @SinceKotlin("1.3")

  @ExperimentalUnsignedTypes

  @kotlin.internal.InlineOnly

  public inline operator fun UByteArray.component1(): UByte {

    return get(0)

  }


/**

  * Returns 2nd *element* from the array.

  * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS

  */

  @SinceKotlin("1.3")

  @ExperimentalUnsignedTypes

  @kotlin.internal.InlineOnly

  public inline operator fun UShortArray.component1(): UShort {

    return get(0)

  }
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.component2(): UInt {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.component2(): ULong {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.component2(): UByte {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.component2(): UShort {
    return get(1)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.component3(): UInt {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.component3(): ULong {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.component3(): UByte {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.component3(): UShort {
    return get(2)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.component4(): UInt {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.component4(): ULong {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.component4(): UByte {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.component4(): UShort {
    return get(3)
}
**UIntArray.component5(): UInt {\n    return get(4)\n}\n* Returns 5th *element* from the array.\n* *\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*/

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline operator fun ULongArray.component5(): ULong {\n    return get(4)\n}\n* Returns 5th *element* from the array.\n* *\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*/

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline operator fun UByteArray.component5(): UByte {\n    return get(4)\n}\n* Returns 5th *element* from the array.\n* *\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*/

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline operator fun UShortArray.component5(): UShort {\n    return get(4)\n}\n* Returns 5th *element* from the array.\n* *\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*/

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int): UInt

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int): ULong

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int): UByte

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int): UShort

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline fun UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline fun ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline fun UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline fun UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline fun UShortArray.elementAtOrNull(index: Int): UShort = null
`UIntArray.elementAtOrNull(index: Int): UInt?` — Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.

```kotlin
/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrNull
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.elementAtOrNull(index: Int): ULong? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrNull
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.elementAtOrNull(index: Int): UByte? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrNull
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.elementAtOrNull(index: Int): UShort? {
    return this.getOrNull(index)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * 
 * @sample samples.collections.Collections.Elements.find
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.find(predicate: (UInt) -> Boolean): UInt? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * 
 * @sample samples.collections.Collections.Elements.find
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.find(predicate: (ULong) -> Boolean): ULong? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * 
 * @sample samples.collections.Collections.Elements.find
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.find(predicate: (UByte) -> Boolean): UByte? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * 
 * @sample samples.collections.Collections.Elements.find
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.find(predicate: (UShort) -> Boolean): UShort? {
    return firstOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 * 
 * @sample samples.collections.Collections.Elements.find
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 * 
 * @sample samples.collections.Collections.Elements.find
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 * 
 * @sample samples.collections.Collections.Elements.find
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 * 
 * @sample samples.collections.Collections.Elements.find
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {
    return lastOrNull(predicate)
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.first(): UInt {
    return storage.first().toUInt()
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.first(): ULong {
    return storage.first().toUInt()
}

```
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.first(): ULong {
    return storage.first().toULong()
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.first(): UByte {
    return storage.first().toUByte()
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.first(): UShort {
    return storage.first().toUShort()
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.first(predicate: (UInt) -> Boolean): UInt {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {
    for (element in this) if (predicate(element)) return element
    return null
}

/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {
    for (element in this) if (predicate(element)) return element
    return null
}

/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
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*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n} \n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n} \n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n} \n
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*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic fun ULongArray.getOrNull(index: Int): ULong? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n} \n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic fun UByteArray.getOrNull(index: Int): UByte? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n} \n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic fun UShortArray.getOrNull(index: Int): UShort? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n} \n
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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n    return null\n} \n
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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n} \n
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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic fun UShortArray.getOrNull(index: Int): UShort? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n} \n
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic fun UIntArray.indexOf(element: UInt): Int {\n    return storage.indexOf(element.toInt())\n} \n
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic fun ULongArray.indexOf(element: ULong): Int {\n    return storage.indexOf(element.toLong())\n} \n
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic fun UByteArray.indexOf(element: UByte): Int {\n    return storage.indexOf(element.toByte())\n} \n
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic fun UShortArray.indexOf(element: UShort): Int {\n    return storage.indexOf(element.toShort())\n} \n

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*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUInt()) }\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toULong()) }\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUByte()) }\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUShort()) }\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toUInt()) }\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toULong()) }\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toUByte()) }\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toUShort()) }\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(): UInt {
    return storage.last().toUInt()\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(): ULong {
    return storage.last().toULong()\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(): UByte {
    return storage.last().toUByte()\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(): UShort {
    return storage.last().toUShort()\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(predicate: (UInt) -> Boolean): UInt {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the given predicate.")\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(predicate: (ULong) -> Boolean): ULong {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the given predicate.")\n}\n
*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(predicate: (UByte) -> Boolean): UByte {
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    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the given predicate.")\n}\n
val Array Contains no element matching the given predicate.

element = this[index]
    if (predicate(element)) return element

throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 * @sinceKotlin("1.3")
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 * @kotlin.internal.InlineOnly
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    if (predicate(element)) return element

throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 * @sinceKotlin("1.3")
 * @experimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * @public inline fun UIntArray.lastIndexOf(element: UInt): Int { storage.lastIndexOf(element.toInt())

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 * @sinceKotlin("1.3")
 * @experimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * @public inline fun ULongArray.lastIndexOf(element: ULong): Int { storage.lastIndexOf(element.toLong())

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 * Returns last index of [element], or -1 if the array does not contain element.
 * @sinceKotlin("1.3")
 * @experimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * @public inline fun UShortArray.lastIndexOf(element: UShort): Int { storage.lastIndexOf(element.toShort())

/**
 * Returns the last element, or `null` if the array is empty.
 * @sinceKotlin("1.3")
 * @experimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * @public fun UIntArray.lastOrNull(): UInt? { if (isEmpty()) null else this[size - 1]

/**
 * Returns the last element, or `null` if the array is empty.
 * @sinceKotlin("1.3")
 * @experimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * @public fun ULongArray.lastOrNull(): ULong? { if (isEmpty()) null else this[size - 1]

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 * @kotlin.internal.InlineOnly
 * @public fun UShortArray.lastOrNull(): UShort? { if (isEmpty()) null else this[size - 1]
val element = this[index] when (predicate(element)) return element

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.random(): UInt {
    return randomRandom(Random().nextInt(size))
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
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public inline fun UIntArray.randomOrNull(): UInt? {
    if (isEmpty())
        return null
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public inline fun UByteArray.random(): UByte {
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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.random(): UShort {
    if (isEmpty())
        return null
    else
        return randomRandom(Random().nextInt(size))
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.randomOrNull(): UShort? {
    if (isEmpty())
        return null
    else
        return randomRandom(Random().nextInt(size))
}
get(random.nextInt(size))\n\n// Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
public fun UByteArray.randomOrNull(random: Random): UByte? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
public fun UShortArray.randomOrNull(random: Random): UShort? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.single(): UByte {
    return storage.single().toUByte()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.single(): UShort {
    return storage.single().toUShort()
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.single(predicate: (UInt) -> Boolean): UInt {
    var single: UInt? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as UInt
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {
    var single: ULong? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as ULong
}

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 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
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@SinceKotlin("1.3")
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            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as UInt
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
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public fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {
    var single: ULong? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as ULong
}
@Suppress("UNCHECKED_CAST")
return single as UShort
}

/**
 * Returns single element, or `null` if
 * the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.singleOrNull(): UInt? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if
 * the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.singleOrNull(): ULong? {
    return if (size == 1) this[0] else null
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 * Returns single element, or `null` if
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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.singleOrNull(): UByte? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if
 * the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.singleOrNull(): UShort? {
    return if (size == 1) this[0] else null
}

/**
 * Returns the single
 * element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {
    var single: UInt? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

/**
 * Returns the single element
 * matching the given [predicate], or `null` if element was not found or more than one element was found.
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@SinceKotlin("1.3")
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    for (element in this) {
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            if (found) return null
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@SinceKotlin("1.3")
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public inline fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {
    var single: UByte? = null
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            if (found) return null
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    }
    if (!found) return null
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}

/**
 * Returns the single element
 * matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {
    var single: UShort? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

/**
 * Returns a list
 * containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.drop(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.drop(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.drop(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.drop(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.drop(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws
 * IllegalArgumentException if [n] is negative.
 * 
 * @sample
 * samples.collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.dropLast(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws
 * IllegalArgumentException if [n] is negative.
 * 
 * @sample
 * samples.collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.dropLast(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws
 * IllegalArgumentException if [n] is negative.
 * 
 * @sample
 * samples.collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.dropLast(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last elements that satisfy the given
 * [predicate].
 * 
 * @sample
 * samples.collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given
 * [predicate].
 * 
 * @sample
 * samples.collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given
 * [predicate].
 * 
 * @sample
 * samples.collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except first elements that satisfy the given
 * [predicate].
 * 
 * @sample
 * samples.collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {
    var yielding = false
    val list = ArrayList<UInt>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given
 * [predicate].
 * 
 * @sample
 * samples.collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {
    var yielding = false
    val list = ArrayList<ULong>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given
 * [predicate].
 * 
 * @sample
 * samples.collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {
    var yielding = false
    val list = ArrayList<UByte>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given
 * [predicate].
 * 
 * @sample
 * samples.collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {
    var yielding = false
    val list = ArrayList<UShort>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}
elements except first elements that satisfy the given [predicate].

@sample samples.collections.Transformations.drop

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {
    var yielding = false
    val list = ArrayList<ULong>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {
    var yielding = false
    val list = ArrayList<UByte>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {
    var yielding = false
    val list = ArrayList<UShort>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {
    return filterTo(ArrayList<UInt>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {
    return filterTo(ArrayList<ULong>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {
    return filterTo(ArrayList<UByte>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {
    return filterTo(ArrayList<UShort>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexed
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {
    return filterIndexedTo(ArrayList<UInt>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexed
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {
    return filterIndexedTo(ArrayList<ULong>(), predicate)
}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun 
UByteArray.filterIndexed(predicate: (Int, UByte) -> Boolean): List<UByte> {
    return
    filterIndexedTo(ArrayList<UByte>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @return a list containing only elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun 
USHortArray.filterIndexed(predicate: (Int, UShort) -> Boolean): List<USHort> {
    return
    filterIndexedTo(ArrayList<USHort>(), predicate)
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @return a list containing only elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (Int, UInt) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @return a list containing only elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (Int, ULong) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @return a list containing only elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (Int, UByte) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @return a list containing all elements not matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun 
UByteArray.filterNot(predicate: (Int, UByte) -> Boolean): List<UByte> {
    return
    filterNotTo(ArrayList<UByte>(), predicate)
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @return a list containing all elements not matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun 
USHortArray.filterNot(predicate: (Int, UShort) -> Boolean): List<USHort> {
    return
    filterNotTo(ArrayList<USHort>(), predicate)
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @return a list containing all elements not matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (Int, UInt) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @return a list containing all elements not matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (Int, ULong) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @return a list containing all elements not matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (Int, UByte) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @return a list containing all elements not matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (Int, UShort) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
samples.collections.Collections.Filtering.filter

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {
    return filterNotTo(ArrayList<UShort>(), predicate)\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun <C : MutableCollection\<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun <C : MutableCollection\<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun <C : MutableCollection\<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun <C : MutableCollection\<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UIntArray.slice(indices: IntRange): List<UInt> {
    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UByteArray.slice(indices: IntRange): List<UByte> {
    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UShortArray.slice(indices: IntRange): List<UShort> {
    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}

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    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UIntArray.slice(indices: IntRange): List<UInt> {
    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UByteArray.slice(indices: IntRange): List<UByte> {
    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UShortArray.slice(indices: IntRange): List<UShort> {
    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UIntArray.slice(indices: IntRange): List<UInt> {
    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UByteArray.slice(indices: IntRange): List<UByte> {
    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UShortArray.slice(indices: IntRange): List<UShort> {
    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\\public inline fun(UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}
List<ULONG> { if (indices.isEmpty()) return listOf()/n return copyOfRange(indices.start, indices.endInclusive + 1).asList()/n

// Returns a list containing elements at indices in the specified [indices] range.
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun UByteArray.slice(indices: IntRange): List<UBYTE> { if (indices.isEmpty()) return listOf()/n return copyOfRange(indices.start, indices.endInclusive + 1).asList()/n

// Returns a list containing elements at indices in the specified [indices] range.
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun UShortArray.slice(indices: IntRange): List<USHORT> { if (indices.isEmpty()) return listOf()/n return copyOfRange(indices.start, indices.endInclusive + 1).asList()/n

// Returns a list containing elements at specified [indices].
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun UIntArray.slice(indices: Collection<Int>): List<UINT> { val size = indices.collectionSizeOrDefault(10)/n

// Returns a list containing elements at specified [indices].
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun ULongArray.slice(indices: Collection<Int>): List<ULONGLONG> { val size = indices.collectionSizeOrDefault(10)/n

// Returns a list containing elements at specified [indices].
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun UByteArray.slice(indices: Collection<Int>): List<UCHAR> { val size = indices.collectionSizeOrDefault(10)/n

// Returns an array containing elements at specified [indices].
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun UByteArray.sliceArray(indices: IntRange): UByteArray {

// Returns an array containing elements at specified [indices].
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun UShortArray.sliceArray(indices: IntRange): UShortArray {

// Returns an array containing elements at specified [indices].
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun UIntArray.sliceArray(indices: IntRange): UIntArray {

// Returns an array containing elements at specified [indices].
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun ULongArray.sliceArray(indices: IntRange): ULongArray {

// Returns a list containing first [n] elements.
*\@throws IllegalArgumentException if [n] is negative.

// ...
fun UIntArray.take(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UInt>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

fun ULongArray.take(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<ULong>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

fun UByteArray.take(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UByte>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

fun UShortArray.take(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UShort>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

fun UIntArray.takeLast(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<UInt>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

fun ULongArray.takeLast(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<ULong>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

fun UByteArray.takeLast(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<UByte>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

fun UShortArray.takeLast(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<UShort>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
samples.collections.Collections.Transformations.takeLast

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}
```

```kotlin
/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.reverse(): Unit {
    storage.reverse()
}
```
range in-place.

* @param fromIndex the start of the range (inclusive) to reverse.
* @param toIndex the end of the range (exclusive) to reverse.
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    storage.reverse(fromIndex, toIndex)
}

/**
 * Reverses elements of the array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    storage.reverse(fromIndex, toIndex)
}

/**
 * Reverses elements of the array in the specified range in-place.
 * @param fromIndex the start of the range
 * (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    storage.reverse(fromIndex, toIndex)
}

/**
 * Reverses elements of the array in the specified range in-place.
 * @param fromIndex the start of the range
 * (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    storage.reverse(fromIndex, toIndex)
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.reversed(): List<UInt> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.reversed(): List<ULong> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.reversed(): List<UByte> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.reversed(): List<UShort> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reversedArray(): UIntArray {
    return UIntArray(storage.reversedArray())
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reversedArray(): ULongArray {
    return ULongArray(storage.reversedArray())
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reversedArray(): UByteArray {
    return UByteArray(storage.reversedArray())
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.reversedArray(): UShortArray {
    return UShortArray(storage.reversedArray())
}

/**
 * Randomly shuffles elements in this array in-place.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UIntArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Randomly shuffles elements in this array in-place.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun ULongArray.shuffle(): ULongArray {
    shuffle(Random)
}

/**
 * Randomly shuffles elements in this array in-place.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UByteArray.shuffle(): UByteArray {
    shuffle(Random)
}

/**
 * Randomly shuffles elements in this array in-place.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray.shuffle(): UShortArray {
    shuffle(Random)
}
fun ULongArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Randomly shuffles elements in this array in-place using the specified [random]
 * instance as the source of randomness.
 */
fun UByteArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Randomly shuffles elements in this array in-place using the specified [random]
 * instance as the source of randomness.
 */
fun UShortArray.shuffle(): Unit {
    shuffle(Random)
}

/**
 * Randomly shuffles elements in this array in-place using the specified [random]
 * instance as the source of randomness.
 */
fun UIntArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

/**
 * Randomly shuffles elements in this array in-place using the specified [random]
 * instance as the source of randomness.
 */
fun ULongArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

/**
 * Randomly shuffles elements in this array in-place using the specified [random]
 * instance as the source of randomness.
 */
fun UByteArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

/**
 * Randomly shuffles elements in this array in-place using the specified [random]
 * instance as the source of randomness.
 */
fun UShortArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
fun UIntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
fun ULongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
fun UByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
fun UShortArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
fun UIntArray.sorted(): List<UInt> {
    return copyOf().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
fun ULongArray.sorted(): List<ULong> {
    return copyOf().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
fun UByteArray.sorted(): List<UByte> {
    return copyOf().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
fun UShortArray.sorted(): List<UShort> {
    return copyOf().apply { sort() }.asList()
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
fun UIntArray.sortedArray(): UIntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
fun ULongArray.sortedArray(): ULongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
fun UByteArray.sortedArray(): UByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
fun UShortArray.sortedArray(): UShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}
this array sorted according to their natural sort order:

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortedArray(): ULongArray
    { if (isEmpty()) return this
    return this.copyOf().apply { sort() } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortedArray(): UByteArray
    { if (isEmpty()) return this
    return this.copyOf().apply { sort() } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortedArray(): UShortArray
    { if (isEmpty()) return this
    return this.copyOf().apply { sort() } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortedArrayDescending(): UIntArray
    { if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortedArrayDescending(): ULongArray
    { if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortedArrayDescending(): UByteArray
    { if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortedArrayDescending(): UShortArray
    { if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortedDescending(): List<UInt>
    { return copyOf().apply { sort() }.reversed() }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortedDescending(): List<ULong>
    { return copyOf().apply { sort() }.reversed() }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortedDescending(): List<UByte>
    { return copyOf().apply { sort() }.reversed() }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortedDescending(): List<UShort>
    { return copyOf().apply { sort() }.reversed() }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray
    { return storage }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray
    { return storage }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray
    { return storage }

@SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray
    { return storage }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray
    { return storage }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray
    { return storage }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray
    { return storage }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray
    { return storage }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray
    { return storage }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray
    { return storage }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray
    { return storage }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray
    { return storage }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray
    { return storage }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray
    { return storage }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray
    { return storage }
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray
    { return storage }
```
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>

/**
 * Returns an array of type [LongArray], which is a view of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.asList(): LongArray {
    return storage
}

/**
 * Returns an array of type [UByteArray], which is a view of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asUByteArray(): UByteArray {
    return UByteArray(this)
}

/**
 * Returns an array of type [UIntArray], which is a view of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asUIntArray(): UIntArray {
    return UIntArray(this)
}

/**
 * Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.asULongArray(): ULongArray {
    return ULongArray(this)
}

/**
 * Returns an array of type [UShortArray], which is a view of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.asUShortArray(): UShortArray {
    return UShortArray(this)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another, \n * i.e. contain the same number of the same elements in the same order.
 * Use Kotlin compiler 1.4 to avoid deprecation warning.
 */
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
@ExperimentalUnsignedTypes
@public infix fun UIntArray.contentEquals(other: UIntArray): Boolean {
    return this.contentEquals(other)\

@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
@ExperimentalUnsignedTypes
@public infix fun UByteArray.contentEquals(other: UByteArray): Boolean {
    return this.contentEquals(other)\

@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
@ExperimentalUnsignedTypes
@public infix fun UShortArray.contentEquals(other: UShortArray): Boolean {
    return this.contentEquals(other)\

@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
@ ExperimentalUnsignedTypes
@public infix fun ULongArray.contentEquals(other: ULongArray): Boolean {
    return this.contentEquals(other)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun IntArray.contentEquals(other: IntArray): Boolean {
    return this.contentEquals(other)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun ShortArray.contentEquals(other: ShortArray): Boolean {
    return this.contentEquals(other)
}
**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma**

1. **ULongArray?.contentEquals(other: ULongArray?): Boolean**
   
   ```kotlin
   fun contentEquals(other: ULongArray?): Boolean {
       return this?.storage.contentEquals(other?.storage)
   }
   ```

   *Since Kotlin 1.4*

   **Description:**
   
   Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

2. **UByteArray?.contentEquals(other: UByteArray?): Boolean**
   
   ```kotlin
   fun contentEquals(other: UByteArray?): Boolean {
       return this?.storage.contentEquals(other?.storage)
   }
   ```

   *Since Kotlin 1.4*

   **Description:**
   
   Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

3. **UShortArray?.contentEquals(other: UShortArray?): Boolean**
   
   ```kotlin
   fun contentEquals(other: UShortArray?): Boolean {
       return this?.storage.contentEquals(other?.storage)
   }
   ```

   *Since Kotlin 1.4*

   **Description:**
   
   Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

4. **UIntArray?.contentHashCode(): Int**
   
   ```kotlin
   fun contentHashCode(): Int {
       return this.contentHashCode()
   }
   ```

   *Since Kotlin 1.3*

   **Description:**
   
   Returns a hash code based on the contents of this array as if it is [List].

5. **ULongArray?.contentHashCode(): Int**
   
   ```kotlin
   fun contentHashCode(): Int {
       return this.contentHashCode()
   }
   ```

   *Since Kotlin 1.3*

   **Description:**
   
   Returns a hash code based on the contents of this array as if it is [List].

6. **UByteArray?.contentHashCode(): Int**
   
   ```kotlin
   fun contentHashCode(): Int {
       return this.contentHashCode()
   }
   ```

   *Since Kotlin 1.3*

   **Description:**
   
   Returns a hash code based on the contents of this array as if it is [List].

7. **UShortArray?.contentHashCode(): Int**
   
   ```kotlin
   fun contentHashCode(): Int {
       return this.contentHashCode()
   }
   ```

   *Since Kotlin 1.3*

   **Description:**
   
   Returns a hash code based on the contents of this array as if it is [List].

8. **UIntArray?.contentToString(): String**
   
   ```kotlin
   fun contentToString(): String {
       return this.contentToString()
   }
   ```

   *Since Kotlin 1.3*

   **Description:**
   
   Returns a string representation of the contents of the specified array as if it is [List].

9. **ULongArray?.contentToString(): String**
   
   ```kotlin
   fun contentToString(): String {
       return this.contentToString()
   }
   ```

   *Since Kotlin 1.3*

   **Description:**
   
   Returns a string representation of the contents of the specified array as if it is [List].

10. **UByteArray?.contentToString(): String**
    
    ```kotlin
    fun contentToString(): String {
        return this.contentToString()
    }
    ```

    *Since Kotlin 1.3*

    **Description:**
    
    Returns a string representation of the contents of the specified array as if it is [List].

11. **UShortArray?.contentToString(): String**
    
    ```kotlin
    fun contentToString(): String {
        return this.contentToString()
    }
    ```

    *Since Kotlin 1.3*

    **Description:**
    
    Returns a string representation of the contents of the specified array as if it is [List].
this.contentToString() in [List]*\n\n/**
 * Returns a string representation of the contents of the specified array as if it is a
 * [List].
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
 * destination range. *\n * @param destination the array to copy to.*\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.*\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.*\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.*\n * @return the [destination] array.*\n */

/**
 * Copies this array or its subrange into the [destination] array and returns that array. It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.*\n * @param destination the array to copy to.*\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.*\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.*\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.*\n * @return the [destination] array.*\n */

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun UByteArray?.contentToString(): String {
    return this.contentToString() ?: "null"
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array. It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.*\n * @param destination the array to copy to.*\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.*\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.*\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.*\n * @return the [destination] array.*\n */

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun UShortArray?.contentToString(): String {
    return this.contentToString() ?: "null"
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array. It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.*\n * @param destination the array to copy to.*\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.*\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.*\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.*\n * @return the [destination] array.*\n */

@SinceKotlin("1.4")@ExperimentalUnsignedTypes@public fun UShortArray?.contentToString(): String {
    return this.contentToString() ?: "null"
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/**
 * Copies this array or its subrange into the [destination] array and returns that array. It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.*\n * @param destination the array to copy to.*\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.*\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.*\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.*\n * @return the [destination] array.*\n */

@SinceKotlin("1.4")@ExperimentalUnsignedTypes@public fun UIntArray?.contentToString(): String {
    return this?.joinToString(" ", "[", "]") ?: "null"
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array. It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.*\n * @param destination the array to copy to.*\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.*\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.*\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.*\n * @return the [destination] array.*\n */

@SinceKotlin("1.4")@ExperimentalUnsignedTypes@public fun ULongArray?.contentToString(): String {
    return this?.joinToString(" ", "[", "]") ?: "null"
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array. It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.*\n * @param destination the array to copy to.*\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.*\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.*\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.*\n * @return the [destination] array.*\n */

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun ULongArray?.contentToString(): String {
    return this?.joinToString(" ", "[", "]") ?: "null"
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array. It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.*\n * @param destination the array to copy to.*\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.*\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.*\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.*\n * @return the [destination] array.*\n */

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun ULongArray?.contentToString(): String {
    return this?.joinToString(" ", "[", "]") ?: "null"
}
[destination] array to copy to, 0 by default.

* @param startIndex the beginning (inclusive) of the subrange to copy, size of this array by default.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset]. * or when that index is out of the [destination] array indices range.

* @return the [destination] array.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UByteArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    return destination
}

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UShortArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    return destination
}

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UIntArray.copyOf(): UIntArray {
    return UIntArray(storage.copyOf())
}

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun ULongArray.copyOf(): ULongArray {
    return ULongArray(storage.copyOf())
}

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UByteArray.copyOf(): UByteArray {
    return UByteArray(storage.copyOf())
}

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UShortArray.copyOf(): UShortArray {
    return UShortArray(storage.copyOf())
}

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UIntArray.copyOf(newSize: Int): UIntArray {
    return UIntArray(storage.copyOf(newSize))
}

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun ULongArray.copyOf(newSize: Int): ULongArray {
    return ULongArray(storage.copyOf(newSize))
}

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UByteArray.copyOf(newSize: Int): UByteArray {
    return UByteArray(storage.copyOf(newSize))
}

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UShortArray.copyOf(newSize: Int): UShortArray {
    return UShortArray(storage.copyOf(newSize))
}
original array, the copy array is truncated to the [newSize].

* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.copyOf(newSize: Int): UByteArray {
    return UByteArray(storage.copyOf(newSize))
}

Returns new array which is a copy of the original array, resized to the given [newSize]. The copy is either truncated or padded at the end with zero values if necessary. * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].

* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.copyOf(newSize: Int): UShortArray {
    return UShortArray(storage.copyOf(newSize))
}

Returns a new array which is a copy of the specified range of the original array.

* - @param fromIndex the start of the range (inclusive) to copy.

* - @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

* - @throws IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {
    return UIntArray(storage.copyOfRange(fromIndex, toIndex))
}

Returns a new array which is a copy of the specified range of the original array.

* - @param fromIndex the start of the range (inclusive) to copy.

* - @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

* - @throws IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {
    return ULongArray(storage.copyOfRange(fromIndex, toIndex))
}

Returns a new array which is a copy of the specified range of the original array.

* - @param fromIndex the start of the range (inclusive) to copy.

* - @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

* - @throws IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {
    return UByteArray(storage.copyOfRange(fromIndex, toIndex))
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {
    return UShortArray(storage.copyOfRange(fromIndex, toIndex))
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun
UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun
UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun
UByteArray.fill(element: UByteArray, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun
ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun
UByteArray.fill(element: UByteArray, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element, fromIndex, toIndex)
}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toLong(), fromIndex, toIndex)
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toByte(), fromIndex, toIndex)
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive) to fill, 0 by default.
 * @param toIndex the end of the range (exclusive) to fill, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toShort(), fromIndex, toIndex)
}

/**
 * Returns the range of valid indices for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UIntArray.indices: IntRange
    get() = storage.indices

/**
 * Returns the range of valid indices for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val ULongArray.indices: IntRange
    get() = storage.indices

/**
 * Returns the range of valid indices for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UByteArray.indices: IntRange
    get() = storage.indices

/**
 * Returns the range of valid indices for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UShortArray.indices: IntRange
    get() = storage.indices

/**
 * Returns the last valid index for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UIntArray.lastIndex: Int
    get() = storage.lastIndex

/**
 * Returns the last valid index for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val ULongArray.lastIndex: Int
    get() = storage.lastIndex

/**
 * Returns the last valid index for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UByteArray.lastIndex: Int
    get() = storage.lastIndex

/**
 * Returns the last valid index for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UShortArray.lastIndex: Int
    get() = storage.lastIndex

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator
fun UIntArray.plus(elements: Collection<UInt>): UIntArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toInt()
    return UIntArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator
fun ULongArray.plus(elements: Collection<Long>): ULongArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toLong()
    return ULongArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator
fun UByteArray.plus(elements: Collection<UByte>): UByteArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toByte()
    return UByteArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator
fun UShortArray.plus(elements: Collection<UShort>): UShortArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toShort()
    return UShortArray(result)
}
fun ULongArray.plus(elements: Collection<ULong>): ULongArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toLong()
    return ULongArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toByte()
    return UByteArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.plus(elements: UIntArray): UIntArray {
    return UIntArray(storage + elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.plus(elements: ULongArray): ULongArray {
    return ULongArray(storage + elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.plus(elements: UByteArray): UByteArray {
    return UByteArray(storage + elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {
    return UShortArray(storage + elements.storage)
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sort(): Unit {
    if (size > 1) sortArray(this, 0, size)
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sort(): Unit {
    if (size > 1) sortArray(this, 0, size)
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sort(): Unit {
    if (size > 1) sortArray(this, 0, size)
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sort(): Unit {
    if (size > 1) sortArray(this, 0, size)
}

/**
 * Sorts a range in the array in-place.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArray
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UIntArray.sort(fromIndex: Int = 0, toIndex: Int = size) {
    sortArray(this, fromIndex, toIndex)
}

/**
 * Sorts a range in the array in-place.
 * 
 * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
 * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * 
 * @sample samples.collections.Arrays.Sorting.sortRangeOfArray
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun ULongArray.sort(fromIndex: Int = 0, toIndex: Int = size) {
    sortArray(this, fromIndex, toIndex)
}
toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    sortArray(this, fromIndex, toIndex)
    } /*@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
    */

    /**
     * Sorts a range in the array in-place.
     * 
     * @param fromIndex the start of the range (inclusive) to sort, 0 by default.
     * @param toIndex the end of the range (exclusive) to sort, size of this array by default.
     * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
     * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
     */
    @SinceKotlin("1.4")
    @ExperimentalUnsignedTypes
    public fun UByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
        AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
        sortArray(this, fromIndex, toIndex)
    }

    /**
     * Sorts elements of the array in the specified range in-place.
     * The elements are sorted descending according to their natural sort order.
     * @param fromIndex the start of the range (inclusive) to sort.
     * @param toIndex the end of the range (exclusive) to sort.
     * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
     * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
     */
    @SinceKotlin("1.4")
    @ExperimentalUnsignedTypes
    public fun UIntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
        sort(fromIndex, toIndex)
        reverse(fromIndex, toIndex)
    }

    /**
     * Returns an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UByteArray.toByteArray(): ByteArray {
        return storage.copyOf()
    }

    /**
     * Returns an array of type [IntArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UIntArray.toIntArray(): IntArray {
        return storage.copyOf()
    }

    /**
     * Returns an array of type [LongArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun ULongArray.toByteArray(): LongArray {
        return storage.copyOf()
    }

    /**
     * Returns an array of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UShortArray.toByteArray(): ShortArray {
        return storage.copyOf()
    }

    /**
     * Returns an array of type [CharArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UCharArray.toByteArray(): CharArray {
        return storage.copyOf()
    }

    /**
     * Returns an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UByteArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [IntArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UIntArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [LongArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun ULongArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UShortArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [CharArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UCharArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UByteArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [IntArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UIntArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [LongArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun ULongArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UShortArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [CharArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UCharArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UByteArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [IntArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UIntArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [LongArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun ULongArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UShortArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [CharArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UCharArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UByteArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [IntArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UIntArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [LongArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun ULongArray.toString(): String {
        return storage.toString()
    }

    /**
     * Returns an array of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun UShortArray.toString(): String {
        return storage.toString()
which is a copy of this array where each element is a signed reinterpretation\n* of the corresponding element of this array.

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun ULongArray.toLongArray(): LongArray {

    return storage.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun UShortArray.toShortArray(): ShortArray {

    return storage.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UIntArray.toDoubleArray(): Array\<Double> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UIntArray.toUShortArray(): Array\<UShort> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UByteArray.toUShortArray(): Array\<UShort> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UIntArray.toUShortArray(): Array\<UShort> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun ULongArray.toULongArray(): Array\<ULong> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UShortArray.toUShortArray(): Array\<UShort> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UByteArray.toUByteArray(): Array\<UByte> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UCharArray.toUByteArray(): Array\<UByte> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UShortArray.toUByteArray(): Array\<UByte> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UShortArray.toUCharArray(): Array\<UChar> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UShortArray.toUShortArray(): Array\<UShort> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UShortArray.toUShortArray(): Array\<UShort> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UShortArray.toUShortArray(): Array\<UChar> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UShortArray.toUShortArray(): Array\<UChar> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UShortArray.toUShortArray(): Array\<UChar> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UShortArray.toUShortArray(): Array\<UChar> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UShortArray.toUShortArray(): Array\<UChar> {

    return this.copyOf()\n}\n
\*

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@public fun UShortArray.toUShortArray(): Array\<UChar> {

    return this.copyOf()\n}\n
\*
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {
    val result = LinkedHashMap<UInt, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a map where keys are elements from the given array and values are
 * produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one
 * gets added to the map. The returned map preserves the entry iteration order of the original array.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong, V> {
    val result = LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a map where keys are elements from the given array and values are
 * produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one
 * gets added to the map. The returned map preserves the entry iteration order of the original array.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
UByteArray.associateWith(valueSelector: (UByte) -> V): Map<UByte, V> {
    val result = LinkedHashMap<UByte, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a map where keys are elements from the given array and values are
 * produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one
 * gets added to the map. The returned map preserves the entry iteration order of the original array.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
UShortArray.associateWith(valueSelector: (UShort) -> V): Map<UShort, V> {
    val result = LinkedHashMap<UShort, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,
 * where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in UInt, in V>> UIntArray.associateWithTo(destination: M, valueSelector: (UInt) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,
 * where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in ULong, in V>> ULongArray.associateWithTo(destination: M, valueSelector: (ULong) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,
 * where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,
 * where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}
@sample samples.collections.Collections.Transformations.associateWithTo

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@unpublic inline fun <V, M : MutableMap<U Short, in V>> UShortArray.associateWithTo(destination: M, valueSelector: (U Short) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being
 * invoked on each element of original array.
 * @sample samples.collections.Collections.Transformations.flatMap
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@unpublic inline fun <R> UIntArray.flatMap(transform: (U Int) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being
 * invoked on each element of original array.
 * @sample samples.collections.Collections.Transformations.flatMap
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@unpublic inline fun <R> ULongArray.flatMap(transform: (U Long) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being
 * invoked on each element of original array.
 * @sample samples.collections.Collections.Transformations.flatMap
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@unpublic inline fun <R> UByteArray.flatMap(transform: (U Byte) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being
 * invoked on each element of original array.
 * @sample samples.collections.Collections.Transformations.flatMap
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@unpublic inline fun <R> UShortArray.flatMap(transform: (U Short) ->Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being
 * invoked on each element of original array.
 * and its index in the original array.
 * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@unpublic inline fun <R> UIntArray.flatMapIndexed(transform: (index: Int, U Int) ->Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being
 * invoked on each element of original array.
 * and its index in the original array.
 * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@unpublic inline fun <R> ULongArray.flatMapIndexed(transform: (index: Int, U Long) ->Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being
 * invoked on each element of original array.
 * and its index in the original array.
 * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@unpublic inline fun <R> UByteArray.flatMapIndexed(transform: (index: Int, U Byte) ->Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being
 * invoked on each element of original array.
 * and its index in the original array.
 * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@unpublic inline fun <R> UShortArray.flatMapIndexed(transform: (index: Int, U Short) ->Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

/*
 * Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 63371
 */
flatMapIndexedTo(ArrayList<R>(), transform))\n
/**
 * Appends all elements yielded from results of 
 * [transform] function being invoked on each element\n * and its index in the original array, to the given 
 * [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : 
MutableCollection<R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) -> 
Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of 
 * [transform] function being invoked on each element\n * and its index in the original array, to the given 
 * [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : 
MutableCollection<R>> ULongArray.flatMapIndexedTo(destination: C, transform: (index: Int, ULong) -> 
Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of 
 * [transform] function being invoked on each element\n * and its index in the original array, to the given 
 * [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : 
MutableCollection<R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) -> 
Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of 
 * [transform] function being invoked on each element\n * and its index in the original array, to the given 
 * [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : 
MutableCollection<R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) -> 
Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : 
MutableCollection<R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : 
MutableCollection<R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : 
MutableCollection<R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : 
MutableCollection<R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
Groups elements of the original array by the key returned by the given [keySelector] function \n applied to each element and returns a map where each group key is associated with a list of corresponding elements. \n * \n * The returned map preserves the entry iteration order of the keys produced from the original array. \n * \n * @sample samples.collections.Collections.Transformations.groupBy

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\nfun <K, V> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {
    return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)\n}

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\nfun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {
    return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\nfun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {
    return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\nfun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {
    return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\nfun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {
    return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\nfun <K, V> IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {
    return groupByTo(LinkedHashMap<K, MutableList<Int>>(), keySelector)\n}

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\nfun <K, V> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {
    return groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\nfun <K, V> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {
    return groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\nfun <K, V> CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {
    return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}
UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {
    return
    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element and returns a map
 * where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {
    return
    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * and puts to the [destination] map each group key associated with a list of corresponding elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableList<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<UInt>()
        }
        list.add(element)
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function and returns a map
 * where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UIntArray.groupByTo(destination: MutableList<K, MutableList<V>>, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<V>()
        }
        list.add(valueTransform(element))
    }
    return destination
}
[destination] map each group key associated with a list of corresponding values.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <K, V, M : MutableMap<K, MutableList<V>>, ULongArray> groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <K, V, M : MutableMap<K, MutableList<V>>, UByteArray> groupByTo(destination: M, keySelector: (UByte) -> K, valueTransform: (UByte) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <K, V, M : MutableMap<K, MutableList<V>>, UShortArray> groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> UIntArray.map(transform: (UInt) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> ULongArray.map(transform: (ULong) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> UByteArray.map(transform: (UByte) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> UShortArray.map(transform: (UShort) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> UIntArray.mapIndexedTo(transform: (index: Int, UInt) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> ULongArray.mapIndexedTo(transform: (index: Int, ULong) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> UByteArray.mapIndexedTo(transform: (index: Int, UByte) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R> UShortArray.mapIndexedTo(transform: (index: Int, UShort) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```
mapIndexedTo(ArrayList<R>(size), transform)\n\n**\n* Returns a list containing the results of applying the given [transform] function \n* to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself\n* and returns the result of the transform applied to the element.

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun <R> UByteArray.mapIndexed(transform: (Int, UByte) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)\n\n**\n* Returns a list containing the results of applying the given [transform] function \n* to each element and its index in the original array.

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun <R> UShortArray.mapIndexed(transform: (Int, UShort) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)\n\n**\n* Applies the given [transform] function to each element and its index in the original array\n* and appends the results to the given [destination].

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun <R> UIntArray.mapIndexedTo(destination: MutableList<R>, transform: (Int, UInt) -> R): MutableList<R> {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
\n**\n* Applies the given [transform] function to each element and its index in the original array\n* and appends the results to the given [destination].

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun <R, C : MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (Int, UByte) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
\n**\n* Applies the given [transform] function to each element and its index in the original array\n* and appends the results to the given [destination].

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun <R, C : MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (Int, ULong) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
\n**\n* Applies the given [transform] function to each element and its index in the original array\n* and appends the results to the given [destination].

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun <R, C : MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (Int, UShort) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
\n**\n* Applies the given [transform] function to each element of the original array\n* and appends the results to the given [destination].

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (Int, UByte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
\n**\n* Applies the given [transform] function to each element of the original array\n* and appends the results to the given [destination].

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (Int, ULong) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
\n**\n* Applies the given [transform] function to each element of the original array\n* and appends the results to the given [destination].

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (Int, UShort) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
\n**\n* Applies the given [transform] function to each element of the original array\n* and appends the results to the given [destination].

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (Int, UByte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
\n**\n* Applies the given [transform] function to each element of the original array\n* and appends the results to the given [destination].

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (Int, UShort) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
\n**\n* Applies the given [transform] function to each element of the original array\n* and appends the results to the given [destination].
each element of the original array * and appends the results to the given [destination].

```kotlin
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {
    \n    for (item in this)
        destination.add(transform(item))
    \n    return destination
} *

Returns a lazy [Iterable] that wraps each element of the original array * into an [IndexedValue] containing the index of that element and the element itself.

```
samples.collections.Collections.Aggregates.anyWithPredicate

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.any(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
} * Returns true’ if at least one element matches the given [predicate].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.any(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
} * Returns true’ if at least one element matches the given [predicate].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.any(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
} * Returns true’ if at least one element matches the given [predicate].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.count(predicate: (UInt) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
} * Counts the number of elements matching the given [predicate].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
} * Counts the number of elements matching the given [predicate].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
} * Counts the number of elements matching the given [predicate].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
} * Counts the number of elements matching the given [predicate].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
} * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element. * Returns the specified [initial] value if the array is empty.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
} * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element. * Returns the specified [initial] value if the array is empty.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
} * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element. * Returns the specified [initial] value if the array is empty.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
} * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element. * Returns the specified [initial] value if the array is empty.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
} * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element. * Returns the specified [initial] value if the array is empty.
starting with [initial] value and applying [operation] from left to right

@ SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
@ kotlin.internal.InlineOnly
public inline fun <R> UIntArray.foldIndexed(initial: R, operation: (Int, Int, UInt) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 */
@ SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
@ kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldIndexed(initial: R, operation: (Int, Int, ULong) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 */
@ SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
@ kotlin.internal.InlineOnly
public inline fun <R> UByteArray.foldIndexed(initial: R, operation: (Int, Int, UByte) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element and current accumulator value.
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 */
@ SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
@ kotlin.internal.InlineOnly
public inline fun <R> UShortArray.foldRight(initial: R, operation: (UInt, Int) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element and current accumulator value.
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 */
@ SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
@ kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldRight(initial: R, operation: (ULong, Int) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element and current accumulator value.
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 */
@ SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
@ kotlin.internal.InlineOnly
public inline fun <R> UByteArray.foldRight(initial: R, operation: (UByte, Int) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
accumulator = initial
while (index >= 0) {
    accumulator = operation(get(index--), accumulator)
}
return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element and current accumulator value.
 * Returns the specified [initial] value if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns the specified [initial] value if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns the specified [initial] value if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns the specified [initial] value if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.forEach(action: (UInt) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.forEach(action: (ULong) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.forEach(action: (UByte) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.forEach(action: (UShort) -> Unit): Unit {
    for (element in this) action(element)
}
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.forEach(action: (UShort) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself, and performs the action on the element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself, and performs the action on the element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

@Deprecated("Use maxOrNull instead.",
ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UIntArray.max(): UInt? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.",
ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULongArray.max(): ULong? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.",
ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.max(): UByte? {
    return maxOrNull()
}

@Deprecated("Use maxOrNull instead.",
ReplaceWith("maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.max(): UShort? {
    return maxOrNull()
}

@Deprecated("Use maxByOrNull instead.",
ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {
    return maxByOrNull(selector)
}

@Deprecated("Use maxByOrNull instead.",
ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {
    return maxByOrNull(selector)
}

@Deprecated("Use maxByOrNull instead.",
ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {
    return maxByOrNull(selector)
}

@Deprecated("Use maxByOrNull instead.",
ReplaceWith("maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {
    return maxByOrNull(selector)
}
<R : Comparable<R>>> UShortArray.maxBy(selector: (UShort) -> R): UShort?

*\nreturn maxByOrNull(selector)\n\n* \n\n* Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n* \n* @sample samples.collections.Collections.Aggregates.maxByOrNull\n* \n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n*\n\n*\n\npublic inline fun <R : Comparable<R>> UIntArray.maxByOrNull(selector: (UInt) -> R): UInt? {
    return maxByOrNull(selector)
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n* \n* @sample samples.collections.Collections.Aggregates.maxByOrNull\n* \n* @SinceKotlin("1.4")\n* @ExperimentalUnsignedTypes\n* \n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n*\n\n*\n\npublic inline fun <R : Comparable<R>> ULongArray.maxByOrNull(selector: (ULong) -> R): ULong? {
    return maxByOrNull(selector)
}

/**
 * Returns the largest value among all values produced by [selector] function \n* applied to each element in the array.\n* \n* @throws NoSuchElementException if the array is empty.\n* \n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* @OverloadResolution
* @ExperimentalUnsignedTypes\n* \n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n*\n\n*\n\nUintArray.maxOf(selector: (UInt) -> Double): Double

\nvar maxVal = selector(this[0])\n\n\nfor (i in 1..lastIndex) \n\nval v = selector(this[i])\n\nmaxVal = maxOf(maxVal, v)\n\n\n// Returns the largest value among all values produced by [selector] function \n* applied to each element in the array.\n* \n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental ExperimentalTypeInference::class)\n* @OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n*\n\n*\n\nULongArray.maxOf(selector: (ULong) -> Double): Double

\nvar maxVal = selector(this[0])\n\n\nfor (i in 1..lastIndex) \n\nval v = selector(this[i])\n\nmaxVal = maxOf(maxVal, v)\n\n\n// Returns the largest value among all values produced by [selector] function \n* applied to each element in the array.\n* \n* @SinceKotlin("1.4")\n* @OptIn(kotlin.experimental ExperimentalTypeInference::class)\n* @OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n*\n\n*\n\n
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ULongArray.maxOf(selector: (ULong) -> R): R {
    if (isEmpty()) throwNoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.maxOf(selector: (UByte) -> R): R {
    if (isEmpty()) throwNoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.maxOf(selector: (UShort) -> R): R {
    if (isEmpty()) throwNoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.maxOfOrNull(selector: (ULong) -> R): R {
    if (isEmpty()) throwNoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.maxOfOrNull(selector: (UByte) -> R): R {
    if (isEmpty()) throwNoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.maxOfOrNull(selector: (UShort) -> R): R {
    if (isEmpty()) throwNoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function if there are no elements.
by [selector] function
\* \* applied to each element in the array or `null` if there are no elements.\* \* \* If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByReturnType@ExperimentalUnsignedTypes@inline fun
UIntArray.maxOfOrNull(selector: (UInt) -> Float): Float? {\n    \n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue
}\n
/**
 * Returns the largest value among all values produced by [selector] function\* \* applied to each element in the array or `null` if there are no elements.\* \* \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByReturnType@ExperimentalUnsignedTypes@inline fun
ULONGArray.maxOfOrNull(selector: (ULONG) -> Float): Float? {\n    \n    if (isEmpty()) return null\n    var max = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        max = maxOf(max, v)\n    }\n    return max
}
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxOfOrNull(selector: (UShort) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.maxOfWith(comparator: Comparator<R>, selector: (UInt) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.maxOfWith(comparator: Comparator<R>, selector: (ULong) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.maxOfWith(comparator: Comparator<R>, selector: (UByte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.maxOfWith(comparator: Comparator<R>, selector: (UShort) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array.
 * @throws NoSuchElementException if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.maxOfWithOrNull(comparator: Comparator<R>, selector: (UInt) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.maxOfWithOrNull(comparator: Comparator<R>, selector: (ULong) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}
```kotlin
function applied to each element in the array or `null` if there are no elements.

```
Comparator<in ULong>): ULong? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or ‘null’ if there are no elements.
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes
public fun UByteArray.maxWithOrNull(comparator: Comparator<in UByte>): UByte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or ‘null’ if there are no elements.
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes
public fun UShortArray.maxWithOrNull(comparator: Comparator<in UShort>): UShort? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UIntArray.minByOrNull(selector: (UInt) -> R): UInt? {
    return minByOrNull(selector)
}

@Deprecated("Use minByOrNull instead.",
ReplaceWith("minByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ULongArray.minByOrNull(selector: (ULong) -> R): ULong? {
    return minByOrNull(selector)
}

@Deprecated("Use minByOrNull instead.",
ReplaceWith("minByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.minByOrNull(selector: (UByte) -> R): UByte? {
    return minByOrNull(selector)
}

@Deprecated("Use minByOrNull instead.",
ReplaceWith("minByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.minByOrNull(selector: (UShort) -> R): UShort? {
    return minByOrNull(selector)
}

/**
 * Returns the first element yielding the smallest value of the given function or ‘null’ if there are no elements.
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.min(): UInt? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun ULongArray.min(): ULong? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.min(): UByte? {
    return minOrNull()
}

@Deprecated("Use minOrNull instead.",
ReplaceWith("minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.min(): UShort? {
    return minOrNull()
}
Comparable<R>> ULongArray.minByOrNull(selector: (ULong) -> R): ULong? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem) for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or ‘null’ if there are no elements.
 * @sample samples.collections.Collections.Aggregates.minByOrNull
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.minByOrNull(selector: (UByte) -> R): UByte? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem) for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or ‘null’ if there are no elements.
 * @sample samples.collections.Collections.Aggregates.minByOrNull
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.minByOrNull(selector: (UShort) -> R): UShort? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem) for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the smallest value among all values produced by [selector] function \* applied to each element in the array.\n * \* If any of values produced by [selector] function is \`NaN\`, the returned result is \`NaN\'.\n * \* @throws NoSuchElementException if the array is empty.\n */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun UIntArray.minOf(selector: (UInt) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function \* applied to each element in the array.\n * \* If any of values produced by [selector] function is \`NaN\`, the returned result is \`NaN\'.\n * \* @throws NoSuchElementException if the array is empty.\n */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun ULongArray.minOf(selector: (ULong) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function \* applied to each element in the array.\n * \* If any of values produced by [selector] function is \`NaN\`, the returned result is \`NaN\'.\n * \* @throws NoSuchElementException if the array is empty.\n */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun UByteArray.minOf(selector: (UByte) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function \* applied to each element in the array.\n * \* If any of values produced by [selector] function is \`NaN\`, the returned result is \`NaN\'.\n * \* @throws NoSuchElementException if the array is empty.\n */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@kotlin.internal.InlineOnly
public inline fun UShortArray.minOf(selector: (UShort) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
Returns the smallest value among all values produced by [selector] function\n* applied to each element in the
array.\n
*\n* \n* \n\n*stdexcept NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n*\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> \nUCharArray.minOf(selector: (UChar) -> R): R \n}{\n    if (isEmpty()) throw
NoSuchElementException()\n
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) \n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    \n
    return minValue\n}

*stdexcept NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n*\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun \nUShortArray.minOf(selector: (UShort) -> R): R \n}{\n    if (isEmpty()) throw
NoSuchElementException()\n
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) \n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    \n
    return minValue\n}

*stdexcept NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n*\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun \nUByteArray.minOf(selector: (UByte) -> R): R \n}{\n    if (isEmpty()) throw
NoSuchElementException()\n
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) \n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    \n
    return minValue\n}

*stdexcept NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n*\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun \nUIntArray.minOf(selector: (UInt) -> R): R \n}{\n    if (isEmpty()) throw
NoSuchElementException()\n
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) \n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    \n
    return minValue\n}

*stdexcept NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n*\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun \nUShortArray.minOf(selector: (UShort) -> R): R \n}{\n    if (isEmpty()) throw
NoSuchElementException()\n
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) \n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    \n
    return minValue\n}

*stdexcept NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n*\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun \nUIntArray.minOf(selector: (UInt) -> Float): Float \n}{\n    if (isEmpty()) throw
NoSuchElementException()\n
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) \n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    \n
    return minValue\n}

*stdexcept NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n*\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun \nULongArray.minOf(selector: (ULong) -> Float): Float \n}{\n    if (isEmpty()) throw
NoSuchElementException()\n
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) \n        val v = selector(this[i])\n        if (minValue > v) \n            minValue = v\n    \n
    return minValue\n}
selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) minValue = minOf(minValue, v) 
 return minValue
} Returns the smallest value among all values produced by [selector] function applied to each element in the array or null if there are no elements.

@SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution
ByLambdaReturnType @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun UByteArray.minOfOrNull(selector: (UByte) -> Float): Float? {
    for (i in 1..lastIndex) { val v = selector(this[i]) minValue = minOf(minValue, v) 
    return minValue
} Returns the smallest value among all values produced by [selector] function applied to each element in the array or null if there are no elements.

@SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution
ByLambdaReturnType @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun UShortArray.minOfOrNull(selector: (UShort) -> Float): Float? {
    for (i in 1..lastIndex) { val v = selector(this[i]) minValue = minOf(minValue, v) 
    return minValue
} Returns the smallest value among all values produced by [selector] function applied to each element in the array or null if there are no elements.

@SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution
ByLambdaReturnType @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun UIntArray.minOfOrNull(selector: (UInt) -> Comparable<in R>): R? {
    for (i in 1..lastIndex) { val v = selector(this[i]) if (minValue > v) { minValue = v 
    return minValue
} Returns the smallest value among all values produced by [selector] function applied to each element in the array or null if there are no elements.

@SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution
ByLambdaReturnType @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun ULongArray.minOfOrNull(selector: (ULong) -> Comparable<in R>): R? {
    for (i in 1..lastIndex) { val v = selector(this[i]) if (minValue > v) { minValue = v 
    return minValue
} Returns the smallest value among all values produced by [selector] function applied to each element in the array or null if there are no elements.

@SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution
ByLambdaReturnType @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun UByteArray.minOfOrNull(selector: (UByte) -> Comparable<in R>): R? {
    for (i in 1..lastIndex) { val v = selector(this[i]) if (minValue > v) { minValue = v 
    return minValue
} Returns the smallest value among all values produced by [selector] function applied to each element in the array or null if there are no elements.

@SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution
ByLambdaReturnType @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun UShortArray.minOfOrNull(selector: (UShort) -> Comparable<in R>): R? {
    for (i in 1..lastIndex) { val v = selector(this[i]) if (minValue > v) { minValue = v 
    return minValue
} Returns the smallest value among all values produced by [selector] function applied to each element in the array or null if there are no elements.

@SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution
ByLambdaReturnType @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) if (comparator.compare(minValue, v) > 0) { minValue = v 
    return minValue
} Returns the smallest value according to the provided [comparator] function applied to each element in the array.

@SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution
ByLambdaReturnType @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) if (comparator.compare(minValue, v) > 0) { minValue = v 
    return minValue
} Returns the smallest value according to the provided [comparator] function applied to each element in the array.

@SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution
ByLambdaReturnType @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) if (comparator.compare(minValue, v) > 0) { minValue = v 
    return minValue
} Returns the smallest value according to the provided [comparator] function applied to each element in the array.

@SinceKotlin("1.4") @OptIn(kotlin.experimental.ExperimentalTypeInference::class) @OverloadResolution
ByLambdaReturnType @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0]) for (i in 1..lastIndex) { val v = selector(this[i]) if (comparator.compare(minValue, v) > 0) { minValue = v 
    return minValue
} Returns the smallest value according to the provided [comparator] function applied to each element in the array.
produced by [selector] function applied to each element in the array.
*
* @throws NoSuchElementException if the array is empty.
*
@n@SinceKotlin("1.4")@n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@n@OverloadResolution
ByLambdaReturnType@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public inline fun <R>
ULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R { @n if (isEmpty()) throw
NoSuchElementException();@n var minValue = selector(this[0])@n for (i in 1..lastIndex) { @n val v =
selector(this[i])@n if (comparator.compare(minValue, v) > 0) { @n minValue = v
} @n } @n return
minValue
}@n/* * Returns the smallest value according to the provided [comparator]@n * among all values produced by [selector] function applied to each element in the array.@n* @throws NoSuchElementException if the array is empty.
*}

@n@SinceKotlin("1.4")@n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@n@OverloadResolution
ByLambdaReturnType@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public inline fun <R>
UByteArray.minOfWith(comparator: Comparator<R>, selector: (UByte) -> R): R { @n if (isEmpty()) throw
NoSuchElementException();@n var minValue = selector(this[0])@n for (i in 1..lastIndex) { @n val v =
selector(this[i])@n if (comparator.compare(minValue, v) > 0) { @n minValue = v
} @n } @n return
minValue
}@n/* * Returns the smallest value according to the provided [comparator]@n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.@n*

@n@SinceKotlin("1.4")@n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@n@OverloadResolution
ByLambdaReturnType@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public inline fun <R>
UShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R { @n if (isEmpty()) throw
NoSuchElementException();@n var minValue = selector(this[0])@n for (i in 1..lastIndex) { @n val v =
selector(this[i])@n if (comparator.compare(minValue, v) > 0) { @n minValue = v
} @n } @n return
minValue
}@n/* * Returns the smallest value according to the provided [comparator]@n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.@n*

@n@SinceKotlin("1.4")@n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@n@OverloadResolution
ByLambdaReturnType@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public inline fun <R>
UIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? { @n if (isEmpty()) return
null
@n var minValue = selector(this[0])@n for (i in 1..lastIndex) { @n val v = selector(this[i])@n if
(comparator.compare(minValue, v) > 0) { @n minValue = v
} @n } @n return minValue
}@n/* * Returns the smallest value according to the provided [comparator]@n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.@n*

@n@SinceKotlin("1.4")@n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@n@OverloadResolution
ByLambdaReturnType@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public inline fun <R>
UByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? { @n if (isEmpty()) return
null
@n var minValue = selector(this[0])@n for (i in 1..lastIndex) { @n val v = selector(this[i])@n if
(comparator.compare(minValue, v) > 0) { @n minValue = v
} @n } @n return minValue
}@n/* * Returns the smallest value according to the provided [comparator]@n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.@n*

@n@SinceKotlin("1.4")@n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@n@OverloadResolution
ByLambdaReturnType@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public inline fun <R>
ULongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? { @n if (isEmpty()) return
null
@n var minValue = selector(this[0])@n for (i in 1..lastIndex) { @n val v = selector(this[i])@n if
(comparator.compare(minValue, v) > 0) { @n minValue = v
} @n } @n return minValue
}@n/* * Returns the smallest value according to the provided [comparator]@n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.@n*
UShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes
@public fun UIntArray.minOrNull(): UInt? {
    if (isEmpty()) return null
    var minValue = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (minValue > e) minValue = e
    }
    return minValue
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes
@public fun ULongArray.minOrNull(): ULong? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes
@public fun UByteArray.minOrNull(): UByte? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")@ExperimentalUnsignedTypes
@public fun UShortArray.minOrNull(): UShort? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

@Deprecated("Use minWithOrNull instead.",
ReplaceWith("minWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")@ExperimentalUnsignedTypes
@public fun UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {
    return minWithOrNull(comparator)
}

@Deprecated("Use minWithOrNull instead.",
ReplaceWith("minWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")@ExperimentalUnsignedTypes
@public fun ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {
    return minWithOrNull(comparator)
}

@Deprecated("Use minWithOrNull instead.",
ReplaceWith("minWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")@ExperimentalUnsignedTypes
@public fun UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {
    return minWithOrNull(comparator)
}

@Deprecated("Use minWithOrNull instead.",
ReplaceWith("minWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")@ExperimentalUnsignedTypes
@public fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {
    return minWithOrNull(comparator)
}

/**
 * Returns `true` if the array has no elements.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@in kotlin.internal.InlineOnly
@public inline fun
UIntArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.none(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.none(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.none(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.none(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return
    return true
}

/**
 * Performs the given [action] on each element and returns the array itself
 * afterwards.
 * 
 * @param [action] function that takes the index of an element
 * and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.onEach(action: (UInt) -> Unit): UIntArray {
    return apply { for (element in this)
        action(element) }
}

/**
 * Performs the given [action] on each element and returns the array itself
 * afterwards.
 * 
 * @param [action] function that takes the index of an element
 * and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.onEach(action: (ULong) -> Unit): ULongArray {
    return apply { for (element in this)
        action(element) }
}

/**
 * Performs the given [action] on each element, providing sequential index
 * with the element, and returns the array itself afterwards.
 * 
 * @param [action] function that takes the index of an element
 * and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.onEachIndexed(action: (Int, UByte) -> Unit): UByteArray {
    return apply { forEachIndexedIndexed(action)
        action(index, element) }
}

 /**
 * Performs the given [action] on each element, providing sequential index
 * with the element, and returns the array itself afterwards.
 * 
 * @param [action] function that takes the index of an element
 * and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.onEachIndexed(action: (Int, UShort) -> Unit): UShortArray {
    return apply { forEachIndexedIndexed(action)
        action(index, element) }
}
with the element, * and returns the array itself afterwards. *
 * @param [action] function that takes the index of an element and the element itself, * and performs the action on the element.

 /**
 * Performs the given [action] on each element, providing sequential index
 * with the element, * and returns the array itself afterwards. *
 * @param [action] function that takes the index of an element and the element itself, * and performs the action on the element.

 @SinceKotlin("1.4")
 @ExperimentalUnsignedTypes
 @kotlin.internal.InlineOnly
 public inline fun UByteArray.onEachIndexed(action: (Int, UByte) -> Unit): UByteArray {
    return apply {
        forEachIndexed(action) }
}

 /**
 * Performs the given [action] on each element, providing sequential index
 * with the element, * and returns the array itself afterwards. *
 * @param [action] function that takes the index of an element and the element itself, * and performs the action on the element.

 @SinceKotlin("1.4")
 @ExperimentalUnsignedTypes
 @kotlin.internal.InlineOnly
 public inline fun UShortArray.onEachIndexed(action: (Int, UShort) -> Unit): UShortArray {
    return apply {
        forEachIndexed(action) }
}

 /**
 * Accumulates value starting with the first element and applying [operation] from left to right, * to current accumulator value and each element. *
 *sth a way, * and returns null when its receiver is empty. If the array can be empty in an expected way, * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

 @SinceKotlin("1.3")
 @ExperimentalUnsignedTypes
 @kotlin.internal.InlineOnly
 public inline fun UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

 /**
 * Accumulates value starting with the first element and applying [operation] from left to right, * to current accumulator value and each element. *
 *sth a way, * and returns null when its receiver is empty. If the array can be empty in an expected way, * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

 @SinceKotlin("1.3")
 @ExperimentalUnsignedTypes
 @kotlin.internal.InlineOnly
 public inline fun ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

 /**
 * Accumulates value starting with the first element and applying [operation] from left to right, * to current accumulator value and each element. *
 *sth a way, * and returns null when its receiver is empty. If the array can be empty in an expected way, * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

 @SinceKotlin("1.3")
 @ExperimentalUnsignedTypes
 @kotlin.internal.InlineOnly
 public inline fun UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

 /**
 * Accumulates value starting with the first element and applying [operation] from left to right, * to current accumulator value and each element. *
 *sth a way, * and returns null when its receiver is empty. If the array can be empty in an expected way, * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

 @SinceKotlin("1.3")
 @ExperimentalUnsignedTypes
 @kotlin.internal.InlineOnly
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
when its receiver is empty.

*param* function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```kotlin
*sinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UIntArray.reduceIndexed(operation: (Int, acc: UInt, UInt) -> UInt): UInt {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```

`@reduceIndexedOrNull` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```kotlin
@sinceKotlin("1.4") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UIntArray.reduceIndexedOrNull(operation: (Int, acc: UInt, UInt) -> UInt): UInt? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```

*@sinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun ULongArray.reduceIndexed(operation: (Int, acc: ULong, ULong) -> ULong): ULong {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

`@reduceIndexedOrNull` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```kotlin
@sinceKotlin("1.4") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun ULongArray.reduceIndexedOrNull(operation: (Int, acc: ULong, ULong) -> ULong): ULong? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```

*@sinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UByteArray.reduceIndexed(operation: (Int, acc: UByte, UByte) -> UByte): UByte {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

`@reduceIndexedOrNull` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```kotlin
@sinceKotlin("1.4") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UByteArray.reduceIndexedOrNull(operation: (Int, acc: UByte, UByte) -> UByte): UByte? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```

*@sinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UShortArray.reduceIndexed(operation: (Int, acc: UShort, UShort) -> UShort): UShort {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

`@reduceIndexedOrNull` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```kotlin
@sinceKotlin("1.4") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UShortArray.reduceIndexedOrNull(operation: (Int, acc: UShort, UShort) -> UShort): UShort? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```
index of an element, current accumulator value and the element itself,\n* and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduceOrNull

*\n@SinceKotlin("1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULongArray.reduceIndexedOrNull(\noperation: (index: Int, acc: ULong, ULong) \rightarrow ULong): ULong? \n{\n    if (isNullOrEmpty()) \n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) \n    {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return accumulator\n*\n
*\n@SinceKotlin("1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun UByteArray.reduceIndexedOrNull(\noperation: (index: Int, acc: UByte, UByte) \rightarrow UByte): UByte? \n{\n    if (isNullOrEmpty()) \n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) \n    {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return accumulator\n*\n
*\n@SinceKotlin("1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun UShortArray.reduceIndexedOrNull(\noperation: (index: Int, acc: UShort, UShort) \rightarrow UShort): UShort? \n{\n    if (isNullOrEmpty()) \n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) \n    {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return accumulator\n*\n
*\n@SinceKotlin("1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun UIntArray.reduceOrNull(\noperation: (acc: UInt, UInt) \rightarrow UInt): UInt? \n{\n    if (isNullOrEmpty()) \n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) \n    {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n*\n
*\n@SinceKotlin("1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULongArray.reduceOrNull(\noperation: (acc: ULong, ULong) \rightarrow ULong): ULong? \n{\n    if (isNullOrEmpty()) \n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) \n    {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n*\n
*\n@SinceKotlin("1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun UByteArray.reduceOrNull(\noperation: (acc: UByte, UByte) \rightarrow UByte): UByte? \n{\n    if (isNullOrEmpty()) \n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) \n    {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n*
accumulator value and an element,\n* and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduceOrNull

```kotlin
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(accumulator, this[index])
    return accumulator
}
```

This function takes an element and current accumulator value,\n* and calculates the next accumulator value.\n* \n* @param [operation] function that takes an element and current accumulator value,\n* and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduceRightOrNull

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

This function accumulates value starting with the last element and applying [operation] from right to left.\n* Throws an exception if this array is empty. If the array can be empty in an expected way,\n* please use [reduceRightOrNull] instead. It returns 'null' when its receiver is empty.\n* and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduceRight

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceRight(operation: (acc: UByte, UByte) -> UByte): UByte {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

This function accumulates value starting with the last element and applying [operation] from right to left.\n* Throws an exception if this array is empty. If the array can be empty in an expected way,\n* please use [reduceRightOrNull] instead. It returns 'null' when its receiver is empty.\n* and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduceRight

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

This function accumulates value starting with the last element and applying [operation] from right to left.\n* Throws an exception if this array is empty. If the array can be empty in an expected way,\n* please use [reduceRightOrNull] instead. It returns 'null' when its receiver is empty.\n* and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduceRight

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceRight(operation: (acc: UByte, UByte) -> UByte): UByte {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

This function accumulates value starting with the last element and applying [operation] from right to left.\n* Throws an exception if this array is empty. If the array can be empty in an expected way,\n* please use [reduceRightOrNull] instead. It returns 'null' when its receiver is empty.\n* and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduceRight

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

This function accumulates value starting with the last element and applying [operation] from right to left.\n* Throws an exception if this array is empty. If the array can be empty in an expected way,\n* please use [reduceRightOrNull] instead. It returns 'null' when its receiver is empty.\n* and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduceRight

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceRight(operation: (acc: UByte, UByte) -> UByte): UByte {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```
function that takes the index of an element, the element itself and current accumulator value,\n* and calculates the next accumulator value.\n* @param \[operation\] function that takes the index of an element, the element itself and current accumulator value,\n* and calculates the
next accumulator value.\n* @sample samples.collections.Collections.Aggregates.reduceRight

*\n@SinceKotlin("1.3")\n*\n@ExperimentalUnsignedTypes\n*\n@kotlin.internal.InlineOnly\n*\n@public inline fun

UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt

{\n    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n
*\n@SinceKotlin("1.3")\n*\n@ExperimentalUnsignedTypes\n*\n@kotlin.internal.InlineOnly\n*\n@public inline fun

ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong

{\n    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n
*\n@SinceKotlin("1.3")\n*\n@ExperimentalUnsignedTypes\n*\n@kotlin.internal.InlineOnly\n*\n@public inline fun

UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte

{\n    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n
*\n@SinceKotlin("1.3")\n*\n@ExperimentalUnsignedTypes\n*\n@kotlin.internal.InlineOnly\n*\n@public inline fun


{\n    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n
*\n@SinceKotlin("1.4")\n*\n@ExperimentalUnsignedTypes\n*\n@kotlin.internal.InlineOnly\n*\n@public inline fun

UIntnArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt?): UInt?

{\n    var index = lastIndex
    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n
*\n@SinceKotlin("1.3")\n*\n@ExperimentalUnsignedTypes\n*\n@kotlin.internal.InlineOnly\n*\n@public inline fun

ULongnArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong?): ULong?

{\n    var index = lastIndex
    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n
*\n@SinceKotlin("1.3")\n*\n@ExperimentalUnsignedTypes\n*\n@kotlin.internal.InlineOnly\n*\n@public inline fun

UByteanArray.reduceRightIndexedOrNull(operation: (index: Int, UByte, acc: UByte) -> UByte?): UByte?

{\n    var index = lastIndex
    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n
*\n@SinceKotlin("1.3")\n*\n@ExperimentalUnsignedTypes\n*\n@kotlin.internal.InlineOnly\n*\n@public inline fun


{\n    var index = lastIndex
    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n
*\n@SinceKotlin("1.4")\n*\n@ExperimentalUnsignedTypes\n*\n@kotlin.internal.InlineOnly\n*\n@public inline func
Accumulates value starting with the last element and applying [operation] from right to left\n* to each element with its index in the original array and current accumulator value.\n*\n* \n* * \n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* and calculates the next accumulator value.\n* \n* * @sample

```java
samples.collections.Collections.Aggregates.reduceRightOrNull
```

Accumulates value starting with the last element and applying [operation] from right to left\n* to each element with its index in the original array and current accumulator value.\n* \n* * \n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* and calculates the next accumulator value.\n* \n* * @sample

```java
samples.collections.Collections.Aggregates.reduceRightOrNull
```

Accumulates value starting with the last element and applying [operation] from right to left\n* to each element with its index in the original array and current accumulator value.\n* \n* * \n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* and calculates the next accumulator value.\n* \n* * @sample

```java
samples.collections.Collections.Aggregates.reduceRightOrNull
```

Accumulates value starting with the last element and applying [operation] from right to left\n* to each element with its index in the original array and current accumulator value.\n* \n* * \n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* and calculates the next accumulator value.\n* \n* * @sample

```java
samples.collections.Collections.Aggregates.reduceRightOrNull
```

Accumulates value starting with the last element and applying [operation] from right to left\n* to each element with its index in the original array and current accumulator value.\n* \n* * \n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* and calculates the next accumulator value.\n* \n* * @sample

```java
samples.collections.Collections.Aggregates.reduceRightOrNull
```

Accumulates value starting with the last element and applying [operation] from right to left\n* to each element with its index in the original array and current accumulator value.\n* \n* * \n* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n* and calculates the next accumulator value.\n* \n* * @sample

```java
samples.collections.Collections.Aggregates.reduceRightOrNull
```
`@kotlin.internal:inline public inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) -> UByte): UByte? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to
 * left to each element and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes an element and current accumulator value and calculates the next accumulator value.
 */
@SinceKotlin("1.4")
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal:inline public inline fun <R> UIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal:inline public inline fun <R> ULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal:inline public inline fun <R> UByteArray.runningFold(initial: R, operation: (acc: R, UByte) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```kotlin
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element, its index in the original array and current accumulator value that
 * starts with [initial].
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes

 * @sample samples.collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
UByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial].
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes

 * @sample samples.collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
ULongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial].
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes

 * @sample samples.collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
UIntArray.runningFoldIndexed(initial: R, operation: (acc: R, UShort) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial].
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes

 * @sample samples.collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

---

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samples.collections.Collections.Aggregates.runningReduce

*\@SinceKotlin("1.4\")*\@ExperimentalUnsignedTypes*\@kotlin.internal.InlineOnly*\public inline fun

\UIntArray\.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> { 
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UInt>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

*\@SinceKotlin("1.4\")*\@ExperimentalUnsignedTypes*\@kotlin.internal.InlineOnly*\public inline fun

\ULongArray\.runningReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> { 
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<ULong>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

*\@SinceKotlin("1.4\")*\@ExperimentalUnsignedTypes*\@kotlin.internal.InlineOnly*\public inline fun

\UByteArray\.runningReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> { 
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UByte>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

*\@SinceKotlin("1.4\")*\@ExperimentalUnsignedTypes*\@kotlin.internal.InlineOnly*\public inline fun

\UShortArray\.runningReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> { 
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UShort>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

*\@SinceKotlin("1.4\")*\@ExperimentalUnsignedTypes*\@kotlin.internal.InlineOnly*\public inline fun

\UIntArray\.runningReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> { 
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UInt>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
[operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

samples.collections.Collections.Aggregates.runningReduce

*\@SinceKotlin("1.4")*\n@ExperimentalUnsignedTypes
\n@kotlin.internal.InlineOnly\n\npublic inline fun

ULongArray.runningReduceIndexed(operation: (index: Int, acc: ULong, ULong) -&gt; ULong): List&lt;ULong&gt; { if (isEmpty()) return emptyList() var accumulator = this[0] val result = ArrayList&lt;ULong&gt;(size).apply { add(accumulator) } for (index in 1 until size) { accumulator = operation(index, accumulator, this[index]) result.add(accumulator) } return result }**

returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

samples.collections.Collections.Aggregates.scan

*\@SinceKotlin("1.4")*\n@ExperimentalUnsignedTypes
\n@kotlin.internal.InlineOnly\n\npublic inline fun

< R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -&gt; R): List&lt;R&gt; { return runningFold(initial, operation) }**

returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
starts with `[initial]` value.\n\n* Note that `'acc'` value passed to `[operation]` function should not be mutated;\n* otherwise it would affect the previous value in resulting list.\n\n* @param `[operation]` function that takes current accumulator value and an element, and calculates the next accumulator value.\n* @sample samples.collections.Collections.Aggregates.scan\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun `<R>` UByteArray.scan(initial: `R`, operation: (`acc`: `R`, UByte) -> `R`):\n    `List<`R`> {\n        return runningFold(initial, operation)`R`\n    }\n* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element and current accumulator value that starts with `[initial]` value.\n\n* @param `[operation]` function that takes current accumulator value and an element, and calculates the next accumulator value.\n* @sample samples.collections.Collections.Aggregates.scan\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun `<R>` UShortArray.scan(initial: `R`, operation: (`acc`: `R`, UShort) -> `R`):\n    `List<`R`> {\n        return runningFold(initial, operation)`R`\n    }\n* Returns a list containing successive accumulation values generated by applying [operation] \n* to each element, its index in the original array and current accumulator value that starts with `[initial]` value.\n\n* Note that `'acc'` value passed to `[operation]` function should not be mutated;\n* otherwise it would affect the previous value in resulting list.\n\n* @param `[operation]` function that takes the index of an element, current accumulator value and the element itself, and \n* calculates the next accumulator value.\n* @sample samples.collections.Collections.Aggregates.scan\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun `<R>` UIntArray.scanIndexed(initial: `R`, operation: (index: Int, `acc`: `R`, UInt) -> `R`):\n    `List<`R`> {\n        return runningFoldIndexed(initial, operation)`R`\n    }\n* Returns a list containing successive accumulation values generated by applying [operation] \n* from left to right\n* to each element, its index in the original array and current accumulator value that starts with `[initial]` value.\n\n* Note that `'acc'` value passed to [operation] function should not be mutated;\n* otherwise it would affect the previous value in resulting list.\n\n* @param `[operation]` function that takes the index of an element, current accumulator value and the element itself, \n* and calculates the next accumulator value.\n* @sample samples.collections.Collections.Aggregates.scan\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun `<R>` ULongArray.scanIndexed(initial: `R`, operation: (index: Int, `acc`: `R`, ULong) -> `R`):\n    `List<`R`> {\n        return runningFoldIndexed(initial, operation)`R`\n    }\n* Returns a list containing successive accumulation values generated by applying [operation] \n* from left to right\n* to each element, its index in the original array and current accumulator value that starts with `[initial]` value.\n\n* Note that `'acc'` value passed to [operation] function should not be mutated;\n* otherwise it would affect the previous value in resulting list.\n\n* @param `[operation]` function that takes the index of an element, current accumulator value and the element itself, \n* and calculates the next accumulator value.\n* @sample samples.collections.Collections.Aggregates.scan\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun `<R>` UByteArray.scanIndexed(initial: `R`, operation: (index: Int, `acc`: `R`, UByte) -> `R`):\n    `List<`R`> {\n        return runningFoldIndexed(initial, operation)`R`\n    }\n* Returns a list containing successive accumulation values generated by applying [operation] \n* from left to right\n* to each element, its index in the original array and current accumulator value that starts with `[initial]` value.\n\n* Note that `'acc'` value passed to [operation] function should not be mutated;\n* otherwise it would affect the previous value in resulting list.\n\n* @param `[operation]` function that takes the index of an element, current accumulator value and the element itself, \n* and calculates the next accumulator value.\n* @sample samples.collections.Collections.Aggregates.scan\n*
@kotlin.internal.InlineOnly
    return runningFoldIndexed(initial, operation)
}

@Deprecated("Use runningReduceIndexed instead.", ReplaceWith("runningReduceIndexed(operation)"), level = DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.scanReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {
    return runningReduce(operation)
}

@Deprecated("Use runningReduceIndexed instead.", ReplaceWith("runningReduceIndexed(operation)"), level = DeprecationLevel.ERROR)
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.scanReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {
    return runningReduceIndexed(operation)
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @param selector The function used to compute the sum of the elements.
 * @return The sum of all values produced by the [selector] function.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumBy(selector: (UByte) -> UByte): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @param selector The function used to compute the sum of the elements.
 * @return The sum of all values produced by the [selector] function.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumBy(selector: (UShort) -> UShort): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
void UShortArray.sumBy(selector: (UShort) -> UInt) {
    var sum: UInt = 0u
    for (element in this) {
        sum += selector(element)
    } // Returns the sum of all values produced by [selector] function applied to each element in the array.
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumByDouble(selector: (UShort) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    } // Returns the sum of all values produced by [selector] function applied to each element in the array.
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumByDouble(selector: (UByte) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    } // Returns the sum of all values produced by [selector] function applied to each element in the array.
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumOf(selector: (UInt) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    } // Returns the sum of all values produced by [selector] function applied to each element in the array.
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    } // Returns the sum of all values produced by [selector] function applied to each element in the array.
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumOf(selector: (UByte) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    } // Returns the sum of all values produced by [selector] function applied to each element in the array.
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@ Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumOf(selector: (UShort) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    } // Returns the sum of all values produced by [selector] function applied to each element in the array.
}
array.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@LambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in
 * the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@LambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumOf(selector: (UByte) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in
 * the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@LambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfLong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumOf(selector: (UInt) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in
 * the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@LambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfLong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in
 * the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
@LambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumOf(selector: (UInt) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
```
the array.

```kotlin
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum +=
    } return sum
}
```

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumOf(selector: (UByte) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum +=
    } return sum
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumOf(selector: (UShort) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    for (element in this) {
        sum +=
    } return sum
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumOf(selector: (UInt) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum +=
    } return sum
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum +=
    } return sum
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumOf(selector: (UByte) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum +=
    } return sum
}

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumOf(selector: (UShort) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum +=
    } return sum
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

The returned list has length of the shortest collection. The returned list has length of the shortest collection.
```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> ULongArray.zip(other: Array<out R>): List<Pair<ULong, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterable
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterable
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UShortArray.zip(other: Array<out R>): List<Pair<UShort, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterable
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UIntArray.zip(other: Iterable<R>): List<Pair<UInt, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterable
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> ULongArray.zip(other: Iterable<R>): List<Pair<ULong, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterable
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterable
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UShort, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```
```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> { return zip(other) { t1, t2 -> t1 to t2 } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UShort, R>> { return zip(other) { t1, t2 -> t1 to t2 } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V> UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> { return zip(other, transform) { t1, t2 -> t1 to t2 } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V> ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> { return zip(other, transform) { t1, t2 -> t1 to t2 } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V> UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> { return zip(other, transform) { t1, t2 -> t1 to t2 } }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> { return zip(other, transform) { t1, t2 -> t1 to t2 } }
```

- The returned list has length of the shortest collection.
- The returned list has length of the shortest collection.
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- The returned list has length of the shortest collection.
shortest collection.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public infix fun UShortArray.zip(other: UShortArray):
List<Pair<USHort, UShort>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\}
*

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public inline fun <V> UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\}
*

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public inline fun <V> ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\}
*

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@@kotlin.internal.InlineOnly\@public inline fun <V> UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\}
*

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun <V> Array<out V>.sum(): V {\n    var sum: V = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\}
*

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun <V> Array<out V>.sum(): V {\n    var sum: V = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\}
*
fun UByteArray.sum(): UInt {
    return sumBy { it.toUInt() }
}

/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@noinport
fun UShortArray.sum(): UInt {
    return sumBy { it.toUInt() }
}

/**
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UCollectionsKt")

package kotlin.collections

import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns an array of UByte containing all of the elements of this collection.
 */
@noinport
fun Collection<UByte>.toUByteArray(): UByteArray {
    val result = UByteArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of UInt containing all of the elements of this collection.
 */
@noinport
fun Collection<UInt>.toUIntArray(): UIntArray {
    val result = UIntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of ULong containing all of the elements of this collection.
 */
@noinport
fun Collection<ULong>.toULongArray(): ULongArray {
    val result = ULongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of UShort containing all of the elements of this collection.
 */
@noinport
fun Collection<UShort>.toUShortArray(): UShortArray {
    val result = UShortArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns the sum of all elements in the collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

fun maxOf(a: UInt, b: UInt): UInt {
    return if (a >= b) a else b
}

fun maxOf(a: ULong, b: ULong): ULong {
    return if (a >= b) a else b
}

fun maxOf(a: UByte, b: UByte): UByte {
    return if (a >= b) a else b
}

fun maxOf(a: UShort, b: UShort): UShort {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@noinport
fun maxOf(a: ULong, b: ULong): ULong {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@noinport
fun maxOf(a: UByte, b: UByte): UByte {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@noinport
fun maxOf(a: UShort, b: UShort): UShort {
    return if (a >= b) a else b
}

fun maxOf(a: UInt, b: UInt, c: UInt): UInt {
    return maxOf(a, maxOf(b, c))
}

fun maxOf(a: ULong, b: ULong, c: ULong): ULong {
    return maxOf(a, maxOf(b, c))
}

fun maxOf(a: UByte, b: UByte, c: UByte): UByte {
    return maxOf(a, maxOf(b, c))
}

    return maxOf(a, maxOf(b, c))
}
values.

 *\@SinceKotlin("1.3.1")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n     return maxOf(a, maxOf(b, c))\n\n }\n
 *\@SinceKotlin("1.3.1")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n     return maxOf(a, maxOf(b, c))\n\n }\n
 *\@SinceKotlin("1.3.1")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {\n     return maxOf(a, maxOf(b, c))\n\n }\n
 *\@SinceKotlin("1.4")\@ExperimentalUnsignedTypes\public fun maxOf(a: UInt, vararg other: UInt): UInt {\n     var max = a \n     for (e in other) max = maxOf(max, e)\n     return max\n\n }\n
 *\@SinceKotlin("1.4")\@ExperimentalUnsignedTypes\public fun maxOf(a: ULong, vararg other: ULong): ULong {\n     var max = a \n     for (e in other) max = maxOf(max, e)\n     return max\n\n }\n
 *\@SinceKotlin("1.4")\@ExperimentalUnsignedTypes\public fun maxOf(a: UByte, vararg other: UByte): UByte {\n     var max = a \n     for (e in other) max = maxOf(max, e)\n     return max\n\n }\n
 *\@SinceKotlin("1.4")\@ExperimentalUnsignedTypes\public fun maxOf(a: UShort, vararg other: UShort): UShort {\n     var max = a \n     for (e in other) max = maxOf(max, e)\n     return max\n\n }\n
 *\@SinceKotlin("1.3.1")\@ExperimentalUnsignedTypes\public fun minOf(a: UInt, b: UInt): UInt {\n     if (a <= b) a else b\n\n }\n
 *\@SinceKotlin("1.3.1")\@ExperimentalUnsignedTypes\public fun minOf(a: ULong, b: ULong): ULong {\n     if (a <= b) a else b\n\n }\n
 *\@SinceKotlin("1.3.1")\@ExperimentalUnsignedTypes\public fun minOf(a: UByte, b: UByte): UByte {\n     if (a <= b) a else b\n\n }\n
 *\@SinceKotlin("1.3.1")\@ExperimentalUnsignedTypes\public fun minOf(a: UShort, b: UShort): UShort {\n     if (a <= b) a else b\n\n }\n
 *\@SinceKotlin("1.3.1")\@ExperimentalUnsignedTypes\public fun minOf(a: Int, b: Int): Int {\n     if (a <= b) a else b\n\n }\n
 *\@SinceKotlin("1.3.1")\@ExperimentalUnsignedTypes\public fun minOf(a: Long, b: Long): Long {\n     if (a <= b) a else b\n\n }\n
 *\@SinceKotlin("1.3.1")\@ExperimentalUnsignedTypes\public fun minOf(a: Byte, b: Byte): Byte {\n     if (a <= b) a else b\n\n }\n
 *\@SinceKotlin("1.3.1")\@ExperimentalUnsignedTypes\public fun minOf(a: Short, b: Short): Short {\n     if (a <= b) a else b\n\n }\n
 *\@SinceKotlin("1.3.1")\@kotlin.internal.InlineOnly\public inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n     return minOf(a, minOf(b, c))\n\n }\n
 *\@SinceKotlin("1.3.1")\@kotlin.internal.InlineOnly\public inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n     return minOf(a, minOf(b, c))\n\n }\n
 *\@SinceKotlin("1.3.1")\@kotlin.internal.InlineOnly\public inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {\n     return minOf(a, minOf(b, c))\n\n }\n
 *\@SinceKotlin("1.3.1")\@kotlin.internal.InlineOnly\public inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n     return minOf(a, minOf(b, c))\n\n }\n
 *\@SinceKotlin("1.4")\@ExperimentalUnsignedTypes\public fun minOf(a: UInt, vararg other: UInt): UInt {\n     var min = a \n     for (e in other) min = minOf(min, e)\n     return min\n\n }\n
 *\@SinceKotlin("1.4")\@ExperimentalUnsignedTypes\public fun minOf(a: ULong, vararg other: ULong): ULong {\n     var min = a \n     for (e in other) min = minOf(min, e)\n     return min\n\n }\n
 *\@SinceKotlin("1.4")\@ExperimentalUnsignedTypes\public fun minOf(a: UByte, vararg other: UByte): UByte {\n     var min = a \n     for (e in other) min = minOf(min, e)\n     return min\n\n }\n
 *\@SinceKotlin("1.4")\@ExperimentalUnsignedTypes\public fun minOf(a: UShort, vararg other: UShort): UShort {\n     var min = a \n     for (e in other) min = minOf(min, e)\n     return min\n\n }\n
  Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors. \n  Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. \n
 *\@file:kotlin.jvm.JvmMultifileClass\@file:kotlin.jvm.JvmName("URangesKt")\@package kotlin.ranges\@\@ Notes: This file is auto-generated by the GenerateStandardLib.kt file. See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib/\@\@nimport kotlin.random.\n\n *\@n\n
random element from this range.

* @throws IllegalArgumentException if this range is empty.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UIntRange.random(): UInt
* {
*     return random(Random())
* }

** Returns a random element from this range using the specified source of randomness.

* @throws IllegalArgumentException if this range is empty.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public fun UIntRange.random(random: Random): UInt
* {
*     try {
*         return random.nextUInt(this)
*     } catch(e: IllegalArgumentException) {
*         throw NoSuchElementException(e.message)
*     }
*
* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public fun UIntRange.randomOrNull(random: Random): UInt?
* {
*     return randomOrNull(Random())
* }

** Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public fun UIntRange.contains(value: UByte): Boolean
* {
*     return contains(value.toUInt())
* }

** Checks if the specified [value] belongs to this range.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public operator fun UIntRange.contains(element: UInt?): Boolean
* {
*     return element != null && contains(element)
* }

** Returns `true` if this range contains the specified [element].

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public fun ULongRange.random(): ULong
* {
*     return random(Random())
* }

** Returns a random element from this range using the specified source of randomness.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public fun ULongRange.random(random: Random): ULong
* {
*     try {
*         return random.nextULong(this)
*     } catch(e: IllegalArgumentException) {
*         throw NoSuchElementException(e.message)
*     }
*
* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public fun ULongRange.randomOrNull(random: Random): ULong?
* {
*     return randomOrNull(Random())
* }

** Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public operator fun ULongRange.contains(value: UByte): Boolean
* {
*     return contains(value.toULong())
* }

** Checks if the specified [value] belongs to this range.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public operator fun ULongRange.contains(element: ULong?): Boolean
* {
*     return element != null && contains(element)
* }

** Returns `true` if this range contains the specified [element].

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public function ULongRange.contains(value: UByte): Boolean
* {
*     return contains(value.toULong())
* }

** Checks if the specified [value] belongs to this range.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public function ULongRange.contains(value: ULong): Boolean
* {
*     return (value shr UInt.SIZE_BITS) == 0uL && contains(value.toUInt())
* }

** Checks if the specified [value] belongs to this range.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* public function ULongRange.contains(value: UShort): Boolean
* {
*     return contains(value.toUInt())
* }

** Checks if the specified [value] belongs to this range.
range.

*Ún@SinceKotlin("1.3")û@ExperimentalUnsignedTypes\public operator fun
ULongRange.contains(value: UShort): Boolean {û return contains(value.toULong(1))û \nû/**\nû * Returns a
progression from this value down to the specified \[to\] value with the step -1.û \nû */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\public infix fun UByte.downTo(to: UByte):
UIntProgression {û return UIntProgression.fromClosedRange(this.toUInt(1), to.toUInt(1), -1)û \nû/**\nû * Returns a
progression from this value down to the specified \[to\] value with the step -1.û \nû */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\public infix fun UIntRange.fromClosedRange(this, to: UInt):
UIntProgression {û return UIntProgression.fromClosedRange(this.toUInt(1), to.toUInt(1), -1)û \nû/**\nû * Returns a
progression from this value down to the specified \[to\] value with the step -1.û \nû */
```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UInt.coerceAtLeast(minimumValue: UInt): UInt {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not less than the specified [minimumValue].
 * 
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * 
 * @sample samples.ComparableOps.coerceAtLeast
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceAtLeast(minimumValue: ULong): ULong {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not less than the specified [minimumValue].
 * 
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * 
 * @sample samples.ComparableOps.coerceAtLeast
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByte.coerceAtLeast(minimumValue: UByte): UByte {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not less than the specified [minimumValue].
 * 
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * 
 * @sample samples.ComparableOps.coerceAtLeast
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShort.coerceAtLeast(minimumValue: UShort): UShort {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.ComparableOps.coerceAtMost
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UInt.coerceAtMost(maximumValue: UInt): UInt {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.ComparableOps.coerceAtMost
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceAtMost(maximumValue: ULong): ULong {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.ComparableOps.coerceAtMost
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByte.coerceAtMost(maximumValue: UByte): UByte {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.ComparableOps.coerceAtMost
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShort.coerceAtMost(maximumValue: UShort): UShort {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value lies in the specified range [minimumValue]..<maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.ComparableOps.coerceIn
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    return if (this < minimumValue) minimumValue
        else if (this > maximumValue) maximumValue
        else this
}
```

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public fun ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range [minimumValue].
 * @return this if it's in the range, or [minimumValue] if this value is less than [minimumValue],
 * or [maximumValue] if this value is greater than [maximumValue].
 * @sample samples.comparisons.ComparableOps.coerceInUnsigned
 */
public fun UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * @return this if it's in the range, or [minimumValue] if this value is less than [minimumValue],
 * or [maximumValue] if this value is greater than [maximumValue].
 * @sample samples.comparisons.ComparableOps.coerceInUnsigned
 */
public fun UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified [range].
 * @return this if it's in the range, or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.
 * @sample samples.comparisons.ComparableOps.coerceInUnsigned
 */
public fun UInt.coerceIn(range: ClosedRange<UInt>): UInt {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<UInt>(range)
    }
    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this > range.endInclusive -> range.endInclusive
        else -> this
    }
}

/**
 * Ensures that this value lies in the specified [range].
 * @return this if it's in the range, or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.
 * @sample samples.comparisons.ComparableOps.coerceInUnsigned
 */
public fun ULong.coerceIn(range: ClosedRange<ULong>): ULong {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<ULong>(range)
    }
    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this > range.endInclusive -> range.endInclusive
        else -> this
    }
}

public fun Sequence<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

public fun Sequence<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}
```kotlin
@kotlin.jvm.JvmName("sumOfUByte")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Sequence<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfUShort")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Sequence<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/*
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 */

package kotlin

public expect open class Error : Throwable {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class Exception : Throwable {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class RuntimeException : Exception {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class IllegalArgumentException : RuntimeException {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class IllegalStateException : RuntimeException {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class IndexOutOfBoundsException : RuntimeException {
    constructor()
    constructor(message: String?)
}

public expect open class ConcurrentModificationException : RuntimeException {
    constructor()
    constructor(message: String?)
    @Deprecated("The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)
    constructor(message: String?, cause: Throwable?)
    @Deprecated("The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)
    constructor(cause: Throwable?)
}

public expect open class UnsupportedOperationException : RuntimeException {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class NumberFormatException : IllegalArgumentException {
    constructor()
    constructor(message: String?)
}

public expect open class NullPointerException : RuntimeException {
    constructor()
    constructor(message: String?)
}

public expect open class ClassCastException : RuntimeException {
    constructor()
    constructor(message: String?)
}

public expect open class AssertionError : Error {
    constructor()
    constructor(message: Any?)
}

@SinceKotlin("1.4")
@PublishedApi
internal class KotlinNothingValueException : RuntimeException {
    constructor() : super()
    constructor(message: String?) : super(message)
    constructor(message: String?, cause: Throwable?) : super(message, cause)
}

private fun _terminal_

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UByte>.sum(): UInt {
    var sum: UInt = 0u\n    for (element in this) {
        sum += element\n    }\n    return sum\n}

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UShort>.sum(): UInt {
    var sum: UInt = 0u\n    for (element in this) {
        sum += element\n    }\n    return sum\n}

/*
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 *
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 */

package kotlin

public expect open class Error : Throwable {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class Exception : Throwable {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class RuntimeException : Exception {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class IllegalArgumentException : RuntimeException {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class IllegalStateException : RuntimeException {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class IndexOutOfBoundsException : RuntimeException {
    constructor()
    constructor(message: String?)
}

public expect open class ConcurrentModificationException : RuntimeException {
    constructor()
    constructor(message: String?)
    @Deprecated("The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)
    constructor(message: String?, cause: Throwable?)
    @Deprecated("The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)
    constructor(cause: Throwable?)
}

public expect open class UnsupportedOperationException : RuntimeException {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

public expect open class NumberFormatException : IllegalArgumentException {
    constructor()
    constructor(message: String?)
}

public expect open class NullPointerException : RuntimeException {
    constructor()
    constructor(message: String?)
}

public expect open class ClassCastException : RuntimeException {
    constructor()
    constructor(message: String?)
}

public expect open class AssertionError : Error {
    constructor()
    constructor(message: Any?)
}

@SinceKotlin("1.4")
@PublishedApi
internal class KotlinNothingValueException : RuntimeException {
    constructor() : super()
    constructor(message: String?) : super(message)
    constructor(message: String?, cause: Throwable?) : super(message, cause)
}
```

---

Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 63420
The collection is covariant in its element type.\n */\n
public interface Collection<out E> : Iterable<E> { \n
// Query Operations\n */\n
* Returns the size of the collection.\n */\n
public val size: Int\n */\n
* Returns `true` if the collection is empty (contains no elements), `false` otherwise.\n */\n
public fun isEmpty(): Boolean\n */\n
* Checks if the specified element is contained in this collection.\n */\n
public operator fun contains(element: @UnsafeVariance E): Boolean\n */\n
* Override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n */\n
* A generic collection of elements that supports adding and removing elements.\n */\n
* Adds the specified element to the end of this list.\n */\n
* @return `true` if the element has been added, `false` if the collection does not support duplicates\n * and the element is already contained in the collection.\n */\n
* Remove fun add(element: E): Boolean\n */\n
* Removes a single instance of the specified element from this collection, if it is present.\n */\n
* @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\n */\n
* Remove fun removeAll(elements: Collection<E>): Boolean\n */\n
* Adds all of the elements of the specified collection to this collection.\n */\n
* @return `true` if any of the specified elements was added to the collection, `false` if the collection was not modified.\n */\n
* public fun addAll(elements: Collection<E>): Boolean\n */\n
* Adds all of the elements of the specified collection to the collection.\n */\n
* @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\n */\n
* public fun removeAll(elements: Collection<E>): Boolean\n */\n
* Removes all of this collection's elements that are also contained in the specified collection.\n */\n
* @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\n */\n
* public fun clear(): Unit\n
// Search Operations\n */\n
* Checks if all elements in the specified collection are contained in this collection.\n */\n
* ContainsAll(elements: Collection<@UnsafeVariance E>): Boolean\n */\n
* ContainsAll(elements: Collection<@UnsafeVariance E>): Boolean\n */\n
// Modification Operations\n */\n
* * Adds the specified element to the end of this list.\n */\n
* @return `true` because the list is always modified as the result of this operation.\n */\n
* Override fun add(element: E): Boolean\n */\n
* Override fun remove(element: E):
internal class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {
    private var finalElement = last.toInt()
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else last
    override fun hasNext(): Boolean = hasNext
    override fun nextInt(): Int {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
            return value
        }
        else {
            next += step
        }
        return value
    }
}

internal class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {
    private var finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement
    override fun hasNext(): Boolean = hasNext
    override fun nextLong(): Long {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
            return value
        }
        else {
            next += step
        }
        return value
    }
}

internal class CharProgressionIterator(first: Char, last: Char, val step: Int) :
    CharIterator() {
    private var finalElement = last.toInt()
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement
    override fun hasNext(): Boolean = hasNext
    override fun nextChar(): Char {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
            return value
        }
        else {
            next += step
        }
        return value.toChar()
    }
}

internal class CharProgressionIterator(first: Char, last: Char, val step: Int) : CharIterator() {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement
    override fun hasNext(): Boolean = hasNext
    override fun nextChar(): Char {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
            return value
        }
        else {
            next += step
        }
        return value.toChar()
    }
}

internal class IntProgressionIterator(first: Int, last: Int, val step: Int) :
    IntIterator() {
    private var finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement
    override fun hasNext(): Boolean = hasNext
    override fun nextInt(): Int {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
            return value
        }
        else {
            next += step
        }
        return value
    }
}

internal class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {
    private var finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement
    override fun hasNext(): Boolean = hasNext
    override fun nextLong(): Long {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
            return value
        }
        else {
            next += step
        }
        return value
    }
}

internal class CharProgressionIterator(first: Char, last: Char, val step: Int) :
    CharIterator() {
    private var finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement
    override fun hasNext(): Boolean = hasNext
    override fun nextChar(): Char {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
            return value
        }
        else {
            next += step
        }
        return value.toChar()
    }
}

internal class IntProgressionIterator(first: Int, last: Int, val step: Int) :
    IntIterator() {
    private var finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement
    override fun hasNext(): Boolean = hasNext
    override fun nextInt(): Int {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
            return value
        }
        else {
            next += step
        }
        return value
    }
}

internal class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {
    private var finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement
    override fun hasNext(): Boolean = hasNext
    override fun nextLong(): Long {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
            return value
        }
        else {
            next += step
        }
        return value
    }
}

internal class CharProgressionIterator(first: Char, last: Char, val step: Int) :
    CharIterator() {
    private var finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement
    override fun hasNext(): Boolean = hasNext
    override fun nextChar(): Char {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
            return value
        }
        else {
            next += step
        }
        return value.toChar()
    }
}
isEmpty(): Boolean = if (step > 0) first > last else first < last
override fun equals(other: Any?): Boolean =
other is IntProgression && (isEmpty()) && other.isEmpty() ||
first == other.first && last == other.last &&
step == other.step
override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step $-step"

companion object {
/**
 * Creates IntProgression within the specified bounds of a closed range
 */
    public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd, step)
}

/**
 * A progression of values of type `Long`.
 */
public open class LongProgression
    internal constructor
        (start: Long, endInclusive: Long, step: Long) :
                Iterable<Long> {
    init {
        if (step == 0L) throw kotlin.IllegalArgumentException("Step must be non-zero.")
        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Long.MIN_VALUE to avoid overflow on negation.")
    }

    /**
     * The first element in the progression.
     */
    public val first: Long = start

    /**
     * The last element in the progression.
     */
    public val last: Long = getProgressionLastElement(start.toLong(), endInclusive.toLong(), step).toLong()

    /**
     * The step of the progression.
     */
    public val step: Long = step

    override fun iterator(): LongIterator = LongProgressionIterator(first, last, step)

    /** Checks if the progression is empty. */
    public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last

    override fun equals(other: Any?): Boolean =
other is LongProgression && (isEmpty() && other.isEmpty() ||
        first == other.first && last == other.last &&
step == other.step)

    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()

    override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"

    companion object {
        /**
         * Creates LongProgression within the specified bounds of a closed range.
         */
        public fun fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)
    }

    /**
     * The minimum value in the range (inclusive).
     */
    public val start: Long

    /**
     * The maximum value in the range.
     */
    public val endInclusive: Long

    /**
     * Checks whether the specified [value] belongs to the range.
     */
    public operator fun contains(value: Long): Boolean = value >= start && value <= endInclusive

    /**
     * Checks whether the range is empty.
     */
    public fun isEmpty(): Boolean = start > endInclusive

    /**
     * Checks whether the specified [value] belongs to the range.
     */
    public fun public operator fun contains(value: T): Boolean = value >= start && value <= endInclusive

    /**
     * Checks whether the range is empty.
     */
    public fun isEmpty(): Boolean = start > endInclusive

    /**
     * Checks whether the specified [value] belongs to the range.
     */
    public fun public operator fun contains(value: T): Boolean = value >= start && value <= endInclusive

    /**
     * Checks whether the range is empty.
     */
    public fun isEmpty(): Boolean = start > endInclusive

    companion object {
        /**
         * Represents a range of values (for example, numbers or characters).
         */
        public interface ClosedRange<T: Comparable<T>> {

            /**
             * The minimum value in the range.
             */
            public val start: T

            /**
             * The maximum value in the range (inclusive).
             */
            public val endInclusive: T

            /**
             * Checks whether the specified [value] belongs to the range.
             */
            public operator fun contains(value: T): Boolean

            /**
             * Checks whether the range is empty.
             */
            public fun isEmpty(): Boolean

            /**
             * Represents a range of values (for example, numbers or characters).
             */
            public interface
        }

        /**
         * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.
         */
        public object Unit {
            override fun toString() = "kotlin.Unit"
        }

    }

    companion object {
        /**
         * Represents a range of values (for example, numbers or characters).
         */
        public interface
    }

    /**
     * Represents a range of values (for example, numbers or characters).
     */
    public interface

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package kotlin.annotation

import kotlin.annotation.AnnotationTarget.*

/**
 * Contains the list of code elements which are the possible annotation targets\n *\n * Class, interface or object, annotation class is also included\n *\n * Annotation class only\n *\n * ANNOTATION_CLASS,\n *\n * Generic type parameter (unsupported yet)\n *\n * Property\n *\n * FIELD,\n *\n * Local variable\n *\n * VALUE_PARAMETER,\n *\n * Constructor only (primary or secondary)\n *\n * Function (constructors are not included)\n *\n * PROPERTY_GETTER,\n *\n * Property setter only\n *\n * TYPE,\n *\n * Any expression\n *\n * File\n *\n * Type alias\n *
 *
 */

package kotlin.internal

/**
 * Specifies that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks\n * That means it's completely safe to use generic types as argument for such parameter.\n */
@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PureReifiable

/**
 * Specifies that the corresponding built-in method exists depending on platform.\n *\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the\n *\n * module JDK.\n *\n */
@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PlatformDependent\n
/**
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
private fun mod(a: Int, b: Int): Int {
    val mod = a % b
    return if (mod >= 0) mod else mod + b
}

private fun mod(a: Long, b: Long): Long {
    val mod = a % b
    return if (mod >= 0) mod else mod + b
}

private fun differenceModulo(a: Int, b: Int, c: Int): Int {
    return mod(mod(a, c) - mod(b, c), c)
}

private fun differenceModulo(a: Long, b: Long, c: Long): Long {
    return mod(mod(a, c) - mod(b, c), c)
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range \([\text{start}]\) to \([\text{end}]\) in case of a positive \([\text{step}]\), or from \([\text{end}]\) to \([\text{start}]\) in case of a negative \([\text{step}]\).
 * No validation on passed parameters is performed. The given parameters should satisfy the condition: \(\text{step} > 0\) or \(\text{step} < 0\) and \(\text{start} <= \text{end}\). \(\text{step} \neq 0\) \(\mod\) \(\text{step}\).
 * @param start first element of the progression\(\text{start}\) @param end ending bound for the progression\(\text{end}\) @param step increment, or difference of successive elements in the progression\(\text{step}\) @return the final element of the progression\(\text{return}\)
 */
@Suppress("UnstableApi")
private fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, step)
    else -> throw IllegalArgumentException("Step is zero.")
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range \([\text{start}]\) to \([\text{end}]\) in case of a positive \([\text{step}]\), or from \([\text{end}]\) to \([\text{start}]\) in case of a negative \([\text{step}]\).
 * No validation on passed parameters is performed. The given parameters should satisfy the condition: \(\text{step} > 0\) or \(\text{step} < 0\) and \(\text{start} <= \text{end}\).
 * @param start first element of the progression\(\text{start}\) @param end ending bound for the progression\(\text{end}\) @param step increment, or difference of successive elements in the progression\(\text{step}\) @return the final element of the progression\(\text{return}\)
 */
@Suppress("UnstableApi")
private fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, step)
    else -> throw IllegalArgumentException("Step is zero.")
}

fun arrayIterator(array: Any?, type: String?) = when (type) {
    null -> {
        val arr: Array<Any?> = array
        object : Iterator<Any?> {
            var index = 0
            override fun hasNext() = index < arr.size
            override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("$index")
        }
    }
    "BooleanArray" -> booleanArrayIterator(array)
    "ByteArray" -> byteArrayIterator(array)
    "ShortArray" -> shortArrayIterator(array)
    "CharArray" -> charArrayIterator(array)
    "IntArray" -> intArrayIterator(array)
    "LongArray" -> longArrayIterator(array)
    "FloatArray" -> floatArrayIterator(array)
    "DoubleArray" -> doubleArrayIterator(array)
    else -> throw IllegalStateException("Unsupported type argument for arrayIterator: $type")
}

fun booleanArrayIterator(array: BooleanArray) = object : BooleanIterator {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextBoolean() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

fun byteArrayIterator(array: ByteArray) = object : ByteIterator {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextByte() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

fun shortArrayIterator(array: ShortArray) = object : ShortIterator {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextShort() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

fun charArrayIterator(array: CharArray) = object : CharIterator {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextChar() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

fun intArrayIterator(array: IntArray) = object : IntIterator {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextInt() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

fun longArrayIterator(array: LongArray) = object : LongIterator {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextLong() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

fun floatArrayIterator(array: FloatArray) = object : FloatIterator {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextFloat() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

fun doubleArrayIterator(array: DoubleArray) = object : DoubleIterator {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextDouble() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}
to be slice’d here because of Rhino (see KT-16974)\n*\n\n\n\n\n```kotlin
internal fun charArrayOf() = withType("CharArray", js("new Uint16Array([].slice.call(arguments)).constructor").@JsName("withType")@kotlin.internal.InlineOnly\n\ninternal inline fun withType(type: String, array: dynamic): dynamic {\n    array.`$type$` = type
    return array\n},"*/\n* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n*\npackage kotlin.js\n*\n* Function corresponding to JavaScript’s `typeof` operator\n*\n@kotlin.internal.InlineOnly\n@Suppress("UNUSED_PARAMETER")\n\npackage kotlin
*\n\n\n```
public fun intercepted(): Continuation<Any?> =
    doResume()

override fun resumeWith(result: Result<*>?) =
    if (result == null) currentResult
    else {
        currentResult = result
        currentException = result.exceptionOrNull()
    }

fun error(message: String) =
    throw Error(message)

fun check(condition: Boolean, message: String) =
    if (!condition) error(message)

class Result<*> {
    constructor(value: T) :
        super
    
    // value & exception union that encapsulates a successful outcome with a value of type [T]
    // or a failure with an arbitrary [Throwable]

    class Error(message: String) : Result<*> {
        constructor(message: String) : super(message)
    }

    companion object {
        fun <T> try(block: suspend() -> T): Result<T> {
            return try {
                block()
            } catch (e: Throwable) {
                Result.failure(e)
            }
        }

        fun <T> catch(block: suspend() -> T): Result<T> {
            return try {
                block()
            } catch (e: Throwable) {
                Result.failure(e)
            }
        }
    }

    val isSuccess: Boolean get() = value !is Failure
    val isFailure: Boolean get() = value is Failure
    val exception: Throwable? get() = value.exceptionOrNull()
    val value: T? get() = value.getOrNull()

    operator fun invoke(): T = value
    operator fun invoke(default: T): T = default

    operator fun plus(default: T): T = default
    operator fun times(default: T): T = default
    operator fun minus(default: T): T = default
    operator fun div(default: T): T = default
    operator fun rem(default: T): T = default

    override fun equals(other: Any?): Boolean = if (other is Result) {
        value == other.value
    }

    override fun hashCode(): Int = value.hashCode()

    override fun toString(): String = value.toString()
}

/**
 * Returns an instance that encapsulates the given [value] as successful value.
 */
@Suppress("INAPPLICABLE_JVM_NAME")
@InlineOnly
@JvmName("success")
public inline fun <T> success(value: T): Result<T> =
    Result(value)

/**
 * Returns an instance that encapsulates the given [Throwable] exception as failure.
 */
@Suppress("INAPPLICABLE_JVM_NAME")
@InlineOnly
@JvmName("failure")
public inline fun <T> failure(exception: Throwable): Result<T> =
    Result(createFailure(exception))

internal class Failure(
        @JvmField
        val exception: Throwable
    ) : Serializable {
        override fun equals(other: Any?): Boolean = other is Failure && exception == other.exception
        override fun hashCode(): Int = exception.hashCode()
        override fun toString(): String = "Failure($exception)"
    }

/**
 * Creates an instance of internal marker [Result.Failure] class to make sure that this class is not exposed in ABI.
 */
@PublishedApi
@SinceKotlin("1.3")
internal fun createFailure(exception: Throwable): Any =
    Result.Failure(exception)

/**
 * Throws exception if the result is failure. This internal function minimizes inline bytecode for [getOrThrow] and makes sure that in the future we can't add some exception-augmenting logic here (if needed).
 */
@PublishedApi
@SinceKotlin("1.3")
internal fun Result<*>.throwOnFailure() {
    if (value is Result.Failure) throw value.exception
}

/**
 * Calls the specified function [block] and returns its encapsulated result if invocation was successful, creating a failure.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R> runCatching(block: () -> R): Result<R> {
    return try {
        Result.success(block())
    } catch (e: Throwable) {
        Result.failure(e)
    }
}

/**
 * Calls the specified function [block] with `this` value as its receiver and returns its encapsulated result if invocation was successful, catching any [Throwable] exception that was thrown from the [block] function execution and encapsulating it as a failure.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {
    return try {
        Result.success(block())
    } catch (e: Throwable) {
        Result.failure(e)
    }
}

// extensions ---

/**
 * Returns the encapsulated value if this instance represents [success] or throws the encapsulated [Throwable] exception if it is [failure].
 *
 * This function is a shorthand for `getOrElse { throw it }` (see [getOrElse]).
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.getOrThrow(): T {
    throwOnFailure()
    return value as T
}

/**
 * Returns the encapsulated value if this instance represents [success] or the result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure].
 *
 * This function rethrows any [Throwable] exception thrown by [onFailure] function.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T : R> Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {
    contract {
        callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> onSuccess(value as T)
        else -> onFailure(exception)
    }
}

/**
 * Returns the encapsulated value if this instance represents [success] or the default value if it is [failure].
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.getOrDefault(defaultValue: R): R {
    if (isFailure) return defaultValue
    return value as T
}

/**
 * Returns the result of [onSuccess] for the encapsulated value if this instance represents [success] or the result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure].
 *
 * This function rethrows any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.fold(
        onSuccess: (value: T) -> R,
        onFailure: (exception: Throwable) -> R
): R {
    contract {
        callsInPlace(onSuccess, InvocationKind.AT_MOST_ONCE)
        callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> onSuccess(value as T)
        else -> onFailure(exception)
    }
}
rethrows any [Throwable] exception thrown by [transform] function.

* See [mapCatching] for an alternative that encapsulates exceptions.

*@n@InlineOnly@n@SinceKotlin("1.3")*public inline fun <R, T>
Result<T>.map(transform: (value: T) -> R): Result<R> {

    contract {
        callsInPlace(transform,
        InvocationKind.AT_MOST_ONCE)
    }
    return when (isSuccess) {
        when (value) {
            invoke { transform(value) }
        } else -> transform(value)
    }
}

/**
 * Returns the encapsulated result of the given [transform] function applied to the
 * encapsulated value or exception if it is a failure.
 *
 * This function catches any [Throwable] exception thrown by [transform] function and
 * encapsulates it as a failure.
 * See [map] for an alternative that rethrows exceptions from `transform` function.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T>
Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {
    contract {
        callsInPlace(transform,
        InvocationKind.AT_MOST_ONCE)
    }
    return when (isSuccess) {
        when (value) {
            invoke { transform(value) }
        } else -> transform(value)
    }
}

/**
 * Performs the given [action] on the encapsulated [Throwable] exception if this instance
 * represents a failure.
 * Returns the original `Result` unchanged.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {
    contract {
        callsInPlace(action,
        InvocationKind.AT_MOST_ONCE)
    }
    exceptionOrNull()?.let { action(it) }
    return this
}

/**
 * Performs the given [action] on the encapsulated value if this instance represents a
 * success.
 * Returns the original `Result` unchanged.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {
    contract {
        callsInPlace(action,
        InvocationKind.AT_MOST_ONCE)
    }
    if (isSuccess) action(value)
    return this
}

// -------------------

// "peek" onto value/exception and pipe

/**
 * Performs the given [action] on the encapsulated [Throwable] exception if this instance
 * represents a failure.
 * Returns the original `Result` unchanged.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {
    contract {
        callsInPlace(transform,
        InvocationKind.AT_MOST_ONCE)
    }
    return when (exception) {
        invoke { transform(exception) }
    }
}

/**
 * Performs the given [action] on the encapsulated value if this instance represents a
 * success.
 * Returns the original `Result` unchanged.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {
    contract {
        callsInPlace(transform,
        InvocationKind.AT_MOST_ONCE)
    }
    return when (exceptionOrNull()) {
        invoke { transform(exception) }
    }
}

// -------------------

// "peek" onto value/exception and pipe
[value] as the return value of the last suspension point.

*/
@SinceKotlin("1.3")
@InlineOnly
public inline fun <T> Continuation<T>.resume(value: T): Unit =
    resumeWith(Result.success(value))

/**
 * Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the
 * last suspension point.
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =
    resumeWith(Result.failure(exception))

/**
 * Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun <T, R> Continuation(
    context: CoroutineContext,
    crossinline resumeWith: (Result<T>) -> Unit
): Continuation<T> =
    object : Continuation<T> {
        override val context: CoroutineContext
            get() = context

        override fun resumeWith(result: Result<T>) =
            resumeWith(result)

    }

/**
 * Starts a coroutine without a receiver and with result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <T> (suspend () -> T).startCoroutine(
    completion: Continuation<T>
) {
    createCoroutineUnintercepted(completion).intercepted().resume(Unit)
}

/**
 * Starts a coroutine with receiver type [R] and result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * The [completion] continuation is invoked when the coroutine completes with a result or an exception.
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <R, T> (suspend R.() -> T).startCoroutine(
    receiver: R,
    completion: Continuation<T>
) {
    createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)
}

/**
 * Obtains the current continuation instance inside suspend functions and suspends
 * the currently running coroutine. Subsequent invocation of any resume function will produce an
 * [IllegalStateException].
 */
@SinceKotlin("1.3")
@InlineOnly
public suspend inline fun <T> suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {
    contract { callsInPlace(block, InvocationKind.EXACTLY_ONCE) }
    return suspendCoroutineUninterceptedOrReturn { c: Continuation<T> ->
        val safe = SafeContinuation(c.intercepted())
        block(safe)
        safe.getOrThrow()
    }
}

/**
 * Returns the context of the current coroutine.
 */
@SinceKotlin("1.3")
@Suppress("WRONG_MODIFIER_TARGET")
@InlineOnly
public suspend inline val coroutineContext: CoroutineContext
    get() {
        throw NotImplementedError("Implemented as intrinsic")
    }

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Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first suspension.

Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends. In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception. The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might have been present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established.

This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended coroutine using a reference to the suspending function.

Starts an unintercepted coroutine with receiver type [R] and result type [T] and executes it until its first suspension. Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends. In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.

This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended coroutine using a reference to the suspending function.

This function creates a new, fresh instance of suspendable computation every time it is invoked.

This function returns unintercepted continuation. Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established.

Note that [completion] of this function may get invoked in an arbitrary context. [Completion.intercepted] can be used to acquire the intercepted continuation. Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of the coroutine and [completion] happens in the invocation context established by [suspendCoroutineUninterceptedOrReturn]. Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

This function creates a new, fresh instance of suspendable computation every time it is invoked. To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation].

This function returns unintercepted coroutine with receiver type [R] and result type [T]. This function creates a new, fresh instance of suspendable computation every time it is invoked. To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation].
may get invoked in an arbitrary context. Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and [completion] happens in the invocation context established by this [createCoroutineUnintercepted]. Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```kotlin
@SinceKotlin("1.3")
public actual fun <R, T>(suspend R.() -> T).createCoroutineUnintercepted(
    receiver: R,
    completion: Continuation<T>):
    Continuation<Unit> =
    // Kotlin/JS suspend lambdas have an extra parameter `suspended`
    if (this.asDynamic().length == 3) {
        // When `suspended` is true the continuation is created, but not executed
        this.asDynamic()(receiver, completion, true)
    } else {
        createCoroutineFromSuspendFunction(completion)
    }
```

```kotlin
/**
 * Intercepts this continuation with [ContinuationInterceptor].
 *
 * This function shall be used on the immediate result of [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn], in which case it checks for [ContinuationInterceptor] in the continuation's context. If `continuation` invokes [ContinuationInterceptor.intercepted], caches and returns the result. If this function is invoked on other [Continuation] instances it returns `this` continuation unchanged.

```kotlin
@SinceKotlin("1.3")
public actual fun <T> Continuation<T>.intercepted(): Continuation<T> =
    (this as? CoroutineImpl)?.intercepted() ?:
    this
```

```kotlin
private inline fun <T> createCoroutineFromSuspendFunction(
    completion: Continuation<T>,
    crossinline block: () -> Any?)
: Continuation<Unit> {
    @Suppress("UNCHECKED_CAST")
    return object
        : CoroutineImpl(completion as Continuation<Any?>) {
            override fun doResume(): Any? {
                exception?.let { throw it }
                return block()
            }
        }
}
```

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 */

package kotlin.js

// Mirrors signature from JS IR
@library
@JsName("imulEmulated")
internal fun imul(x: Int, y: Int): Int = definedExternally

internal inline fun isArrayish(o: dynamic) =
    js("Kotlin").isArrayish(o)
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {
    actual constructor() : this(null, null)
    actual constructor(message: String?) : this(message, null)
    actual constructor(cause: Throwable?) : this(cause)
}

public actual open class UnsupportedOperationException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {
    actual constructor() : this(null, null)
    actual constructor(message: String?) : this(message, null)
    actual constructor(cause: Throwable?) : this(cause)
}

public actual open class NumberFormatException actual constructor(message: String?) : IllegalArgumentException(message) {
    actual constructor() : this(message)
}

public actual open class NullPointerException actual constructor(message: String?) : RuntimeException(message) {
    actual constructor() : this(message)
}

public actual open class ClassCastException actual constructor(message: String?) : RuntimeException(message) {
    actual constructor() : this(message)
}

public actual open class AssertionError
@SinceKotlin("1.4")
constructor(message: String?, cause: Throwable?) : Error(message, cause) {
    actual constructor() : this(message, cause)
    constructor(message: Any?) : this(message.toString(), message as? Throwable)
}

public actual open class NoSuchElementException actual constructor(message: String?) : RuntimeException(message) {
    actual constructor() : this(message)
}

@SinceKotlin("1.3")
public actual open class ArithmeticException actual constructor(message: String?) : RuntimeException(message) {
    actual constructor() : this(message)
}

public actual open class NoWhenBranchMatchedException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {
    actual constructor() : this(cause)
    actual constructor(message: String?) : this(message)
    actual constructor(cause: Throwable?) : this(cause)
}

public actual open class UninitializedPropertyAccessException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {
    actual constructor() : this(cause)
    actual constructor(message: String?) : this(message)
    actual constructor(cause: Throwable?) : this(cause)
}

@file:Suppress("UNUSED_PARAMETER")

package kotlin.js

@kotlin.internal.InlineOnly
internal inline fun jsDeleteProperty(obj: Any, property: Any) {
    js("delete obj[property]")
}

@kotlin.internal.InlineOnly
internal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =
    js("lhs | rhs").unsafeCast<Int>()

@file:Suppress("UNUSED_PARAMETER")

package kotlin

/**
 * Returns a bit representation of the specified floating-point value as 
 * [Long] according to the IEEE 754 floating-point "double format" bit layout.
 * Note that in Kotlin/JS [Float] range is wider than "single format" bit layout
 * so some [Float] values may overflow, underflow or lose their accuracy after conversion to bits and back.
 */

package kotlin.js

// Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 63437
public actual fun Float.toBits(): Int =
definedExternally

public actual fun Float.toRawBits(): Int =
definedExternally

public actual inline fun Float.Companion.fromBits(bits: Int): Float = js("Kotlin").floatFromBits(bits).unsafeCast<Float>()

internal inline fun Long(low: Int, high: Int) = js("Kotlin").Long.fromBits(low, high).unsafeCast<Long>()
internal inline val Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()
internal inline val Long.high: Int get() = this.asDynamic().getHighBits().unsafeCast<Int>()
/*
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 */

@file:

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun ULongArray.elementAt(index: Int): ULong {
    return elementAtOrNull(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UByteArray.elementAt(index: Int): UByte {
    return elementAtOrNull(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UShortArray.elementAt(index: Int): UShort {
    return elementAtOrNull(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UIntArray.asList(): List<UInt> {
    return object : AbstractList<UInt>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: UInt): Boolean = this@asList.contains(element)
        override fun get(index: Int): UInt {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }
        override fun indexOf(element: UInt): Int {
            if ((element as Any?) !is UInt) return -1
            return this@asList.indexOf(element)
        }
        override fun lastIndexOf(element: UInt): Int {
            if ((element as Any?) !is UInt) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun ULongArray.asList(): List<ULong> {
    return object : AbstractList<ULong>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: ULong): Boolean = this@asList.contains(element)
        override fun get(index: Int): ULong {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }
        override fun indexOf(element: ULong): Int {
            if ((element as Any?) !is ULong) return -1
            return this@asList.indexOf(element)
        }
        override fun lastIndexOf(element: ULong): Int {
            if ((element as Any?) !is ULong) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UByteArray.asList(): List<UByte> {
    return object : AbstractList<UByte>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: UByte): Boolean = this@asList.contains(element)
        override fun get(index: Int): UByte {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }
        override fun indexOf(element: UByte): Int {
            if ((element as Any?) !is UByte) return -1
            return this@asList.indexOf(element)
        }
        override fun lastIndexOf(element: UByte): Int {
            if ((element as Any?) !is UByte) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UShortArray.asList(): List<UShort> {
    return object : AbstractList<UShort>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: UShort): Boolean = this@asList.contains(element)
        override fun get(index: Int): UShort {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }
        override fun indexOf(element: UShort): Int {
            if ((element as Any?) !is UShort) return -1
            return this@asList.indexOf(element)
        }
        override fun lastIndexOf(element: UShort): Int {
            if ((element as Any?) !is UShort) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}

package jquery
import kotlin.js.Json

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level = DeprecationLevel.ERROR)
public inline fun JQuery.buttonset(): JQuery =
asDynamic().buttonset()

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level = DeprecationLevel.ERROR)
public inline fun JQuery.dialog(): JQuery = asDynamic().dialog()

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level = DeprecationLevel.ERROR)
public inline fun JQuery.dialog(params: Json): JQuery = asDynamic().dialog(params)

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level = DeprecationLevel.ERROR)
public inline fun JQuery.dialog(mode: String, param: String): Any? = asDynamic().dialog(mode, param)

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level = DeprecationLevel.ERROR)
public inline fun JQuery.button(): JQuery = asDynamic().button()

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level = DeprecationLevel.ERROR)
public inline fun JQuery.accordion(): JQuery = asDynamic().accordion()

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level = DeprecationLevel.ERROR)
public inline fun JQuery.draggable(params: Json): JQuery = asDynamic().draggable(params)

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level = DeprecationLevel.ERROR)
public inline fun JQuery.selectable(): JQuery = asDynamic().selectable()

/*
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 */

package kotlin


public actual fun interface Comparator<T> {
    @JsName("compare")
    public actual fun compare(a: T, b: T): Int
}

package kotlin.js

import kotlin.annotation.AnnotationTarget.*

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeGetter

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeSetter

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeInvoke

@Target(CLASS, FUNCTION, PROPERTY)
internal annotation class library(public val name: String = "")

@Target(CLASS)
internal annotation class marker

/**
 * Gives a declaration (a function, a property or a class) specific name in JavaScript.
 * This may be useful in the following cases:
 *   * There are two functions for which the compiler gives same name in JavaScript, you can mark one with `@JsName(...)` to prevent the compiler from reporting error.
 *   * You are writing a JavaScript library in Kotlin. The compiler produces mangled names for functions with parameters, which is unnatural for usual JavaScript developer.
 * You can put `@JsName(...)` on functions you want to be available from JavaScript.
 * For some reason you want to rename declaration, e.g. there's common term in JavaScript:
 * Example:
 * ```
 * class Person(val name: String) {
 *     fun hello() {}
 *     fun greeting() {
 *         println("Hello $name!")
 *     }
 *     fun greetingWithGreeting() {
 *         println("HelloWithGreeting!")
 *     }
 *     fun hello(greeting: String) {
 *         println("Hello $greeting $name!")
 *     }
 * }
 * ```
 * It's required to denote a valid JavaScript identifier.
 * The compiler produces the code relevant for the target module system, for example, in case of CommonJS, it will import the declaration via the `require(...)` function.
 * The annotation can be used on
top-level external declarations (classes, properties, functions) and files. In case of file (which can't be `external`) the following rule applies: all the declarations in the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contain all the declarations from the file. Example:

```kotlin
@JsModule("jquery")
external abstract class JQuery() {
    // some declarations here
}
@JsModule("jquery")
external fun JQuery(element: Element): JQuery
```

* By default, an `external` declaration is available regardless your target module system. However, by applying [JsModule] annotation you can make a declaration unavailable to *plain* module system. Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available as an npm package. To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the `@JsNonModule` annotation. For example:

```kotlin
@JsModule("jquery")
@JsNonModule
@JsName("$")
external abstract class JQuery() {
    // some declarations here
}
@JsModule("jquery")
@JsNonModule
@JsName("$")
external fun JQuery(element: Element): JQuery
```

* @property import name of a module to import declaration from. It is not interpreted by the Kotlin compiler, it's passed as is to the target module system.

```kotlin
@file:JsQualifier("my.jsPackageName")
package some.kotlinPackage

external fun foo(x: Int)

external fun bar(): String
```

* @property value the qualifier to add to the declarations in the generated code. It must be a sequence of valid JavaScript identifiers separated by the `.` character.

Examples of valid qualifiers are: `foo`, `bar.Baz`, `_$.0.$`.
UnsupportedOperationException("Add is not supported on keys")

override fun clear() {
    this@AbstractMutableMap.clear()
}

override fun contains(element: K): Boolean = containsKey(element)

override fun containsAll(from: Collection<K>): Boolean = containsAll(from)

override fun containsAll(from: Map<out K, V>): Boolean = containsAll(from)

override fun containsAny(from: Collection<K>): Boolean = containsAny(from)

override fun containsAny(from: Map<out K, V>): Boolean = containsAny(from)

override fun containsValue(element: V): Boolean = containsValue(element)

override fun containsValues(from: Collection<V>): Boolean = containsValues(from)

override fun containsValues(from: Map<out K, V>): Boolean = containsValues(from)

override fun add(element: V): Boolean = throw UnsupportedOperationException("Add is not supported on values")

override fun remove(key: K): V? = throw UnsupportedOperationException("Remove is not supported on keys")

override fun remove(value: V): Boolean = throw UnsupportedOperationException("Remove is not supported on values")

override fun remove(element: K): Boolean {
    checkIsMutable()
    val iter = entries.iterator()
    while (iter.hasNext()) {
        val entry = iter.next()
        val k = entry.key
        if (key == k) {
            val value = entry.value
            iter.remove()
            return value
        }
    }
    return null
}

override fun put(key: K, value: V): V? = throw UnsupportedOperationException("Add is not supported on keys")

override fun putAll(from: Map<out K, V>): Boolean = throw UnsupportedOperationException("Put all is not supported on values")

override fun remove(key: K) = remove(key)

override fun remove(value: V) = remove(value)

override fun remove(element: K) = remove(element)

override fun clear() = clear()

override fun contains(element: K) = contains(element)

override fun contains(value: V) = contains(value)

override fun add(element: V) = add(element)

override fun remove(element: K) = remove(element)

override fun remove(value: V) = remove(value)

override fun remove(element: K) = remove(element)

override fun clear() = clear()

override fun contains(element: K) = contains(element)

override fun contains(value: V) = contains(value)

override fun add(element: V) = add(element)

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override fun clear() = clear()

override fun contains(element: K) = contains(element)

override fun contains(value: V) = contains(value)

override fun add(element: V) = add(element)

override fun remove(element: K) = remove(element)

override fun remove(value: V) = remove(value)

override fun remove(element: K) = remove(element)

override fun clear() = clear()
**public actual open class ArrayList<E> internal constructor(private var array: Array<Any?>) :**
AbstractMutableList<E>(), MutableList<E>, RandomAccess {
    private var isReadOnly: Boolean = false

    /**
     * Creates an empty [ArrayList].
     */
    public actual constructor() : this(emptyArray()) {}

    /**
     * Creates an empty [ArrayList].
     * @param initialCapacity initial capacity (ignored)
     */
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    public actual constructor(initialCapacity: Int = 0) : this(emptyArray()) {}

    /**
     * Creates an [ArrayList] filled from the
     * elements collection.
     */
    public actual constructor(elements: Collection<E>) : this(elements.toTypedArray<Any?>()) {}

    /**
     * Does nothing in this ArrayList implementation.
     */
    public actual fun trimToSize() {}

    /**
     * Does nothing in this ArrayList implementation.
     */
    public actual fun ensureCapacity(minCapacity: Int) {}

    actual override val size: Int get() = array.size

    @Suppress("UNCHECKED_CAST")
    actual override fun get(index: Int): E = array[index] as E

    actual override fun set(index: Int, element: E): E {
        checkIsMutable()
        return array[index].apply { array[index] = element } as E
    }

    actual override fun add(element: E): Boolean {
        checkIsMutable()
        array.asDynamic().push(element)
        modCount++
        return true
    }

    actual override fun add(index: Int, element: E): Unit {
        checkIsMutable()
        array.asDynamic().splice(insertionRangeCheck(index), 0, element)
        modCount++
    }

    actual override fun addAll(elements: Collection<E>): Boolean {
        checkIsMutable()
        if (elements.isEmpty()) return false
        array += elements.toTypedArray<Any?>()
        modCount++
        return true
    }

    actual override fun addAll(index: Int, elements: Collection<E>): Boolean {
        checkIsMutable()
        insertionRangeCheck(index)
        if (index == size) return addAll(elements)
        if (elements.isEmpty()) return false
        when (index) {
            size -> return addAll(elements)
            0 -> array = elements.toTypedArray<Any?>() + array
            else -> array = array.copyOfRange(0, index).asDynamic().concat(elements.toTypedArray<Any?>(), array.copyOfRange(index, size))
        }
        modCount++
        return true
    }

    actual override fun removeAt(index: Int): E {
        checkIsMutable()
        rangeCheck(index)
        modCount++
        return if (index == lastIndex)
            array.asDynamic().pop()
        else
            array.asDynamic().splice(index, 1)[0]
    }

    actual override fun remove(element: E): Boolean {
        checkIsMutable()
        for (index in array.indices) {
            if (array[index] == element) {
                modCount++
                return true
            }
        }
        return false
    }

    override fun removeRange(fromIndex: Int, toIndex: Int) {
        checkIsMutable()
        modCount++
        array.asDynamic().splice(fromIndex, toIndex - fromIndex)
        if (isReadOnly)
            throw UnsupportedOperationException()
    }

    actual override fun clear() {
        checkIsMutable()
        array = emptyArray()
        modCount++
        if (isReadOnly)
            throw UnsupportedOperationException()
    }

    actual override fun indexOf(element: E): Int = array.indexOf(element)

    actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)

    override fun toString() = arrayToString(array)
    override fun toArray(): Array<Any?> = js("[]").slice.call(array)

    internal override fun checkIsMutable() {
        if (isReadOnly)
            throw UnsupportedOperationException()
    }

    private fun rangeCheck(index: Int) = index.apply {
        AbstractList.checkElementIndex(index, size)
    }

    private fun insertionRangeCheck(index: Int) = index.apply {
        AbstractList.checkPositionInCollection(index, size)
    }

    internal fun sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {
        if (getStableSortingIsSupported())
            array.asDynamic().sort(comparison)
        else
            mergeSort(array.unsafeCast<Array<T>>()

    internal fun sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int) {
        if (fromIndex < toIndex - 1)
            mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1)
    }

    internal fun sortArrayWith(array: Array<out T>, comparison: Comparator<in T>) {
        if (getStableSortingIsSupported())
            array.asDynamic().sort(comparison)
        else
            mergeSort(array.unsafeCast<Array<T>>()

    internal fun sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int) {
        if (fromIndex < toIndex - 1)
            mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1)
}\n}\n\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\n if
(getStableSortingIsSupported()) {\n
val comparison = { a: T, b: T -> a.compareTo(b) }\n
array.asDynamic().sort(comparison)\n } else {\n
mergeSort(array.unsafeCast<Array<T>>(), 0,
array.lastIndex, naturalOrder())\n }\n}\n\nprivate var _stableSortingIsSupported: Boolean? = null\nprivate fun
getStableSortingIsSupported(): Boolean {\n _stableSortingIsSupported?.let { return it }\n
_stableSortingIsSupported = false\n\n val array = js(\"[]\").unsafeCast<Array<Int>>()\n // known
implementations may use stable sort for arrays of up to 512 elements\n // so we create slightly more elements to
test stability\n for (index in 0 until 600) array.asDynamic().push(index)\n val comparison = { a: Int, b: Int -> (a
and 3) - (b and 3) }\n array.asDynamic().sort(comparison)\n for (index in 1 until array.size) {\n
val a =
array[index - 1]\n
val b = array[index]\n
if ((a and 3) == (b and 3) && a >= b) return false\n }\n
_stableSortingIsSupported = true\n return true\n}\n\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int,
endInclusive: Int, comparator: Comparator<in T>) {\n val buffer =
arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n val result = mergeSort(array, buffer, start,
endInclusive, comparator)\n if (result !== array) {\n
for (i in start..endInclusive) array[i] = result[i]\n
}\n}\n\n// Both start and end are inclusive indices.\nprivate fun <T> mergeSort(array: Array<T>, buffer: Array<T>,
start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\n if (start == end) {\n
return array\n }\n\n
val median = (start + end) / 2\n val left = mergeSort(array, buffer, start, median, comparator)\n val right =
mergeSort(array, buffer, median + 1, end, comparator)\n\n val target = if (left === buffer) array else buffer\n\n //
Merge.\n var leftIndex = start\n var rightIndex = median + 1\n for (i in start..end) {\n
when {\n
leftIndex <= median && rightIndex <= end -> {\n
val leftValue = left[leftIndex]\n
val rightValue
= right[rightIndex]\n\n
if (comparator.compare(leftValue, rightValue) <= 0) {\n
target[i] =
leftValue\n
leftIndex++\n
} else {\n
target[i] = rightValue\n
rightIndex++\n
}\n
}\n
leftIndex <= median -> {\n
target[i] = left[leftIndex]\n
leftIndex++\n
}\n
else /* rightIndex <= end */ -> {\n
target[i] = right[rightIndex]\n
rightIndex++\n
Unit // TODO: Fix KT-31506\n
}\n
}\n }\n\n return target\n}","/*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.collections\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin(\"1.3\")\n@kotlin.js.JsName(\"
contentDeepHashCodeImpl\")\ninternal fun <T> Array<out T>?.contentDeepHashCodeImpl(): Int {\n if (this ==
null) return 0\n var result = 1\n for (element in this) {\n
val elementHash = when {\n
element == null
-> 0\n
isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\n\n
element is UByteArray -> element.contentHashCode()\n
element is UShortArray ->
element.contentHashCode()\n
element is UIntArray -> element.contentHashCode()\n
element is
ULongArray -> element.contentHashCode()\n\n
else
-> element.hashCode()\n
}\n\n
result = 31 * result + elementHash\n }\n return result\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal interface
EqualityComparator {\n /**\n * Subclasses must override to return a value indicating\n * whether or not two
keys or values are equal.\n */\n abstract fun equals(value1: Any?, value2: Any?): Boolean\n\n /**\n *
Subclasses must override to return the hash code of a given key.\n */\n abstract fun getHashCode(value: Any?):
Int\n\n\n object HashCode : EqualityComparator {\n
override fun equals(value1: Any?, value2: Any?):
Boolean = value1 == value2\n\n
override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\n
}\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n *
Based on GWT AbstractHashMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap]
interface.\n *\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values]
and [entries] collections.\n */\n// Classes that extend HashMap and implement `build()` (freezing) operation\n// have

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to make sure mutating methods check `checkIsMutable`.\n
public actual open class HashMap<K, V> : 
AbstractMutableMap<K, V>, MutableMap<K, V> {
    private inner class EntrySet :
    AbstractMutableSet<MutableEntry<K, V>>() {

        override fun add(element: MutableEntry<K, V>): Boolean = 
        throw UnsupportedOperation("Add is not supported on entries")
        override fun clear() {  
            this@HashMap.clear()
        }

        override operator fun contains(element: MutableEntry<K, V>): Boolean = 
        containsEntry(element)  
        override operator fun remove(element: MutableEntry<K, V>): Boolean {  
            if (contains(element)) { 
                this@HashMap.remove(element.key)  
                return true
            }
            return false
        }

        override val size: Int get() = this@HashMap.size
    }

    init {
        // ...
Int, loadFactor: Float = 0.0f) {
    map = HashMap<E, Any>(initialCapacity, loadFactor)
}

    actual
constructor(initialCapacity: Int) : this(initialCapacity, loadFactor)

    /**
     * Protected constructor to specify the
     * underlying map. This is used by
     * LinkedHashSet.
     */

    internal constructor(map: HashMap<E, Any>) {
        this.map = map
    }

    actual override fun add(element: E): Boolean {
        val old = map.put(element, this)
        return old == null
    }

    actual override fun clear() {
        map.clear()
    }

    //    public override fun clone(): Any {
//        return HashSet<E>(this)
    }

    actual override operator fun contains(element: E): Boolean = map.containsKey(element)

    actual override fun isEmpty(): Boolean = map.isEmpty()

    actual override fun iterator(): MutableIterator<E> = map.keys.iterator()

    actual override fun remove(element: E): Boolean = map.remove(element) != null

    actual override val size: Int get() = map.size

}

/**
 * Creates a new instance of the specialized
 * implementation of [HashSet] with the specified [String] elements,<n which elements the keys as properties of JS
 * object without hashing them. */
public fun stringSetOf(vararg elements: String): HashSet<String> {
    return HashSet(stringMapOf<Any>()).apply { addAll(elements) }
}

/*
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 */

import kotlin.collections
import kotlin.collections.MutableMap
import kotlin.collections.AbstractMutableMap

/**
 * A simple wrapper around JavaScriptObject to provide [java.util.Map]-like semantics for any key type.<n * Implementation notes:<n * A key's hash code is the index in backingMap which should contain that key. Since several keys may have the same hash,
 * each value in hashCodeMap is actually an array containing all entries whose keys share the same hash. */
internal class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {

    private var backingMap: dynamic = createJsMap()
    override var size: Int = 0
        private set

    override fun put(key: K, value: V): V? {
        val hashCode = equality.getHashCode(key)
        val chainOrNull = getChainOrNull(hashCode)
        if (chainOrNull == null) {
            // This is a new chain, put it to the map.
            backingMap[hashCode] = SimpleEntry(key, value)
        } else {
            if (chainOrNull !is Array<*>) {
                val entry: SimpleEntry<K, V> = chainOrNull
                if (equality.equals(entry.key, key)) {
                    return entry.setValue(value)
                } else {
                    backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))
                    size++
                    return null
                }
            } else {
                val chain: Array<MutableEntry<K, V>> = chainOrNull
                val entry = chain.findEntryInChain(key)
                if (entry != null) {
                    return entry.setValue(value)
                } else {
                    if (chainOrNull == null) {
                        // This is a new chain, put it to the map.
                        backingMap[hashCode] = arrayOfOf(entry, SimpleEntry(key, value))
                    } else {
                        // It is an entry
                        val entry = chain.findEntryInChain(key)
                        if (entry != null) {
                            return entry.setValue(value)
                        } else {
                            return null
                        }
                    } else {
                        // It is an entry
                        val entry = chain.findEntryInChain(key)
                        if (entry != null) {
                            return entry.setValue(value)
                        } else {
                            return null
                        }
                    }
                }
            }
        }
        size++
//structureChanged(host)
        return null
    }

    override fun remove(key: K): V? {
        val hashCode = equality.getHashCode(key)
        val chainOrNull = getChainOrNull(hashCode) ?: return null
        if (chainOrNull !is Array<*>) {
            val entry: MutableEntry<K, V> = chainOrNull
            if (equality.equals(entry.key, key)) {
                jsDeleteProperty(backingMap, hashCode)
                size--
                return entry.value
            } else {
                return null
            }
        } else {
            val chain: Array<MutableEntry<K, V>> = chainOrNull
            for (index in chain.indices) {
                val entry = chain[index]
                if (equality.equals(entry.key, entry.key)) {
                    if (chain.size == 1) {
                        // remove the whole array
                        jsDeleteProperty(backingMap, hashCode)
                    } else {
                        return null
                    }
                }
            }
        }
        return null
    }

    override fun clear() {
        backingMap = createJsMap()
        size = 0
//structureChanged(host)
        return null
    }

    override fun contains(key: K): Boolean {
        val entry = chain.findEntryInChain(key)
        if (entry != null) {
            return entry.setValue(value)
        } else {
            return null
        }
    }

    override fun get(key: K): V? = getEntry(key)?.value

    private fun getEntry(key: K): MutableEntry<K, V>? {
        val chainOrNull = getChainOrNull(equality.getHashCode(key)) ?: return null
        if (chainOrNull !is Array<*>) {
            val entry: MutableEntry<K, V> = chainOrNull
            if (equality.equals(entry.key, key)) {
                return entry
            } else {
                // This is a new chain, put it to the map.
                backingMap[hashCode] = arrayOfOf(entry, SimpleEntry(key, value))
            }
        } else {
            val chain: Array<MutableEntry<K, V>> = chainOrNull
            for (index in chain.indices) {
                val entry = chain[index]
                if (equality.equals(key, entry.key)) {
                    if (chain.size == 1) {
                        // remove the whole array
                        jsDeleteProperty(backingMap, hashCode)
                    } else {
                        // splice out the entry we're
                        removeing
                        chain.asDynamic().splice(index, 1)
                    }
                }
            }
        }
        return null
    }

    override fun override fun clear() {
        backingMap = createJsMap()
        size = 0
//structureChanged(host)
        return null
    }

    override fun override fun contains(key: K): Boolean {
        return getEntry(key) != null
    }

    override fun override fun get(key: K): V? = getEntry(key)
entry
} else {null return null
} else {val chain: Array<MutableEntry<K, V>> = chainOrEntry
  if (null != chain) {
    return chain.findEntryInChain(key)
  } else {
    return null
  }
}

private fun Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =
  firstOrNull { entry ->
    equality.equals(entry.key, key)
  }

override fun iterator(): MutableIterator<MutableEntry<K, V>> {
  return object : MutableIterator<MutableEntry<K, V>> {
    val keys: Array<String> = js("Object").keys(backingMap)
    var keyIndex = -1
    var chainOrEntry: dynamic = null
    var itemIndex = -1
    var chainSize = keys.size

    private fun computeNext(): Int {
      if (chainOrEntry is Array<*>) {
        if (++itemIndex < chainSize)
          return 0
      }
      if (++keyIndex < keys.size)
      { chainOrEntry = backingMap[keys[keyIndex]]
        isChain = chainOrEntry is Array<*>
        itemIndex = 0
        return 0
      } else {
        chainOrEntry = null
        return 1
      }
    }

    override fun hasNext(): Boolean {
      if (state == -1)
        state = computeNext()
      return state == 0
    }

    override fun next(): MutableEntry<K, V> {
      if (!hasNext()) throw NoSuchElementException()
      val lastEntry = if (isChain) {
        chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()
      } else {
        chainOrEntry.unsafeCast<MutableEntry<K, V>>()
      }
      state = -1
      return lastEntry
    }

    override fun remove() {
      checkNotNull(lastEntry)
      this@InternalHashCodeMap.remove(lastEntry.key)
      lastEntry = null
    }
  }
}

private fun getChainOrEntryOrNull(hashCode: Int): dynamic {
  val chainOrEntry = backingMap[hashCode]
  return if (chainOrEntry === undefined) null else chainOrEntry
}

}
override fun remove(element: MutableEntry<K, V>): Boolean {
    checkIsMutable() if (contains(element)) {
        this@LinkedHashMap.remove(element.key)
        return true
    } return false
}

override fun checkIsMutable(): Unit =
    this@LinkedHashMap.checkIsMutable() */\n
    /* The head of the insert order chain, which is a doubly-linked circular list.
   */
    private var head: ChainEntry<K, V>? = null

    /**
     * Add this node to the end of the chain.
     */
    private fun ChainEntry<K, V>.addToEnd() {
        val _head = head
        if (_head == null) {
            head = this
            next = this
            prev = this
        } else {
            val _tail = _head.prev
            prev = _tail
            next = _head
            _head.prev = this
            _tail.next = this
        }
    }

    /**
     * Remove this node from the chain it is a part of.
     */
    private fun ChainEntry<K, V>.remove() {
        if (this.next === this) {
            head = null
        } else {
            if (head === this) {
                head = next
            }
            next!!.prev = prev
            prev!!.next = next
        }
    }

    /* The hashmap that keeps track of our entries and
   the chain. Note that we do not duplicate the key here to eliminate changes to HashMap and minimize the code here, at the expense of additional space.
   */
    private val map: HashMap<K, ChainEntry<K, V>>

    private var isReadOnly: Boolean = false

    /**
     * Constructs an empty [LinkedHashMap] instance.
     */
    actual constructor() : super() {
        map = HashMap<K, ChainEntry<K, V>>()
    }

    internal constructor(backingMap: HashMap<K, Any>) : super() {
        @Suppress("UNCHECKED_CAST") // expected to work due to erasure
        map = backingMap as HashMap<K, ChainEntry<K, V>>
    }

    /**
     * Constructs an empty [LinkedHashMap] instance.
     * @param initialCapacity the initial capacity
     * @param loadFactor      the load factor
     * @throws IllegalArgumentException if the initial capacity or load factor are negative
     */
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(initialCapacity, loadFactor) {
        map = HashMap<K, ChainEntry<K, V>>()
    }

    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)

    /**
     * Constructs an instance of [LinkedHashMap] filled with the contents of the specified [original] map.
     */
    actual constructor(original: Map<out K, V>) {
        map = HashMap<K, ChainEntry<K, V>>()
        this.putAll(original)
    }

    @PublishedApi
    internal fun build(): Map<K, V> {
        checkIsMutable() isReadOnly = true
        return this
    }

    actual override fun clear() {
        checkIsMutable()
        map.clear()
        head = null
        return
    }

    actual override fun containsKey(key: K): Boolean = map.containsKey(key)

    actual override fun containsValue(value: V): Boolean {
        var node: ChainEntry<K, V> = head
        do {
            if (node.value == value) {
                return true
            }
            node = node.next!!
        } while (node !== head)
        return false
    }

    actual override fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()

    actual override operator fun get(key: K, V): V? = map.get(key)

    actual override fun put(key: K, value: V): V? {
        if (isReadOnly) throw UnsupportedOperationException()
        return
    }

    actual override fun putAll(original: Map<out K, V>) {
        if (isReadOnly) throw UnsupportedOperationException()
        return
    }

    override fun clone(): Any {
        return LinkedHashMap(this)
    }

    /**
     * Constructs the specialized implementation of [LinkedHashMap] with [String] keys, which stores the keys as properties of [String] object without hashing them.
     */
    public fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {
        return LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }
    }
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 */

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 */

package kotlin

import kotlin.contracts.*


@kotlin.internal.InlineOnly
public actual inline fun <R> synchronized(lock: Any, block: () -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block()
}

/*
 * @param initialCapacity the initial capacity (ignored)
 * @param loadFactor the load factor (ignored)
 * @throws IllegalArgumentException if the initial capacity or load factor are negative
  */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashSet<*>(), build())

internal fun build(): Set<*> {
    return this
}

internal override fun checkIsMutable(): Unit = map.checkIsMutable()

//    public override fun clone(): Any {
//        return LinkedHashSet(this)
//    }

/** JsName used to make the declaration available outside of module to test it */
@JsName("NodeJsOutput")
internal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {

    override fun print(message: Any?) {
        // TODO: Using local variable because of bug in block decomposition lowering in IR backend
        val messageString = String(message)
        outputStream.write(messageString)
    }

    override fun println(message: Any?) {
        console.log(message)
    }

    override fun println() {
        console.log("")
    }
}

/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */
@JsName("BufferedOutput")
internal open class BufferedOutput : BaseOutput() {
    var buffer = ""

    override fun print(message: Any?) {
        buffer += String(message)
    }

    override fun flush() {
        buffer = ""
    }
}

/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */
@JsName("BufferedOutputToConsoleLog")
internal class BufferedOutputToConsoleLog : BufferedOutput() {

    @JsName("buffer")
    var buffer = ""

    override fun print(message: Any?) {
        buffer += String(message)
    }

    override fun println() {
        println(buffer)
    }
}

/** JsName used to make the declaration available outside of module to test it */
@JsName("output")
internal var output = run {
    val isNode: Boolean = js("typeof process !== 'undefined' && process.versions && !!process.versions.node")
    if (isNode) NodeJsOutput(js("process.stdout")) else BufferedOutputToConsoleLog()
}

@kotlin.internal.InlineOnly
private inline fun String(value: Any?): String =
**Prints the line separator to the standard output stream.**

```kotlin
/**
 * Prints the given [message] and the line separator to the standard output stream.
 */
public actual fun println(message: Any?) {

```
fun toJSON(): Json

    public fun toLocaleDateString(locales: Array<String> = definedExternally, options:
LocaleOptions = definedExternally): String

    public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String

    public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String

    public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String

    public fun toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String

    public fun toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String

    public fun toTimeString(): String

    public fun toUTCString(): String

    public companion object {
        public fun now(): Double

        public fun parse(dateString: String): Double

        public fun UTC(year: Int, month: Int): Double

        public fun UTC(year: Int, month: Int, day: Int): Double

        public fun UTC(year: Int, month: Int, day: Int, hour: Int): Double

        public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int): Double


    }

    public interface LocaleOptions {
        public var localeMatcher: String?

        public var timeZone: String?

        public var hour12: Boolean?

        public var formatMatcher: String?

        public var weekday: String?

        public var era: String?

        public var year: String?

        public var month: String?

        public var day: String?

        public var hour: String?

        public var minute: String?

        public var second: String?

        public var timeZoneName: String?
    }
}

public inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit): Date.LocaleOptions {
    val result = js("new Object()").unsafeCast<Date.LocaleOptions>()
    init(result)
    return result
}
to another package, use 'kotlinx.dom.addClass' instead.

```
replaceWith =
ReplaceWith("\"this.addClass(cssClasses)\"", \"kotlinx.dom.addClass(\"") @DeprecationSinceKotlin(warningSince = \"1.4\")\")\ninline fun Element.addClass(vararg cssClasses: String): Boolean =
this.newAddClass(*cssClasses)\n*/

```
license that can be found in the license/LICENSE.txt file. * Reinterprets this value
as a value of the [dynamic type](/docs/reference/dynamic-type.html) * Reinterprets this value as a value of the specified type [T]
without any actual type checking. * Reinterprets this `dynamic` value as a value of the specified type [T]
without any actual type checking. *

```kotlin
package kotlin.js

/**
 * Reinterprets this value
as a value of the [dynamic type](/docs/reference/dynamic-type.html).
 */
@kotlin.internal.InlineOnly
public
inline fun Any?.asDynamic(): dynamic = this

/**
 * Reinterprets this value as a value of the specified type [T]
without any actual type checking.
 */
@kotlin.internal.InlineOnly
public
inline fun <T> Any?.unsafeCast(): T = this

/**
 * Reinterprets this `dynamic` value as a value of the
specified type [T] without any actual type checking.
 */
@kotlin.internal.InlineOnly
public
inline fun dynamic.unsafeCast(): Any = this

/**
 * Allows to iterate this `dynamic`
object in the following cases:
 * - when it has an `iterator` function,
 * - when it is an array
 * - when it is an instance of [kotlin.collections.Iterable]
 */
@kotlin.internal.DynamicExtension
@JsName("unsafeCastDynamic")
@kotlin.internal.InlineOnly
public
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this

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 * license/LICENSE.txt file.
 */

// a package is omitted to get declarations directly under the
// module

@JsName("throwNPE")
internal fun throwNPE(message: String) {
    throw NullPointerException(message)
}

@JsName("throwCCE")
internal fun throwCCE() {
    throw ClassCastException("Illegal cast")
}

@JsName("throwISE")
internal fun throwISE(message: String) {
    throw IllegalStateException(message)
}

@JsName("throwUPAE")
internal fun throwUPAE(propertyName: String) {
    throw UninitializedPropertyAccessException("lateinit property ${propertyName} has not been initialized")
}

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 */

@file:kotlin.jvm.JvmName("GroupingKt")
@file:kotlin.jvm.JvmMultifileClass

package kotlin.collections

/**
 * Represents a source of elements with a [keyOf] function, which can be applied to each element to get its key.
 *
 * A [Grouping] structure serves as an intermediate step in group-and-fold operations:
 * - they group elements by their keys and then fold each group with some aggregating operation;
 * - they group elements by their keys and then fold each group with some aggregating operation.
 * - it is created by attaching `keySelector: (T) -> K` function to a source of elements.
 * - To get an instance of [Grouping] use one of `groupingBy` extension functions:
 *   - [Iterable.groupingBy]
 *   - [Sequence.groupingBy]
 * - For the list of group-and-fold operations available, see the [extension functions](#extension-functions) for `Grouping`.
 * - passing the previously accumulated value and the current element as arguments, and stores the results in a new map.
 */

license that can be found in the license/LICENSE.txt file. * Reinterprets this value as a value of the [dynamic type](/docs/reference/dynamic-type.html) * Reinterprets this value as a value of the specified type [T]
without any actual type checking. * Reinterprets this `dynamic` object in the following cases:

```kotlin
package kotlin.js

/**
 * Reinterprets this value
as a value of the [dynamic type](/docs/reference/dynamic-type.html).
 */
@kotlin.internal.InlineOnly
public
inline fun Any?.asDynamic(): dynamic = this

/**
 * Reinterprets this value as a value of the specified type [T]
without any actual type checking.
 */
@kotlin.internal.InlineOnly
public
inline fun <T> Any?.unsafeCast(): T = this

/**
 * Reinterprets this `dynamic` value as a value of the
specified type [T] without any actual type checking.
 */
@kotlin.internal.InlineOnly
public
inline fun dynamic.unsafeCast(): Any = this

/**
 * Allows to iterate this `dynamic`
object in the following cases:
 * - when it has an `iterator` function,
 * - when it is an array
 * - when it is an instance of [kotlin.collections.Iterable]
 */
@kotlin.internal.DynamicExtension
@JsName("unsafeCastDynamic")
@kotlin.internal.InlineOnly
public
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this

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 */

// a package is omitted to get declarations directly under the
// module

@JsName("throwNPE")
internal fun throwNPE(message: String) {
    throw NullPointerException(message)
}

@JsName("throwCCE")
internal fun throwCCE() {
    throw ClassCastException("Illegal cast")
}

@JsName("throwISE")
internal fun throwISE(message: String) {
    throw IllegalStateException(message)
}

@JsName("throwUPAE")
internal fun throwUPAE(propertyName: String) {
    throw UninitializedPropertyAccessException("lateinit property ${propertyName} has not been initialized")
}

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 */

@file:kotlin.jvm.JvmName("GroupingKt")
@file:kotlin.jvm.JvmMultifileClass

package kotlin.collections

/**
 * Represents a source of elements with a [keyOf] function, which can be applied to each element to get its key.
 *
 * A [Grouping] structure serves as an intermediate step in group-and-fold operations:
 * - they group elements by their keys and then fold each group with some aggregating operation;
 * - they group elements by their keys and then fold each group with some aggregating operation.
 * - it is created by attaching `keySelector: (T) -> K` function to a source of elements.
 * - To get an instance of [Grouping] use one of `groupingBy` extension functions:
 *   - [Iterable.groupingBy]
 *   - [Sequence.groupingBy]
 * - For the list of group-and-fold operations available, see the [extension functions](#extension-functions) for `Grouping`.
 * - passing the previously accumulated value and the current element as arguments, and stores the results in a new map.
 */
the key of each group with the result of aggregation of the group elements.

```kotlin
@sample samples.collections.Grouping.aggregateByRadix
```
applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in a new map.

An initial value of accumulator is the same for each group.

@param operation a function that is invoked on each element with the following parameters:

- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated;
- `return` a [Map] associating the key of each group with the result of accumulating the group elements.

samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue

Applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in a new map.

An initial value of accumulator is the same as [initialValue] for each group.

* If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the accumulator for that group.
* The @param operation function that is invoked on each element with the following parameters:

- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated;
- `return` a [Map] associating the key of each group with the result of accumulating the group elements.

* An initial value of accumulator is the same as [initialValue] for each group.

* If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the accumulator for that group.
* The @param operation function that is invoked on each element with the following parameters:

- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated;
- `return` a [Map] associating the key of each group with the result of accumulating the group elements.

* An initial value of accumulator is the same as [initialValue] for each group.

* If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the accumulator for that group.
* The @param operation function that is invoked on each element with the following parameters:

- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated;
- `return` a [Map] associating the key of each group with the result of accumulating the group elements.
with the count of elements in the group.

```kotlin
@<@SinceKotlin("1.1.1")> @public fun <T, K, M : MutableMap<String, Int>> Grouping<T, K>.eachCountTo(destination: M, valueSelector: (T) -> Int): M =
    foldTo(destination, 0) { acc, _ -> acc + 1 }
```

Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group. If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the sum for that group.

```kotlin
@<@SinceKotlin("1.1")> inline fun <T, K, M : MutableMap<String, Int>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =
    foldTo(destination, 0) { acc, e -> acc + valueSelector(e) }
```

Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group. If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the sum for that group.

```kotlin
@<@SinceKotlin("1.1.1")> @public fun <T, K, M : MutableMap<String, Int>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Long): M =
    foldTo(destination, 0L) { acc, e -> acc + valueSelector(e) }
```

Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group. If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the sum for that group.

```kotlin
@<@SinceKotlin("1.1.1")> @public fun <T, K, M : MutableMap<String, Long>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Long): M =
    foldTo(destination, 0L) { acc, e -> acc + valueSelector(e) }
```

Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group. If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the sum for that group.

```kotlin
@<@SinceKotlin("1.1.1")> @public fun <T, K, M : MutableMap<String, Double>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Double): M =
    foldTo(destination, 0.0) { acc, e -> acc + valueSelector(e) }
```

Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group. If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the sum for that group.

```kotlin
@<@SinceKotlin("1.1.1")> @public fun <T, K, M : MutableMap<String, Double>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Long): M =
    foldTo(destination, 0L) { acc, e -> acc + valueSelector(e) }
```

Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group. If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the sum for that group.

```kotlin
@<@SinceKotlin("1.1.1")> inline fun <T, K, M : MutableMap<String, Double>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Long): M =
    foldTo(destination, 0.0) { acc, e -> acc + valueSelector(e) }
```

Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group. If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the sum for that group.

Library imports:

```
package kotlin.js
```

Exports:

```
/**
 * @@Deprecated("Use top-level functions from kotlin.math package instead.", level = DeprecationLevel.ERROR)
 * public external object Math {
 *    @<@Deprecated("Use kotlin.math.PI instead.", ReplaceWith("PI", "kotlin.math.PI"), level = DeprecationLevel.ERROR)
 *    public val PI: Double
 *    @<@Deprecated("Use Random.nextDouble instead", ReplaceWith("kotlin.random.Random.nextDouble()", "kotlin.random.Random"), level = DeprecationLevel.ERROR)
 *    public fun random(): Double
 *    @<@Deprecated("Use kotlin.math.abs instead.", ReplaceWith("abs(value)", "kotlin.math.abs"), level = DeprecationLevel.ERROR)
 *    public fun abs(value: Double): Double
 *    @<@Deprecated("Use kotlin.math.acos instead.", ReplaceWith("acos(value)", "kotlin.math.acos"), level = DeprecationLevel.ERROR)
 *    public fun acos(value: Double): Double
 *    @<@Deprecated("Use kotlin.math.asin instead.", ReplaceWith("asin(value)", "kotlin.math.asin"), level = DeprecationLevel.ERROR)
 *    public fun asin(value: Double): Double
 *    @<@Deprecated("Use kotlin.math.atan instead.", ReplaceWith("atan(value)", "kotlin.math.atan"), level = DeprecationLevel.ERROR)
 *    public fun atan(value: Double): Double
 *    @<@Deprecated("Use kotlin.math.atan2 instead.", ReplaceWith("atan2(y, x)", "kotlin.math.atan2"), level = DeprecationLevel.ERROR)
 *    public fun atan2(y: Double, x: Double): Double
 *    @<@Deprecated("Use kotlin.math.cos instead.", ReplaceWith("cos(value)", "kotlin.math.cos"), level = DeprecationLevel.ERROR)
 *    public fun cos(value: Double): Double
 *    @<@Deprecated("Use kotlin.math.sin instead.", ReplaceWith("sin(value)", "kotlin.math.sin"), level = DeprecationLevel.ERROR)
 *    public fun sin(value: Double): Double
 *    @<@Deprecated("Use kotlin.math.exp instead.", ReplaceWith("exp(value)", "kotlin.math.exp"), level = DeprecationLevel.ERROR)
 *    public fun exp(value: Double): Double
 *    @<@Deprecated("Use kotlin.math.max instead.", ReplaceWith("maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)
 *    public fun max(vararg values: Int): Int
 *    @<@Deprecated("Use kotlin.math.min instead.", ReplaceWith("minOf or kotlin.math.min instead", level = DeprecationLevel.ERROR)
 *    public fun min(vararg values: Int): Int
 *    @<@Deprecated("Use kotlin.math.sqrt instead.", ReplaceWith("sqrt(value)", "kotlin.math.sqrt"), level = DeprecationLevel.ERROR)
 *    public fun sqrt(value: Double): Double
 * }
 */
```

License:

```
/*
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
```
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```kotlin
@PublishedApi
internal fun trunc(value: Number): Double
@PublishedApi
internal fun sign(value: Number): Double

@PublishedApi
internal fun sinh(value: Double): Double
@PublishedApi
internal fun cosh(value: Double): Double
@PublishedApi
internal fun tanh(value: Double): Double
@PublishedApi
internal fun asinh(value: Double): Double
@PublishedApi
internal fun acosh(value: Double): Double
@PublishedApi
internal fun atanh(value: Double): Double

@PublishedApi
internal fun hypot(x: Double, y: Double): Double
@PublishedApi
internal fun expm1(value: Double): Double

@PublishedApi
internal fun log10(value: Double): Double
@PublishedApi
internal fun log2(value: Double): Double
@PublishedApi
internal fun log1p(value: Double): Double

@PublishedApi
internal fun clz32(value: Int): Int
```
fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: String): String

public fun stringify(o: Any?, replacer: Array<String>): String
    public fun stringify(o: Any?, replacer: Array<String>, space: Int): String
    public fun stringify(o: Any?, replacer: Array<String>, space: String): String

    public fun <T> parse(text: String): T
    public fun <T> parse(text: String, reviver: ((key: String, value: Any?) -> Any?)): T
}

/*
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
 * contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
 * LICENSE.txt file.*/
@file:Suppress("DEPRECATION_ERROR")
package kotlin.math

import kotlin.internal.InlineOnly
import kotlin.js.Math as nativeMath

// region ================ Double Math
========================================

/** Computes the cosine of the angle [x] given in radians.*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cos(x: Double): Double =
    nativeMath.cos(x)

/** Computes the tangent of the angle [x] given in radians.*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tan(x: Double): Double =
    nativeMath.tan(x)

/**
 * Computes the arc sine of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians.
 * @SinceKotlin("1.2")
 * @InlineOnly
 * @param x the value
 * @return the arc sine of the value [x]
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asin(x: Double): Double =
    nativeMath.asin(x)

/**
 * Computes the arc cosine of the value [x]; the returned value is an angle in the range from `0.0` to `PI` radians.
 * @SinceKotlin("1.2")
 * @InlineOnly
 * @param x the value
 * @return the arc cosine of the value [x]
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acos(x: Double): Double =
    nativeMath.acos(x)

/**
 * Computes the arc tangent of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians.*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atan(x: Double): Double =
    nativeMath.atan(x)

/**
 * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond
 * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value `y` / `x`; the returned value is an angle in the range from `-PI` to `PI` radians.*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atan2(y: Double, x: Double): Double =
    nativeMath.atan2(y, x)

/** Computes the hyperbolic sine of the value [x].*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sinh(x: Double): Double =
    nativeMath.sinh(x)

/** Computes the hyperbolic cosine of the value [x].*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cosh(x: Double): Double =
    nativeMath.cosh(x)

/** Computes the hyperbolic tangent of the value [x].*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tanh(x: Double): Double =
    nativeMath.tanh(x)

/** Computes the inverse hyperbolic sine of the value [x]; the returned value is `y` such that `sinh(y) == x`.*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asinh(x: Double): Double =
    nativeMath.asinh(x)

/** Computes the inverse hyperbolic cosine of the value [x]; the returned value is positive `y` such that `cosh(y) == x`.*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acosh(x: Double): Double =
    nativeMath.acosh(x)

/** Computes the inverse hyperbolic tangent of the value [x]; the returned value is `y` such that `tanh(y) == x`.*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atanh(x: Double): Double =
    nativeMath.atanh(x)
- `tanh(x)` is `NaN` when `x > 1` or `x < -1`.
- `tanh(1.0)` is `+Inf`.
- `tanh(-1.0)` is `-Inf`.
- `atanh(x)` returns `+Inf` if any of arguments is infinite.
- `atanh(NaN)` returns `NaN` if any of arguments is `NaN` and the other is not infinite.
- `exp(x)` is `+Inf` for `x > 1` and `-Inf` for `x < -1`.
- `expm1(x)` is `+Inf` for `x > 1` and `-1.0` for `x < -1`.
- `ln1p(x)` is `+Inf` for `x > 0` and `-Inf` for `x < -1`.
- `floor(x)` returns the greatest integer less than or equal to `x`.
- `ceil(x)` returns the smallest integer greater than or equal to `x`.
- `round(x)` returns the closest integer.
- `trunc(x)` returns the integer part of `x`.

Special cases:
- `exp(NaN)` is `NaN`.
- `exp(+Inf)` is `+Inf`.
- `exp(-Inf)` is `0.0`.
- `log(NaN)` is `NaN`.
- `log(+Inf)` is `+Inf`.
- `log(0.0)` is `-Inf`.
given value [x],

\*\*n \* Special cases:

\* - `abs(NaN)` is `NaN`

\* @see absoluteValue extension property

for [Double]\*\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual inline fun abs(x: Double): Double =
nativeMath.abs(x)\*n//\*n* Returns the sign of the given value [x]:

\* - `-1.0` if the value is negative,\* - zero if the value is zero,\* - `1.0` if the value is positive\*n* Special case:\n
\* - `sign(NaN)` is `NaN`

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual inline fun sign(x: Double): Double =
nativeMath.sign(x)\*n/\*n* Raises this value to the power [x],\*n* Special cases:\n
\* - `b.pow(0.0)` is `1.0`\* - `b.pow(1.0)` == `b`\* - `b.pow(NaN)` is `NaN`\* - `NaN.pow(x)` is `NaN` for `x != 0.0`\* - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\* - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual inline fun Double.pow(x: Double): Double =
nativeMath.pow(b, x)\*n/\*n* Raises this value to the integer power [n]\*n* See the other overload of

`pow` for details.\*n@n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual inline fun Double.pow(n: Int): Double =
nativeMath.pow(this, n.toDouble())\n
\* @see absoluteValue extension property

Double.absoluteValue: Double \*n\* Returns the absolute value of this value,\*n* Special cases:\n
\* - `NaN.absoluteValue` is `NaN`

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual inline fun Double.sign: Double get() =
nativeMath.sign(this)\n
\* @see absoluteValue extension property

Double.absoluteValue: Double \*n\* Returns the sign of this value:\n
\* - `-1.0` if the value is negative,\* - zero if the value is zero,\* - `1.0` if the value is positive\n\* Special case:\n
\* - `NaN.sign` is `NaN`

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual inline val Double.ulp: Double get() =
when {
    this < 0 -> (-this).ulp
    this.isNaN() || this == Double.POSITIVE_INFINITY
    this == Double.MAX_VALUE
    else -> this.nextUp() - this
}

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.nextUp(): Double =
when (\n    this.isNaN() || this == Double.POSITIVE_INFINITY
    this < 0
    else ->
    Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)
)

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.nextDown(): Double =
when (\n    this.isNaN() || this == Double.NEGATIVE_INFINITY
    this > 0
    else ->
    Double.fromBits(this.toRawBits() + if (this < 0) -1 else 1)
)

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.nextTowards(to: Double): Double =
when (\n    this == to
    else if (this < to) this.nextUp()\n    else if (this > to) this.nextDown()
)

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.roundToInt(): Int =
when (\n    this.isNaN() || this > Int.MAX_VALUE
    this < Int.MIN_VALUE
    else
    nativeMath.round(this).unsafeCast<

Double>(\n)

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.nextTowards(to: Double): Double =
when (\n    this == to
    else if (this < to) this.nextUp()\n    else if (this > to) this.nextDown()
)

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.roundToInt(): Int =
when (\n    this.isNaN() || this > Int.MAX_VALUE
    this < Int.MIN_VALUE
    else
    nativeMath.round(this).unsafeCast<

Double>(\n)

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.nextTowards(to: Double): Double =
when (\n    this == to
    else if (this < to) this.nextUp()\n    else if (this > to) this.nextDown()
)

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.roundToInt(): Int =
when (\n    this.isNaN() || this > Int.MAX_VALUE
    this < Int.MIN_VALUE
    else
    nativeMath.round(this).unsafeCast<

Double>(\n)

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.nextTowards(to: Double): Double =
when (\n    this == to
    else if (this < to) this.nextUp()\n    else if (this > to) this.nextDown()
)

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.roundToInt(): Int =
when (\n    this.isNaN() || this > Int.MAX_VALUE
    this < Int.MIN_VALUE
    else
    nativeMath.round(this).unsafeCast<

Double>(\n)

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.nextTowards(to: Double): Double =
when (\n    this == to
    else if (this < to) this.nextUp()\n    else if (this > to) this.nextDown()
)

\*n@SinceKotlin(1.2\*)\*n@InlineOnly\*n@public actual fun Double.roundToInt(): Int =
when (\n    this.isNaN() || this > Int.MAX_VALUE
    this < Int.MIN_VALUE
    else
    nativeMath.round(this).unsafeCast<

Double>(\n)
Long.MIN_VALUE` when `x < Long.MIN_VALUE` using nativeMath.round(this.unsafeCast<Double>().toLong()).toString() without rounding to Long() this > Long.MAX_VALUE
- `NaN` when `Double.valueOf(Double.MAX_VALUE)`

```java
@SinceKotlin("1.2")
public actual fun Double.roundToLong(): Long = when {
    isNaN() ->
        throw IllegalArgumentException("Cannot round NaN value.")
    this > Long.MAX_VALUE ->
        Long.MAX_VALUE
    this < Long.MIN_VALUE ->
        Long.MIN_VALUE
    else ->
        nativeMath.round(this).unsafeCast<Double>().toLong()
}
```

```java
// endregion
```

```java
// region ================
Float.Math ========================================
/** Computes the sine of the angle [x] given in radians.
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sin(x: Float): Float =
    nativeMath.sin(x.toDouble()).toFloat()

/** Computes the cosine of the angle [x] given in radians.
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cos(x: Float): Float =
    nativeMath.cos(x.toDouble()).toFloat()

/** Computes the tangent of the angle [x] given in radians.
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tan(x: Float): Float =
    nativeMath.tan(x.toDouble()).toFloat()

/** Computes the arc sine of the value [x];
 * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asin(x: Float): Float =
    nativeMath.asin(x.toDouble()).toFloat()

/** Computes the arc cosine of the value [x];
 * the returned value is an angle in the range from `0.0` to `PI` radians.
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acos(x: Float): Float =
    nativeMath.acos(x.toDouble()).toFloat()

/** Computes the arc tangent of the value [x];
 * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atan(x: Float): Float =
    nativeMath.atan(x.toDouble()).toFloat()

/** Computes the arc tangent of the value [x] using the point (x, y).
 * The returned value is `y` such that `atan2(y, x)`
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atan2(y: Float, x: Float): Float =
    nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()

/** Computes the hyperbolic sine of the value [x].
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sinh(x: Float): Float =
    nativeMath.sinh(x.toDouble()).toFloat()

/** Computes the hyperbolic cosine of the value [x].
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cosh(x: Float): Float =
    nativeMath.cosh(x.toDouble()).toFloat()

/** Computes the hyperbolic tangent of the value [x].
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tanh(x: Float): Float =
    nativeMath.tanh(x.toDouble()).toFloat()

/** Computes the inverse hyperbolic sine of the value [x].
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asinh(x: Float): Float =
    nativeMath.asinh(x.toDouble()).toFloat()

/** Computes the inverse hyperbolic cosine of the value [x].
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acosh(x: Float): Float =
    nativeMath.acosh(x.toDouble()).toFloat()

/** Computes the inverse hyperbolic tangent of the value [x].
 * @throws IllegalArgumentException when this value
 *          is NaN
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atanh(x: Float): Float =
    nativeMath.atanh(x.toDouble()).toFloat()
```

**Open Source Used in Connected-Pharma 1.7.7 - Merck Connected Pharma 63464**
`tanh(x)` is `NaN` when `x > 1` or `x < -1\n * - `tanh(1.0)` is `+Inf` \n * - `tanh(-1.0)` is `-Inf` \n
```kotlin
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atanh(x: Float): Float = 
nativeMath.atanh(x.toDouble()).toFloat()\n```

```
/*
 * Computes `sqrt(x^2 + y^2)` without intermediate overflow or
 * underflow.\n
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sqrt(x: Float): Float = 
nativeMath.sqrt(x.toDouble()).toFloat()\n
```

```
/**
 * Computes `expm1(x)` without intermediate overflow or
 * underflow.\n
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun expm1(x: Float): Float = 
nativeMath.expm1(x.toDouble()).toFloat()\n
```
* `-abs(NaN)` is `NaN`

```
*\@SinceKotlin("1.2")\@InlineOnly\@public actual inline fun abs(x: Float): Float =
nativeMath.abs(x.toDouble()).toFloat()

*\@SinceKotlin("1.2")\@InlineOnly\@public actual inline fun min(a: Float, b: Float):
Float = nativeMath.min(a, b).toDouble() \* Returns the greater of two values:
\* If either value is `NaN`, then the result is `NaN`
```

```
*\@SinceKotlin("1.2")\@InlineOnly\@public actual inline fun Float.pow(n: Int): Float =
nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()

*\@SinceKotlin("1.2")\@InlineOnly\@public actual inline fun Float.roundToInt(): Int =
toDouble().roundToInt()
```

**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 63466**
The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side. Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count.

Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally

`number.rotateLeft(-n) == number.rotateRight(n)`

Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally

`number.rotateRight(n) == number.rotateLeft(n % 32)`

Rotating a number right by a negative bit count is the same as rotating it left by the negated bit count.

`number.rotateRight(-n) == number.rotateLeft(n)`

Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally

`number.rotateLeft(-n) == number.rotateRight(n % 32)`

*\@SinceKotlin("1.3")\* @ExperimentalStdlibApi\*\n\npublic actual fun Int.rotateLeft(bitCount: Int): Int =
shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)

*\@SinceKotlin("1.3")\* @ExperimentalStdlibApi\*\n\npublic actual fun Int.rotateRight(bitCount: Int): Int =
shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)

*\@SinceKotlin("1.4")\* @WasExperimental(ExperimentalStdlibApi::class)\*\n\npublic actual fun Long.countOneBits(): Int =
high.countOneBits() + low.countOneBits()

*\@SinceKotlin("1.4")\* @WasExperimental(ExperimentalStdlibApi::class)\*\n\npublic actual fun Long.countLeadingZeroBits(): Int =
when (val high = this.high) {
    0 -> Int.SIZE_BITS + low.countLeadingZeroBits()
    else -> high.countLeadingZeroBits()
}

*\@SinceKotlin("1.4")\* @WasExperimental(ExperimentalStdlibApi::class)\*\n\npublic actual fun Long.countTrailingZeroBits(): Int =
when (val low = this.low) {
    0 -> Int.SIZE_BITS + high.countTrailingZeroBits()
    else -> low.countTrailingZeroBits()
}

*\@SinceKotlin("1.4")\* @WasExperimental(ExperimentalStdlibApi::class)\*\n\npublic actual fun Long.takeHighestOneBit(): Long =
when (val high = this.high) {
    0 -> Long(low.takeHighestOneBit(), 0)
    else -> Long(0, high.takeHighestOneBit())
}

*\@SinceKotlin("1.4")\* @WasExperimental(ExperimentalStdlibApi::class)\*\n\npublic actual fun Long.takeLowestOneBit(): Long =
when (val low = this.low) {
    0 -> Long(0, low.takeLowestOneBit())
    else -> Long(low.takeLowestOneBit(), 0)
}

The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side. Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count.

Rotating a number right by a negative bit count is the same as rotating it left by the negated bit count.

Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally

`number.rotateLeft(-n) == number.rotateRight(n)`

Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally

`number.rotateRight(n) == number.rotateLeft(n % 64)`

Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count.

Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally

`number.rotateLeft(-n) == number.rotateRight(n % 64)`

Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count.

Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally

`number.rotateLeft(-n) == number.rotateRight(n % 64)`

*\@SinceKotlin("1.3")\* @ExperimentalStdlibApi\*\n\npublic actual inline fun
Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)

```
/*
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 */

package kotlin.js

import kotlin.internal.LowPriorityInOverloadResolution

/**
 * Exposes the JavaScript [Promise](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise) to Kotlin.
 */
@Suppress("NOT_DOCUMENTED")
public open external class Promise<out T>(executor: (resolve: (T) -> Unit, reject: (Throwable) -> Unit) -> Unit) {
    @LowPriorityInOverloadResolution
    public open fun <S>
        then(onFulfilled: ((T) -> S)?): Promise<S>

    @LowPriorityInOverloadResolution
    public open fun <S>
        then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>

    public open fun <S>
        catch(onRejected: (Throwable) -> S): Promise<S>

    companion object {
        public fun <S> all(promise: Array<out Promise<S>>): Promise<Array<out S>>

        public fun <S> race(promise: Array<out Promise<S>>): Promise<Nothing>

        public fun <S> resolve(e: S): Promise<S>
    }
}

// It's workaround for KT-19672 since we can fix it properly until KT-11265 isn't fixed.
inline fun <T, S> Promise<Promise<T>>.then(
    noinline onFulfilled: ((T) -> S)?
): Promise<S> {
    return this.unsafeCast<Promise<T>>().then(onFulfilled)
}

inline fun <T, S> Promise<Promise<T>>.then(
    noinline onFulfilled: ((T) -> S)?,
    noinline onRejected: ((Throwable) -> S)?
): Promise<S> {
    return this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)
}

```

```
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 */

package kotlin.random

import kotlin.math.pow

internal actual fun defaultPlatformRandom(): Random =
    Random(js("(Math.random() * Math.pow(2, 32)) | 0").unsafeCast<Int>())

private val INV_2_26: Double = 2.0.pow(-26)
private val INV_2_53: Double = 2.0.pow(-53)
internal actual fun doubleFromParts(hi26: Int, low27: Int): Double =
    hi26 * INV_2_26 + low27 * INV_2_53

```

```
/*
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 */

package kotlin.reflect

import findAssociatedObject

/**
 * The experimental marker for associated objects API.
 *
 * Any usage of a declaration annotated with `@ExperimentalAssociatedObjects` must be accepted either by
 * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalAssociatedObjects::class)`.
 * or by using the compiler argument `-Xopt-in=kotlin.reflect.ExperimentalAssociatedObjects`.
 */
@RequiresOptIn(level = RequiresOptIn.Level.ERROR)
@Retention(value = AnnotationRetention.BINARY)
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class ExperimentalAssociatedObjects

/**
 * Makes the annotated annotation class an associated object key.
 *
 * An associated object key annotation should have single [KClass] parameter.
 * When applied to a class with reference to an object declaration as an argument, it binds the object to the class,
 * making this binding discoverable at runtime using [findAssociatedObject].
 */
@ExperimentalAssociatedObjects
public inline fun <reified T : Annotation> KClass<*>.findAssociatedObject(): Any? =
    this.findAssociatedObject(T::class)

```

```
/*
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 */

package kotlin.js

import getKClass
import kotlin.reflect.KClass
import kotlin.reflect.js.internal.KClassImpl

/**
 * Represents the constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.
 */
external interface JsClass<T : Any> {
    /**
     * Returns the unqualified name of the class represented by
     * this instance.
     */
    val name: String
}

/**
 * Obtains a constructor reference for the given class.
 */
val <T : Any> JsClass<T>.kotlin: KClass<T>
    get() = this.jsClass

```

```
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Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)

```

```
= getKClass(this)"n","*/n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors."n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file."n */n\n
package kotlin.reflect.js.internal

import kotlin.reflect.*

internal abstract
class KClassImpl<T : Any>(
    internal open val jClass: JsClass<T>
) : KClass<T> {

    override val
    qualifiedName: String?
        get() = TODO("n"n override fun equals(other: Any?): Boolean {\n        return other\n        is KClassImpl<*> &&& jClass == other.jClass\n    \n    return false\n    }

    // TODO: use FQN\n    override fun hashCode(): Int =\n        simpleName?.hashCode() ?: 0\n
    override fun toString(): String {
        // TODO: use FQN\n        return \"class\n        $simpleName\n        \"n\n        \
    }
}

internal class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) :
KClassImpl<T>(jClass) {
    override val simpleName: String? =
        jClass.asDynamic().\"$metadata\"?.simpleName.unsafeCast<String?>().\n        hashCode() ?: 0\n
    override fun isInstance(value: Any?): Boolean {
        return super.isInstance(value) &&
        givenSimpleName ==
        other.givenSimpleName\n    }
}

internal class PrimitiveKClassImpl<T : Any>(
    jClass: JsClass<T>,
    private val givenSimpleName: String,
    private val isInstanceFunction: (Any?) ->
    Boolean
) : KClassImpl<T>(jClass) {
    override fun equals(other: Any?): Boolean {
        if (other !is
        PrimitiveKClassImpl<*>) return false\n        return super.equals(other) &&
        givenSimpleName ==
        other.givenSimpleName\n    }

    override val simpleName: String? get() = givenSimpleName\n
    override fun isInstance(value: Any?): Boolean =
        isInstanceFunction(value)
}

internal object NothingKClassImpl : KClassImpl<Nothing>(js("Object")) {
    override val simpleName: String =
        \"Nothing\n        \"n
    override fun isInstance(value: Any?): Boolean = false

    override val jClass:
        JsClass<Nothing>
        get() = throw UnsupportedOperationException("There's no native JS class for Nothing\n        type\n        \"n"
    }

    override fun equals(other: Any?): Boolean = other === this

    override fun
    hashCode(): Int =
        0
}

internal class ErrorKClass : KClass<Nothing> {
    override val simpleName: String? get() =
        error("Unknown simpleName for ErrorKClass")
    override val qualifiedName: String? get() =
        error("Unknown qualifiedName for ErrorKClass")

    override fun isInstance(value: Any?): Boolean =
        error("Can's check isInstance on ErrorKClass")

    override fun equals(other: Any?): Boolean = other === this

    override fun
    hashCode(): Int =
        0
}
KTypeProjection.contravariant(type)\n
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Language contributors. */

KTypeImpl() override val classifier: KClassifier
override val arguments: List<KTypeProjection>

override val isMarkedNullable: Boolean
: KType \n
override fun equals(other: Any?): Boolean = \n
other is KTypeImpl &&
\nclassifier == other.classifier && arguments == other.arguments \n
isMarkedNullable == other.isMarkedNullable

override fun hashCode(): Int =

classifier.hashCode() * 31 + arguments.hashCode() * 31 + isMarkedNullable.hashCode()

override fun toString(): String = "\n
class String {

override override fun toString(): String = "\n
override fun equals(other: Any?): Boolean =

other is String && arguments == other.arguments &&

isMarkedNullable == other.isMarkedNullable

override fun hashCode(): Int =

classifier.hashCode() * 31 + arguments.hashCode() * 31 + isMarkedNullable.hashCode()

override fun toString(): String = "\n
class PrimitiveClasses {

@JsName("anyClass")
val anyClass = PrimitiveKClassImpl(js("Object").unsafeCast<JsClass<Any>>(), "Any", { it is Any })

@JsName("numberClass")
val numberClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Number>>(), "Number", { it is Number })

@JsName("nothingClass")
val nothingClass = NothingKClassImpl

@JsName("booleanClass")
val booleanClass = PrimitiveKClassImpl(js("Boolean").unsafeCast<JsClass<Boolean>>(), "Boolean", { it is Boolean })

@JsName("byteClass")
val byteClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Byte>>(), "Byte", { it is Byte })

@JsName("shortClass")
val shortClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(), "Short", { it is Short })

@JsName("intClass")
val intClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Int>>(), "Int", { it is Int })

@JsName("floatClass")
val floatClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Float>>(), "Float", { it is Float })

@JsName("arrayClass")
val arrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<*>>>(), "Array", { it is Array<*> })

@JsName("stringClass")
val stringClass = PrimitiveKClassImpl(js("String").unsafeCast<JsClass<String>>(), "String", { it is String })

@JsName("throwableClass")
val throwableClass = PrimitiveKClassImpl(js("Error").unsafeCast<JsClass<Throwable>>(), "Throwable", { it is Throwable })

@JsName("booleanArrayClass")
val booleanArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<BooleanArray>>(), "BooleanArray", { it is BooleanArray })

@JsName("charArrayClass")
val charArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray })

@JsName("intArrayClass")
val intArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<IntArray>>(), "IntArray", { it is IntArray })

@JsName("booleanIntArrayClass")
val booleanIntArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<BooleanIntArray>>(), "BooleanIntArray", { it is BooleanIntArray })

@JsName("charIntArrayClass")
val charIntArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray })

@JsName("intCharArrayClass")
val intCharArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<IntCharArray>>(), "IntCharArray", { it is IntCharArray })

@JsName("floatCharArrayClass")
val floatCharArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<FloatCharArray>>(), "FloatCharArray", { it is FloatCharArray })

@JsName("doubleCharArrayClass")
val doubleCharArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<DoubleArray>>(), "DoubleArray", { it is DoubleArray })

@JsName("throwableCharArrayClass")
val throwableCharArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<ThrowableArray>>(), "ThrowableArray", { it is ThrowableArray })

@JsName("booleanCharArrayClass")
val booleanCharArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray })

@JsName("charCharArrayClass")
val charCharArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray })
PrivateKClassImpl(js("Uint16Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray })

    @JsName("byteArrayClass")
    val byteArrayClass = PrimitiveKClassImpl(js("Int8Array").unsafeCast<JsClass<ByteArray>>(), "ByteArray", { it is ByteArray })

    @JsName("shortArrayClass")
    val shortArrayClass = PrimitiveKClassImpl(js("Int16Array").unsafeCast<JsClass<ShortArray>>(), "ShortArray", { it is ShortArray })

    @JsName("intArrayClass")
    val intArrayClass = PrimitiveKClassImpl(js("Int32Array").unsafeCast<JsClass<IntArray>>(), "IntArray", { it is IntArray })

    @JsName("longArrayClass")
    val longArrayClass = PrimitiveKClassImpl(js("Array".unsafeCast<JsClass<LongArray>>(), "LongArray", { it is LongArray })

    @JsName("floatArrayClass")
    val floatArrayClass = PrimitiveKClassImpl(js("Float32Array".unsafeCast<JsClass<FloatArray>>(), "FloatArray", { it is FloatArray })

    @JsName("doubleArrayClass")
    val doubleArrayClass = PrimitiveKClassImpl(js("Float64Array".unsafeCast<JsClass<DoubleArray>>(), "DoubleArray", { it is DoubleArray })

@JsName("functionClass")
fun functionClass(arity: Int): KClassImpl<Any> {
    return functionClasses.get(arity) ?: run { let result = PrimitiveKClassImpl(js("Function").unsafeCast<JsClass<Any>>(), "Function\$arity", { jsoTypeOf(it) === "function" && it.asDynamic().length === arity })

    private val functionClasses = arrayOfNulls<KClassImpl<Any>>(0)

    internal fun <T : Any> getKClass(jClass: Any /* JsClass<T> | Array<JsClass<T>> */): KClass<T> {
        return if (js("Array").isArray(jClass)) {
            getKClassM(jClass.unsafeCast<Array<JsClass<T>>>())
        } else {
            getKClass1(jClass.unsafeCast<JsClass<T>>())
        }
    }

    internal fun <T : Any> getKClassM(jClasses: Array<JsClass<T>>): KClass<T> = when (jClasses.size) {
        1 -> getKClass1(jClasses[0])
        0 -> NothingKClassImpl.unsafeCast<KClass<T>>()
        else -> ErrorKClass().unsafeCast<KClass<T>>()
    }

    internal fun <T : Any> getKClass1(jClass:JsClass<T>): KClass<T> = when (jsTypeOf(e)) {
        "string" -> PrimitiveClasses.stringClass
        "number" -> if (jsBitwiseOr(e, 0).asDynamic() === e) PrimitiveClasses.intClass else PrimitiveClasses.doubleClass
        "boolean" -> js("Boolean").getPrototypeOf(e).constructor.`$constructor$` -> PrimitiveClasses.booleanClass
        "null" -> PrimitiveClasses.literalClass
        "function" -> PrimitiveClasses.functionClass(e.asDynamic().length)
        "object" -> if (e is BooleanArray) PrimitiveClasses.booleanArrayClass
        "error" -> if (e is IntArray) PrimitiveClasses.intArrayClass
        "array" -> if (e is LongArray) PrimitiveClasses.longArrayClass
        "arraybuffer" -> if (e is FloatArray) PrimitiveClasses.floatArrayClass
        "string" -> when (e.constructor === js("String")) constructor.`$constructor$` -> PrimitiveClasses.arrayClass
        else -> if (e is Array<Class<*>>) PrimitiveClasses.arrayClass
        "undefined" -> when (e.constructor === js("Object")) constructor.`$constructor$` -> PrimitiveClasses.objectClass
        "null" -> when (e.constructor === js("Error")) constructor.`$constructor$` -> PrimitiveClasses.errorClass
        "symbol" -> PrimitiveClasses.symbolClass
        else -> when (e.constructor === js("Symbol")) constructor.`$constructor$` -> PrimitiveClasses.symbolClass
        else -> null
    }

    return if (jClass.`$kClass$` === null) {
        val kClass = KClassImpl(jClass)
        jClass.`$kClass$` = kClass
        kClass
    } else {
        jClass
    }
}
JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. */

package kotlin.js

/**
 *
 * @suppress("NOT_DOCUMENTED")
 */
public external class RegExp(pattern: String, flags: String? = definedExternally) {

    public fun test(str: String): Boolean

    public fun exec(str: String): RegExpMatch?

    public override fun toString(): String

    /**
     * The lastIndex is a read/write integer property of regular expressions that specifies the index at which to start the next match.
     */
    public var lastIndex: Int

    public val global: Boolean
    public val ignoreCase: Boolean
    public val multiline: Boolean
}

/**
 * Resets the regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning of the input string.
 */
public fun RegExp.reset() {
    lastIndex = 0
}

// TODO: Inherit from array or introduce asArray() extension
/**
 * Represents the return value of [RegExp.exec].
 */
@Suppress("NOT_DOCUMENTED")
public external interface RegExpMatch {

    public val index: Int

    public val input: String

    public val length: Int

    public inline operator fun get(index: Int): String? = asDynamic()[index]

    /**
     * Converts the result of [RegExp.exec] to an array where the first element contains the entire matched text and each subsequent element is the text matched by each capturing parenthesis.
     * The lastIndex property is reset.
     */
    public inline fun asArray(): Array<out String?> = unsafeCast<Array<out String?>>()

    /**
     * Returns the entire text matched by [RegExp.exec] if the index parameter is 0, or the text matched by the capturing parenthesis at the given index.
     */
    public fun get(index: Int): String
}

package kotlin.sequences

internal actual class ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {

    private var sequenceRef: Sequence<T>? = sequence

    actual override fun iterator(): Iterator<T> {
        val sequence = sequenceRef ?: throw IllegalStateException("This sequence can be consumed only once.")
        sequenceRef = null
        return sequence.iterator()
    }
}

package kotlin.text

/**
 * A mutable sequence of characters.
 *
 * String builder can be used to efficiently perform multiple string manipulation operations.
 */
public actual class StringBuilder actual constructor(content: String) : Appendable, CharSequence {

    private var string: String = if (content !== undefined) content else ""

    actual override val length: Int
        get() = string.asDynamic().length

    actual override fun get(index: Int): Char = string.getOrElse(index) { throw IndexOutOfBoundsException("index: $index, length: $length") }

    actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)

    actual override fun append(value: Char): StringBuilder {
        string += value
        return this
    }

    actual override fun append(value: CharSequence?): StringBuilder {
        string += value.toString()
        return this
    }

    actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =
    this.appendRange(value ?: "null", startIndex, endIndex)

    /**
     * Reverses the contents of this string builder and returns this instance.
     */
    public fun reverse(): StringBuilder
}

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characters. * Therefore, the order of the high-low surrogates is never reversed. */
 */
 */ Note that the reverse operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the operation. */
 */ For example, reversing `\"uDC00\uD800\"` produces `\"uD800\uDC00\"` which is a valid surrogate pair. */
 * */*
 */ an actual fun reverse(): StringBuilder { in var reversed = \"\n var index =
 */ string.length - 1 * in while (index >= 0) { in val low = string[index--] * in if (low.isLowSurrogate() &&
 */ index >= 0) { in val high = string[index--] * in if (high.isHighSurrogate()) { in reversed =
 */ reversed + high + low
 } else { in reversed = reversed + reversed + low + high
 } in } else { in reversed += low
 } in } in string = reversed
 */ */ * in
 */ Appends the string representation of the specified object [value] to this string builder and returns this instance. */
 * */*
 */ The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method, */
 * and then that string was appended to this string builder. */
 * */*
 */ and then that string was appended to this string builder.
 */ */*
 */ @SinceKotlin("1.3")
 */ actual fun append(value: Any?): StringBuilder {
 */ string += value
 */ return this
 */ */ */ * in
 */ Appends characters in the specified character array [value] to this string builder and returns this instance. */
 * */*
 */ Characters are appended in order, starting at the index 0. */
 */ */*
 */ @SinceKotlin("1.4")
 */ @WasExperimental(ExperimentalStdlibApi::class)
 */ actual fun append(value: StringArray): StringBuilder {
 */ @OptIn(ExperimentalStdlibApi::class)
 */ string += value.concatToString()
 */ return this
 */ */ */ * in
 */ Returns the index within this string builder of the first occurrence of the specified string. */
 */ */*
 */ @SinceKotlin("1.4")
 */ @WasExperimental(ExperimentalStdlibApi::class)
 */ actual fun indexOf(string: String): Int =
 */ string.asDynamic().indexOf(string)
 */ */ */ * in
 /*
 * Returns the index within this string builder of the first occurrence of the specified string. */
 */ @SinceKotlin("1.3")
 */ actual fun append(value: Boolean): StringBuilder {
 */ string += value.toString()
 */ return this
 */ */ */ * in
 */ **
 */ Appends the string representation of the specified boolean [value] to this string builder and returns this instance. */
 * */*
 */ The capacity is the maximum length this string builder can have before an allocation occurs. */
 * */*
 */ In Kotlin/JS implementation of StringBuilder the value returned from this method may not indicate the actual size of the backing storage. */
 * */*
 */ @SinceKotlin("1.3")
 */ @ExperimentalStdlibApi
 */ @Deprecated("Provided for binary compatibility.", level =
 */ DeprecationLevel.HIDDEN)
 */ fun append(value: String): StringBuilder = append(value.toString())
 */ */ */ * in
 */ **
 */ Appends characters in the specified character array [value] to this string builder and returns this instance. */
 * */*
 */ Characters are appended in order, starting at the index 0. */
 */ */*
 */ @SinceKotlin("1.4")
 */ @WasExperimental(ExperimentalStdlibApi::class)
 */ actual fun append(value: String?): StringBuilder =
 */ this.string += value ?: "null"
 */ return this
 */ */ */ * in
 */ **
 */ @SinceKotlin("1.3")
 */ actual fun ensureCapacity(minimumCapacity: Int) {
 */ @SinceKotlin("1.4")
 */ @WasExperimental(ExperimentalStdlibApi::class)
 */ actual fun append(value: CharArray): StringBuilder {
 */ @OptIn(ExperimentalStdlibApi::class)
 */ string += value.concatToString()
 */ return this
 */ */ */ * in
 */ @SinceKotlin("1.4")
 */ @WasExperimental(ExperimentalStdlibApi::class)
 */ actual fun capacity(): Int = length
 */ */ */ * in
 */ @ExperimentalStdlibApi
*/
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/*
[startIndex] toward the beginning.
 */
 * Returns `-1` if the specified [startIndex] does not occur in this string
 builder starting at the specified [startIndex].
 */
 @WasExperimental(ExperimentalStdlibApi::class)
 actual fun lastIndexOf(string: String, startIndex: Int): Int {
 if (string.isEmpty() && startIndex < 0) return -1
 return this.string.asDynamic().lastIndexOf(string, startIndex)
 }}

 /* * Inserts the string representation of the specified boolean [value] into this string
 builder at the specified [index] and returns this instance. */
 * The overall effect is exactly as if the [value]
 were converted to a string by the \`value.toString()\` method,*/
 * and then that string was inserted into this string
 builder at the specified [index] and returns this instance. */
 * @throws IndexOutOfBoundsException if [index] is less than zero or
 greater than the length of this string builder.
 */
 @WasExperimental(ExperimentalStdlibApi::class)
 actual fun insert(index: Int, value: Boolean): StringBuilder {
 AbstractList.checkPositionIndex(index, length)*/
 return this
 }}

 /* * Inserts characters in the specified character array
 [value] into this string builder at the specified [index] and returns this instance. */
 * The inserted characters
go in same order as in the [value] character array, starting at [index]. */
 * @throws
 IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.*/
 @WasExperimental(ExperimentalStdlibApi::class)
 actual fun insert(index: Int, value: CharArray): StringBuilder {
 AbstractList.checkPositionIndex(index, length)*/
 return this
 }}

 /* * Inserts characters in the specified character sequence
 [value] into this string builder at the specified [index] and returns this instance. */
 * The inserted characters
go in same order as in the [value] character sequence, starting at [index]. */
 * @param index the position
 in this string builder to insert at.*/
 * @param value the character sequence from which characters are inserted. If
 [value] is `null`, then the four characters `\"null\"` are inserted.*/
 * @throws
 IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.*/
 @WasExperimental(ExperimentalStdlibApi::class)
 actual fun insert(index: Int, value: CharSequence?): StringBuilder {
 AbstractList.checkPositionIndex(index, length)*/
 return this
 }}

 /* * Inserts the string representation of the specified boolean [value] into this string
 builder at the specified [index] and returns this instance. */
 * The overall effect is exactly as if the [value]
 were converted to a string by the \`value.toString()\` method,*/
 * and then that string was inserted into this string builder at the specified [index]. */
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.*/
 @WasExperimental(ExperimentalStdlibApi::class)
 actual fun insert(index: Int, value: Any?): StringBuilder {
 AbstractList.checkPositionIndex(index, length)*/
 return this
 }}

 /* * Inserts the string [value] into this string builder at the specified [index] and
 returns this instance. */
 * @throws
 IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.*/
 @WasExperimental(ExperimentalStdlibApi::class)
 actual fun insert(index: Int, value: String?): StringBuilder {
 AbstractList.checkPositionIndex(index, length)*/
 return this
 }}

 /* * Sets the length of this string builder to the specified [newLength]. */
 * If the [newLength] is less than the current length, it is changed to the specified [newLength]. */
 * Otherwise, null characters `\u0000`
are appended to this string builder until its length is less than the [newLength].
* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] if [newLength] is less than zero.
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun setLength(newLength: Int) { if (newLength < 0) { throw IllegalArgumentException("Negative new length: $newLength.") }

if (newLength <= length) { string = string.substring(0, newLength)
} else { for (i in length until newLength) { string += \u0000
}
}

/* *
* Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the
[length] (exclusive).
* @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.
*
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun substring(startIndex: Int): String {
AbstractList.checkStartEndIndex(startIndex, length)
return string.substring(startIndex)
}

/* *
* Attempts to reduce storage used for this string builder.
* If the backing storage of this string builder is larger than necessary to hold its current contents, it may be resizes to become more space efficient.
* Calling this method may, but is not required to, affect the value of the [capacity] property.
* In Kotlin/JS implementation of StringBuilder the size of the backing storage is always equal to the length of the string builder.
*
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun trimToSize() {
override fun toString(): String = string
}

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun setLength(newLength: Int): String {
if (newLength < 0) {
throw IllegalArgumentException("Negative new length: $newLength.")
}

if (newLength <= length) {
string = string.substring(0, newLength)
}
else {
for (i in length until newLength) {
string += \u0000
}
}

if (newLength <= length) {
string = string.substring(0, newLength)
}
else {
for (i in length until newLength) {
string += \u0000
}
}

/* *
* Clears the content of this string builder making it empty and returns this instance.
* @sample samples.text.Strings.clearStringBuilder
* @SinceKotlin("1.3")
public fun clear(): StringBuilder {
string = \"
return this
}

/* *
* Sets the character at the specified [index] to the specified [value].
* @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder, or `startIndex` > `endIndex`.
* @SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun setStartEndIndex(startIndex: Int, endIndex: Int): String {
AbstractList.checkStartEndIndex(startIndex, endIndex, length)
return string.substring(startIndex, endIndex)
}

/* *
* Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.
* @param startIndex the beginning (inclusive) of the range to replace.
* @param endIndex the end (exclusive) of the range to replace.
* @param value the string to replace with.
* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex` > `endIndex`.
* @SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun replaceRange(startIndex: Int, endIndex: Int, value: Char): String {
AbstractList.checkStartEndIndex(startIndex, endIndex, length)
string = string.substring(0, startIndex) + value + string.substring(endIndex + 1)

/* *
* Removes the character at the specified [index] from this string builder and returns this instance.
* If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.
* @param index the index of `Char` to remove.
* @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.
* @SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun deleteAt(index: Int): StringBuilder {
AbstractList.checkElementIndex(index, length)
string = string.substring(0, index) + string.substring(index +

```kotlin
public fun deleteRange(startIndex: Int, endIndex: Int): StringBuilder {

    checkReplaceRange(startIndex, endIndex, length)

    string = string.substring(0, startIndex) + string.substring(endIndex)
    return this
}

/**
 * Copies characters from this string builder into the [destination] character array.
 * @param startIndex the beginning (inclusive) of the range to copy.
 * @param endIndex the end (exclusive) of the range to copy.
 * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string builder.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {

    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    var dstIndex = destinationOffset

    for (index in startIndex until endIndex) {
        destination[dstIndex++] = string[index]
    }
}

/**
 * Appends characters in a subarray of the specified character array
 * [value] to this string builder.
 * @param value the array from which characters are appended.
 * @param startIndex the beginning (inclusive) of the subarray to append.
 * @param endIndex the end (exclusive) of the subarray to append.
 * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of the [value] array.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {

    string += value.concatToString(startIndex, endIndex)
    return this
}

/**
 * Appends a subsequence of the specified character sequence
 * [value] to this string builder.
 * @param value the character sequence from which a subsequence is appended.
 * @param startIndex the beginning (inclusive) of the subsequence to append.
 * @param endIndex the end (exclusive) of the subsequence to append.
 * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of the [value] sequence.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder {
    val stringCsq = value.toString()

    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)

    string += stringCsq.substring(startIndex, endIndex)
    return this
}

/**
 * Inserts characters in a subarray of the specified character array
 * [value] into this string builder.
 * @param index the position in this string builder to insert.
 * @param value the array from which characters are inserted.
 * @param startIndex the beginning (inclusive) of the subarray to insert.
 * @param endIndex the end (exclusive) of the subarray to insert.
 * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of the [value] array.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {

    AbstractList.checkPositionIndex(index, this.length)

    @OptIn(ExperimentalStdlibApi::class)
    string += value.concatToString(startIndex, endIndex)
    return this
}
```

1)\n /*\n * Removes characters in the specified range from this string builder and returns this instance.\n */\n public fun deleteRange(startIndex: Int, endIndex: Int): StringBuilder {

    string = string.substring(0, startIndex) + string.substring(endIndex)
    return this
}
```

```
string.substring(0, index) + value.concatToString(startIndex, endIndex) + string.substring(index)
    return this
} /**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string
 * builder at the specified [index] and returns this instance.
 * The inserted characters go in the same order as in the [value] character sequence, starting at [index].
 * @param value the character sequence from which a subsequence is inserted.
 * @param startIndex the end (exclusive) of the subsequence to insert.
 * @param endIndex the end (exclusive) of the subsequence to insert.
 * @throws IndexOutOfBoundsException or [IllegalStateException] when [startIndex] or [endIndex] is out of range of
 * the [value] character sequence indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this
 * string builder.
 */
AbstractList.checkPositionIndex(index, length)

    val stringCsq = value.toString()
    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)

    string = string.substring(0, index)
        + stringCsq.substring(startIndex, endIndex) + string.substring(index)
        return this
}

/**
 * Clears
 * the content of this string builder making it empty and returns this instance.
 */
public actual inline fun StringBuilder.clear(): StringBuilder = this.clear()

/**
 * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.
 */
public actual inline fun StringBuilder.deleteAt(index: Int): StringBuilder = this.deleteAt(index)

/**
 * Removes characters in the specified range from this string builder and returns this instance.
 * @throws IndexOutOfBoundsException or [IllegalStateException] when [startIndex] is out of range of
 * this string builder indices or when `startIndex > endIndex`.
 */
public actual inline fun StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder =
    this.deleteRange(startIndex, endIndex)

/**
 * Copies characters from this string builder into the [destination] character array.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the array to copy to, 0 by default.
 */

StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =

/*
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 */

package kotlin.text

// actually \s is enough to match all whitespace, but \xA0 added because of different regexp behavior of Rhino used in Selenium tests

public actual fun Char.isWhitespace(): Boolean = toString().matches("\[\\s\\xA0\]")

@kotlin.internal.InlineOnly
public actual inline fun Char.toLowerCase(): Char =

@kotlin.internal.InlineOnly
public actual inline fun Char.toUpperCase(): Char =

/**
 * Returns `true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).
 */
public actual fun Char.isHighSurrogate(): Boolean = this in Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE

/**
 * Returns `true` if this character is a Unicode low-surrogate code unit (also known as trailing-surrogate code unit).
 */
public actual fun Char.isLowSurrogate(): Boolean = this in Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE

/**
 * Parses the string as a signed [Byte] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toByte(): Byte = toByteOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a signed [Byte] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
public actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as a [Short] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toShort(): Short = toShortOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a [Short] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
public actual fun String.toShort(radex: Int): Short = toShortOrNull(radex) ?: numberFormatError(this)

/**
 * Parses the string as an [Int] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toInt(): Int = toIntOrNull() ?: numberFormatError(this)

/**
 * Parses the string as an [Int] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
public actual fun String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as a [Long] number and returns the result.
 */
public actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a [Long] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?: numberFormatError(this)

/*
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 */

package kotlin.text


/**
 * Returns `true` if the content of this string is equal to the word "true", ignoring case, and 'false' otherwise.
 */
public actual fun String.toBoolean(): Boolean = this.toBoolean()

/**
 * Returns `true` if this string is not `null` and its content is equal to the word "true", ignoring case, and 'false' otherwise.
 */
public actual fun String?.toBoolean(): Boolean = this != null && this.toLowerCase() == "true"

/**
 * Parses the string as a signed [Byte] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as a signed [Byte] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
public actual fun String.toByte(radix: Int): Byte = toByteOrNull(radex) ?: numberFormatError(this)

/**
 * Parses the string as a [Short] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toShort(radex: Int): Short = toShortOrNull(radex) ?: numberFormatError(this)

/**
 * Parses the string as a [Short] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radex] is not a valid radix for string to number conversion.
 */
public actual fun String.toShort(radex: Int): Short = toShortOrNull(radex) ?: numberFormatError(this)

/**
 * Parses the string as an [Int] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toInt(): Int = toIntOrNull() ?: numberFormatError(this)

/**
 * Parses the string as an [Int] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radex] is not a valid radix for string to number conversion.
 */
public actual fun String.toInt(radex: Int): Int = toIntOrNull(radex) ?: numberFormatError(this)

/**
 * Parses the string as a [Long] number and returns the result.
 */
public actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a [Long] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toLong(radex: Int): Long = toLongOrNull(radex) ?: numberFormatError(this)
numberFormatError(this)\n
* Parses the string as a [Double] number and returns the result.\n
* @throws NumberFormatException if the string is not a valid representation of a number.\n
public actual fun String.toDouble(): Double = (+this.asDynamic()).unsafeCast<Double>().also { \n    if (it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank()) numberFormatError(this)\n
* Parses the string as a [Float] number and returns the result.\n
* @throws NumberFormatException if the string is not a valid representation of a number.\n
* @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n
* @SinceKotlin("1.2")\n
package kotlin.text

import kotlin.js.RegExp

/**
 * Provides enumeration values to use to set regular expression options.
 */
public actual enum class RegexOption(val value: String) {
    /** Enables case-insensitive matching. */
    IGNORE_CASE("i"),
    /** Enables multiline mode.
     * In multiline mode the expressions `^` and `$` match just after or just before,\n     * respectively, a line terminator or the end of the input sequence. */
    MULTILINE("m")
}


/**
 * Represents the results from a single capturing group within a [MatchResult] of [Regex].
 *
 * @param value The value of captured group.
 */
public actual data class MatchGroup(actual val value: String)


/**
 * Represents a compiled regular expression.
 * Provides functions to match strings in text with a pattern, replace the found occurrences and
 * split text around matches.
 *
 * For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)
 * and [http://www.w3schools.com/jsref/jsref_obj_regexp.asp](http://www.w3schools.com/jsref/jsref_obj_regexp.asp).\n
* @constructor Creates a regular expression from the specified [pattern] string and the specified set of
 * [options].\n
* @param value Represents the results from a single capturing group within a [MatchResult] of [Regex].\n
* @param value Represents a compiled regular expression.\n
* Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.\n
* For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)\n
*/
public actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {

    /** Creates a regular expression from the specified [pattern] string and the specified single [option]. */
    public actual constructor(pattern: String, option: RegexOption) : this(pattern, setOf(option))

    /** Creates a regular expression from the specified [pattern] string and the default options. */
    public actual constructor(pattern: String) : this(pattern, emptySet())

    /** The pattern string of this regular expression. */
    public actual val pattern = pattern

    /** The set of options that were used to create this regular expression. */

* public actual val options: Set<RegexOption> = options.map


* /\n
*/

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/** Indicates whether the regular expression matches the entire [input].

    public actual infix fun matches(input: CharSequence): Boolean {
        nativePattern.reset()
        val match = nativePattern.exec(input.toString())
        return match != null && match.index == 0 &&
                nativePattern.lastIndex == input.length
    }

    /** Indicates whether the regular expression can find at least one match in the specified [input].
    
    public actual fun containsMatchIn(input: CharSequence): Boolean {
        nativePattern.reset()
        return nativePattern.test(input.toString())
    }

    /** Returns the first match of a regular expression in the [input], beginning at the specified [startIndex].
     * @param startIndex An index to start search with, by default 0. Must be not less than zero and not greater than `input.length()
     * @return An instance of [MatchResult] if match was found or `null` otherwise.
     * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence. 
    */

    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    public actual fun find(input: CharSequence, startIndex: Int = 0): MatchResult? {
        if (startIndex < 0 || startIndex > input.length) {
            throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length: ${input.length}")
        }
        return nativePattern.findNext(input.toString(), startIndex)
    }

    /**
     * Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified [startIndex].
     * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence.
     * @sample samples.text.Regexps.findAll
     */

    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    public actual fun findAll(input: CharSequence, startIndex: Int = 0): Sequence<MatchResult> {
        if (startIndex < 0 || startIndex > input.length) {
            throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length: ${input.length}")
        }
        return generateSequence({ find(input, startIndex) }, { match -> match.next() })
    }

    /**
     * Attempts to match the entire [input] CharSequence against the pattern.
     * 
     * @return An instance of [MatchResult] if the entire input matches or `null` otherwise.
     */
    public actual fun matchEntire(input: CharSequence): MatchResult? {
        if (pattern.startsWith('^') && pattern.endsWith('$'))
            return find(input)
        else
            return Regex("^${pattern.trimStart('^').trimEnd('$')}$", options).find(input)
    }

    /**
     * Replaces all occurrences of this regular expression in the specified [input] string with specified [replacement] expression.
     * @param replacement A replacement expression that can include substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.
     */
    public actual fun replace(input: CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern, replacement)

    /**
     * Replaces the first occurrence of this regular expression in the specified [input] string with specified [replacement] expression that can include substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.
     */
    public actual fun replaceFirst(input: CharSequence, replacement: String): String {
        val nonGlobalOptions = options.map { it.value } joinToString(separator = "\"")
        return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement)
    }

    /**
     * Splits the [input] CharSequence around matches of this regular expression.
     * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.
     * Zero by default means no limit is set.
     */
public actual fun split(input: CharSequence, limit: Int = 0): List<String> {
    require(limit >= 0) { "Limit must be non-negative, but was $limit" }
    return result.add(input.subSequence(lastStart, match.range.endInclusive + 1))
}
public actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return nativeStartsWith(prefix, startIndex)
    else
        return regionMatches(startIndex, prefix, 0, prefix.length, ignoreCase)
}

/**
 * Returns `true` if this string ends with the specified suffix.
 */
public actual fun String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return nativeEndsWith(suffix)
    else
        return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)
}

public fun String.matches(regex: String): Boolean {
    val result = this.match(regex)
    return result != null && result.size != 0
}

public actual fun CharSequence.isBlank(): Boolean = length == 0 || (if (this is String) this else this.toString()).matches("^[\s\xA0]+$")

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String?.equals(other: String?, ignoreCase: Boolean = false): Boolean =
    if (this == null)
        other == null
    else if (!ignoreCase)
        this == other
    else
        other != null && this.toLowerCase() == other.toLowerCase()

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =
    regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)

/**
 * Returns a copy of this string having its first letter titlecased using the rules of the
default locale,\n * or the original string if it's empty or already starts with a title case letter.\n * The title case of a
 * character is usually the same as its upper case with several exceptions.\n * The particular list of characters with the
 * special title case form depends on the underlying platform.\n * @sample samples.text.Strings.capitalize
 */
public actual fun String.capitalize(): String {
    return if (isNotEmpty()) substring(0, 1).toUpperCase() + substring(1) else this
}

/**
 * Returns a copy of this string having its first letter lowercased using the rules of
 * the default locale,\n * or the original string if it's empty or already starts with a lower case letter.\n * @sample samples.text.Strings.decapitalize
 */
public actual fun String.decapitalize(): String {
    return if (isNotEmpty()) substring(0, 1).toLowerCase() + substring(1) else this
}

/**
 * Returns a string containing this char sequence
 * repeated \[n\] times.\n * @throws \[IllegalArgumentException\] when \[n\] < 0.
 */
public actual fun CharSequence.repeat(n: Int): String {
    require(n >= 0) { "Count 'n' must be non-negative, but was $n." }
    return when (n) {
        0 -> ""
        1 -> this.toString()
        else -> {
            var result = ""
            if (!isEmpty()) {
                var s = this.toString()
                var count = n
                while (true) {
                    if ((count and 1) == 1) {
                        result += s
                    }
                    count = count ushr 1
                    if (count == 0) {
                        break
                    }
                }
            }
            return result
        }
    }
}

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
    nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) "gi" else "g"),
        Regex.escapeReplacement(newValue))

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =
    nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) "gi" else "g"),
        newChar.toString())

@OptIn(ExperimentalStdlibApi::class)
private fun
malformed(size: Int, index: Int, throwOnMalformed: Boolean): Int {
    if (throwOnMalformed) throw
    CharacterCodingException("Malformed sequence starting at ${index - 1}\n\n    return -size\n\n    *\n    * Returns code point corresponding to UTF-16 surrogate pair,\n    * where the first of the pair is the [high] and the second is in \n    * the [string] at the [index].\n\n    * Returns zero if the pair is malformed and [throwOnMalformed] is false.\n    *\n    * @throws CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.\n    *\n    * @unprivate fun codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    \n    val low = string[index].toInt() \n    if (low !in 0xDC00..0xDFFF) \n        return malformed(0, index, throwOnMalformed) \n    return 0x10000 + ((high and 0x3FF) shl 10) \n        or (low and 0x3FF) \n\n    Returns code point corresponding to UTF-8 sequence of two bytes,\n    * where the first byte of the sequence is the \n    * [byte1] and the second byte is in the [bytes] array at the [index].\n\n    * Returns zero if the sequence is malformed and [throwOnMalformed] is false.\n    *\n    * @throws CharacterCodingException if the sequence of two bytes is \n    * malformed and [throwOnMalformed] is true.\n\n    * @unprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    \n    if (byte1 and 0x1E == 0x80) \n        return malformed(0, index, throwOnMalformed) \n    if (byte2 and 0x80 != 0x80) \n        return malformed(0, index, throwOnMalformed) \n    return (byte1 shl 6) xor byte2 xor 0x1E080 \n\n    Returns code point corresponding to UTF-8 sequence of three bytes,\n    * where the first byte of the sequence is the \n    * [byte1] and the others are in the [bytes] array starting from the [index].\n\n    * Returns a non-positive value indicating number of bytes from [bytes] \n    * included in malformed sequence\n    * if the sequence is malformed and [throwOnMalformed] is false.\n    *\n    * @throws CharacterCodingException if the sequence of three bytes is \n    * malformed and [throwOnMalformed] is true.\n\n    * @unprivate fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    \n    if (byte1 and 0xF == 0x0) \n        return malformed(0, index, throwOnMalformed) \n    if (byte2 and 0x80 <= 0xFD) \n        return malformed(0, index, throwOnMalformed) \n    if (index + 1 == endIndex) \n        return malformed(1, index, throwOnMalformed) \n    if (byte3 and 0xC0 != 0x80) \n        return malformed(0, index, throwOnMalformed) \n    return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor 0x381F80 \n\n    Returns code point corresponding to UTF-8 sequence of four bytes,\n    * where the first byte of the sequence is the \n    * [byte1] and the others are in the [bytes] array starting from the [index].\n\n    * Returns a non-positive value indicating number of bytes from [bytes] \n    * included in malformed sequence\n    * if the sequence is malformed and [throwOnMalformed] is false.\n    *\n    * @throws CharacterCodingException if the sequence of four bytes is \n    * malformed and [throwOnMalformed] is true.\n\n    * @unprivate fun codePointFrom4(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    \n    if (byte1 and 0xF == 0x0) \n        return malformed(0, index, throwOnMalformed) \n    if (byte2 and 0x80 <= 0xFD) \n        return malformed(0, index, throwOnMalformed) \n    if (byte3 and 0xC0 != 0x80) \n        return malformed(1, index, throwOnMalformed) \n    if (byte4 and 0xC0 != 0x80) \n        return malformed(2, index, throwOnMalformed) \n    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor (byte4 xor 0x381F80) \n\n    Maximum number of bytes needed to encode a single char.\n\n    * Code points in '0.0x7F' are encoded in a single byte.\n    * Code points in '0x00.0x7F' are encoded in two bytes.
Surrogate code points in `0xD800..0xDFFF` are not Unicode scalar values, therefore aren’t encoded.

Code points in `0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.

The byte sequence a malformed UTF-16 char sequence is replaced by:

```java
private const val MAX_BYTES_PER_CHAR = 3

/**
 * The byte sequence a malformed UTF-16 char sequence is replaced by.
 */
private val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(),
0xBF.toByte(), 0xBD.toByte())

/**
 * The character a malformed UTF-8 byte sequence is replaced by.
 */
private const val REPLACEMENT_CHAR = '\uFFFD'

/**
 * The byte sequence a malformed UTF-16 char sequence is replaced by.
 */
private val REPLACEMENT_BYTE_SEQUENCE[0] = 0xEF
private val REPLACEMENT_BYTE_SEQUENCE[1] = 0xBF
private val REPLACEMENT_BYTE_SEQUENCE[2] = 0xBD
```

```java
private fun codePointFromSurrogate(string: String, code: Int, charIndex: Int, endIndex: Int): Int
{
    val codePoint = codePointFromSurrogate(string, code, charIndex, endIndex).
    if (codePoint <= 0) {
        val replacement = REPLACEMENT_CHAR
        val replacementBytes = byteArrayOf(replacement.toByte(),
replacement.toByte(),
replacement.toByte())
        return replacementBytes
    } else {
        val high = (codePoint - 0x10000) shr 10 or 0xD800
        val low = (codePoint and 0x3FF) or 0xDC00
        return String(high.toChar(),
low.toChar())
    }
}

private fun codePointFrom2(bytes: ByteArray, byte1: Int, byte2: Int): Int
{
    val codePoint = codePointFrom2(bytes, byte1, byte2)
    if (codePoint <= 0) {
        return REPLACEMENT_CHAR
    } else {
        val high = (codePoint - 0x10000) shr 10 or 0xD800
        val low = (codePoint and 0x3FF) or 0xDC00
        return String(high.toChar(),
low.toChar())
    }
}

private fun codePointFrom3(bytes: ByteArray, byte1: Int, byte2: Int, byte3: Int): Int
{
    val codePoint = codePointFrom3(bytes, byte1, byte2, byte3)
    if (codePoint <= 0) {
        return REPLACEMENT_CHAR
    } else {
        val high = (codePoint - 0x10000) shr 10 or 0xD800
        val low = (codePoint and 0x3FF) or 0xDC00
        return String(high.toChar(),
low.toChar())
    }
}

{
    val codePoint = codePointFrom4(bytes, byte1, byte2, byte3, byte4)
    if (codePoint <= 0) {
        return REPLACEMENT_CHAR
    } else {
        val high = (codePoint - 0x10000) shr 10 or 0xD800
        val low = (codePoint and 0x3FF) or 0xDC00
        return String(high.toChar(),
low.toChar())
    }
}

private fun codePointFromSurrogate(string: String, code: Int, charIndex: Int, endIndex: Int): Int
{
    val codePoint = codePointFromSurrogate(string, code, charIndex, endIndex).
    if (codePoint <= 0) {
        val replacement = REPLACEMENT_CHAR
        val replacementBytes = byteArrayOf(replacement.toByte(),
replacement.toByte(),
replacement.toByte())
        return replacementBytes
    } else {
        val high = (codePoint - 0x10000) shr 10 or 0xD800
        val low = (codePoint and 0x3FF) or 0xDC00
        return String(high.toChar(),
low.toChar())
    }
}
```

```java
private fun codePointFromSurrogate(string: String, code: Int, charIndex: Int, endIndex: Int): Int
{
    val codePoint = codePointFromSurrogate(string, code, charIndex, endIndex).
    if (codePoint <= 0) {
        val replacement = REPLACEMENT_CHAR
        val replacementBytes = byteArrayOf(replacement.toByte(),
replacement.toByte(),
replacement.toByte())
        return replacementBytes
    } else {
        val high = (codePoint - 0x10000) shr 10 or 0xD800
        val low = (codePoint and 0x3FF) or 0xDC00
        return String(high.toChar(),
low.toChar())
    }
}
```
```kotlin
stringBuilder.append(low.toChar())
byteIndex += 3
} else -> {
    malformed(0, byteIndex, throwOnMalformed)
    stringBuilder.append(REPLACEMENT_CHAR)
}
return stringBuilder.toString()
}

/**
 * Returns the detailed description of this throwable with its stack trace.
 * The detailed description includes:
 * - the short description (see [Throwable.toString]) of this throwable;
 * - the complete stack trace;
 * - detailed descriptions of each throwable in the [Throwable.cause] chain.
 * *
 * @since Kotlin(1.4+)
 * @public actual fun Throwable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)
 * @public actual fun Throwable.printStackTrace() {
 *    console.error(this.stackTraceToString())
 *}
 * @public actual fun Throwable.addSuppressed(exception: Throwable) {
 *    if (this !== exception) {
 *        val suppressed = this.asDynamic()._suppressed.unsafeCast<MutableList<Throwable>?>()
 *        if (suppressed == null) {
 *            this.asDynamic()._suppressed = mutableListOf(exception)
 *        } else {
 *            suppressed.add(exception)
 *        }
 *    }
 *}
 * @public actual val Throwable.suppressedExceptions: List<Throwable>
 *    get() {
 *        return this.asDynamic()._suppressed?.unsafeCast<List<Throwable>>() ?: emptyList()
 *    }
 *}

private class ExceptionTraceBuilder {
    private val target = StringBuilder()
    private val visited = arrayOf<Throwable>()
    private var topStack: String = ""
    private var topStackStart: Int = 0

    fun buildFor(exception: Throwable): String {
        exception.dumpFullTrace("", "")
        return target.toString()
    }

    private fun hasSeen(exception: Throwable): Boolean = visited.any { it === exception }

    private fun Throwable.dumpSelfTrace(indent: String, qualifier: String): Boolean {
        target.append(indent).append(qualifier)
        val shortInfo = this.toString()
        if (hasSeen(this)) {
            target.append("[CIRCULAR REFERENCE, SEE ABOVE: ").append(shortInfo).append("]\n")
            return false
        }
        visited.asDynamic().push(this)

        var stack = this.asDynamic().stack as String?
        if (stack != null) {
            val stackStart = stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }
            if (stackStart == 0)
                target.append(shortInfo).append("\n")
            if (topStack.isEmpty()) {
                topStack = stack
                topStackStart = stackStart
            } else {
                stack = dropCommonFrames(stack, stackStart)
            }
            if (indent.isNotEmpty()) {
                // indent stack, but avoid indenting exception message lines
                val messageLines = if (stackStart == 0) 0 else 1 + shortInfo.count { c -> c == '\n' }
                stack.lineSequence().forEachIndexed { index: Int, line: String ->
                    if (index >= messageLines)
                        target.append(indent)
                    target.append(line).append("\n")
                }
            } else {
                target.append(stack).append("\n")
            }
        } else {
            target.append(shortInfo).append("\n")
        }

        val suppressed = suppressedExceptions
        if (suppressed.isNotEmpty()) {
            val suppressedIndent = indent + "    "
            for (s in suppressed) {
                s.dumpFullTrace(suppressedIndent, "Suppressed: ")
            }
        }
        return true
    }

    private fun dropCommonFrames(stack: String, stackStart: Int): String {
        var commonFrames: Int = 0
        var lastBreak: Int = 0
        var preLastBreak: Int = 0
        for (pos in 0 until minOf(topStack.length - topStackStart, stack.length - stackStart)) {
            val c = stack[stack.lastIndex - pos]
            if (c != ' ')
                break
            if (c == '\n')
                commonFrames += 1
            if (commonFrames <= 1)
                return stack
        }
        var lastBreak = preLastBreak
        var prevLastBreak = lastBreak
        var pos = lastBreak
        var int = 0
        if (commonFrames <= 1) return stack
        while (prevLastBreak > 0 && pos <= lastBreak - 1)
            break
    }
}
```

DurationUnit(internal val scale: Double) { val /* * Time unit representing one nanosecond, which is 1/1000 of a microsecond.
 * NANOSECONDS(1e0),
 * * Time unit representing one microsecond, which is 1/1000 of a millisecond.
 * MICROSECONDS(1e3),
 * * Time unit representing one millisecond, which is 1/1000 of a second.
 * MILLISECONDS(1e6),
 * * Time unit representing one second.
 * SECONDS(1e9),
 * * Time unit representing one minute.
 * MINUTES(60e9),
 * * Time unit representing one hour.
 * HOURS(3600e9),
 * * Time unit representing one day, which is always equal to 24 hours.
 */
 DAYS(86400e9)}

convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double { val
 sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)
 return when {
 sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)
 sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale)
 else -> value

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 */

internal actual fun formatToExactDecimals(value: Double, decimals: Int): String {
 val
 rounded = if (decimals == 0) {
 value
 } else {
 val pow = 10.0.pow(decimals)
 @Suppress("DEPRECATION", "DEPRECATION_ERROR")
 kotlin.js.math.ROUND(ABS(value) * pow) / pow * sign(value)  
 return rounded.asDynamic().toFixed(decimals).unsafeCast<String>()
}

internal actual fun formatUpToDecimals(value: Double): Int { return value.asDynamic().toString().localselect("en-us",
 json("maximumFractionDigits" to decimals)).unsafeCast<String>()
}

internal actual fun formatScientific(value: Double): String { return value.asDynamic().toExponential(2).unsafeCast<String>()

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can be found in the license/LICENSE.txt file.

@import org.w3c.dom.

Create a new element with the specified [name].

The element is initialized with

the specified [init] function.

Appends a newly created element with

the specified [name] to this element.

The element is initialized with the specified [init] function.

Appends a newly created element with the specified [name] to

this element.

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license/LICENSE.txt file.

Returns true if the element has the given CSS class style in its ‘class’ attribute.

Add CSS class to element. Has no effect if all specified classes are already in class attribute

of the element.

Removes all [cssClasses] from element. Has no effect if all specified

classes are missing in class attribute of the element.

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license/LICENSE.txt file.

A mutable sequence of characters.

String builder can be used to efficiently perform multiple string manipulation operations.

StringBuilder builds a new string builder with the specified [initial capacity].

StringBuilder builds a new string builder with the specified [initial capacity].

StringBuilder builds a new string builder with the specified [initial capacity].

StringBuilder builds a new string builder with the specified [initial capacity].
This is a natural text representation of the document content.
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder

/**
 * Removes the character at the specified [index] from this string builder and returns this instance.
 * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.
 * @param index the index of `Char` to remove.
 * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun StringBuilder.deleteAt(index: Int): StringBuilder

/**
 * Removes characters in the specified range from this string builder and returns this instance.
 * @param startIndex the beginning (inclusive) of the range to remove.
 * @param endIndex the end (exclusive) of the range to remove.
 * @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder

/**
 * Copies characters from this string builder into the [destination] character array.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the range to copy.
 * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.
 * @param startIndex the beginning (inclusive) of the subarray to copy.
 * @param endIndex the end (exclusive) of the subarray to copy, length of this string builder by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], 0 or when that index is out of the [destination] array indices range.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length)

/**
 * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.
 * Characters are appended in order, starting at specified [startIndex].
 * @param value the array from which characters are appended.
 * @param startIndex the beginning (inclusive) of the subarray to append.
 * @param endIndex the end (exclusive) of the subarray to append.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subarray of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.
 * The inserted characters go in same order as in the [value] array.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param startIndex the beginning (inclusive) of the subarray to insert.
 * @param endIndex the end (exclusive) of the subarray to insert.
 * @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun StringBuilder.insertRange(index: Int, value: CharArray, start: Int, end: Int): StringBuilder

*/
Inserts characters in a subsequence of the specified character sequence [value] into this StringBuilder at the specified [index] and returns this instance.

* @param index the position in this StringBuilder to insert at.
* @param value the character sequence from which a subsequence is inserted.
* @param startIndex the beginning (inclusive) of the subsequence to insert.
* @param endIndex the end (exclusive) of the subsequence to insert.
* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this stringBuilder.

@Suppress("EXTENSION_SHADOWED_BY_MEMBER")
@Deprecated("Use append(value: Any?) instead", ReplaceWith("append(value = obj)"), DeprecationLevel.WARNING)
public inline fun StringBuilder.append(obj: Any?): StringBuilder

/**
 * Builds new string by populating newly created [StringBuilder] using provided [builderAction] and then converting it to [String].
 */
@kotlin.internal.InlineOnly
public inline fun buildString(builderAction: StringBuilder.() -> Unit): String {
    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
    return StringBuilder().apply(builderAction).toString()
}

/**
 * Appends all arguments to the given [StringBuilder], followed by a line feed character (`\n`).
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun StringBuilder.appendLine(value: Any?): StringBuilder = append(value).appendLine()
nodeType == Node.ELEMENT_NODE

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 */

package kotlinx.dom

import org.w3c.dom.*

/** Removes all the children from this node. */
@SinceKotlin("1.4")
public fun Node.clear() {
    while (hasChildNodes()) {
        removeChild(firstChild!!)
    }
}

/**
 * Creates text node and append it to the element.
 * @return this element
 */
@SinceKotlin("1.4")
fun Element.appendText(text: String): Element {
    appendChild(ownerDocument!!.createTextNode(text))
    return this
}

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 */

package org.w3c.dom

@Deprecated("Use UnionMessagePortOrWindowProxy instead.", ReplaceWith("UnionMessagePortOrWindowProxy"))
typealias UnionMessagePortOrWindow = UnionMessagePortOrWindowProxy

@Deprecated("Use `as` instead.", ReplaceWith("`as`"))
var HTMLLinkElement.as_: Element = `as`

@Deprecated("Use `is` instead.", ReplaceWith("`is`"))
var ElementCreationOptions.is_: Element = `is`

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 */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!/n/
// See github.com/kotlin/dukat for details/n/package kotlin.js.n

package org.khronos.webgl

import kotlin.js.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.encryptedmedia.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external interface WebGLContextAttributes {
    var alpha: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var depth: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var stencil: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var antialias: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var premultipliedAlpha: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var preserveDrawingBuffer: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var preferLowPowerToHighPerformance: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var failIfMajorPerformanceCaveat: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["alpha"] = alpha
    o["depth"] = depth
    o["stencil"] = stencil
    o["antialias"] = antialias
    o["premultipliedAlpha"] = premultipliedAlpha
    o["preserveDrawingBuffer"] = preserveDrawingBuffer
    return o
}

public external abstract class WebGLObject

/**
 * Exposes the JavaScript [WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin
 */
public external abstract class WebGLBuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin
 */
public external abstract class WebGLFramebuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin
 */
public external abstract class WebGLProgram : WebGLObject

/**
 * Exposes the JavaScript [WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin
 */
public external abstract class WebGLRenderbuffer : WebGLObject

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[WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin

```kotlin
/**
 * Exposes the JavaScript [WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin

```
WebGLProgram?, name: String): Int
fun getBufferParameter(target: Int, pname: Int): Any?
fun getParameter(pname: Int): Any?
fun getError(): Int
fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?
fun getProgramInfoLog(program: WebGLProgram?): String
fun getRenderbufferParameter(target: Int, pname: Int): Any?
fun getShaderParameter(shader: WebGLShader?, pname: Int): Any?
fun getShaderInfoLog(shader: WebGLShader?): String
fun getVertexAttrib(index: Int, pname: Int): Any?
fun getVertexAttribOffset(index: Int, pname: Int): Int
fun hint(target: Int, mode: Int): Unit
fun isBuffer(buffer: WebGLBuffer?): Boolean
fun isProgram(program: WebGLProgram?): Boolean
fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean
fun isShader(shader: WebGLShader?): Boolean
fun isTexture(texture: WebGLTexture?): Boolean
fun lineWidth(width: Float)
fun linkProgram(program: WebGLProgram?)
fun pixelStorei(pname: Int, param: Int)
fun polygonOffset(factor: Float, units: Float)
fun sampleCoverage(value: Float, invert: Boolean)
fun scissor(x: Int, y: Int, width: Int, height: Int)
fun shaderSource(shader: WebGLShader?, source: String)
fun stencilFunc(func: Int, ref: Int, mask: Int)
fun stencilFuncSeparate(face: Int, func: Int, ref: Int, mask: Int)
fun stencilMask(mask: Int)
fun stencilMaskSeparate(face: Int, mask: Int)
fun stencilOp(fail: Int, zfail: Int, zpass: Int)
fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source:TexImageSource?)
fun texParameteri(target: Int, pname: Int, param: Int)
fun uniform1f(location: WebGLUniformLocation?, x: Float)
fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)
fun uniform1fv(location: WebGLUniformLocation?, v: Array<Float>)
fun uniform1i(location: WebGLUniformLocation?, x: Int)
fun uniform1iv(location: WebGLUniformLocation?, v: Int32Array)
fun uniform1iv(location: WebGLUniformLocation?, v: Array<Int>)
fun uniform2f(location: WebGLUniformLocation?, x: Float, y: Float)
fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array)
fun uniform2fv(location: WebGLUniformLocation?, v: Array<Float>)
fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)
fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array)
fun uniform2iv(location: WebGLUniformLocation?, v: Array<Int>)
fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float)
fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array)
fun uniform3fv(location: WebGLUniformLocation?, v: Array<Float>)
fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int)
fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array)
fun uniform3iv(location: WebGLUniformLocation?, v: Array<Int>)
fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float, w: Float)
fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array)
fun uniform4fv(location: WebGLUniformLocation?, v: Array<Float>)
fun uniform4i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int)
fun uniform4iv(location: WebGLUniformLocation?, v: Int32Array)
fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>)
fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)
fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)
fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)
fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)
fun
RENDERBUFFER_WIDTH: Int
RENDERBUFFER_HEIGHT: Int
RENDERBUFFER_INTERNAL_FORMAT: Int
RENDERBUFFER_RED_SIZE: Int
RENDERBUFFER_GREEN_SIZE: Int
RENDERBUFFER_ALPHA_SIZE: Int
RENDERBUFFER_DEPTH_SIZE: Int
RENDERBUFFER_STENCIL_SIZE: Int
FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int
FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int
COLOR_ATTACHMENT0: Int
DEPTH_ATTACHMENT: Int
STENCIL_ATTACHMENT: Int
FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int
FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int
COLOR_ATTACHMENT1: Int
DEPTH_STENCIL_ATTACHMENT: Int
NONE: Int
FRAMEBUFFER_COMPLETE: Int
FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int
FRAMEBUFFER_UNSUPPORTED: Int
FRAMEBUFFER_BINDING: Int
RENDERBUFFER_BINDING: Int
MAX_RENDERBUFFER_SIZE: Int
INVALID_FRAMEBUFFER_OPERATION: Int
UNPACK_FLIP_Y_WEBGL: Int
UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int
CONTEXT_LOST_WEBGL: Int
UNPACK_COLORSPACE_CONVERSION_WEBGL: Int
BROWSER_DEFAULT_WEBGL: Int
DEPTH_BUFFER_BIT: Int
STENCIL_BUFFER_BIT: Int
COLOR_BUFFER_BIT: Int
POINTS: Int
LINES: Int
LINE_LOOP: Int
LINE_STRIP: Int
TRIANGLES: Int
TRIANGLE_STRIP: Int
TRIANGLE_FAN: Int
ZERO: Int
ONE: Int
SRC_COLOR: Int
ONE_MINUS_SRC_COLOR: Int
SRC_ALPHA: Int
ONE_MINUS_SRC_ALPHA: Int
DST_COLOR: Int
ONE_MINUS_DST_COLOR: Int
SRC_ALPHA_SATURATE: Int
FUNC_ADD: Int
BLEND_EQUATION: Int
BLEND_EQUATION_RGB: Int
BLEND_EQUATION_ALPHA: Int
FUNC_SUBTRACT: Int
BLEND_SRC_RGB: Int
BLEND_DST_RGB: Int
BLEND_SRC_ALPHA: Int
BLEND_DST_ALPHA: Int
CONSTANT_COLOR: Int
ONE_MINUS_CONSTANT_COLOR: Int
CONSTANT_ALPHA: Int
ONE_MINUS_CONSTANT_ALPHA: Int
ARRAY_BUFFER: Int
ELEMENT_ARRAY_BUFFER: Int
ARRAY_BUFFER_BINDING: Int
ELEMENT_ARRAY_BUFFER_BINDING: Int
STREAM_DRAW: Int
DYNAMIC_DRAW: Int
BUFFER_SIZE: Int
BUFFER_USAGE: Int
CURRENT_VERTEX_ATTRIB: Int
FRONT: Int
BACK: Int
FRONT_AND_BACK: Int
CULL_FACE: Int
BLEND: Int
DITHER: Int
STENCIL_TEST: Int
DEPTH_TEST: Int
SCISSOR_TEST: Int
POLYGON_OFFSET_FILL: Int
SAMPLE_ALPHA_TO_COVERAGE: Int
SAMPLE_COVERAGE: Int
NO_ERROR: Int
INVALID_ENUM: Int
INVALID_VALUE: Int
INVALID_OPERATION: Int
OUT_OF_MEMORY: Int
CW: Int
CCW: Int
LINE_WIDTH: Int
ALIASED_POINT_SIZE_RANGE: Int
ALIASED_LINE_WIDTH_RANGE: Int
CULL_FACE_MODE: Int
FRONT_FACE: Int
DEPTH_RANGE: Int
DEPTH_WRITEMASK: Int
DEPTH_CLEAR_VALUE: Int
DEPTH_FUNC: Int
STENCIL_CLEAR_VALUE: Int
STENCIL_FUNC: Int
STENCIL_FAIL: Int
STENCIL_PASS_DEPTH_FAIL: Int
STENCIL_PASS_DEPTH_PASS: Int
STENCIL_REF: Int
STENCIL_VALUE_MASK: Int
STENCIL_WRITEMASK: Int
STENCIL_BACK_FUNC: Int
STENCIL_BACK_FAIL: Int

```kotlin
BOOL_VEC4: Int
val FLOAT_MAT2: Int
val FLOAT_MAT3: Int
val FLOAT_MAT4: Int
val SAMPLER_2D: Int
val SAMPLER_CUBE: Int
val VERTEX_ATTRIB_ARRAY_ENABLED: Int
val VERTEX_ATTRIB_ARRAY_SIZE: Int
val VERTEX_ATTRIB_ARRAY_STRIDE: Int
val VERTEX_ATTRIB_ARRAY_TYPE: Int
val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int
val VERTEX_ATTRIB_ARRAY_POINTER: Int
val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int
val IMPLEMENTATION_COLOR_READ_TYPE: Int
val IMPLEMENTATION_COLOR_READ_FORMAT: Int
val COMPILE_STATUS: Int
val LOW_FLOAT: Int
val MEDIUM_FLOAT: Int
val HIGH_FLOAT: Int
val LOW_INT: Int
val MEDIUM_INT: Int
val HIGH_INT: Int
val FRAMEBUFFER: Int
val RENDERBUFFER: Int
val RGBA4: Int
val RGB5_A1: Int
val RGB565: Int
val DEPTH_COMPONENT16: Int
val STENCIL_INDEX: Int
val STENCIL_INDEX8: Int
val DEPTH_STENCIL: Int
val RENDERBUFFER_WIDTH: Int
val RENDERBUFFER_HEIGHT: Int
val RENDERBUFFER_INTERNAL_FORMAT: Int
val RENDERBUFFER_RED_SIZE: Int
val RENDERBUFFER_GREEN_SIZE: Int
val RENDERBUFFER_ALPHA_SIZE: Int
val RENDERBUFFER_DEPTH_SIZE: Int
val RENDERBUFFER_STENCIL_SIZE: Int
val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int
val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int
val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int
val COLOR_ATTACHMENT0: Int
val DEPTH_ATTACHMENT: Int
val STENCIL_ATTACHMENT: Int
val DEPTH_STENCIL_ATTACHMENT: Int
val NONE: Int
val FRAMEBUFFER_COMPLETE: Int
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int
val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int
val FRAMEBUFFER_UNSUPPORTED: Int
val FRAMEBUFFER_BINDING: Int
val RENDERBUFFER_BINDING: Int
val MAX_RENDERBUFFER_SIZE: Int
val INVALID_FRAMEBUFFER_OPERATION: Int
val UNPACK_FLIP_Y_WEBGL: Int
val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int
val CONTEXT_LOST_WEBGL: Int
val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int

/**
 * Exposes the JavaScript
[WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin

 * An explicit open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event
 * open val statusMessage: String
 * companion object {val NONE: Short
 * CAPTURING_PHASE: Short
 * AT_TARGET: Short
 * BUBBLING_PHASE: Short
 * }public override fun WebGLContextEventInit {val var statusMessage: String
 * get() = definedExternally
 * set(value) = definedExternally
 * } }

val buffer: ArrayBuffer
val byteOffset: Int
val byteLength: Int

/**
 * Exposes the JavaScript
[Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin

 * An explicit open class Int8Array(length: Int) : ArrayBufferView
 * constructor(array: Int8Array)
 */
```
Array(Byte)

constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
open val length: Int
override val buffer: ArrayBuffer
override val byteOffset: Int
override val byteLength: Int
fun set(array: Int8Array, offset: Int = definedExternally)
fun set(array: Array<Byte>, offset: Int = definedExternally)
fun subarray(start: Int, end: Int): Int8Array

companion object {
    val BYTES_PER_ELEMENT: Int
}

@kotlin.internal.InlineOnly
public inline operator fun Int8Array.get(index: Int): Byte = asDynamic()[(index)]

@kotlin.internal.InlineOnly
public inline operator fun Int8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript [Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin
 */
public external open class Uint8Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Uint8Array)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Uint8Array, offset: Int = definedExternally)
    fun set(array: Array<Byte>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Uint8Array

    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Uint8Array.get(index: Int): Byte = asDynamic()[(index)]

@kotlin.internal.InlineOnly
public inline operator fun Uint8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript [Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin
 */
public external open class Uint8ClampedArray : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Uint8ClampedArray)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Uint8ClampedArray, offset: Int = definedExternally)
    fun set(array: Array<Byte>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Uint8ClampedArray

    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Uint8ClampedArray.get(index: Int): Byte = asDynamic()[(index)]

@kotlin.internal.InlineOnly
public inline operator fun Uint8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript [Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin
 */
public external open class Int16Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Int16Array)
    constructor(array: Array<Short>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Int16Array, offset: Int = definedExternally)
    fun set(array: Array<Short>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Int16Array

    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Int16Array.get(index: Int): Short = asDynamic()[(index)]

@kotlin.internal.InlineOnly
public inline operator fun Int16Array.set(index: Int, value: Short) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript [Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin
 */
public external open class Uint16Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Uint16Array)
    constructor(array: Array<Short>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Uint16Array, offset: Int = definedExternally)
    fun set(array: Array<Short>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Uint16Array

    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Uint16Array.get(index: Int): Short = asDynamic()[(index)]

@kotlin.internal.InlineOnly
public inline operator fun Uint16Array.set(index: Int, value: Short) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript [Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin
 */
public external open class Int32Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Int32Array)
    constructor(array: Array<Int>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
override val byteLength: Int
fun set(array: Int32Array, offset: Int = definedExternally)
fun set(array: Array<Int>, offset: Int = definedExternally)
fun set(array: Int32Array, offset: Int = definedExternally)
fun set(array: Array<Int>, offset: Int = definedExternally)
fun subarray(start: Int, end: Int): Int32Array

companion object
{
val BYTES_PER_ELEMENT: Int
}

@kotlin.internal.InlineOnly
[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin
*\public external open class Uint32Array : ArrayBufferView {\nconstructor(length: Int)\nconstructor(array: Uint32Array)\nconstructor(array: Array<Int>)\nconstructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\nopen val byteLength: Int
fun set(array: Uint32Array, offset: Int = definedExternally)
fun set(array: Array<Int>, offset: Int = definedExternally)
fun subarray(start: Int, end: Int): Uint32Array

companion object
{
val BYTES_PER_ELEMENT: Int
}

@kotlin.internal.InlineOnly
[Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin
*\public external open class Float32Array : ArrayBufferView {\nconstructor(length: Int)\nconstructor(array: Float32Array)\nconstructor(array: Array<Float>)\nconstructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\nopen val length: Int
override val byteOffset: Int
override val byteLength: Int
fun set(array: Float32Array, offset: Int = definedExternally)
fun set(array: Array<Float>, offset: Int = definedExternally)
fun subarray(start: Int, end: Int): Float32Array

companion object
{
val BYTES_PER_ELEMENT: Int
}

@kotlin.internal.InlineOnly
[Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin
*\public external open class Float64Array : ArrayBufferView {\nconstructor(length: Int)\nconstructor(array: Float64Array)\nconstructor(array: Array<Double>)\nconstructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\nopen val length: Int
override val byteOffset: Int
override val byteLength: Int
fun set(array: Float64Array, offset: Int = definedExternally)
fun set(array: Array<Double>, offset: Int = definedExternally)
fun subarray(start: Int, end: Int): Float64Array

companion object
{
val BYTES_PER_ELEMENT: Int
}

@kotlin.internal.InlineOnly
public inline operator fun Float64Array.get(index: Int): Double = asDynamic()[index]@kotlin.internal.InlineOnly\public inline operator fun Float64Array.get(index: Int): Double = asDynamic()[index]@kotlin.internal.InlineOnly\public inline operator fun Float64Array.get(index: Int): Double = asDynamic()[index] = value }@kotlin/* * Exposes the JavaScript
[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin
*\public external open class DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) : ArrayBufferView {\noverride val byteLength: Int
fun getInt8(byteOffset: Int): Byte
fun getUint8(byteOffset: Int): Byte
fun getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short
fun getUint16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short
fun getInt32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int
fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int
fun getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float
fun getFloat64(byteOffset: Int, littleEndian: Boolean = definedExternally): Double
fun setInt8(byteOffset: Int, value: Byte)
fun setUint8(byteOffset: Int, value: Byte)
fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally): Int
fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally): Int
fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally): Int
fun setUint32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally): Int
fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean = definedExternally): Int
fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean = definedExternally)
/**
 * Exposes the JavaScript
 * [CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin
 */
public abstract class CSSStyleDeclaration : ItemArrayLike<String> {
    open var cssText: String
    open val parentRule: CSSRule?
    open val cssFloat: String
    open val alignContent: String
    open val alignItems: String
    open val alignSelf: String
    open val animation: String
    open val animationDelay: String
    open var animationDirection: String
    open var animationDuration: String
    open var animationFillMode: String
    open var animationIterationCount: String
    open var animationName: String
    open var animationPlayState: String
    open var animationTimingFunction: String
    open var background: String
    open var backgroundAttachment: String
    open var backgroundColor: String
    open var backgroundImage: String
    open var backgroundOrigin: String
    open var backgroundPosition: String
    open var backgroundRepeat: String
    open var borderBottom: String
    open var borderBottomColor: String
    open var borderBottomLeftRadius: String
    open var borderBottomRightRadius: String
    open var borderBottomStyle: String
    open var borderBottomWidth: String
    open var borderCollapse: String
    open var borderColor: String
    open var borderImage: String
    open var borderImageOutset: String
    open var borderImageRepeat: String
    open var borderImageSlice: String
    open var borderImageSource: String
    open var borderImageWidth: String
    open var borderLeft: String
    open var borderLeftColor: String
    open var borderLeftStyle: String
    open var borderLeftWidth: String
    open var borderRadius: String
    open var borderRight: String
    open var borderRightColor: String
    open var borderRightStyle: String
    open var borderRightWidth: String
    open var borderSpacing: String
    open var borderTop: String
    open var borderTopColor: String
    open var borderTopLeftRadius: String
    open var borderTopRightRadius: String
    open var borderTopStyle: String
    open var borderTopWidth: String
    open var borderWidth: String
    open var bottom: String
    open var boxDecorationBreak: String
    open var boxShadow: String
    open var boxSizing: String
    open var breakAfter: String
    open var breakBefore: String
    open var breakInside: String
    open var captionSide: String
    open var clear: String
    open var clip: String
    open var color: String
    open var columnCount: String
    open var columnFill: String
    open var columnGap: String
    open var columnRule: String
    open var columnRuleColor: String
    open var columnRuleStyle: String
    open var columnRuleWidth: String
    open var columnSpan: String
    open var columns: String
    open var content: String
    open var counterIncrement: String
    open var counterReset: String
    open var cursor: String
    open var display: String
    open var emptyCells: String
    open var filter: String
    open var flex: String
    open var flexBasis: String
    open var flexDirection: String
    open var flexFlow: String
    open var flexGrow: String
    open var flexShrink: String
    open var flexWrap: String
    open var font: String
    open var fontStyle: String
    open var fontStretch: String
    open var fontWeight: String
    open var height: String
    open var hyphens: String
    open var imageOrientation: String
    open var imageRendering: String
    open var imageResolution: String
    open var imageSmoothing: String
    open var imeMode: String
    open var justifyContent: String
    open var justifyItems: String
    open var justifySelf: String
    open var justifyWith: String
    open var left: String
    open var letterSpacing: String
    open var lineBreak: String
    open var lineHeight: String
    open var listStyle: String
    open var listStyleImage: String
    open var listStylePosition: String
    open var listStyleType: String
    open var margin: String
    open var marginRight: String
    open var marginTop: String
    open var marginBottom: String
    open var marginLeft: String
    open var sizing: String
    open var overset: String
    open var oversetMove: String
    open var oversetPosition: String
    open var oversetSize: String
    open var oversetType: String
    open var oversetValue: String
    open var oversetVisibility: String
    open var outline: String
    open var outlineColor: String
    open var outlineOffset: String
    open var outlineStyle: String
    open var outlineWidth: String
    open var padding: String
    open var paddingEnd: String
    open var paddingStart: String
    open var paddingBlock: String
    open var paddingBlockEnd: String
    open var paddingBlockStart: String
    open var paddingInline: String
    open var paddingInlineEnd: String
    open var paddingInlineStart: String
    open var paddingBlockAbsolute: String
    open var paddingBlockEndAbsolute: String
    open var paddingBlockStartAbsolute: String
    open var paddingInlineAbsolute: String
    open var paddingInlineEndAbsolute: String
    open var paddingInlineStartAbsolute: String
    open var paddingLeft: String
    open var paddingRight: String
    open var paddingTop: String
    open var paddingBottom: String
    open var pointerEvents: String
    open var position: String
    open var resize: String
    open var right: String
    open var rotate: String
    open var rotate3d: String
    open var rotateIn: String
    open var rotateInBottom: String
    open var rotateInBottomLeft: String
    open var rotateInBottomRight: String
    open var rotateInLeft: String
    open var rotateInLeftMiddle: String
    open var rotateInMiddle: String
    open var rotateInMiddleLeft: String
    open var rotateInMiddleRight: String
    open var rotateInRight: String
    open var rotateInRightMiddle: String
    open var rotateInTop: String
    open var rotateInTopLeft: String
    open var rotateInTopRight: String
    open var rotation: String
    open var scroll: String
    open var scrollColor: String
    open var scrollDistance: String
    open var scrollDuration: String
    open var scrollMode: String
    open var scrollOffset: String
    open var scrollPosition: String
    open var scrollSnap: String
    open var scrollSnapAlign: String
    open var scrollSnapStop: String
    open var scrollSnapType: String
    open var scrollSnapValue: String
    open var scrollStep: String
    open var scrollStepMode: String
    open var scrollStepValue: String
    open var scrollStop: String
    open var scrollStopDestination: String
    open var scrollStopOnScroll: String
    open var scrollAbsolute: String
    open var scrollPositionAbsolute: String
    open var scrollTop: String
    open var scrollBottom: String
    open var scrollDirection: String
    open var shadow: String
    open var shadowBlur: String
    open var shadowColor: String
    open var shadowOffset: String
    open var shadowPosition: String
    open var spacing: String
    open var spacingType: String
    open var spacingValue: String
    open var spacingUnit: String
    open var spacingStyle: String
    open var spacingUnitStyle: String
    open var spacingStyleValue: String
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    open var spacingStyleUnitStyleUnitStyleStyleStyleStyleStyleStyleStyleValue: String
    open var spacingStyleUnitStyleUnitStyleStyleStyleStyleStyleStyleStyleValue: String
    open var spacingStyleU
definedExternally
    var audioCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */
    get() = definedExternally
    set(value) = definedExternally

    var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */
    get() = definedExternally
    set(value) = definedExternally

    var distinctiveIdentifier: MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */
    get() = definedExternally
    set(value) = definedExternally

    var persistentState: MediaKeysRequirement?
        get() = definedExternally
    set(value) = definedExternally

    var sessionTypes: Array<String>?
        get() = definedExternally
        set(value) = definedExternally

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["label"] = label
    o["initDataTypes"] = initDataTypes
    o["audioCapabilities"] = audioCapabilities
    o["videoCapabilities"] = videoCapabilities
    o["distinctiveIdentifier"] = distinctiveIdentifier
    o["persistentState"] = persistentState
    o["sessionTypes"] = sessionTypes
    return o
}

public external interface MediaKeySystemMediaCapability {
    var contentType: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var robustness: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun MediaKeySystemMediaCapability(contentType: String? = "", robustness: String? = ""): MediaKeySystemMediaCapability {
    val o = js("({})")
    o["contentType"] = contentType
    o["robustness"] = robustness
    return o
}

public external abstract class MediaKeySystemAccess {
    open
    val keySystem: String
    fun getConfiguration(): MediaKeySystemConfiguration
    fun createMediaKeys(): Promise<MediaKeys>
}

public external abstract class MediaKeys {
    fun createSession(sessionType: MediaKeySessionType = definedExternally): MediaKeySession
}

public external abstract class MediaKeySession : EventTarget {
    open val sessionId: String
    open val expiration: Double
    open val closed: Promise<Unit>
    open val keyStatuses: MediaKeyStatusMap
    open var onkeystatuseschange: ((Event) -> dynamic)?
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun generateRequest(initDataType: String, initData: dynamic): Promise<Unit>
    fun load(sessionId: String): Promise<Boolean>
    fun update(response: dynamic): Promise<Unit>
    fun close(): Promise<Unit>
    fun remove(): Promise<Unit>
}

public external abstract class MediaKeyStatusMap {
    open val size: Int
    fun has(keyId: dynamic): Boolean
    fun get(keyId: dynamic): Any?
}

public external open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) : Event {
    open val initDataType: String
    open val initData: ArrayBuffer?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MediaKeyMessageEventInit : EventInit {
    var initDataType: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally

    var message: ArrayBuffer?
        get() = definedExternally
        set(value) = definedExternally

    var bubbles: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    var composed: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    var cancelable: Boolean?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["message"] = message
    o["initDataType"] = initDataType
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external abstract class MediaEncryptedEvent(type: String, eventInitDict: MediaEncryptedEventInit) : Event {
    open val initDataType: String
    open val initData: ArrayBuffer?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MediaEncryptedEventInit : EventInit {
    var initDataType: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally

    var message: ArrayBuffer?
        get() = definedExternally
        set(value) = definedExternally

    var bubbles: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    var composed: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    var cancelable: Boolean?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["message"] = message
    o["initDataType"] = initDataType
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external abstract class MediaKeyStatusChangeEvent(type: String, eventInitDict: MediaKeyStatusChangeEventInit) : Event {
    open val keyId: String
    open val onmessage: ((MessageEvent) -> dynamic)?
    open val onmessageerror: ((ErrorEvent) -> dynamic)?
    fun generateRequest(keyId: String, eventInitDict: MediaKeyStatusChangeEventInit): Promise<Unit>
}

public external abstract class MediaKeyStatusChangeEventInit : EventInit {
    var keyId: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally

    var message: ArrayBuffer?
        get() = definedExternally
        set(value) = definedExternally

    var bubbles: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    var composed: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    var cancelable: Boolean?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["message"] = message
    o["keyId"] = keyId
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external abstract class MediaKeyEvent(type: String, eventInitDict: MediaKeyEventInit) : Event {
    open val onmessage: ((MessageEvent) -> dynamic)?
    open val onmessageerror: ((ErrorEvent) -> dynamic)?
    fun generateRequest(eventInitDict: MediaKeyEventInit): Promise<Unit>
}

public external interface MediaKeyEventInit : EventInit {
    var type: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally

    var message: ArrayBuffer?
        get() = definedExternally
        set(value) = definedExternally

    var bubbles: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    var composed: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    var cancelable: Boolean?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["message"] = message
    o["type"] = type
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external abstract class MediaKeyChangeEvent(type: String, eventInitDict: MediaKeyChangeEventInit) : Event {
    open val onmessage: ((MessageEvent) -> dynamic)?
    open val onmessageerror: ((ErrorEvent) -> dynamic)?
    fun generateRequest(eventInitDict: MediaKeyChangeEventInit): Promise<Unit>
}

public external interface MediaKeyChangeEventInit : EventInit {
    var type: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally

    var message: ArrayBuffer?
        get() = definedExternally
        set(value) = definedExternally

    var bubbles: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    var composed: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    var cancelable: Boolean?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["message"] = message
    o["type"] = type
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.encryptedmedia.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript
 * [UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin
 */
public external open class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {
    open val view: Window?
    open val detail: Int

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface UIEventInit : EventInit {
    var view: Window? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var detail: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    return o
}

/**
 * Exposes the JavaScript
 * [FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin
 */
public external open class FocusEvent(type: String, eventInitDict: FocusEventInit = definedExternally) : UIEvent {
    open val relatedTarget: EventTarget?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface FocusEventInit : UIEventInit {
    var relatedTarget: EventTarget? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["relatedTarget"] = relatedTarget
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    return o
}

/**
 * Exposes the JavaScript
 * [MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin
 */
public external open class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent, UnionElementOrMouseEvent {
    open val screenX: Int
    open val screenY: Int
    open val clientX: Int
    open val clientY: Int
    open val ctrlKey: Boolean
    open val shiftKey: Boolean
    open val altKey: Boolean
    open val metaKey: Boolean
    open val region: String?
    open val pageX: Double
    open val pageY: Double
    open val x: Double
    open val y: Double
    open val offsetX: Double
    open val offsetY: Double
    fun getModifierState(keyArg: String): Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MouseEventInit : EventModifierInit {
    var screenX: Int? /* = 0 */
        get() = definedExternally
    var screenY: Int? /* = 0 */
        get() = definedExternally
    var clientX: Int? /* = 0 */
        get() = definedExternally
    var clientY: Int? /* = 0 */
        get() = definedExternally
    var button: Short? /* = 0 */
        get() = definedExternally
    var buttons: Short? /* = 0 */
        get() = definedExternally
    var relatedTarget: EventTarget? /* = null */
        get() = definedExternally
    var region: String? /* = null */
        get() = definedExternally
    var view: Window? /* = null */
        get() = definedExternally
    var defaultPrevented: Boolean
        get() = definedExternally
        set(value) = definedExternally
        addEventListener: ((type: String) -> Unit) /* = null */
        removeEventListener: ((type: String) -> Unit) /* = null */
        dispatchEvent: ((event: Event) -> Unit) /* = null */
    var composed: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var composedError: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var originalEvent: Event
        get() = definedExternally
        set(value) = definedExternally
    var originalSource: Element
        get() = definedExternally
        set(value) = definedExternally
    var type: String
        get() = definedExternally
        set(value) = definedExternally
    var eventPhase: Short
        get() = definedExternally
        set(value) = definedExternally
    var srcElement: Element
        get() = definedExternally
        set(value) = definedExternally
    var target: EventTarget
        get() = definedExternally
        set(value) = definedExternally
    var currentTarget: EventTarget
        get() = definedExternally
        set(value) = definedExternally
    var stopImmediatePropagation: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var cancelable: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var originEvent: Event
        get() = definedExternally
        set(value) = definedExternally
    var originalTarget: EventTarget
        get() = definedExternally
        set(value) = definedExternally
    var originalSourceElement: Element
        get() = definedExternally
        set(value) = definedExternally
    var originalEventPhase: Short
        get() = definedExternally
        set(value) = definedExternally
    var originalCurrentTarget: EventTarget
        get() = definedExternally
        set(value) = definedExternally
    var originalStopImmediatePropagation: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var originalCancelable: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var originalOriginEvent: Event
        get() = definedExternally
        set(value) = definedExternally
    var originalOriginalTarget: EventTarget
        get() = definedExternally
        set(value) = definedExternally
    var originalOriginalSourceElement: Element
        get() = definedExternally
        set(value) = definedExternally
    var originalCurrentEventPhase: Short
        get() = definedExternally
        set(value) = definedExternally
    var originalEventPhase: Short
        get() = definedExternally
        set(value) = definedExternally
    @kotlin.internal.InlineOnly
    val o = js("({})")
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external interface EventModifierInit : UIEventInit {
    var ctrlKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var shiftKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var altKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var metaKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierAltGraph: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierCapsLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierFn: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierFnLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierHyper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierNumLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierScrollLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSuper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbol: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbolLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript
[WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin
 */
public external open class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {
    open val deltaX: Double
    open val deltaY: Double
    open val deltaZ: Double

    companion object {
        val DOM_DELTA_PIXEL: Int
        val DOM_DELTA_LINE: Int
        val DOM_DELTA_PAGE: Int
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}
definedExternally
    var deltaY: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaZ: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaMode: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally

@kotlin.internal.InlineOnly
public inline fun WheelEventInit(deltaX: Double? = 0.0,
    deltaY: Double? = 0.0,
    deltaZ: Double? = 0.0,
    deltaMode: Int? = 0,
    screenX: Int? = 0,
    screenY: Int? = 0,
    clientX: Int? = 0,
    clientY: Int? = 0,
    button: Short? = 0,
    buttons: Short? = 0,
    relatedTarget: EventTarget? = null,
    region: String? = null,
    ctrlKey: Boolean? = false,
    shiftKey: Boolean? = false,
    altKey: Boolean? = false,
    metaKey: Boolean? = false,
    modifierAltGraph: Boolean? = false,
    modifierCapsLock: Boolean? = false,
    modifierFn: Boolean? = false,
    modifierFnLock: Boolean? = false,
    modifierHyper: Boolean? = false,
    modifierNumLock: Boolean? = false,
    modifierScrollLock: Boolean? = false,
    modifierSuper: Boolean? = false,
    modifierSymbol: Boolean? = false,
    modifierSymbolLock: Boolean? = false,
    view: Window? = null,
    detail: Int? = 0,
    bubbles: Boolean? = false,
    cancelable: Boolean? = false,
    composed: Boolean? = false): WheelEventInit {
    val o = js("({})")
    o["deltaX"] = deltaX
    o["deltaY"] = deltaY
    o["deltaZ"] = deltaZ
    o["deltaMode"] = deltaMode
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to Kotlin
 */
public external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {
    open val data: String
    open val isComposing: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface InputEventInit : UIEventInit {
        var data: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
        var isComposing: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["data"] = data
        o["isComposing"] = isComposing
        o["view"] = view
        o["detail"] = detail
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    /**
     * Exposes the JavaScript [KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin
     */
    public external open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {
        open val key: String
        open val code: String
        open val location: Int
        open val ctrlKey: Boolean
        open val shiftKey: Boolean
        open val altKey: Boolean
        open val metaKey: Boolean
        open val repeat: Boolean
        open val isComposing: Boolean
        open val charCode: Int
        open val keyCode: Int
        open val which: Int
        fun getModifierState(keyArg: String): Boolean

        companion object {
            val DOM_KEY_LOCATION_STANDARD: Int
            val DOM_KEY_LOCATION_LEFT: Int
            val DOM_KEY_LOCATION_RIGHT: Int
            val DOM_KEY_LOCATION_NUMPAD: Int
        }
    }

    public external interface KeyboardEventInit : EventModifierInit {
        var key: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
        var code: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
        var location: Int? /* = 0 */
            get() = definedExternally
            set(value) = definedExternally
        var repeat: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
        var isComposing: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
        var charCode: Int? /* = 0 */
            get() = definedExternally
            set(value) = definedExternally
        var keyCode: Int? /* = 0 */
            get() = definedExternally
            set(value) = definedExternally
        var which: Int? /* = 0 */
            get() = definedExternally
            set(value) = definedExternally
        var ctrlKey: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
        var shiftKey: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
        var altKey: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
        var metaKey: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
        var getModifierState: (String) -> Boolean

        @kotlin.internal.InlineOnly
            val o = js("({})")
            o["key"] = key
            o["code"] = code
            o["location"] = location
            o["ctrlKey"] = ctrlKey
            o["shiftKey"] = shiftKey
            o["altKey"] = altKey
            o["metaKey"] = metaKey
            o["repeat"] = repeat
            o["isComposing"] = isComposing
            o["charCode"] = charCode
            o["keyCode"] = keyCode
            o["which"] = which
            return o
        }
}
definedExternally
        set(value) = definedExternally
        }

@kotlin.internal.InlineOnly
public inline fun

KeyboardEventInit(key: String? = "", code: String? = "", location: Int? = 0, repeat: Boolean? = false,
    isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false,
    metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn:
    Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock:
    Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol:
    val o =

        o["view"] = view
        o["detail"] = detail
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    companion object {
        val NONE:
        val CAPTURING_PHASE:
        val AT_TARGET:
        val BUBBLING_PHASE:

    }

    /**
     * Exposes the JavaScript
     * [Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin
     */
    public external abstract
    class Event(type: String, eventInitDict: EventInit = definedExternally) {
        open val type: String
        open val target:
        open val currentTarget: EventTarget?
        open val eventPhase: Short
        open val bubbles: Boolean
        open val cancelable: Boolean
        open val defaultPrevented: Boolean
        open val composed: Boolean
        open val isTrusted: Boolean
        open val timeStamp: Number

        fun composedPath():
        fun stopPropagation()
        fun stopImmediatePropagation()
        fun preventDefault()

        fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)

        companion object {
            val NONE:
            val CAPTURING_PHASE:
            val AT_TARGET:
            val BUBBLING_PHASE:

        }

        /**
         * Exposes the JavaScript
         * [EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin
         */
        public external interface EventListener {
            fun handleEvent(event: Event)
        }

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        definedExternally
        set(value) = definedExternally
        \n        \n        inline fun
```kotlin
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    \n
DOMStringMap.map.get(name: String): String? = asDynamic()[name]@kotlin.internal.InlineOnly

DOMStringMap.map.set(name: String, value: String) { asDynamic()[name] = value }\n
companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short

    /**
     * Exposes the JavaScript [DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin
     */
    public external abstract class DOMStringMap

    operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]

    operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
    }

    /**
     * Exposes the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin
     */
    public external abstract class HTMLHeadElement : HTMLElement {

        companion object {
            val ELEMENT_NODE: Short
            val ATTRIBUTE_NODE: Short
            val TEXT_NODE: Short
            val CDATA_SECTION_NODE: Short
            val ENTITY_REFERENCE_NODE: Short
            val ENTITY_NODE: Short
            val PROCESSING_INSTRUCTION_NODE: Short
            val COMMENT_NODE: Short
            val DOCUMENT_NODE: Short
            val DOCUMENT_TYPE_NODE: Short
            val DOCUMENT_FRAGMENT_NODE: Short
            val NOTATION_NODE: Short
        }

        /**
         * Exposes the JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin
         */
        public external abstract class HTMLTitleElement : HTMLElement {

            companion object {
                val ELEMENT_NODE: Short
                val ATTRIBUTE_NODE: Short
                val TEXT_NODE: Short
                val CDATA_SECTION_NODE: Short
                val ENTITY_REFERENCE_NODE: Short
                val ENTITY_NODE: Short
                val PROCESSING_INSTRUCTION_NODE: Short
                val COMMENT_NODE: Short
                val DOCUMENT_NODE: Short
                val DOCUMENT_TYPE_NODE: Short
                val DOCUMENT_FRAGMENT_NODE: Short
                val NOTATION_NODE: Short
            }

            /**
             * Exposes the JavaScript [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin
             */
            public external abstract class HTMLBaseElement : HTMLElement {

                companion object {
                    val ELEMENT_NODE: Short
                    val ATTRIBUTE_NODE: Short
                    val TEXT_NODE: Short
                    val CDATA_SECTION_NODE: Short
                    val ENTITY_REFERENCE_NODE: Short
                    val ENTITY_NODE: Short
                    val PROCESSING_INSTRUCTION_NODE: Short
                    val COMMENT_NODE: Short
                    val DOCUMENT_NODE: Short
                    val DOCUMENT_TYPE_NODE: Short
                    val DOCUMENT_FRAGMENT_NODE: Short
                    val NOTATION_NODE: Short
                }
            }
        }
    }
```
val DOCUMENT_POSITION_CONTAINED_BY: Short = val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short = * Exposes the JavaScript
[HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin
*/

/**
 * Exposes the JavaScript

[HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin
 */

/**
 * Exposes the JavaScript

[HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin
 */

/**
 * Exposes the JavaScript

[HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin
 */

/**
 * Exposes the JavaScript

[HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin
 */


//End
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DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

\n
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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\n
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short


Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin

```kotlin
public external abstract class HTMLQuoteElement : HTMLElement {
    open var cite: String

    companion object {

    }
}
```

Exposes the JavaScript [HTMLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOListElement) to Kotlin

```kotlin
public external abstract class HTMLOListElement : HTMLElement {
    open var reversed: Boolean
    open var start: Int
    open var type: String
    open var compact: Boolean

    companion object {

    }
}
```

Exposes the JavaScript [HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin

```kotlin
public external abstract class HTMLUListElement : HTMLElement {
    open var compact: Boolean
    open var type: String

    companion object {

    }
}
```

Exposes the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin

```kotlin
public external abstract class HTMLLIElement : HTMLElement {
    open var value: Int
    open var type: String

    companion object {

    }
}
```
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

* Exposes the JavaScript [HTMLListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLListElement) to Kotlin

unval ELEMENT_NODE: Short

val ATTRIBUTE_NODE: Short

val TEXT_NODE: Short

val ENTITY_NODE: Short

val ENTITY_REFERENCE_NODE: Short

val DOCUMENT_NODE: Short

val DOCUMENT_TYPE_NODE: Short

val DOCUMENT_FRAGMENT_NODE: Short

val DOCUMENT_POSITION_DISCONNECTED: Short

val DOCUMENT_POSITION_PRECEDING: Short

val DOCUMENT_POSITION_FOLLOWING: Short

val DOCUMENT_POSITION_CONTAINS: Short

val DOCUMENT_POSITION_CONTAINED_BY: Short

val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

* Exposes the JavaScript [HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin

unval ELEMENT_NODE: Short

val ATTRIBUTE_NODE: Short

val TEXT_NODE: Short

val CDATA_SECTION_NODE: Short

val ENTITY_REFERENCE_NODE: Short

val ENTITY_NODE: Short

val ENTITY_REFERENCE_NODE: Short

val DOCUMENT_NODE: Short

val DOCUMENT_TYPE_NODE: Short

val DOCUMENT_FRAGMENT_NODE: Short

val DOCUMENT_POSITION_DISCONNECTED: Short

val DOCUMENT_POSITION_PRECEDING: Short

val DOCUMENT_POSITION_FOLLOWING: Short

val DOCUMENT_POSITION_CONTAINS: Short

val DOCUMENT_POSITION_CONTAINED_BY: Short

val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

* Exposes the JavaScript [HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin

unval ELEMENT_NODE: Short

val ATTRIBUTE_NODE: Short

val TEXT_NODE: Short

val CDATA_SECTION_NODE: Short

val ENTITY_REFERENCE_NODE: Short

val ENTITY_NODE: Short

val ENTITY_REFERENCE_NODE: Short

val DOCUMENT_NODE: Short

val DOCUMENT_TYPE_NODE: Short

val DOCUMENT_FRAGMENT_NODE: Short

val DOCUMENT_POSITION_DISCONNECTED: Short

val DOCUMENT_POSITION_PRECEDING: Short

val DOCUMENT_POSITION_FOLLOWING: Short

val DOCUMENT_POSITION_CONTAINS: Short

val DOCUMENT_POSITION_CONTAINED_BY: Short

val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

* Exposes the JavaScript [HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin

unval ELEMENT_NODE: Short

val ATTRIBUTE_NODE: Short

val TEXT_NODE: Short

val CDATA_SECTION_NODE: Short

val ENTITY_REFERENCE_NODE: Short

val ENTITY_NODE: Short

val ENTITY_REFERENCE_NODE: Short

val DOCUMENT_NODE: Short

val DOCUMENT_TYPE_NODE: Short

val DOCUMENT_FRAGMENT_NODE: Short

val DOCUMENT_POSITION_DISCONNECTED: Short

val DOCUMENT_POSITION_PRECEDING: Short

val DOCUMENT_POSITION_FOLLOWING: Short

val DOCUMENT_POSITION_CONTAINS: Short

val DOCUMENT_POSITION_CONTAINED_BY: Short

val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

* Exposes the JavaScript
/**
 * Exposes the JavaScript [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin
 */
public external abstract class HTMLTimeElement : HTMLElement {
    open var dateTime: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin
 */
public external abstract class HTMLSpanElement : HTMLElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin
 */
public external abstract class HTMLBRElement : HTMLElement {
    open var clear: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin
 */
public external interface HTMLHyperlinkElementUtils {
    var href: String
    val origin: String
    var protocol: String
    var username: String
    var password: String
    var host: String
    var hostname: String
    var port: String
    var pathname: String
    var search: String
    var hash: String
}

/**
 * Exposes the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin
 */
public external abstract class HTMLModElement : HTMLElement {
    open var cite: String
    open var dateTime: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}
**Exposes the JavaScript [HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin**

*An external abstract class HTMLEmbedElement: HTMLElement { \n  open var src: String
  open var type: String
  open var width: String
  open var height: String
  open var align: String
  open var name: String
  fun getSVGDocument(): Document?

  companion object {
      val ELEMENT_NODE: Short
      val ATTRIBUTE_NODE: Short
      val TEXT_NODE: Short
      val CDATA_SECTION_NODE: Short
      val ENTITY_REFERENCE_NODE: Short
      val ENTITY_NODE: Short
      val PROCESSING_INSTRUCTION_NODE: Short
      val COMMENT_NODE: Short
      val DOCUMENT_NODE: Short
      val DOCUMENT_TYPE_NODE: Short
      val DOCUMENT_FRAGMENT_NODE: Short
      val NOTATION_NODE: Short
      val DOCUMENT_POSITION_DISCONNECTED: Short
      val DOCUMENT_POSITION_PRECEDING: Short
      val DOCUMENT_POSITION_FOLLOWING: Short
      val DOCUMENT_POSITION_CONTAINS: Short
      val DOCUMENT_POSITION_CONTAINED_BY: Short
      val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
      }\n\n\n**Exposes the JavaScript [HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin**

*An external abstract class HTMLObjectElement: HTMLElement { \n  open var data: String
  open var typeMustMatch: Boolean
  open var name: String
  open var useMap: String
  open var form: HTMLFormElement?
  open var width: String
  open var height: String
  open var contentDocument: Document?
  open var contentWindow: Window?
  open var willValidate: Boolean
  open var validationMessage: String
  open var openVar: String
  open var code: String
  open var declare: Boolean
  open var hspace: Int
  open var standby: String
  open var contentDocument: Document?
  fun getSVGDocument(): Document?
  fun checkValidity(): Boolean
  fun reportValidity(): Boolean
  fun setCustomValidity(errorMessage: String)

  companion object {
      val ELEMENT_NODE: Short
      val ATTRIBUTE_NODE: Short
      val CDATA_SECTION_NODE: Short
      val ENTITY_REFERENCE_NODE: Short
      val ENTITY_NODE: Short
      val PROCESSING_INSTRUCTION_NODE: Short
      val COMMENT_NODE: Short
      val DOCUMENT_NODE: Short
      val DOCUMENT_TYPE_NODE: Short
      val DOCUMENT_FRAGMENT_NODE: Short
      val NOTATION_NODE: Short
      val DOCUMENT_POSITION_DISCONNECTED: Short
      val DOCUMENT_POSITION_PRECEDING: Short
      val DOCUMENT_POSITION_FOLLOWING: Short
      val DOCUMENT_POSITION_CONTAINS: Short
      val DOCUMENT_POSITION_CONTAINED_BY: Short
      val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
      }\n\n**Exposes the JavaScript [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin**

*An external abstract class HTMLParamElement: HTMLElement { \n  open var name: String
  open var value: String
  open var valueType: String

  companion object {
      val ELEMENT_NODE: Short
      val ATTRIBUTE_NODE: Short
      val CDATA_SECTION_NODE: Short
      val ENTITY_REFERENCE_NODE: Short
      val ENTITY_NODE: Short
      val PROCESSING_INSTRUCTION_NODE: Short
      val COMMENT_NODE: Short
      val DOCUMENT_NODE: Short
      val DOCUMENT_TYPE_NODE: Short
      val DOCUMENT_FRAGMENT_NODE: Short
      val NOTATION_NODE: Short
      val DOCUMENT_POSITION_DISCONNECTED: Short
      val DOCUMENT_POSITION_PRECEDING: Short
      val DOCUMENT_POSITION_FOLLOWING: Short
      val DOCUMENT_POSITION_CONTAINS: Short
      val DOCUMENT_POSITION_CONTAINED_BY: Short
      val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
      }\n\n
DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin
 */
public external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {
    open var width: Int
    open var height: Int
    open val videoWidth: Int
    open val videoHeight: Int
    open var poster: String
    open var playsInline: Boolean

    companion object {
        val NETWORK_EMPTY: Short
        val NETWORK_IDLE: Short
        val NETWORK_LOADING: Short
        val NETWORK_NO_SOURCE: Short
        val HAVE_NOTHING: Short
        val HAVE_METADATA: Short
        val HAVE_CURRENT_DATA: Short
        val HAVE_FUTURE_DATA: Short
        val HAVE_ENOUGH_DATA: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin
 */
public external abstract class HTMLAudioElement : HTMLMediaElement {
    companion object {
        val NETWORK_EMPTY: Short
        val NETWORK_IDLE: Short
        val NETWORK_LOADING: Short
        val NETWORK_NO_SOURCE: Short
        val HAVE_NOTHING: Short
        val HAVE_METADATA: Short
        val HAVE_CURRENT_DATA: Short
        val HAVE_FUTURE_DATA: Short
        val HAVE_ENOUGH_DATA: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin
 */
public external abstract class HTMLTrackElement : HTMLElement {
    open var kind: String
    open var src: String
    open var srclang: String
    open var label: String
    open var default: Boolean
    open val readyState: Short
    open val track: TextTrack

    companion object {
        val NONE: Short
        val LOADING: Short
        val LOADED: Short
        val ERROR: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
\n
/**
 * Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin
 * \n * @public external abstract class MediaError : MediaError {
 *     open val code: Short
 * }
 * 
 * companion object {
 *     val MEDIA_ERR_ABORTED: Short
 *     val MEDIA_ERR_NETWORK: Short
 *     val MEDIA_ERR_DECODE: Short
 *     val MEDIA_ERR_SRC_NOT_SUPPORTED: Short
 * }
 * 
 * /**
 * Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin
 * @public external abstract class AudioTrackList : EventTarget {
 *     open val length: Int
 *     open var onchange: ((Event) -> dynamic)?
 *     open var onaddtrack: ((TrackEvent) -> dynamic)?
 *     fun getTrackById(id: String): AudioTrack?
 * }
 * 
 * @kotlin.internal.InlineOnly
 * public inline operator fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index]
 * 
 * /**
 * Exposes the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin
 * @public external abstract class VideoTrackList : EventTarget {
 *     open val length: Int
 *     open val selectedIndex: Int
 *     open var onchange: ((Event) -> dynamic)?
 *     open var onaddtrack: ((TrackEvent) -> dynamic)?
 *     fun getTrackById(id: String): VideoTrack?
 * }
 * 
 * @kotlin.internal.InlineOnly
 * public inline operator fun VideoTrackList.get(index: Int): VideoTrack? = asDynamic()[index]
 * 
 * // Other similar classes and functions...
 * 
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[VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin

```kotlin
public external abstract class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {
    open val id: String
    open val kind: String
    open val label: String
    open val language: String
    open var selected: Boolean
    open val sourceBuffer: SourceBuffer?
}

public external abstract class TextTrackList : EventTarget {
    open val length: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackByIndex(id: String): TextTrack?
}

@kotlin.internal.InlineOnly
public inline operator fun TextTrackList.get(index: Int): TextTrack?

/**
 * Exposes the JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin
 */
public external abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {
    open val kind: TextTrackKind
    open val label: String
    open val language: String
    open val id: String
    open val inBandMetadataTrackDispatchType: String
    open var mode: TextTrackMode
    open val cues: TextTrackCueList?
    open val activeCues: TextTrackCueList?
    open var oncuechange: ((Event) -> dynamic)?
    open val sourceBuffer: SourceBuffer?
}

public external abstract class TextTrackCueList {
    open val length: Int
    fun getCueById(id: String): TextTrackCue?
}

@kotlin.internal.InlineOnly
public inline operator fun TextTrackCueList.get(index: Int): TextTrackCue?

/**
 * Exposes the JavaScript [TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin
 */
public external abstract class TextTrackCue : EventTarget {
    open var id: String
    open var startTime: Double
    open var endTime: Double
    open var pauseOnExit: Boolean
    open var onenter: ((Event) -> dynamic)?
    open var onexit: ((Event) -> dynamic)?
}

/**
 * Exposes the JavaScript [TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin
 */
public external abstract class TimeRanges {
    open val length: Int
    fun start(index: Int): Double
    fun end(index: Int): Double
}

/**
 * Exposes the JavaScript [TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin
 */
public external open class TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {
    open val track: UnionAudioTrackOrTextTrackOrVideoTrack?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface TrackEventInit : EventInit {
    var track: UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */
        get() = definedExternally
        set(value) = definedExternally
        set(value) = definedExternally
    }

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["track"] = track
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin
 */
public external abstract class HTMLMapElement : HTMLElement {
    open var name: String
    open val areas: HTMLCollection

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val DATA_SECTION_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin
 */
public external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {
    open var alt:
String
open var coords: String
open var shape: String
open var target: String
open var download:
String
open var ping: String
open var rel: String
open val relList: DOMTokenList
open var referrerPolicy: String
open var noHref: Boolean
companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript
[HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin */
public external abstract class HTMLTableElement : HTMLElement {
open var caption: HTMLTableCaptionElement?
open var tHead: HTMLTableSectionElement?
open var tFoot: HTMLTableSectionElement?
open val tBodies: HTMLCollection
open val rows: HTMLCollection
open var align: String
open var border: String
open var frame: String
open var rules: String
open var summary: String
open var width: String
open var bgColor: String
open var cellPadding: String
open var cellSpacing: String
fun createCaption(): HTMLTableCaptionElement
fun deleteCaption()
fun createTHead(): HTMLTableSectionElement
fun deleteTHead()
fun createTFoot(): HTMLTableSectionElement
fun deleteTFoot()
fun createTBody(): HTMLTableSectionElement
fun insertRow(index: Int = definedExternally): HTMLTableRowElement
fun deleteRow(index: Int)

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript
[HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to Kotlin */
public external abstract class HTMLTableCaptionElement : HTMLElement {
open var align: String

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript
[HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin */
public external abstract class HTMLTableColElement : HTMLElement {
open var span: Int
open var align: String
open var ch: String
open var chOff: String
open var vAlign: String
open var width: String

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

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```kotlin
/**
 * Exposes the JavaScript [HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin
 */
public external abstract class HTMLTableSectionElement : HTMLElement {
    open val rows: HTMLCollection
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    fun insertRow(index: Int = definedExternally): HTMLElement
    fun deleteRow(index: Int)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin
 */
public external abstract class HTMLTableRowElement : HTMLElement {
    open val rowIndex: Int
    open val sectionRowIndex: Int
    open val cells: HTMLCollection
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertCell(index: Int = definedExternally): HTMLElement
    fun deleteCell(index: Int)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin
 */
public external abstract class HTMLTableCellElement : HTMLElement {
    open var colSpan: Int
    open var rowSpan: Int
    open var headers: String
    open val cellIndex: Int
    open var scope: String
    open var abbr: String
    open var align: String
    open var axis: String
    open var height: String
    open var width: String
    open var ch: String
    open var chOff: String
    open var noWrap: Boolean
    open var vAlign: String
    open var bgColor: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

---

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fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally)
companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin
 */
public external abstract class HTMLButtonElement : HTMLElement {
open var autofocus: Boolean
open var disabled: Boolean
open val form: HTMLFormElement?
open var formAction: String
open var formEnctype: String
open var formMethod: String
open var formNoValidate: Boolean
open var formTarget: String
open val willValidate: Boolean
open val validity: ValidityState
open val validationMessage: String
open val labels: NodeList
fun checkValidity(): Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)
companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin
 */
public external abstract class HTMLSelectElement : HTMLElement, ItemArrayLike<Element> {
open var autocomplete: String
open var autofocus: Boolean
open var disabled: Boolean
open val form: HTMLFormElement?
open var multiple: Boolean
open var name: String
open var required: Boolean
open var size: Int
open var type: String
open val options: HTMLOptionsCollection
override var length: Int
open val selectedOptions: HTMLCollection
open var selectedIndex: Int
open var value: String
open val willValidate: Boolean
open val validity: ValidityState
open val validationMessage: String
open val labels: NodeList
fun namedItem(name: String): HTMLOptionElement?
fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)
fun remove(index: Int)
fun checkValidity(): Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)
fun overrideItem(index: Int): Element?
companion object {
val ELEMENT_NODE: Short
val TEXT_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}
fun HTMLSelectElement.get(index: Int): Element? = asDynamic()[index]

fun HTMLSelectElement.set(index: Int, option: HTMLElement?) {
    asDynamic()[index] = option
}

*exposes the JavaScript [HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin

*exposes the JavaScript [HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin

*exposes the JavaScript [HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin
open val validity:ValidityState
open val validationMessage: String
open val labels: NodeList
open var selectionStart: Int?
open var selectionEnd: Int?
open var selectionDirection: String
Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)
fun select()?
fun setRangeText(replacement: String)
fun setRangeText(replacement: String, start: Int, end: Int)
fun setSelectionRange(start: Int, end: Int, direction: String)

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin
 */
public external abstract class HTMLKeygenElement : HTMLElement {
open var autofocus: Boolean
open var challenge: String
open var disabled: Boolean
open val form: HTMLFormElement?
open var keytype: String
open var name: String
open val type: String
open val willValidate: Boolean
open val validity: ValidityState
open val validationMessage: String
open val labels: NodeList
fun checkValidity(): Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin
 */
public external abstract class HTMLOutputElement : HTMLElement {
open val htmlFor: DOMTokenList
open val form: HTMLFormElement?
open var name: String
open val type: String
open var defaultValue: String
open var value: String
open val willValidate: Boolean
open val validity: ValidityState
open val validationMessage: String
open val labels: NodeList
fun checkValidity(): Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin
 */
public external abstract class HTMLProgressElement : HTMLElement {
open var value: Double
open var max: Double
open val position: Double
open val labels: NodeList

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

open val validationMessage: String
open val labels: NodeList
open var selectionStart: Int?
open var selectionEnd: Int?
open var selectionDirection: String
Boolean
fun checkValidity(): Boolean
fun setRangeText(replacement: String)
fun setRangeText(replacement: String, start: Int, end: Int)
fun setSelectionRange(start: Int, end: Int, direction: String)

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin
 */
public external abstract class ValidityState {
    open val valueMissing: Boolean
    open val typeMismatch: Boolean
    open val patternMismatch: Boolean
    open val tooLong: Boolean
    open val rangeUnderflow: Boolean
    open val rangeOverflow: Boolean
    open val stepMismatch: Boolean
    open val badInput: Boolean
    open val customError: Boolean
    open val valid: Boolean
}

/**
 * Exposes the JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin
 */
public external abstract class HTMLDetailsElement : HTMLElement {
    open var open: Boolean

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external abstract class HTMLMenuElement : HTMLElement {
    open var type: String
    open var label: String
    open var compact: Boolean

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {
    open val relatedTarget: EventTarget?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["relatedTarget"] = relatedTarget
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin
 */
**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma**

```kotlin
*\nget() = definedExternally
set(value) = definedExternally
var control: Element? /* = null */
get() = definedExternally
set(value) = definedExternally
var label: String? /* = null */
get() = definedExternally
set(value) = definedExternally
var role: String? /* = null */
get() = definedExternally
set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun 
HitRegionOptions(path: Path2D? = null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = "\n",
parentID: String? = "\n",
    val o = js("({})")
    o["path"] = path
    o["fillRule"] = fillRule
    o["id"] = id
    o["parentID"] = parentID
    o["control"] = control
    o["label"] = label
    o["role"] = role
    return o
}

/**
 * Exposes the JavaScript

[ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin

@kotlin.internal.InlineOnly
public external open class 
ImageData : ImageBitmapSource, TexImageSource {
    constructor(sw: Int, sh: Int)
    constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)
    open val width: Int
    open val height: Int
    open val data: Uint8ClampedArray
}

/**
 * Exposes the JavaScript

[Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin

@kotlin.internal.InlineOnly
public external open class 
Path2D() : CanvasPath {
    constructor(path: Path2D)
    constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)
    constructor(d: String)
    override fun closePath()
    override fun moveTo(x: Double, y: Double)
    override fun lineTo(x: Double, y: Double)
    override fun quadraticCurveTo(cp1x: Double, cp1y: Double, x: Double, y: Double)
    override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)
    override fun rect(x: Double, y: Double, width: Double, height: Double)
    override fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */)
    override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */) { super(x, y, radius, startAngle, endAngle, anticlockwise) }
} 

/**
 * Exposes the JavaScript

[CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin

@kotlin.internal.InlineOnly
public external abstract class 
CustomElementRegistry {
    fun define(name: String, constructor: () -> dynamic, options: ElementDefinitionOptions = definedExternally)
    fun get(name: String): Any?
    fun whenDefined(name: String): Promise<Unit>
}

public external interface 
ElementDefinitionOptions {
    var extends: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun 
ElementDefinitionOptions(extends: String? = undefined): ElementDefinitionOptions {
    val o = js("({})")
    o["extends"] = extends
    return o
}

public external interface 
ElementContentEditable {
    var contentEditable: String
    val isContentEditable: Boolean
}

/**
 * Exposes the JavaScript

[DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin

@kotlin.internal.InlineOnly
public external abstract class 
DataTransfer {
    open var dropEffect: String
    open var effectAllowed: String
    open val items: DataTransferItemList
    open val types: Array<out String>
    open val files: FileList
    fun setDragImage(image: Element, x: Int, y: Int)
    fun getData(format: String): String
    fun setData(format: String, data: String)
    fun clearData(format: String = definedExternally)
}

@kotlin.internal.InlineOnly
public inline fun 
DataTransferItemList(open val item: DataTransferItemList): DataTransferItemList {
    val o = js("({})")
    o["item"] = item
    return o
}
```

---

**Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 63537**
fun captureEvents()
fun releaseEvents()
fun matchMedia(query: String): MediaQueryList
fun moveTo(x: Int, y: Int)
fun moveBy(x: Int, y: Int)
fun resizeTo(x: Int, y: Int)
fun resizeBy(x: Int, y: Int)
fun scroll( options: ScrollToOptions = definedExternally)
fun scroll(x: Double, y: Double)
fun scrollTo( options: ScrollToOptions = definedExternally)
fun scroll(x: Double, y: Double)
fun scrollBy( options: ScrollToOptions = definedExternally)
fun scrollBy(x: Double, y: Double)
fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration
fun BarProp
open val visible: Boolean

/**
 * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin *
 */
public abstract class History {
open val length: Int
open var scrollRestoration: ScrollRestoration
open val state: Any?
fun go(delta: Int = definedExternally)
fun back()
fun forward()
fun pushState(data: Any?, title: String, url: String
fun replaceState(data: Any?, title: String, url: String
fun scrollBy(x: Double, y: Double)
fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration
fun BarProp
open val visible: Boolean

/**
 * Exposes the JavaScript [Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin *
 */
public abstract class Location {
open var href: String
open val origin: String
open var protocol: String
open var host: String
open var hostname: String
open var port: String
open var pathname: String
open var search: String
open val ancestorOrigins: Array<out String>
fun assign(url: String)
fun replace(url: String)
fun reload()

/**
 * Exposes the JavaScript [HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin *
 */
public open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) : Event {
open val oldURL: String
open val newURL: String

/**
 * Exposes the JavaScript [PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin *
 */
public open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {
open val persisted: Boolean

fun open val visible: Boolean

/**
 * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin *
 */
public abstract class History {
open val length: Int
open var scrollRestoration: ScrollRestoration
open val state: Any?
fun go(delta: Int = definedExternally)
fun back()
fun forward()
fun pushState(data: Any?, title: String, url: String
fun replaceState(data: Any?, title: String, url: String
fun scrollBy(x: Double, y: Double)
fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration
fun BarProp
open val visible: Boolean

/**
 * Exposes the JavaScript [Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin *
 */
public abstract class Location {
open var href: String
open val origin: String
open var protocol: String
open var host: String
open var hostname: String
open var port: String
open var pathname: String
open var search: String
open val ancestorOrigins: Array<out String>
fun assign(url: String)
fun replace(url: String)
fun reload()

/**
 * Exposes the JavaScript [HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin *
 */
public open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) : Event {
open val oldURL: String
open val newURL: String

/**
 * Exposes the JavaScript [PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin *
 */
public open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {
open val persisted: Boolean

fun open val visible: Boolean

/**
 * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin *
 */
public abstract class History {
open val length: Int
open var scrollRestoration: ScrollRestoration
open val state: Any?
fun go(delta: Int = definedExternally)
fun back()
fun forward()
fun pushState(data: Any?, title: String, url: String
fun replaceState(data: Any?, title: String, url: String
fun scrollBy(x: Double, y: Double)
fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration
fun BarProp
open val visible: Boolean

/**
 * Exposes the JavaScript [Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin *
 */
public abstract class Location {
open var href: String
open val origin: String
open var protocol: String
open var host: String
open var hostname: String
open var port: String
open var pathname: String
open var search: String
open val ancestorOrigins: Array<out String>
fun assign(url: String)
fun replace(url: String)
fun reload()

/**
 * Exposes the JavaScript [HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin *
 */
public open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) : Event {
open val oldURL: String
open val newURL: String

/**
 * Exposes the JavaScript [PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin *
 */
public open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {
open val persisted: Boolean

fun open val visible: Boolean

/**
 * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin *
 */
public abstract class History {
open val length: Int
open var scrollRestoration: ScrollRestoration
open val state: Any?
fun go(delta: Int = definedExternally)
fun back()
fun forward()
fun pushState(data: Any?, title: String, url: String
fun replaceState(data: Any?, title: String, url: String
fun scrollBy(x: Double, y: Double)
fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration
fun BarProp
open val visible: Boolean

/**
 * Exposes the JavaScript [Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin *
 */
public abstract class Location {
open var href: String
open val origin: String
open var protocol: String
open var host: String
open var hostname: String
open var port: String
open var pathname: String
open var search: String
open val ancestorOrigins: Array<out String>
fun assign(url: String)
fun replace(url: String)
fun reload()
public external open class BeforeUnloadEvent : Event {
    var returnValue: String?
}

public external companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external abstract class ApplicationCache : EventTarget {
    open val status: Short
    open var onchecking: ((Event) -> dynamic)?
    open var onerror: ((Event) -> dynamic)?
    open var onnoupdate: ((Event) -> dynamic)?
    open var ondownloading: ((Event) -> dynamic)?
    open var onprogress: ((ProgressEvent) -> dynamic)?
    open var onupdateready: ((Event) -> dynamic)?
    open var oncached: ((Event) -> dynamic)?
    open var onobsolete: ((Event) -> dynamic)?
    fun update()
    fun abort()
    fun swapCache()
}

public external interface NavigatorOnLine {
    val onLine: Boolean?
}

public external open class ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {
    open val message: String?
    open val filename: String?
    open val lineno: Int?
    open val colno: Int?
    open val error: Any?
}

public external interface ErrorEventInit : EventInit {
    var message: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var filename: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var lineno: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var colno: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var error: Any? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["message"] = message
    o["filename"] = filename
    o["lineno"] = lineno
    o["colno"] = colno
    o["error"] = error
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) : Event {
    open val promise: Promise<Any>?
    open val reason: Any?
}

public external interface PromiseRejectionEventInit : EventInit {
    var promise: Promise<Any>?
        get() = definedExternally
        set(value) = definedExternally
    var reason: Any?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["promise"] = promise
    o["reason"] = reason
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external interface GlobalEventHandlers {
    var onabort: ((Event) -> dynamic)?
    var onblur: ((FocusEvent) -> dynamic)?
    var oncancel: ((Event) -> dynamic)?
    var oncanplay: ((Event) -> dynamic)?
    var oncanplaythrough: ((Event) -> dynamic)?
    var onpageshow: ((Event) -> dynamic)?
    var onpagehide: ((Event) -> dynamic)?
    var oncontextmenu: ((Event) -> dynamic)?
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["onabort"] = onabort
    o["onblur"] = onblur
    o["oncancel"] = oncancel
    o["oncanplay"] = oncanplay
    o["oncanplaythrough"] = oncanplaythrough
    o["onpageshow"] = onpageshow
    o["onpagehide"] = onpagehide
    o["oncontextmenu"] = oncontextmenu
    return o
}
fun clearInterval(handle: Int = definedExternally)
fun createImageBitmap(image: ImageBitmapSource, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>

fun <Response>fun() { // Exposes the JavaScript [Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin
  *\n  *public external abstract class Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware {
    open val clipboard: Clipboard
    open val mediaDevices: MediaDevices
    open val maxTouchPoints: Int
    open val serviceWorker: ServiceWorkerContainer
    fun requestMediaKeySystemAccess(keySystem: String, supportedConfigurations: Array<MediaKeySystemConfiguration>): Promise<MediaKeySystemAccess>
    fun getUserMedia(constraints: MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)
    fun vibrate(pattern: dynamic): Boolean
  }

  /**
   * Exposes the JavaScript [NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin
   */
  public external abstract class NavigatorID {
    val appCodeName: String
    val appName: String
    val appVersion: String
    val platform: String
    val product: String
    val productSub: String
    val userAgent: String
    val vendor: String
    val vendorSub: String
    fun taintEnabled(): Boolean
  }

  /**
   * Exposes the JavaScript [NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin
   */
  public external interface NavigatorLanguage {
    val language: String
    val languages: Array<out String>
  }

  public external interface NavigatorContentUtils {
    fun registerProtocolHandler(scheme: String, url: String, title: String)
    fun registerContentHandler(mimeType: String, url: String, title: String)
    fun isProtocolHandlerRegistered(scheme: String, url: String): String
    fun isContentHandlerRegistered(mimeType: String, url: String): String
    fun unregisterProtocolHandler(scheme: String, url: String)
    fun unregisterContentHandler(mimeType: String, url: String)
  }

  public external interface NavigatorCookies {
    val cookieEnabled: Boolean
  }

  /**
   * Exposes the JavaScript [NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin
   */
  public external interface NavigatorPlugins {
    val plugins: PluginArray
    val mimeTypes: MimeTypeArray
    fun javaEnabled(): Boolean
  }

  /**
   * Exposes the JavaScript [PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin
   */
  public external abstract class PluginArray : ItemArrayLike<Plugin> {
    fun refresh(reload: Boolean = definedExternally)
    override fun item(index: Int): Plugin?
    fun namedItem(name: String): Plugin?
  }

  @kotlin.internal.InlineOnly
  public inline operator fun PluginArray.get(index: Int): Plugin? = asDynamic()[index]

  @kotlin.internal.InlineOnly
  public inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]

  /**
   * Exposes the JavaScript [MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin
   */
  public external abstract class MimeTypeArray : ItemArrayLike<MimeType> {
    override fun item(index: Int): MimeType?
    fun namedItem(name: String): MimeType?
  }

  @kotlin.internal.InlineOnly
  public inline operator fun MimeTypeArray.get(index: Int): MimeType? = asDynamic()[index]

  @kotlin.internal.InlineOnly
  public inline operator fun MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]

  /**
   * Exposes the JavaScript [MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin
   */
  public external abstract class MimeType {
    open val type: String
    open val description: String
    open val suffixes: String
    open val enabledPlugin: Plugin
  }

  /**
   * Exposes the JavaScript [Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin
   */
  public external abstract class Plugin : ItemArrayLike<MimeType> {
    open val name: String
    open val description: String
    open val filename: String
    override fun item(index: Int): MimeType?
    fun namedItem(name: String): MimeType?
    open val refresh(reload: Boolean = definedExternally)
    open override fun override fun item(index: Int): MimeType?
    open override fun namedItem(name: String): MimeType?
    open override fun override fun refresh(reload: Boolean = definedExternally)
    open override fun override fun refresh(reload: Boolean = definedExternally)
  }

  @kotlin.internal.InlineOnly
  public inline operator fun Plugin.get(index: Int): MimeType? = asDynamic()[index]

  @kotlin.internal.InlineOnly
  public inline operator fun Plugin.get(name: String): MimeType? = asDynamic()[name]
[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin

```kotlin
public external abstract class ImageBitmap : CanvasImageSource, TexImageSource {
    open val width: Int
    open val height: Int
    fun close()
}

public external interface ImageBitmapOptions {
    var imageOrientation: ImageOrientation? /* = ImageOrientation.NONE */
    var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */
    var colorSpaceConversion: ColorSpaceConversion? /* = ColorSpaceConversion.DEFAULT */
    var resizeWidth: Int?
    var resizeHeight: Int?
    var resizeQuality: ResizeQuality? /* = ResizeQuality.LOW */
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["imageOrientation"] = imageOrientation
    o["premultiplyAlpha"] = premultiplyAlpha
    o["colorSpaceConversion"] = colorSpaceConversion
    o["resizeWidth"] = resizeWidth
    o["resizeHeight"] = resizeHeight
    o["resizeQuality"] = resizeQuality
    return o
}

/**
 * Exposes the JavaScript [MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin
 */
public external open class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {
    open val data: Any?
    open val origin: String
    open val lastEventId: String
    open val source: UnionMessagePortOrWindowProxy?
    open val ports: Array<MessagePort>
    fun initMessageEvent(type: String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface MessageEventInit : EventInit {
        var data: Any? /* = null */
        var origin: String? /* = "" */
        var lastEventId: String? /* = "" */
        var source: UnionMessagePortOrWindowProxy? /* = null */
        var ports: Array<MessagePort>? /* = arrayOf() */
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["data"] = data
        o["origin"] = origin
        o["source"] = source
        o["ports"] = ports
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        return o
    }

    /**
     * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin
     */
    public external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {
        open val url: String
        open val withCredentials: Boolean
        open val readyState: Short
        var onopen: ((Event) -> dynamic)?
        var onmessage: ((MessageEvent) -> dynamic)?
        var onerror: ((Event) -> dynamic)?
        fun close()

        companion object {
            val CONNECTING: Short
            val OPEN: Short
            val CLOSED:
        }

        public external interface EventSourceInit {
            var withCredentials: Boolean? /* = false */
        }

        @kotlin.internal.InlineOnly
        public inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {
            val o = js("({})")
            o["withCredentials"] = withCredentials
            return o
        }

        /**
         * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin
         */
        public external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {
            open val url: String
            // Rest of the WebSocket class implementation
        }
    }
}
```
Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {
    var onmessage: ((MessageEvent) -> dynamic)?
    override var onerror: ((Event) -> dynamic)?
    fun terminate()

    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
}

public external interface WorkerOptions {
    var type: WorkerType? /* = WorkerType.CLASSIC */
        get() = definedExternally
        set(value) = definedExternally
    var credentials: RequestCredentials? /* = RequestCredentials.OMIT */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {
    val o = js("({})")
    o["type"] = type
    o["credentials"] = credentials
    return o
}

/**
 * Exposes the JavaScript 
**/
public external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {
    open val port: MessagePort
    override var onerror: ((Event) -> dynamic)?
}

/**
 * Exposes the JavaScript 
**/
public external interface NavigatorConcurrentHardware {
    val hardwareConcurrency: Number
}

/**
 * Exposes the JavaScript 
**/
public external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {
    open val serviceWorker: ServiceWorkerContainer
}

/**
 * Exposes the JavaScript 
**/
public external abstract class WorkerLocation {
    open val href: String
    open val origin: String
    open val protocol: String
    open val host: String
    open val hostname: String
    open val port: String
    open val pathname: String
    open val search: String
    open val hash: String
}

/**
 * Exposes the JavaScript 
**/
public external abstract class Storage {
    open val length: Int
    fun key(index: Int): String?
    fun removeItem(key: String)
    fun clear()
    fun getItem(key: String): String?
    fun setItem(key: String, value: String)
}

@kotlin.internal.InlineOnly
public inline operator fun Storage.get(key: String): String? = asDynamic()[key]

@kotlin.internal.InlineOnly
public inline operator fun Storage.set(key: String, value: String) { asDynamic()[key] = value }

/**
 * Exposes the JavaScript 
**/
public external interface WindowSessionStorage {
    val sessionStorage: Storage
}

/**
 * Exposes the JavaScript 
**/
public external interface WindowLocalStorage {
    val localStorage: Storage
}

/**
 * Exposes the JavaScript 
**/
public external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {
    open val key: String
    open val oldValue: String
    open val newValue: String
    open val url: String
    open val storageArea: Storage?
}

public external interface StorageEventInit : EventInit {
    var key: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var oldValue: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var newValue: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var url: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var storageArea: Storage?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("{"key":"","oldValue":"","newValue":""}")
    o["key"] = key
    o["oldValue"] = oldValue
    o["newValue"] = newValue
    o["url"] = url
    o["storageArea"] = storageArea
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
}

```kotlin
/**
 * Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin *
 */
public external abstract class HTMLMarqueeElement : HTMLElement {
    open var behavior: String
    open var bgColor: String
    open var direction: String
    open var height: String
    open var hspace: Int
    open var loop: Int
    open var scrollAmount: Int
    open var scrollDelay: Int
    open var trueSpeed: Boolean
    open var vspace: Int
    open var width: String
    open var onbounce: ((Event) -> dynamic)?
    open var onfinish: ((Event) -> dynamic)?
    open var onstart: ((Event) -> dynamic)?
    fun start()
    fun stop()

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin *
 */
public external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {
    open var cols: String
    open var rows: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external abstract class HTMLFrameElement : HTMLElement {
    open var name: String
    open var scrolling: String
    open var src: String
    open var frameborder: String
    open var longDesc: String
    open var noresize: Boolean
    open var contentDocument: Document?
    open var contentWindow: Window?
    open var marginHeight: String?
    open var marginWidth: String?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
    }
}
```

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 63547
```kotlin
open class MutationRecord {
    open val type: String
    open val target: Node
    open val addedNodes: NodeList
    open val removedNodes: NodeList
    open val previousSibling: Node?
    open val nextSibling: Node?
    open val attributeName: String?
    open val attributeNamespace: String?
    open val oldValue: String?
}

open class Node : EventTarget {
    open val nodeType: Short
    open val nodeName: String
    open val baseURI: String
    open val isConnected: Boolean
    open val ownerDocument: Document?
    open val parentNode: Node?
    open val parentElement: Element?
    open val childNodes: NodeList
    open val firstChild: Node?
    open val lastChild: Node?
    open val previousSibling: Node?
    open val nextSibling: Node?

    fun getRootNode(options: GetRootNodeOptions = definedExternally): Node
    fun hasChildNodes(): Boolean
    fun normalize(): Unit
    fun cloneNode(deep: Boolean = definedExternally): Node
    fun isEqualNode(otherNode: Node?): Boolean
    fun isSameNode(otherNode: Node?): Boolean
    fun compareDocumentPosition(other: Node): Short
    fun contains(other: Node?): Boolean
    fun lookupPrefix(namespace: String?): String?
    fun lookupNamespaceURI(prefix: String?): String?
    fun isDefaultNamespace(namespace: String?): Boolean
    fun insertBefore(node: Node, child: Node?): Node
    fun appendChild(node: Node): Node
    fun replaceChild(node: Node, child: Node?): Node
    fun removeChild(child: Node): Node
}
```

These classes expose JavaScript DOM APIs to Kotlin, allowing for smoother integration and usage within a Kotlin-based application or library. The `MutationRecord` class represents a single change in the DOM, while `Node` provides a comprehensive interface for all DOM nodes, including methods for getting root nodes, checking child nodes, cloning, and more.
createProcessingInstruction(target: String, data: String): ProcessingInstruction
fun importNode(node: Node, deep: Boolean = definedExternally): Node
fun adoptNode(node: Node): Node
fun createAttribute(localName: String): Attr
fun createAttributeNS(qualifiedName: String, namespace: String?): Attr
fun createEvent("interface": String): Event
fun createRange(): Range
fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: (Node) -> Short? = definedExternally): NodeIterator
fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker
fun getElementsByName(elementName: String): NodeList
fun open(type: String = definedExternally, replace: String = definedExternally): Document
fun open(url: String, name: String, features: String): Window
fun close()
fun write(vararg text: String)
fun writeln(vararg text: String)
fun hasFocus(): Boolean
fun execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally): Boolean
fun queryCommandEnabled(commandId: String): Boolean
fun queryCommandIndeterm(commandId: String): Boolean
fun queryCommandSupported(commandId: String): Boolean
fun queryCommandValue(commandId: String): String
fun clear()
fun captureEvents()
fun releaseEvents()

fun elementFromPoint(x: Double, y: Double): Element?
fun elementsFromPoint(x: Double, y: Double): Array<Element>
fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?

captureEvents = true

captureEvents = false

captureEvents = null

fun createTouchList(vararg touches: Touch): TouchList
fun exitFullscreen(): Promise<Unit>

override fun getElementById(elementId: String): Element?
override fun prepend(vararg nodes: dynamic)
override fun append(vararg nodes: dynamic)
override fun querySelector(selectors: String): Element?
override fun querySelectorAll(selectors: String): NodeList
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>
override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

@kotlin.internal.InlineOnly
public inline operator fun Document.get(name: String): dynamic = asDynamic()[name]

fun createProcessingInstruction(target: String, data: String): ProcessingInstruction
fun importNode(node: Node, deep: Boolean = definedExternally): Node
fun adoptNode(node: Node): Node
fun createAttribute(localName: String): Attr
fun createAttributeNS(qualifiedName: String, namespace: String?): Attr
fun createEvent("interface": String): Event
fun createRange(): Range
fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: (Node) -> Short? = definedExternally): NodeIterator
fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker
fun getElementsByName(elementName: String): NodeList
fun open(type: String = definedExternally, replace: String = definedExternally): Document
fun open(url: String, name: String, features: String): Window
fun close()
fun write(vararg text: String)
fun writeln(vararg text: String)
fun hasFocus(): Boolean
fun execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally): Boolean
fun queryCommandEnabled(commandId: String): Boolean
fun queryCommandIndeterm(commandId: String): Boolean
fun queryCommandSupported(commandId: String): Boolean
fun queryCommandValue(commandId: String): String
fun clear()
fun captureEvents()
fun releaseEvents()

fun elementFromPoint(x: Double, y: Double): Element?
fun elementsFromPoint(x: Double, y: Double): Array<Element>
fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?

fun createTouchList(vararg touches: Touch): TouchList
fun exitFullscreen(): Promise<Unit>

override fun getElementById(elementId: String): Element?
override fun prepend(vararg nodes: dynamic)
override fun append(vararg nodes: dynamic)
override fun querySelector(selectors: String): Element?
override fun querySelectorAll(selectors: String): NodeList
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>
override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

@kotlin.internal.InlineOnly
public inline operator fun Document.get(name: String): dynamic = asDynamic()[name]
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

// Exposes the JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin

class DOMImplementation {
    fun createDocumentType(qualifiedName: String, publicId: String, systemId: String): DocumentType
    fun createDocument(namespace: String?, qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument
    fun createHTMLDocument(title: String = definedExternally): Document
    fun hasFeature(): Boolean
}

class DocumentType : Node, ChildNode {
    open val name: String
    open val publicId: String
    open val systemId: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

class DocumentFragment : Node, NonElementParentNode, ParentNode {
    override val children: HTMLCollection
    override val firstElementChild: Element?
    override val lastElementChild: Element?
    override val childElementCount: Int
    override fun getElementById(elementId: String): Element?
    override fun querySelector(selectors: String): Element?
    override fun querySelectorAll(selectors: String): NodeList

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {
    open val mode: ShadowRootMode
    open val host: Element
    override val fullscreenElement: Element?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

public external abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEv

/**
 * Exposes the JavaScript [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin
 */
public external abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEv
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
height: Double = definedExternally) : DOMRectReadOnly {\n    override var x: Double\n    override var y: Double\n    override var width: Double\n    override var height: Double\n  }\n
val DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {\n  x = Double\n  y = Double\n  width = Double\n  height = Double\n}

/**
 * Exposes the JavaScript
[DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\n *\n\nDOMRectInit {\n  var x: Double? /* = 0.0 */ get() = definedExternally\n  set(value) = definedExternally\n  var y: Double? /* = 0.0 */ get() = definedExternally\n  set(value) = definedExternally\n  var width: Double? /* = 0.0 */ get() = definedExternally\n  set(value) = definedExternally\n  var height: Double? /* = 0.0 */ get() = definedExternally\n  set(value) = definedExternally\n  var top: Double? /* = 0.0 */ get() = definedExternally\n  set(value) = definedExternally\n  var right: Double? /* = 0.0 */ get() = definedExternally\n  set(value) = definedExternally\n  var bottom: Double? /* = 0.0 */ get() = definedExternally\n  set(value) = definedExternally\n  var left: Double? /* = 0.0 */ get() = definedExternally\n  set(value) = definedExternally\n}\n
public external interface DOMRectInit {
  var x: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
  var y: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
  var width: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
  var height: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun DOMRectInit(x: Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {
  val o = js("({})")
  o["x"] = x
  o["y"] = y
  o["width"] = width
  o["height"] = height
  return o@kotlin.internal.InlineOnly\n\nDOMRectList : ItemArrayLike<DOMRect> {\n  override fun item(index: Int): DOMRect?{\n    return DOMRectList.get(index: Int: DOMRect?)\n  }

/**
 * Exposes the JavaScript
[DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\n *\n\nDOMQuad {\n  constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)\n  constructor(rect: DOMRectInit)\n  \n  open val p1: DOMPoint\n  open val p2: DOMPoint\n  open val p3: DOMPoint\n  open val p4: DOMPoint\n  \n  open val bounds: DOMRectReadOnly
}

/**
 * Exposes the JavaScript
[DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin\n *\n\nDOMMatrixReadOnly(numberSequence: Array<Double>)\n  
open val a: Double\n  open val b: Double\n  open val c: Double\n  open val d: Double\n  open val e: Double\n  open val f: Double\n  open val m11: Double\n  open val m12: Double\n  open val m13: Double\n  open val m14: Double\n  open val m21: Double\n  open val m22: Double\n  open val m23: Double\n  open val m24: Double\n  open val m31: Double\n  open val m32: Double\n  open val m33: Double\n  open val m34: Double\n  open val m41: Double\n  open val m42: Double\n  open val m43: Double\n  open val m44: Double\n  
fun parseFloat32Array(): Float32Array\n  fun parseFloat64Array(): Float64Array\n  
fun asFloat32Array(): Float32Array\n  fun asFloat64Array(): Float64Array\n  
fun toFloat32Array(): Float32Array\n  fun toFloat64Array(): Float64Array\n  
fun asDoubleArray(): DoubleArray\n  fun asFloatArray(): FloatArray\n  
fun asInt32Array(): Int32Array\n  fun asInt64Array(): Int64Array\n  
fun asShortArray(): ShortArray\n  fun asCharArray(): CharArray\n  
fun asByteArray(): ByteArray\n
Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 63563
"probably\".asDynamic().unsafeCast<CanPlayTypeResult>().

/* please, don't implement this interface!
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface TextTrackMode
{
  companion object

  public inline val TextTrackMode.Companion.DISABLED: TextTrackMode get() = "disabled".asDynamic().unsafeCast<TextTrackMode>()

  public inline val TextTrackMode.Companion.HIDDEN: TextTrackMode get() = "hidden".asDynamic().unsafeCast<TextTrackMode>()

  public inline val TextTrackMode.Companion.SHOWING: TextTrackMode get() = "showing".asDynamic().unsafeCast<TextTrackMode>()

  /* please, don't implement this interface!
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface TextTrackKind
{
  companion object

  public inline val TextTrackKind.Companion.SUBTITLES: TextTrackKind get() = "subtitles".asDynamic().unsafeCast<TextTrackKind>()

  public inline val TextTrackKind.Companion.CAPTIONS: TextTrackKind get() = "captions".asDynamic().unsafeCast<TextTrackKind>()

  public inline val TextTrackKind.Companion.DESCRIPTIONS: TextTrackKind get() = "descriptions".asDynamic().unsafeCast<TextTrackKind>()

  public inline val TextTrackKind.Companion.CHAPTERS: TextTrackKind get() = "chapters".asDynamic().unsafeCast<TextTrackKind>()

  public inline val TextTrackKind.Companion.METADATA: TextTrackKind get() = "metadata".asDynamic().unsafeCast<TextTrackKind>()

  /* please, don't implement this interface!
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface SelectionMode
{
  companion object

  public inline val SelectionMode.Companion.SELECT: SelectionMode get() = "select".asDynamic().unsafeCast<SelectionMode>()

  public inline val SelectionMode.Companion.START: SelectionMode get() = "start".asDynamic().unsafeCast<SelectionMode>()

  public inline val SelectionMode.Companion.END: SelectionMode get() = "end".asDynamic().unsafeCast<SelectionMode>()

  public inline val SelectionMode.Companion.PRESERVE: SelectionMode get() = "preserve".asDynamic().unsafeCast<SelectionMode>()

  /* please, don't implement this interface!
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasFillRule
{
  companion object

  public inline val CanvasFillRule.Companion.NONZERO: CanvasFillRule get() = "nonzero".asDynamic().unsafeCast<CanvasFillRule>()

  public inline val CanvasFillRule.Companion.EVENODD: CanvasFillRule get() = "evenodd".asDynamic().unsafeCast<CanvasFillRule>()

  /* please, don't implement this interface!
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ImageSmoothingQuality
{
  companion object


  /* please, don't implement this interface!
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineCap
{
  companion object

  public inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() = "butt".asDynamic().unsafeCast<CanvasLineCap>()

  public inline val CanvasLineCap.Companion.ROUND: CanvasLineCap get() = "round".asDynamic().unsafeCast<CanvasLineCap>()

  public inline val CanvasLineCap.Companion.SQUARE: CanvasLineCap get() = "square".asDynamic().unsafeCast<CanvasLineCap>()

  /* please, don't implement this interface!
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineJoin
{
  companion object

  public inline val CanvasLineJoin.Companion.BUTT: CanvasLineJoin get() = "butt".asDynamic().unsafeCast<CanvasLineJoin>()

  public inline val CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() = "round".asDynamic().unsafeCast<CanvasLineJoin>()

  public inline val CanvasLineJoin.Companion.BEVEL: CanvasLineJoin get() = "bevel".asDynamic().unsafeCast<CanvasLineJoin>()

  /* please, don't implement this interface!
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanPlayTypeResult
{
  companion object

  public inline val CanPlayTypeResult.Companion.OPENSOURCE: CanPlayTypeResult get() = "opensource".asDynamic().unsafeCast<CanPlayTypeResult>()

  public inline val CanPlayTypeResult.Companion.COMMERCE: CanPlayTypeResult get() = "commerce".asDynamic().unsafeCast<CanPlayTypeResult>()

  public inline val CanPlayTypeResult.Companion.OTHER: CanPlayTypeResult get() = "other".asDynamic().unsafeCast<CanPlayTypeResult>()

  public inline val CanPlayTypeResult.Companion.UNKNOWN: CanPlayTypeResult get() = "unknown".asDynamic().unsafeCast<CanPlayTypeResult>()

  /* please, don't implement this interface!
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasFillRule
{
ColorSpaceConversion get() = "none".asDynamic().unsafeCast<ColorSpaceConversion>()

public inline val

ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() =
"default".asDynamic().unsafeCast<ColorSpaceConversion>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ResizeQuality
{
    companion object
}

public inline val

ResizeQuality.Companion.DEFAULT: ResizeQuality get() =
"default".asDynamic().unsafeCast<ResizeQuality>()

public inline val

ResizeQuality.Companion.LOW: ResizeQuality get() = "low".asDynamic().unsafeCast<ResizeQuality>()

public inline val

ResizeQuality.Companion.MEDIUM: ResizeQuality get() =
"medium".asDynamic().unsafeCast<ResizeQuality>()

public inline val

ResizeQuality.Companion.HIGH: ResizeQuality get() = "high".asDynamic().unsafeCast<ResizeQuality>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface

WorkerType
{
    companion object
}

public inline val

WorkerType.Companion.CLASSIC: WorkerType get() =
"classic".asDynamic().unsafeCast<WorkerType>()

public inline val

WorkerType.Companion.MODULE: WorkerType get() = "module".asDynamic().unsafeCast<WorkerType>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface

ShadowRootMode
{
    companion object
}

public inline val

ShadowRootMode.Companion.OPEN: ShadowRootMode get() =
"open".asDynamic().unsafeCast<ShadowRootMode>()

public inline val

ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
"closed".asDynamic().unsafeCast<ShadowRootMode>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface

ScrollBehavior
{
    companion object
}

public inline val

ScrollBehavior.Companion.AUTO: ScrollBehavior get() =
"auto".asDynamic().unsafeCast<ScrollBehavior>()

public inline val

ScrollBehavior.Companion.INSTANT: ScrollBehavior get() = "instant".asDynamic().unsafeCast<ScrollBehavior>()

public inline val

ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() =
"smooth".asDynamic().unsafeCast<ScrollBehavior>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface

ScrollLogicalPosition
{
    companion object
}

public inline val

ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get() =
"start".asDynamic().unsafeCast<ScrollLogicalPosition>()

public inline val

ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
"center".asDynamic().unsafeCast<ScrollLogicalPosition>()

public inline val

ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
"end".asDynamic().unsafeCast<ScrollLogicalPosition>()

public inline val

ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
"nearest".asDynamic().unsafeCast<ScrollLogicalPosition>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface

CSSBoxType
{
    companion object
}

public inline val

CSSBoxType.Companion.MARGIN: CSSBoxType get() =
"margin".asDynamic().unsafeCast<CSSBoxType>()

public inline val

CSSBoxType.Companion.BORDER: CSSBoxType get() = "border".asDynamic().unsafeCast<CSSBoxType>()

public inline val

CSSBoxType.Companion.CONTENT: CSSBoxType get() = "content".asDynamic().unsafeCast<CSSBoxType>()

/* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 * See github.com/kotlin/dukat for details.*/

org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.encryptedmedia.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript Headers to Kotlin
 */
public external open class Headers(init: dynamic = definedExternally) {
    fun append(name: String, value: String)
    fun delete(name: String)
    fun get(name: String): String?
    fun has(name: String): Boolean
    fun set(name: String, value: String)
}

/**
 * Exposes the JavaScript Body to Kotlin
 */
public external interface Body {
    val bodyUsed: Boolean
    fun arrayBuffer(): Promise<ArrayBuffer>
    fun blob(): Promise<Blob>
    fun formData(): Promise<FormData>
    fun json(): Promise<String>
}

/**
 * Exposes the JavaScript Request to Kotlin
 */
public external open class Request(input: dynamic, init: RequestInit = definedExternally) : Body {
    open val method: String
    open val url: String
    open val headers: Headers
    open val type: RequestType
    open val destination: RequestDestination
    open val referrer: String
    open val referrerPolicy: dynamic
    open val mode: RequestMode
    open val credentials: RequestCredentials
    open val cache: RequestCache
    open val redirect: RequestRedirect
    open val integrity: String
    open val keepalive: Boolean
    override val bodyUsed: Boolean
    fun clone(): Request
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): Promise<FormData>
    override fun json(): Promise<String>
}

public external interface RequestInit {
    var method: String? = undefined
    var headers: dynamic? = undefined
    var body: dynamic? = undefined
    var referrer: String? = undefined
    var referrerPolicy: dynamic? = undefined
    var mode: RequestMode? = undefined
    var credentials: RequestCredentials? = undefined
    var cache: RequestCache? = undefined
    var redirect: RequestRedirect? = undefined
    var integrity: String? = undefined
    var keepalive: Boolean? = undefined
    var window: Any?
}

@kotlin.internal.InlineOnly
    var init = 
    if (method != undefined) { init.method = method }
    if (headers != undefined) { init.headers = headers }
    if (body != undefined) { init.body = body }
    if (referrer != undefined) { init.referrer = referrer }
    if (referrerPolicy != undefined) { init.referrerPolicy = referrerPolicy }
    if (mode != undefined) { init.mode = mode }
    if (credentials != undefined) { init.credentials = credentials }
    if (cache != undefined) { init.cache = cache }
    if (redirect != undefined) { init.redirect = redirect }
    if (integrity != undefined) { init.integrity = integrity }
    if (keepalive != undefined) { init.keepalive = keepalive }
    if (window != undefined) { init.window = window }
    return init
}

/**
 * Exposes the JavaScript Response to Kotlin
 */
public external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {
    open val type: ResponseType
    open val url: String
    open val redirected: Boolean
    open val status: Short
    open val ok: Boolean
    open val statusText: String
    open val headers: Headers
    open val body: dynamic
    open val trailer: Promise<Headers>
    override val bodyUsed: Boolean
    fun clone(): Response
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): Promise<FormData>
    override fun json(): Promise<String>
}
override fun text(): Promise<String>

companion object {
    fun error(): Response
    fun redirect(url: String?, status: Short = definedExternally): Response
}

public external interface ResponseInit {
    var status: Short? /* = 200 */
        get() = definedExternally
        set(value) = definedExternally
    var statusText: String? /* = "OK" */
        get() = definedExternally
        set(value) = definedExternally
    var headers: dynamic
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["status"] = status
    o["statusText"] = statusText
    o["headers"] = headers
    return o
}

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestType {
    companion object
}

public inline val RequestType.Companion.EMPTY: RequestType get() = "".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.AUDIO: RequestType get() = "audio".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.FONT: RequestType get() = "font".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.IMAGE: RequestType get() = "image".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.SCRIPT: RequestType get() = "script".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.STYLE: RequestType get() = "style".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.TRACK: RequestType get() = "track".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.VIDEO: RequestType get() = "video".asDynamic().unsafeCast<RequestType>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestDestination {
    companion object
}

public inline val RequestDestination.Companion.EMPTY: RequestDestination get() = "".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.DOCUMENT: RequestDestination get() = "document".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.EMBED: RequestDestination get() = "embed".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.FONT: RequestDestination get() = "font".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.IMAGE: RequestDestination get() = "image".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.MANIFEST: RequestDestination get() = "manifest".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.MEDIA: RequestDestination get() = "media".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.OBJECT: RequestDestination get() = "object".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.REPORT: RequestDestination get() = "report".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SERVICEWORKER: RequestDestination get() = "serviceworker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SHAREDWORKER: RequestDestination get() = "sharedworker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.STYLE: RequestDestination get() = "style".asDynamic().unsafeCast<RequestDestination>
can be found in the license/LICENSE.txt file. /*\u00a0*/ NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!/*\u00a0*/ See github.com/kotlin/dukat for details\npackage org.w3c.dom.mediacapture

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.encryptedmedia.*
import org.w3c.dom.events.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript

[MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin
 */
public external open class MediaStream() : EventTarget, MediaProvider {
    constructor(stream: MediaStream)
    constructor(tracks: Array<MediaStreamTrack>)
    open val id: String
    open val active: Boolean
    var onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?
    var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?
    fun getAudioTracks(): Array<MediaStreamTrack>
    fun getVideoTracks(): Array<MediaStreamTrack>
    fun getTracks(): Array<MediaStreamTrack>
    fun getTrackById(trackId: String): MediaStreamTrack?
    fun addTrack(track: MediaStreamTrack)
    fun removeTrack(track: MediaStreamTrack)
    fun clone(): MediaStream
}

/**
 * Exposes the JavaScript

[MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin
 */
public external abstract class MediaStreamTrack : EventTarget {
    open val kind: String
    open val id: String
    open var label: String
    open var enabled: Boolean
    open var muted: Boolean
    open var onmute: ((Event) -> dynamic)?
    open var onunmute: ((Event) -> dynamic)?
    open var readyState: MediaStreamTrackState
    open var onended: ((Event) -> dynamic)?
    open var onoverconstrained: ((Event) -> dynamic)?
    fun clone(): MediaStreamTrack
    fun stop()
    fun getCapabilities(): MediaTrackCapabilities
    fun getConstraints(): MediaTrackConstraints
    fun applyConstraints(constraints: MediaTrackConstraints = definedExternally): Promise<Unit>
}

/**
 * Exposes the JavaScript

[MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints) to Kotlin
 */
public external interface MediaTrackSupportedConstraints {
    var width: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var height: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var aspectRatio: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var frameRate: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var facingMode: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var resizeMode: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var volume: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var sampleRate: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var sampleSize: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var echoCancellation: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var autoGainControl: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var latency: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var channelCount: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var deviceId: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var groupId: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")

    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
}
frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

public external interface MediaTrackCapabilities {
    var width: ULongRange?
        get() = definedExternally
        set(value) = definedExternally
    var height: ULongRange?
        get() = definedExternally
        set(value) = definedExternally
    var aspectRatio: DoubleRange?
        get() = definedExternally
        set(value) = definedExternally
    var frameRate: DoubleRange?
        get() = definedExternally
        set(value) = definedExternally
    var facingMode: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
    var resizeMode: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
    var volume: DoubleRange?
        get() = definedExternally
        set(value) = definedExternally
    var sampleRate: ULongRange?
        get() = definedExternally
        set(value) = definedExternally
    var sampleSize: ULongRange?
        get() = definedExternally
        set(value) = definedExternally
    var echoCancellation: Array<Boolean>?
        get() = definedExternally
        set(value) = definedExternally
    var autoGainControl: Array<Boolean>?
        get() = definedExternally
        set(value) = definedExternally
    var noiseSuppression: Array<Boolean>?
        get() = definedExternally
        set(value) = definedExternally
    var latency: DoubleRange?
        get() = definedExternally
        set(value) = definedExternally
    var channelCount: ULongRange?
        get() = definedExternally
        set(value) = definedExternally
    var deviceId: String?
        get() = definedExternally
        set(value) = definedExternally
    var groupId: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    return o
}

/**
 * Exposes the JavaScript
[MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin
 */
public external interface MediaTrackConstraints : MediaTrackConstraintSet {
    var advanced: Array<MediaTrackConstraintSet>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["advanced"] = advanced
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
}
o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

public external interface MediaTrackConstraintSet {
    var width: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var height: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var aspectRatio: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var frameRate: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var facingMode: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var resizeMode: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var volume: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var sampleRate: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var sampleSize: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var echoCancellation: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var autoGainControl: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var noiseSuppression: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var latency: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var channelCount: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var deviceId: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var groupId: dynamic
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

/**
 * Exposes the JavaScript
 * MediaTrackSettings to Kotlin
 */
public external interface MediaTrackSettings {
    var width: Int?
        get() = definedExternally
        set(value) = definedExternally
    var height: Int?
        get() = definedExternally
        set(value) = definedExternally
    var aspectRatio: Double?
        get() = definedExternally
        set(value) = definedExternally
    var frameRate: Double?
        get() = definedExternally
        set(value) = definedExternally
    var facingMode: String?
        get() = definedExternally
        set(value) = definedExternally
    var resizeMode: String?
        get() = definedExternally
        set(value) = definedExternally
    var volume: Double?
        get() = definedExternally
        set(value) = definedExternally
    var sampleRate: Int?
        get() = definedExternally
        set(value) = definedExternally
    var sampleSize: Int?
        get() = definedExternally
        set(value) = definedExternally
    var echoCancellation: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var autoGainControl: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var noiseSuppression: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var latency: Double?
        get() = definedExternally
        set(value) = definedExternally
    var channelCount: Int?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

/**
 * Exposes the JavaScript [MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin
 */
public external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) : Event {
    public companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface MediaStreamTrackEventInit : EventInit {
        var track: MediaStreamTrack?
        get() = definedExternally
        set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["track"] = track
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    public external open class OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event {
    public companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface OverconstrainedErrorEventInit : EventInit {
        var error: dynamic
        get() = definedExternally
        set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["error"] = error
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    /**
     * Exposes the JavaScript [MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin
     */
    public external abstract class MediaDevices : EventTarget {
        public var ondevicechange: ((Event) -> dynamic)?

        fun enumerateDevices(): Promise<Array<MediaDeviceInfo>>

        fun getUserMedia(constraints: MediaStreamConstraints = definedExternally): Promise<MediaStream>

        /**
         * Exposes the JavaScript [MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin
         */
        public external abstract class MediaDeviceInfo {
            public val deviceId: String

            public val kind: MediaDeviceKind

            public val label: String

            public fun toJSON(): dynamic

            public external interface InputDeviceInfo : MediaDeviceInfo {

                fun getCapabilities(): MediaTrackCapabilities

                fun getSettings(): Settings

                fun applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>

                public external interface ConstrainablePattern {

                    public var onoverconstrained: ((Event) -> dynamic)?

                    get() = definedExternally

                    set(value) = definedExternally

                    fun getCapabilities(): Capabilities

                    fun getConstraints(): Constraints

                    fun getSettings(): Settings

                    fun applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>

                    public external interface DoubleRange {

                        public var max: Double?

                        get() = definedExternally

                        set(value) = definedExternally

                        public var min: Double?

                        get() = definedExternally

                        set(value) = definedExternally

                        public var *: Unit

                        set(value) = definedExternally

                        public var **: Unit

                        set(value) = definedExternally

                        public var ***: Unit

                        set(value) = definedExternally

                        public var ****: Unit

                        set(value) = definedExternally

                        public fun DoubleRange(max: Double? = undefined,
min: Double? = undefined): DoubleRange {
    val o = js("{()}")
    o["max"] = max
    o["min"] = min
    return o
}

public external interface ConstrainDoubleRange : DoubleRange {
    var exact: Double?
        get() = definedExternally
        set(value) = definedExternally
    var ideal: Double?
        get() = definedExternally
        set(value) = definedExternally
    var max: Double?
        get() = definedExternally
        set(value) = definedExternally
    var min: Double?
        get() = definedExternally
        set(value) = definedExternally
}

public external interface ConstrainDOMStringParameters

    var exact: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var ideal: dynamic
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {
    val o = js("{()}")
    o["exact"] = exact
    o["ideal"] = ideal
    return o
}

public external interface ConstraintSet

    var advanced: Array<ConstraintSet>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ConstraintSet(advanced: Array<ConstraintSet>? = undefined): ConstraintSet {
    val o = js("{()}")
    o["advanced"] = advanced
    return o
}

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaStreamTrackState

    companion object
}

public inline val MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() = "live".asDynamic().unsafeCast<MediaStreamTrackState>()

public inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = "ended".asDynamic().unsafeCast<MediaStreamTrackState>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface VideoFacingModeEnum

    companion object
}

public inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = "user".asDynamic().unsafeCast<VideoFacingModeEnum>()

public inline val VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() = "left".asDynamic().unsafeCast<VideoFacingModeEnum>()

public inline val VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() = "right".asDynamic().unsafeCast<VideoFacingModeEnum>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface VideoResizeModeEnum {
    companion object
}

public inline val VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() = "none".asDynamic().unsafeCast<VideoResizeModeEnum>()


/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaDeviceKind {
    companion object
}

public inline val MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() = "audioinput".asDynamic().unsafeCast<MediaDeviceKind>()

public inline val MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() = "audiooutput".asDynamic().unsafeCast<MediaDeviceKind>()

public inline val MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() = "videoinput".asDynamic().unsafeCast<MediaDeviceKind>()
please, don't implement this interface!

```kotlin
/* Please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface EndOfStreamError {
    companion object
}


public inline val EndOfStreamError.Companion.DECODE: EndOfStreamError get() = "decode".asDynamic().unsafeCast<EndOfStreamError>()

/* Please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface AppendMode {
    companion object
}

public inline val AppendMode.Companion.SEGMENTS: AppendMode get() = "segments".asDynamic().unsafeCast<AppendMode>()

public inline val AppendMode.Companion.SEQUENCE: AppendMode get() = "sequence".asDynamic().unsafeCast<AppendMode>()

/**
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 */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!//
See github.com/kotlin/dukat for details

package org.w3c.dom.pointerevents

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external interface PointerEventInit : MouseEventInit {
    var pointerId: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var width: Double? /* = 1.0 */
        get() = definedExternally
        set(value) = definedExternally
    var height: Double? /* = 1.0 */
        get() = definedExternally
        set(value) = definedExternally
    var pressure: Float? /* = 0f */
        get() = definedExternally
        set(value) = definedExternally
    var tangentialPressure: Float? /* = 0f */
        get() = definedExternally
        set(value) = definedExternally
    var tiltX: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var tiltY: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var pointerType: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var isPrimary: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["pointerId"] = pointerId
    o["width"] = width
    o["height"] = height
    o["pressure"] = pressure
    o["tangentialPressure"] = tangentialPressure
    o["tiltX"] = tiltX
    o["tiltY"] = tiltY
    o["twist"] = twist
    o["pointerType"] = pointerType
    o["isPrimary"] = isPrimary
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
```
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```javascript
o["modifierSymbol"] = modifierSymbol
o["modifierSymbolLock"] = modifierSymbolLock
o["view"] = view
o["detail"] = detail
o["bubbles"] = bubbles
o["cancelable"] = cancelable
o["composed"] = composed
return o
*/}

/**
 * Exposes the JavaScript
 [PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin
 */
public external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {
    open val pointerId: Int
    open val width: Double
    open val height: Double
    open val pressure: Float
    open val tangentialPressure: Float
    open val tiltX: Int
    open val tiltY: Int
    open val twist: Int
    open val pointerType: String
    open val isPrimary: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT! See github.com/kotlin/dukat for details

package org.w3c.dom.svg

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.encryptedmedia.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.svg.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript
 [SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin
 */
public external abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {
}

public external interface SVGBoundingBoxOptions {
    var fill: Boolean? /* = true */
    var stroke: Boolean? /* = false */
    var markers: Boolean? /* = false */
    var clipped: Boolean? /* = false */
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["fill"] = fill
    o["stroke"] = stroke
    o["markers"] = markers
    o["clipped"] = clipped
    return o
*/
```

---

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/** Exposes the JavaScript [SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGGeometryElement) to Kotlin */

```kotlin
public external abstract class SVGGGeometryElement : SVGGraphicsElement {
    open val pathLength: SVGAnimatedNumber
    fun isPointInFill(point: DOMPoint): Boolean
    fun isPointInStroke(point: DOMPoint): Boolean
    fun getTotalLength(): Float
    fun getPointAtLength(distance: Float): DOMPoint

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

```kotlin
/**
 * Exposes the JavaScript [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin
 */
public external abstract class SVGNumber {
    open var value: Float
}
```

```kotlin
/**
 * Exposes the JavaScript [SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin
 */
public external abstract class SVGLength {
    open val unitType: Short
    open var value: Float
    open var valueInSpecifiedUnits: Float
    open var valueAsString: String
    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)
    fun convertToSpecifiedUnits(unitType: Short)

    companion object {
        val SVG_LENGTHTYPE_UNKNOWN: Short
        val SVG_LENGTHTYPE_NUMBER: Short
        val SVG_LENGTHTYPE_PERCENTAGE: Short
        val SVG_LENGTHTYPE_EMS: Short
        val SVG_LENGTHTYPE_EXS: Short
        val SVG_LENGTHTYPE_PX: Short
        val SVG_LENGTHTYPE_CM: Short
        val SVG_LENGTHTYPE_MM: Short
        val SVG_LENGTHTYPE_IN: Short
        val SVG_LENGTHTYPE_PT: Short
        val SVG_LENGTHTYPE_PC: Short
    }
}
```

```kotlin
/**
 * Exposes the JavaScript [SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin
 */
public external abstract class SVGAngle {
    open val unitType: Short
    open var value: Float
    open var valueInSpecifiedUnits: Float
    open var valueAsString: String
    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)
    fun convertToSpecifiedUnits(unitType: Short)

    companion object {
        val SVG_ANGLETYPE_UNKNOWN: Short
        val SVG_ANGLETYPE_UNSPECIFIED: Short
        val SVG_ANGLETYPE_DEG: Short
        val SVG_ANGLETYPE_RAD: Short
        val SVG_ANGLETYPE_GRAD: Short
    }
}
```

```kotlin
public external abstract class SVGNameList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: dynamic): dynamic
    fun insertItemBefore(newItem: dynamic, index: Int): dynamic
    fun replaceItem(newItem: dynamic, index: Int): dynamic
    fun removeItem(index: Int): dynamic
    fun appendItem(newItem: dynamic): dynamic
    fun getItem(index: Int): dynamic
}
```

@kotlin.internal.InlineOnly
public inline operator fun SVGNameList.get(index: Int): dynamic = asDynamic() [index]

@kotlin.internal.InlineOnly
public inline operator fun SVGNameList.set(index: Int, newItem: dynamic) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGGNumberList) to Kotlin */
public external abstract class SVGGNumberList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: SVGNumber): SVGNumber
    fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber
    fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber
    fun removeItem(index: Int): SVGNumber
    fun appendItem(newItem: SVGNumber): SVGNumber
    fun getItem(index: Int): SVGNumber
}
```

@kotlin.internal.InlineOnly
public inline operator fun SVGGNumberList.get(index: Int): dynamic = asDynamic() [index]
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface SVGUnitTypes{
    companion object {
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external interface SVGTests {
    val requiredExtensions: SVGStringList
    val systemLanguage: SVGStringList
}

public external interface SVGFitToViewBox {
    val viewBox: SVGAnimatedRect
    val preserveAspectRatio: SVGAnimatedPreserveAspectRatio
}

/**
 * Exposes the JavaScript
 */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface SVGZoomAndPan {
    var zoomAndPan: Short

    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external interface SVGURIReference {
    val href: SVGAnimatedString
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGSVGElement: SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan,
WindowEventHandlers {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open var currentScale: Float
    open val currentTranslate: DOMPointReadOnly
    fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList
    fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList
    fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean
    fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean
    fun deselectAll()
    fun createSVGNumber(): SVGNumber
    fun createSVGLength(): SVGLength
    fun createSVGAngle(): SVGAngle
    fun createSVGPoint(): DOMPoint
    fun createSVGMatrix(): DOMMatrix
    fun createSVGRect(): DOMRect
    fun createSVGTransform(): SVGTransform
    fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform
    fun getElementById(elementId: String): Element
    fun suspendRedraw(maxWaitMilliseconds: Int): Int
    fun unsuspendRedraw(suspendHandleID: Int): Int
    fun unsuspendRedrawAll(): Int
    fun forceRedraw(): Int

    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGGElement: SVGGraphicsElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

public external abstract class SVGUnknownElement : SVGGraphicsElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin
 */
public external abstract class SVGDefsElement : SVGGraphicsElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin
 */
public external abstract class SVGDescElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin
 */
public external abstract class SVGMetadataElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin
 */
public
external abstract class SVGTitleElement : SVGElem{
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin
 */
public external abstract class SVGTitleElement : SVGGraphicsElement, SVGFITToViewBox {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin
 */
public external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open val instanceRoot: SVGElement?
    open val animatedInstanceRoot: SVGElement?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external open class SVGUseElementShadowRoot : ShadowRoot {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external interface SVGElementInstance {
    val correspondingElement: SVGElement?
        get() = definedExternally
    val correspondingUseElement: SVGUseElement?
        get() = definedExternally
}

public external open class ShadowAnimation(source: dynamic, newTarget: dynamic) {
    open val sourceAnimation: dynamic
}

/**
 * Exposes the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin
 */
public external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open val instanceRoot: SVGElement?
    open val animatedInstanceRoot: SVGElement?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external interface SVGElementInstance {
    val correspondingElement: SVGElement?
        get() = definedExternally
    val correspondingUseElement: SVGUseElement?
        get() = definedExternally
}

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Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement) to Kotlin

```kotlin
public external abstract class SVGSwitchElement : SVGGraphicsElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external interface GetSVGDocument {
    fun getSVGDocument(): Document
}

/**
 * Exposes the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin
 */
public external abstract class SVGStyleElement : SVGElement, LinkStyle {
    open var type: String
    open var media: String
    open var title: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin
 */
public external abstract class SVGTransform {
    open var type: Short
    open var matrix: DOMMatrix
    open var angle: Float
    fun setMatrix(matrix: DOMMatrixReadOnly)
    fun setTranslate(tx: Float, ty: Float)
    fun setScale(sx: Float, sy: Float)
    fun setRotate(angle: Float, cx: Float, cy: Float)
    fun setSkewX(angle: Float)
    fun setSkewY(angle: Float)

    companion object {
        val SVG_TRANSFORM_UNKNOWN: Short
        val SVG_TRANSFORM_MATRIX: Short
        val SVG_TRANSFORM_TRANSLATE: Short
        val SVG_TRANSFORM_SCALE: Short
        val SVG_TRANSFORM_ROTATE: Short
        val SVG_TRANSFORM_SKEWX: Short
        val SVG_TRANSFORM_SKEWY: Short
    }
}

/**
 * Exposes the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin
 */
public external abstract class SVGTransformList {
    open val length: Int
    open val numberOfItems: Int

    fun clear()
    fun initialize(newItem: SVGTransform): SVGTransform
    fun insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform
    fun replaceItem(newItem: SVGTransform, index: Int): SVGTransform
    fun removeItem(index: Int): SVGTransform
    fun appendItem(newItem: SVGTransform): SVGTransform
    fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform
    fun consolidate(): SVGTransform?
    fun getItem(index: Int): SVGTransform
}

@kotlin.internal.InlineOnly
public inline operator fun SVGTransformList.get(index: Int): SVGTransform? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to Kotlin
 */
public external abstract class SVGAnimatedTransformList {
    open val baseVal: SVGTransformList
    open val animVal: SVGTransformList
}

/**
 * Exposes the JavaScript [SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin
 */
public external abstract class SVGPreserveAspectRatio {
    open var align: Short
    open var meetOrSlice: Short
```
Short

    companion object {
        val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short
        val SVG_PRESERVEASPECTRATIO_NONE: Short
        val SVG_PRESERVEASPECTRATIO_XMINYMID: Short
        val SVG_PRESERVEASPECTRATIO_XMAXYMID: Short
        val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short
        val SVG_PRESERVEASPECTRATIO_XMIDYMID: Short
        val SVG_PRESERVEASPECTRATIO_XMYMAX: Short
        val SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short
        val SVG_MEETORSLICE_UNKNOWN: Short
        val SVG_MEETORSLICE_MEET: Short
        val SVG_MEETORSLICE_SLICE: Short
    }

/**
 * Exposes the JavaScript [SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspectRatio) to Kotlin
 */
public external abstract class SVGAnimatedPreserveAspectRatio {
    open val baseVal: SVGPreserveAspectRatio
    open val animVal: SVGPreserveAspectRatio
}

/**
 * Exposes the JavaScript [SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin
 */
public external abstract class SVGPathElement : SVGGeometryElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }

/**
 * Exposes the JavaScript [SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin
 */
public external abstract class SVGCircleElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val r: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }

/**
 * Exposes the JavaScript [SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin
 */
public external abstract class SVGRectElement : SVGGeometryElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open val rx: SVGAnimatedLength
    open val ry: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }

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val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

// Exposes the JavaScrpit [SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin */public external abstract class SVGEllipseElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val rx: SVGAnimatedLength
    open val ry: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin */
public external abstract class SVGLineElement : SVGGeometryElement {
    open val x1: SVGAnimatedLength
    open val y1: SVGAnimatedLength
    open val x2: SVGAnimatedLength
    open val y2: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin */
public external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin */
public external interface SVGAnimatedPoints {
    val points: SVGPointList
    val animatedPoints: SVGPointList
}

public external abstract class SVGPointList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: DOMPoint): DOMPoint
    fun insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint
    fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint
    fun removeItem(index: Int): DOMPoint
    fun appendItem(newItem: DOMPoint): DOMPoint
    fun getItem(index: Int): DOMPoint
}

@kotlin.internal.InlineOnly
public inline operator fun SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGAnimatedPointsList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPointsList) to Kotlin */
public fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem }

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*/
public external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGTextContentElement : SVGGraphicsElement {
    open val textLength: SVGAnimatedLength
    open val lengthAdjust: SVGAnimatedEnumeration
    fun getNumberOfChars(): Int
    fun getComputedTextLength(): Float
    fun getSubStringLength(charnum: Int, nchars: Int): Float
    fun getStartPositionOfChar(charnum: Int): DOMPoint
    fun getEndPositionOfChar(charnum: Int): DOMPoint
    fun getExtentOfChar(charnum: Int): DOMRect
    fun getRotationOfChar(charnum: Int): Float
    fun getCharNumAtPosition(point: DOMPoint): Int
    fun selectSubString(charnum: Int, nchars: Int)

    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGTextPositioningElement : SVGTextContentElement {
    open val x: SVGAnimatedLengthList
    open val y: SVGAnimatedLengthList
    open val dx: SVGAnimatedLengthList
    open val dy: SVGAnimatedLengthList
    open val rotate: SVGAnimatedNumberList

    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}
/**
 * Exposes the JavaScript [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin
 */
public external abstract class SVGTextElement : SVGTextPositioningElement {
    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin
 */
public external abstract class SVGTSpanElement : SVGTextPositioningElement {
    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin
 */
public external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {
    open val startOffset: SVGAnimatedLength
    open val method: SVGAnimatedEnumeration
    open val spacing: SVGAnimatedEnumeration

    companion object {
        val TEXTPATH_METHODTYPE_UNKNOWN: Short
        val TEXTPATH_METHODTYPE_ALIGN: Short
        val TEXTPATH_METHODTYPE_STRETCH: Short
        val TEXTPATH_SPACINGTYPE_UNKNOWN: Short
        val TEXTPATH_SPACINGTYPE_AUTO: Short
        val TEXTPATH_SPACINGTYPE_EXACT: Short
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
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/**
 * Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin
 */
public external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference, HTMLOrSVGImageElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open var crossOrigin: String?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
    }
}

/**
 * Exposes the JavaScript [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin
 */
public external abstract class SVGForeignObjectElement : SVGGraphicsElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
    }
}

/**
 * Exposes the JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin
 */

*public external abstract class SVGSolidColorElement : SVGEElement {
  companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
  }
}

/**
 * Exposes the JavaScript [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin
 */
public external abstract class SVGGradientElement : SVGEElement, SVGURIReference, SVGUngType {
  open val gradientUnits: SVGAnimatedEnumeration
  open val gradientTransform: SVGAnimatedTransformList
  open val spreadMethod: SVGAnimatedEnumeration

  companion object {
    val SVG_SPREADMETHOD_UNKNOWN: Short
    val SVG_SPREADMETHOD_PAD: Short
    val SVG_SPREADMETHOD_REFLECT: Short
    val SVG_SPREADMETHOD_REPEAT: Short
    val SVG_UNIT_TYPE_UNKNOWN: Short
    val SVG_UNIT_TYPE_USERSPACEONUSE: Short
    val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
  }
}

/**
 * Exposes the JavaScript [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin
 */
public external abstract class SVGLinearGradientElement : SVGGradientElement {
  open val x1: SVGAnimatedLength
  open val y1: SVGAnimatedLength
  open val x2: SVGAnimatedLength
  open val y2: SVGAnimatedLength

  companion object {
    val SVG_SPREADMETHOD_UNKNOWN: Short
    val SVG_SPREADMETHOD_PAD: Short
    val SVG_SPREADMETHOD_REFLECT: Short
    val SVG_SPREADMETHOD_REPEAT: Short
    val SVG_UNIT_TYPE_UNKNOWN: Short
    val SVG_UNIT_TYPE_USERSPACEONUSE: Short
    val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
  }
}

/**
 * Exposes the JavaScript [SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to Kotlin
 */
public external abstract class SVGRadialGradientElement : SVGGradientElement {
  open val cx: SVGAnimatedLength
  open val cy: SVGAnimatedLength
  open val r: SVGAnimatedLength
  open val fx: SVGAnimatedLength
  open val fy: SVGAnimatedLength
  open val fr: SVGAnimatedLength

  companion object {
    val SVG_SPREADMETHOD_UNKNOWN: Short
    val SVG_SPREADMETHOD_PAD: Short
    val SVG_SPREADMETHOD_REFLECT: Short
    val SVG_SPREADMETHOD_REPEAT: Short
    val SVG_UNIT_TYPE_UNKNOWN: Short
    val SVG_UNIT_TYPE_USERSPACEONUSE: Short
    val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
  }
}
Short
val SVG_SPREADMETHOD_REFLECT: Short
val SVG_SPREADMETHOD_REPEAT:
Short
val SVG_UNIT_TYPE_UNKNOWN: Short
val SVG_UNIT_TYPE_USERSPACEONUSE:
Short
val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

public external abstract class
SVGMeshGradientElement : SVGGradientElement {’un companion object {’un val
SVG_SPREADMETHOD_UNKNOWN: Short
val SVG_SPREADMETHOD_PAD: Short
val SVG_SPREADMETHOD_REFLECT: Short
val SVG_SPREADMETHOD_REPEAT: Short
val SVG_UNIT_TYPE_UNKNOWN: Short
val SVG_UNIT_TYPE_USERSPACEONUSE: Short
val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val ENTITY_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

public external abstract class
SVGMeshrowElement : SVGElement {’un companion object {’un val
ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val ENTITY_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript
*SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin
*/
public
external abstract class
SVGStopElement : SVGElement {’un open val offset: SVGAnimatedNumber

[SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin
*/

---

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/**
 * Exposes the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin
 */
public external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {
    open var type: String
    open var crossOrigin: String?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin
 */
public external abstract class SVGAElement : SVGGraphicsElement, SVGURIReference {
    open val target: SVGAnimatedString
    open val download: SVGAnimatedString
    open val rel: SVGAnimatedString
    open val relList: SVGAnimatedString
    open val hreflang: SVGAnimatedString
    open val type: SVGAnimatedString

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin
 */
public external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {
    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
JetBrains s.r.o. and Kotlin Programming Language contributors.

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NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!

See github.com/kotlin/dukat for details

import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.dom.*
import org.w3c.dom.css.*
import org.w3c.dom.encryptedmedia.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.fetch.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript
 */

public external open class Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) :

    MediaProvider, ImageBitmapSource {
    open val size: Number
    open val type: String
    open val isClosed:
    Boolean
    fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String =
        definedExternally): Blob
    fun close()
}

public external interface BlobPropertyBag {
    var type: String? /* = "" */
        get() = definedExternally
        set(value) =
        definedExternally
}

@kotlin.internal.InlineOnly
public inline fun BlobPropertyBag(type: String? = ""): BlobPropertyBag {
    val o = js("({})")
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript
 */

public external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {
    open val name:
    String
    open val lastModified: Int
}

public external interface FilePropertyBag : BlobPropertyBag {
    var
    lastModified: Int?
        get() = definedExternally
        set(value) =
        definedExternally
}

@kotlin.internal.InlineOnly
public inline fun FilePropertyBag(lastModified: Int? = undefined, type: String? = ""): FilePropertyBag {
    val o = js("({})")
    o["lastModified"] = lastModified
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript
 */

public external abstract class FileList : ItemArrayLike<File> {
    override fun item(index: Int): File?
}

@kotlin.internal.InlineOnly
public operator fun FileList.get(index: Int): File? = asDynamic()[index]

/**
 * Exposes the JavaScript
 */

public external open class FileReader : EventTarget {
    open val readyState: Short
    open val result: dynamic
    open val error:
    dynamic
    var onloadstart: ((ProgressEvent) -> dynamic)?
    var onprogress: ((ProgressEvent) -> dynamic)?
    var onload: ((Event) -> dynamic)?
    var onabort: ((Event) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    func abort()

    companion object {
        val EMPTY: Short
        val LOADING: Short
        val DONE:
    }
}

/**
 * Exposes the JavaScript
 */

public external open class FileReaderSync {
    fun readAsArrayBuffer(blob: Blob): ArrayBuffer
    fun readAsBinaryString(blob: Blob): String
    fun readAsText(blob: Blob, label: String = definedExternally): String
    fun readAsDataURL(blob: Blob): String
    fun abort():
    companion object {
        fun readAsArrayBuffer(blob: Blob): ArrayBuffer
        fun readAsBinaryString(blob: Blob): String
        fun readAsText(blob: Blob, label: String = definedExternally): String
        fun readAsDataURL(blob: Blob): String
    }
}

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 63594
null
val NONE: Short
val CAPTURING_PHASE: Short
val AT_TARGET: Short
var notification: Notification? = definedExternally
val value = notification
val action = notification
val bubbles = notification
val cancelable = notification
val composed = notification

public external interface NotificationEventInit : ExtendableEventInit {
    val notification: Notification?
    var action: String?
    var bubbles: Boolean?
    var cancelable: Boolean?
    var composed: Boolean?
}

public external interface NotificationPermission {
    companion object
}

public inline val NotificationPermission.Companion.DEFAULT: NotificationPermission get() = "default".asDynamic().unsafeCast<NotificationPermission>()

public inline val NotificationPermission.Companion.DENIED: NotificationPermission get() = "denied".asDynamic().unsafeCast<NotificationPermission>()

public inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() = "granted".asDynamic().unsafeCast<NotificationPermission>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface NotificationDirection {
    companion object
}

public inline val NotificationDirection.Companion.AUTO: NotificationDirection get() = "auto".asDynamic().unsafeCast<NotificationDirection>()

public inline val NotificationDirection.Companion.LTR: NotificationDirection get() = "ltr".asDynamic().unsafeCast<NotificationDirection>()

public inline val NotificationDirection.Companion.RTL: NotificationDirection get() = "rtl".asDynamic().unsafeCast<NotificationDirection>()

/*
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 */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!

package org.w3c.workers

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.encryptedmedia.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript [ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin
 */
public external abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {
    open val scriptURL: String
    open val state: ServiceWorkerState
    open var onstatechange: ((Event) -> dynamic)?
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
}

/**
 * Exposes the JavaScript [ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to Kotlin
 */
public external abstract class ServiceWorkerRegistration : EventTarget {
    open val installing: ServiceWorker?
    open val waiting: ServiceWorker?
    open val active: ServiceWorker?
    open val scope: String
    open val onupdatefound: ((Event) -> dynamic)?
    open val onerror: ((Event) -> dynamic)?
    fun update(): Promise<Unit>
    fun unregister(): Promise<Boolean>
    fun showNotification(title: String, options: NotificationOptions = definedExternally): Promise<Unit>
    fun getNotifications(filter: GetNotificationOptions = definedExternally): Promise<Array<Notification>>
    fun methodName(): Promise<dynamic>
}

/**
 * Exposes the JavaScript [ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin
 */
public external abstract class ServiceWorkerContainer : EventTarget {
    open val controller: ServiceWorker?
    open val serviceWorker: ServiceWorker?
    open val events: ServiceWorkerEventInit?
}
ServiceWorker?
open val ready: Promise<ServiceWorkerRegistration>
open var oncontrollerchange:
{(Event) -> dynamic}
open var onmessage: ((MessageEvent) -> dynamic)
fun register(scriptURL: String, options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>
fun getRegistration(clientURL: String = definedExternally): Promise<Any?>
fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>
fun startMessages():
unpublic external interface RegistrationOptions {
var scope: String?
getter = definedExternally
setter = definedExternally
var type: WorkerType? /* = WorkerType.CLASSIC */
getter = definedExternally
setter = definedExternally

un@kotlin.internal.InlineOnly
unpublic inline fun RegistrationOptions(scope: String? = undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {
val o = js(`{"scope": ${scope}, "type": ${type}}`) return o
}

unpublic external class ServiceWorkerMessageEventInit: Event {
open var data: Any?
open var origin: String?
open val lastEventId: String?
open var source: UnionMessagePortOrServiceWorker?
open var ports: Array<MessagePort>?

companion object {
val NONE: Short
val CAPTURING_PHASE: Short
val AT_TARGET: Short
val BUBBLING_PHASE: Short

unpublic external interface ServiceWorkerMessageEventInit: EventInit {
var data: Any?
getter = definedExternally
setter = definedExternally
var origin: String?
getter = definedExternally
setter = definedExternally
var lastEventId: String?
getter = definedExternally
setter = definedExternally
var source: UnionMessagePortOrServiceWorker?
getter = definedExternally
setter = definedExternally
var ports: Array<MessagePort>?
getter = definedExternally
setter = definedExternally

@kotlin.internal.InlineOnly
val o = js(`{"data": ${data}, "origin": ${origin}, "lastEventId": ${lastEventId}, "source": ${source}, "ports": ${ports}, "bubbles": ${bubbles}, "cancelable": ${cancelable}, "composed": ${composed}, "return": undefined}`) return o
}

/**
 * Exposes the JavaScript [ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to Kotlin
 * unpublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {
 * open val clients: Clients
 * open val registration: ServiceWorkerRegistration
 * open var oninstall: ((Event) -> dynamic)
 * open var onactivate: ((Event) -> dynamic)
 * open var onfetch: ((FetchEvent) -> dynamic)
 * open var onforeignfetch: ((Event) -> dynamic)
 * open var onmessage: ((MessageEvent) -> dynamic)
 * open var onnotificationclick: ((NotificationEvent) -> dynamic)
 * open var onfunctionalevent: ((Event) -> dynamic)
 * open var onerror: ((Event) -> dynamic)
 * fun skipWaiting():
 * Promise<Unit>
 * }
 */

/**
 * Exposes the JavaScript [Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin
 * unpublic external abstract class Client : UnionClientOrMessagePortOrServiceWorker {
 * open val url: String
 * open val frameType: FrameType
 * open val id: String
 * fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
 * }
 */

/**
 * Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to Kotlin
 * unpublic external abstract class WindowClient : Client {
 * open val visibilityState: dynamic
 * open var focused: Boolean
 * fun focus(): Promise<WindowClient>
 * fun navigate(url: String): Promise<WindowClient>
 * }
 */

/**
 * Exposes the JavaScript [Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin
 * unpublic external abstract class Clients {
 * fun get(id: String): Promise<Any>
 * fun matchAll(options: ClientQueryOptions = definedExternally):
 * Promise<Array<Client>>
 * fun openWindow(url: String): Promise<WindowClient>
 * fun claim():
 * Promise<Unit>
 */

```kotlin
    o["response"] = response
    o["origin"] = origin
    o["headers"] = headers
    return
}

/**
 * Exposes the JavaScript [ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin
 */
public external open class ExtendableMessageEvent(event: ExtendableMessageEventInit = definedExternally) : ExtendableEvent {
    open val data: Any?
    open val origin: String
    open val lastEventId: String?
    open val source: UnionClientOrMessagePortOrServiceWorker?
    open val ports: Array<MessagePort>?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ExtendableMessageEventInit : ExtendableEventInit {
    var data: Any?
        get() = definedExternally
        set(value) = definedExternally
    var origin: String?
        get() = definedExternally
        set(value) = definedExternally
    var lastEventId: String?
        get() = definedExternally
        set(value) = definedExternally
    var source: UnionClientOrMessagePortOrServiceWorker?
        get() = definedExternally
        set(value) = definedExternally
    var ports: Array<MessagePort>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["data"] = data
    o["origin"] = origin
    o["lastEventId"] = lastEventId
    o["source"] = source
    o["ports"] = ports
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin
 */
public external abstract class Cache {
    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>
    fun matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Response>>
    fun add(request: dynamic): Promise<Unit>
    fun addAll(requests: Array<dynamic>): Promise<Unit>
    fun put(request: dynamic, response: Response): Promise<Unit>
    fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise[Unit]
    fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<String>>
}

public external interface CacheQueryOptions {
    var ignoreSearch: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var ignoreMethod: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var ignoreVary: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var cacheName: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["ignoreSearch"] = ignoreSearch
    o["ignoreMethod"] = ignoreMethod
    o["ignoreVary"] = ignoreVary
    o["cacheName"] = cacheName
    return o
}

public external interface CacheBatchOperation {
    var type: String?
        get() = definedExternally
        set(value) = definedExternally
    var request: Request?
        get() = definedExternally
        set(value) = definedExternally
    var response: Response?
        get() = definedExternally
        set(value) = definedExternally
    var options: CacheQueryOptions?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["type"] = type
    o["request"] = request
    o["response"] = response
    o["options"] = options
    return o
}

/**
 * Exposes the JavaScript [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin
 */
public external abstract class CacheStorage {
    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>
    fun has(cacheName: String): Promise<Boolean>
    fun open(cacheName: String): Promise<Cache>
    fun delete(cacheName: String): Promise<Boolean>
    fun keys(): Promise<Array<String>>
}

public external open class FunctionalEvent : ExtendableEvent {
    companion
```
object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface UnionMessagePortOrServiceWorker

public external interface UnionClientOrMessagePortOrServiceWorker

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ServiceWorkerState {
    companion object
}

public inline val ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() = "installing".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() = "installed".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() = "activating".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() = "activated".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() = "redundant".asDynamic().unsafeCast<ServiceWorkerState>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface FrameType {
    companion object
}

public inline val FrameType.Companion.AUXILIARY: FrameType get() = "auxiliary".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.TOP_LEVEL: FrameType get() = "top-level".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.NESTED: FrameType get() = "nested".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.NONE: FrameType get() = "none".asDynamic().unsafeCast<FrameType>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ClientType {
    companion object
}

public inline val ClientType.Companion.WINDOW: ClientType get() = "window".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.WORKER: ClientType get() = "worker".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.SHAREDWORKER: ClientType get() = "sharedworker".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.ALL: ClientType get() = "all".asDynamic().unsafeCast<ClientType>()

/**
 * Exposes the JavaScript [XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to Kotlin
 */
public external abstract class XMLHttpRequestEventTarget : EventTarget {
    open var onloadstart: ((ProgressEvent) -> dynamic)?
    open var onprogress: ((ProgressEvent) -> dynamic)?
    open var onabort: ((Event) -> dynamic)?
    open var onerror: ((Event) -> dynamic)?
    open var onload: ((Event) -> dynamic)?
    open var ontimeout: ((Event) -> dynamic)?
    open var onloadend: ((Event) -> dynamic)?
    open var onreadystatechange: ((Event) -> dynamic)?
    open val readyState: Short
    open val responseURL: String
    open val status: Short
    open val statusText: String
    open val responseType: XMLHttpRequestResponseType
    open val response: Any?
    open val upload: XMLHttpRequestUpload
    open val responseHeaders: List<String>
    open val withCredentials: Boolean
    open val credentials: Credential?
    open val lastEventId: Int
    open val onreadystatechange: ((Event) -> dynamic)?
    open val onprogress: ((ProgressEvent) -> dynamic)?
    open val onabort: ((Event) -> dynamic)?
    open val onerror: ((Event) -> dynamic)?
    open val onload: ((Event) -> dynamic)?
    open val ontimeout: ((Event) -> dynamic)?
    open val onloadend: ((Event) -> dynamic)?
    open val withCredentials: Boolean
    open val credentials: Credential?
    open val lastEventId: Int
}

public external abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget
propagation of that experimental aspect.

* This class is deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn]

* An @Target(ANNOTATION_CLASS) @ Retention(BINARY) @ SinceKotlin("1.2.1") @ RequiresKotlin("1.2.50 \", versionKind = RequiresKotlinVersionKind.COMPLIER_VERSION) @ Deprecated("Please use RequiresOptIn instead.") @ xp = Experimental(val level: Level = Level.ERROR) { 

* Severity of the diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental aspect

* of that API either by using [UseExperimental] or by being annotated with the corresponding marker annotation.

* public enum class Level {

* Specifies that a warning should be reported on incorrect usages of this experimental API.

* WARNING,

* Specifies that an error should be reported on incorrect usages of this experimental API.

*/

@Target(ANNOTATION_CLASS) @ Retention(BINARY) @ SinceKotlin("1.2.1") @ RequiresKotlin("1.2.50 \", versionKind = RequiresKotlinVersionKind.COMPLIER_VERSION) @ Deprecated("Please use OptIn instead.") @ xp = Experimental(val level: Level = Level.ERROR) { 

* Allows to use experimental API denoted by the given markers in the annotated file, declaration, or expression.

* If a declaration is annotated with [UseExperimental], its usages are not required to opt-in to that experimental API.

* This class is deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].

* An @Target(ANNOTATION_CLASS) @ Retention(SOURCE) @ SinceKotlin("1.2.1") @ RequiresKotlin("1.2.50 \", versionKind = RequiresKotlinVersionKind.COMPLIER_VERSION) @ Deprecated("Please use OptIn instead.") @ ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn") public annotation class UseExperimental(

* vararg val markerClass: KClass<out Annotation>

*/

@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,

PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,

TYPEALIAS) @ Retention(SOURCE) @ SinceKotlin("1.2.1") @ RequiresKotlin("1.2.50 \", versionKind = RequiresKotlinVersionKind.COMPLIER_VERSION) @ Deprecated("Please use OptIn instead.") @ xp = Experimental(val vararg val markerClass: KClass<out Annotation>) @ Retention(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,

TYPEALIAS) @ SinceKotlin("1.2.1") @ RequiresKotlin("1.2.50 \", versionKind = RequiresKotlinVersionKind.COMPLIER_VERSION) @ RequiresKotlin("1.2.50 \", versionKind = RequiresKotlinVersionKind.COMPLIER_VERSION) = ExperimentalStdlibApi {

* this annotation marks the standard library API that is considered experimental and is not subject to the general compatibility guarantees (https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the standard library.

* the behavior of such API may be changed or the API may be removed completely in any further release.

* * Beware using the annotated API especially if you're developing a library, since your library might become binary incompatible with the future versions of the standard library.

* * Any usage of a declaration annotated with `@ExperimentalStdlibApi` must be accepted either by annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)` or by using the compiler argument `-Xopt-in=kotlin.ExperimentalStdlibApi`.

Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.

* An @Target(VALUE_PARAMETER, FUNCTION,
/** Enables overload selection based on the type of the value returned from lambda parameter. * * When two or more function overloads have otherwise the same parameter lists that differ only in the return type of a functional parameter, this annotation enables overload selection by the type of the value returned from the lambda function passed to this functional parameter. * * Example: * ```
```
or '@OptIn(Marker::class)"", where 'Marker' is the opt-in requirement marker.

```kotlin
/**
 * Allows to use the API depicted by the given markers in the annotated file, declaration, or expression.
 * This class requires opt-in itself and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.
 */
@Target(
    CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
    TYPEALIAS)
@Retention(RETENTION_SOURCE)
@SinceKotlin("1.3")
@RequireKotlin("1.3.70", versionKind = RequireKotlinVersionKind.COMpiler_VERSION)
public annotation class RequiresOptIn(
    vararg val markerClass:
```.kClass<out Annotation>
)
```.public enum class Level {
    WARNING,
    ERROR,
}
```./**
 * Returns new array of type `Array<Any?>` with the elements of this collection.
 */
@JsName("toArray")
protected open fun toArray(): Array<Any?> = copyToArrayImpl(this)
```./**
 * Fills the provided `array` or creates new array of the same type
 * and fills it with the elements of this collection.
 */
protected open fun <T> toArray(array: Array<T>): Array<T> = copyToArrayImpl(this, array)
```./*
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 */
package kotlin.collections

import kotlin.js.JsName

/**
 * Provides a skeletal implementation of the read-only `Collection` interface.
 * The collection is covariant in its element type.
 */
@SinceKotlin("1.1")
public abstract class AbstractCollection<out E> protected constructor() : Collection<E> {
    abstract override val size: Int
    abstract override fun iterator(): Iterator<E>

    override fun contains(element: @UnsafeVariance E): Boolean = any { it
```.== element }
```.override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean = elements.all { contains(it) } // use when js will support bound refs: elements.all(this::contains)
```.override fun isEmpty(): Boolean = size == 0
```.override fun toString(): String = joinToString(", ", "[", "]") {
```.if (it
```.=== this) "(this Collection)" else it.toString()
```.}
```./**
 * Computes the next item in the iteration, called from the [computeNext] function.
 */
protected fun setNext(value: T): Unit {
```.setNext(value)
```./**
 * Sets the state to done so that the iteration terminates.
 */
protected fun done(): Unit
```.return return nextValue as T
```./**
 * Computes the next item in the iteration, called from the [computeNext] function.
 */
protected fun computeNext(): Unit
```.return nextValue = value
```.```
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Based on GWT AbstractList

Copyright 2007 Google Inc.

package kotlin.collections

/**
 * Provides a skeletal implementation of the read-only [List] interface.
 * This class is intended to help implementing read-only lists so it doesn't support concurrent modification tracking.
 */

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Based on GWT AbstractMap

Copyright 2007 Google Inc.

package kotlin.collections

/**
 * Provides a skeletal implementation of the read-only [List] interface.
 * This class is intended to help implementing read-only lists so it doesn't support concurrent modification tracking.
 */

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Based on GWT AbstractMap

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a skeletal implementation of the read-only [Map] interface.

*\n* The implementor is required to implement [entries] property, which should return read-only set of map entries.

*\n* @param K the type of map keys. The map is invariant in its key type.

*\n@SinceKotlin("1.1") public abstract class AbstractMap<K, out V> protected constructor(): Map<K, V> {

*\n* override fun containsKey(key: K): Boolean {

*\n* return implFindEntry(key) != null

*\n* override fun containsValue(value: @UnsafeVariance V): Boolean = entries.any { it.value == value }

*\n* internal fun containsEntry(entry: Map.Entry<K, *>): Boolean {

*\n* // since entry comes from @UnsafeVariance parameters it can be virtually anything

*\n* if (entry !! is Map.Entry<K<*, *>>) return false

*\n* val key = entry.key

*\n* val value = entry.value

*\n* val ourValue = get(key)

*\n* if (value != ourValue) {

*\n* return false

*\n* }

*\n* // Perhaps it was null and we don't contain the key?

*\n* if (ourValue == null && !containsKey(key)) {

*\n* return false

*\n* }

*\n* return true

*\n* }

*\n* */

*\n* package kotlin.collections

*\n* /**

*\n* provides a skeletal implementation of the read-only [Set] interface.

*\n* This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.

*\n* @return true, if [other] instance is a [Map] of the same size, all entries of which are contained in the [entries] set of this map.

*\n* */

*\n* override fun override fun equals(other: Any?): Boolean {

*\n* if (other == null) return false

*\n* if (other is Map<*, *>) return other.entries.all { containsEntry(it) }

*\n* if (other.size != size) return false

*\n* return other.entries.all { containsEntry(it) && entryEquals(entry(it), other) }

*\n* return other.entries.all { containsEntry(it) && entryEquals(entry(it), other) }

*\n* return false

*\n* }

*\n* return true

*\n* }

*\n* internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {

*\n* if (other !is Map.Entry<*, *>) return false

*\n* return e.key == other.key && e.value == other.value

*\n* }

*\n* internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }

*\n* internal fun entryToString(e: Map.Entry<*, *>): String = toString(e.key) + "=" + toString(e.value)

*\n* companion object {

*\n* internal fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }

*\n* }

*\n* }

*\n* /*

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*\n* * an package kotlin.collections

*\n* * provides a skeletal implementation of the read-only [set] interface.

*\n* * this class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.

*\n* * @param e the type of elements contained in the set. the set is covariant in its element type.
*\[@SinceKotlin("1.1.4")\]@public abstract class AbstractSet<out E> protected constructor():
AbstractCollection<E>(), Set<E> {\n\n/**\n * Compares this set with other set instance with the unordered structural equality.\n */\n*\n@override fun equals(other: Any?): Boolean {\n    if (other === this) return true\n    if (other !is Set<*>) return false\n    return setEquals(this, other)\n}\n/**\n * Returns the hash code value for this set.\n */\n*\noverride fun hashCode(): Int = unorderedHashCode(c)\n\n}
is empty.

```kotlin
public fun last(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.
")
else internalGet(internalIndex(lastIndex))
```

```kotlin
public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(internalIndex(lastIndex))
```

Prepends the specified [element] to this deque.

```kotlin
public fun addFirst(element: E): E {
ensureCapacity(size + 1)

head = decremented(head)

elementData[head] = element

size += 1
}
```

```kotlin
* Appends the specified [element] to this deque.

public fun addLast(element: E): E {

ensureCapacity(size + 1)

elementData[internalIndex(size)] = element

size -= 1
}
```

Removes the first element from this deque and returns that removed element, or throws [NoSuchElementException] if this deque is empty.

```kotlin
public fun removeFirst(): E {
if (isEmpty()) throw

NoSuchElementException("ArrayDeque is empty.
")

val element = internalGet(head)

elementData[head] = null

head = incremented(head)

size -= 1

return element
}
```

Removes the first element from this deque and returns that removed element, or returns `null` if this deque is empty.

```kotlin
public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()
```

Removes the last element from this deque and returns that removed element, or throws [NoSuchElementException] if this deque is empty.

```kotlin
public fun removeLast(): E {
if (isEmpty()) throw

NoSuchElementException("ArrayDeque is empty.
")

val internalLastIndex = internalIndex(lastIndex)

val element = internalGet(internalLastIndex)

val elementData = internalGet(internalLastIndex)

val elementData = null

size -= 1

return element
}
```

```kotlin
* Removes the last element from this deque and returns that removed element, or returns `null` if this deque is empty.

public fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()
```

Elements in circular array lay in 2 ways:

```kotlin
// 1. `head` is less than `tail`:

[#, #, e1, e2, e3, #]

// 2. `head` is greater than `tail`:

[e3, #, #, #, e1, e2]
```

Where head is the index of the first element in the circular array, and tail is the index following the last element.

```
At this point the insertion index is not equal to head or tail.
```

// Also the circular array can store at least one more element.

```
// Depending on where the given element must be inserted the preceding or the succeeding
```

Elements will be shifted to make room for the element to be inserted.

```kotlin
// In case the preceding elements are shifted
```

```kotlin
// * if the insertion index is greater than the head (regardless of circular array form)
```

```kotlin
// -> shift the preceding elements
```

```kotlin
// * otherwise, the circular array has (2) form and the insertion index is less than tail
```

```kotlin
// -> shift all elements in the back of the array
```

```kotlin
// -> shift preceding elements in the front of the array
```

```kotlin
// In case the succeeding elements are shifted
```

```kotlin
// * if the insertion index is less than the tail (regardless of circular array form)
```

```kotlin
// -> shift the succeeding elements
```

```kotlin
// * otherwise, the circular array has (2) form and the insertion index is greater than head
```

```kotlin
// -> shift all elements in the front of the array
```

```kotlin
// -> shift succeeding elements in the back of the array
```

```kotlin
val internalIndex = internalIndex(index)

if (index == size)
```

```kotlin
return false
```

```kotlin
else if (index == 0)
```

```kotlin
return true
```

```kotlin
addFirst(element)
```

```kotlin
return
```

```
addLast(element)
```

```kotlin
addLast(element)
return true
```

```kotlin
AbstractList.checkPositionIndex(index, size) in if (index == size)
```

```kotlin
then addLast(element)
```

```kotlin
else addFirst(element)
```

```kotlin
return
```

```kotlin
ensureCapacity(size + 1)
```

```kotlin
head = decremented(head)
```

```kotlin
elementData[head] = element
```

```kotlin
size += 1
```

```kotlin
Prepends the specified [element] to this deque.
```

```kotlin
Val elementData = head
```

```kotlin
elementData[head] = element
```

```kotlin
head = incremented(head)
```

```kotlin
size -= 1
```

```kotlin
return element
```

```kotlin
elementData = head
```

```kotlin
elementData[head] = element
```

```kotlin
head = decremented(head)
```

```kotlin
elementData[head] = element
```

```kotlin
head = incremented(head)
```

```kotlin
size -= 1
```

```kotlin
return element
```

```kotlin
elementData = head
```

```kotlin
elementData[head] = element
```

```kotlin
head = decremented(head)
```

```kotlin
elementData[head] = element
```

```kotlin
head = incremented(head)
```

```kotlin
size -= 1
```

```kotlin
return element
```

```kotlin
elementData = head
```

```kotlin
elementData[head] = element
```

```kotlin
head = decremented(head)
```

```kotlin
elementData[head] = element
```

```kotlin
head = incremented(head)
```

```kotlin
size -= 1
```

```kotlin
return element
```

```kotlin
elementData = head
```

```kotlin
elementData[head] = element
```

```kotlin
head = decremented(head)
```

```kotlin
elementData[head] = element
```

```kotlin
head = incremented(head)
```

```kotlin
size -= 1
```

```kotlin
return element
```

```kotlin
elementData = head
```

```kotlin
elementData[head] = element
```

```kotlin
head = decremented(head)
```

```kotlin
elementData[head] = element
```

```kotlin
head = incremented(head)
```

```kotlin
size -= 1
```

```kotlin
return element
```

```kotlin
elementData = head
```

```kotlin
elementData[head] = element
```

```kotlin
head = decremented(head)
```

```kotlin
elementData[head] = element
```

```kotlin
head = incremented(head)
```

```kotlin
size -= 1
```

```kotlin
return element
```

```kotlin
elementData = head
```

```kotlin
elementData[head] = element
```

```kotlin
head = decremented(head)
```

```kotlin
elementData[head] = element
```

```kotlin
head = incremented(head)
```

```kotlin
size -= 1
```

```kotlin
return element
```

```kotlin
elementData = head
```

```kotlin
elementData[head] = element
```

```kotlin
head = decremented(head)
```

```kotlin
elementData[head] = element
```

```kotlin
head = incremented(head)
```

```kotlin
size -= 1
```

```kotlin
return element
```

```kotlin
elementData = head
```

```kotlin
elementData[head] = element
```

```kotlin
head = decremented(head)
```

```kotlin
elementData[head] = element
```

```kotlin
head = incremented(head)
```

```kotlin
size -= 1
```

```kotlin
return element
```

```kotlin
elementData = head
```

```kotlin
elementData[head] = element
```

```kotlin
head = decremented(head)
```

```kotlin
elementData[head] = element
```

```kotlin
head = incremented(head)
```

```kotlin
size -= 1
```
index + elementData.size - head

lastIndexOf(element: E): Int { if (element == elementData[internalIndex(size)]) return index - head else if (index == lastIndex) return elementData.size - head

override fun remove(element: E): Boolean { if (element == elementData[internalIndex(size)]) return index - head else if (index == lastIndex) return elementData.size - head

public override fun removeAt(index: Int): E { if (index >= head) { else if (predicate(element as E)) { return removeAt(index)
        return false
    }

    if (element == elementData[internalIndex(size)]) return index - head else if (index == lastIndex) return removeAt(index)

    return false
}

removeAll(elements: Collection<E>): Boolean = filterInPlace { !elements.contains(it) }

retainAll(elements: Collection<E>): Boolean = filterInPlace { elementData.contains(it) }

retainAll(elements: Collection<E>): Boolean = filterInPlace {!

removeAll(elements: Collection<E>): Boolean = filterInPlace { if (elements.contains(it)) return false

    if (element == elementData[internalIndex(size)]) return index - head else if (index == lastIndex) return removeAt(index)

    return false
}

removeAll(elements: Collection<E>): Boolean = filterInPlace { if (elements.contains(it)) return false

    if (element == elementData[internalIndex(size)]) return index - head else if (index == lastIndex) return removeAt(index)

    return false
}

removeAll(elements: Collection<E>): Boolean = filterInPlace { if (elements.contains(it)) return false

    if (element == elementData[internalIndex(size)]) return index - head else if (index == lastIndex) return removeAt(index)

    return false
}

removeAll(elements: Collection<E>): Boolean = filterInPlace { if (elements.contains(it)) return false

    if (element == elementData[internalIndex(size)]) return index - head else if (index == lastIndex) return removeAt(index)

    return false
}
emptyArray())
val elements = arrayOfNulls<Any?>(size)
if (head < tail) {
    val headData = copyInto(elements, startHead = head)
    val tailData = copyInto(elements, startTail = tail)
    return
}

val elements = arrayOfNulls<Any?>(size)
if (head < tail) {
    elementData.copyInto(elements, head, tail)
    structure(head, elements)
} else {
    elementData.copyInto(elements, startHead = head)
    val headData = copyInto(elements, startTail = tail)
    elementData.size - head
    structure(head, tail)
}
}
in indices) {
    for (i = 0; i < indices.length; i++) {
        result.append(value, i);  // Append the value for the current index
    }
}

// Example usage
val indices = intArrayOf(1, 2, 3)
val result = StringBuilder()  // Initialize an empty result string builder
indices.forEachIndexed { index, value ->  // Loop through the indices
    result.append(value, index)  // Append the value at the current index
}

// Output: "1, 2, 3"

result.toString()  // Convert the StringBuilder to a String
"1, 2, 3"

// Check function
fun checkResult(indices: IntArray, expected: String) {
    val result = StringBuilder()  // Initialize an empty result string builder
    indices.forEachIndexed { index, value ->  // Loop through the indices
        result.append(value, index)  // Append the value at the current index
    }
    println("_result: ", result.toString())  // Print the result
    println("expected: ", expected)  // Print the expected value
    if (result.toString() == expected) {
        println("Test passed!")  // Test passed if the result matches the expected value
    } else {
        println("Test failed!")  // Test failed if the result does not match the expected value
    }
}

// Test the function
checkResult(intArrayOf(1, 2, 3), "1, 2, 3")  // Should print "Test passed!"
checkResult(intArrayOf(4, 5), "4")  // Should print "Test failed!"
checkResult(intArrayOf(6, 7, 8, 9), "6, 7, 8, 9")  // Should print "Test passed!"
V>.getOrImplicitDefault(key: K): V {
    if (this is MapWithDefault)
        return this.getOrImplicitDefault(key)
    return getOrElseNullable(key, { throw NoSuchElementException("Key $key
    is missing in the map.") })
}

/**
 * Returns a wrapper of this read-only map, having the implicit default value provided with the specified function
 * [defaultValue].
 *
 * This implicit default value is used when the original map doesn't contain a value for the key specified
 * and a value is obtained with [Map.getOrElse] function, for example when properties are delegated to the map.
 * When this map already has an implicit default value provided with a former call to [withDefault], it is
 * being replaced by this call.
 */
public fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =
    when (this) {
        is MapWithDefault ->
            this.map.withDefault(defaultValue)
        else -> MapWithDefaultImpl(this, defaultValue)
    }

/**
 * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function
 * [defaultValue].
 */
@kotlin.jvm.JvmName("withDefaultMutable")
public fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =
    when (this) {
        isMutableMapWithDefault ->
            this.map.withDefault(defaultValue)
        else -> MutableMapWithDefaultImpl(this, defaultValue)
    }

private interface MapWithDefault<K, out V> : Map<K, V> {
    public val map: Map<K, V>
    public fun getOrImplicitDefault(key: K): V
}

private interface MutableMapWithDefault<K, V> : MutableMap<K, V>, MapWithDefault<K, V> {
    public override val map: Map<K, V>
}

private class MapWithDefaultImpl<K, V>(public override val map: Map<K, V>, private val default: (key: K) -> V) :
    MapWithDefault<K, V> {
    override fun equals(other: Any?): Boolean = map.equals(other)
    override fun hashCode(): Int = map.hashCode()
    override fun toString(): String = map.toString()
    override val size: Int get() = map.size
    override fun isEmpty(): Boolean = map.isEmpty()
    override fun containsKey(key: K): Boolean = map.containsKey(key)
    override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)
    override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, {
        default(key)
    })
}

private class MutableMapWithDefaultImpl<K, V>(public override val map: Map<K, V>, private val default: (key: K) -> V) :
    MutableMapWithDefault<K, V> {
    override fun equals(other: Any?): Boolean = map.equals(other)
    override fun hashCode(): Int = map.hashCode()
    override fun toString(): String = map.toString()
    override val size: Int get() = map.size
    override fun isEmpty(): Boolean = map.isEmpty()
    override fun containsKey(key: K): Boolean = map.containsKey(key)
    override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)
    override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, {
        default(key)
    })
}

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

package kotlin.collections

import kotlin.random.Random

/**
 * Removes a single instance of the specified element
 * from this collection, if it is present.
 * @return `true` if the element has been successfully removed; `false` if it was
 * not present in the collection.
 */
@Suppress("UNCHECKED_CAST")
private fun <T> removeOrImplicitDefault(collection: Collection<T>, element: T): Boolean {
    return collection.remove(element) ||
        collection.removeOrImplicitDefault(element)
}

// A special version of the above for collections of any type.

// This helper function is used to remove all of the specified elements,
// regardless of whether they are in the collection.

// Remove all of the specified elements.
to pass a collection of type `Collection<E>`.

```kotlin
@Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).removeAll(elements)
```

Removes all elements contained in the given [elements] collection from this mutable collection.

```kotlin
removeAll(elements: Collection<T>): Boolean
```

Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.

```kotlin
removeAll(elements: Array<T>): Boolean
```

Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.

```kotlin
removeAll(elements: Sequence<T>): Boolean
```

Removes all elements from this [MutableCollection] that are also contained in the given [elements] array.

```kotlin
removeAll(elements: Sequence<T>): Boolean
```

Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.

```kotlin
removeAll(elements: Array<T>): Boolean
```

Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.

```kotlin
removeAll(elements: Sequence<T>): Boolean
```

Removes all elements from this [MutableCollection] that are also contained in the given [elements] array.

```kotlin
removeAll(elements: Array<T>): Boolean
```

Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.

```kotlin
removeAll(elements: Sequence<T>): Boolean
```

Removes all elements from this [MutableCollection] that are also contained in the given [elements] array.
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

```kotlin
package kotlin.collections

private open class ReversedListReadOnly<out T>(private val delegate: List<T>) : AbstractList<T>() {
    override val size: Int get() = delegate.size
    override fun get(index: Int): T = delegate[reverseElementIndex(index)]
}

private class ReversedList<T>(private val delegate: MutableList<T>) : AbstractMutableList<T>() {
    override val size: Int get() = delegate.size
    override fun get(index: Int): T = delegate[reverseElementIndex(index)]
    override fun clear() = delegate.clear()
    override fun removeAt(index: Int): T = delegate.removeAt(reverseElementIndex(index))
    override fun set(index: Int, element: T): T = delegate.set(reverseElementIndex(index), element)
}

private fun List<*>.reverseElementIndex(index: Int) =
    if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException("Element index $index must be in range [${0..lastIndex}].")

private fun List<*>.reversePositionIndex(index: Int) =
    if (index in 0..size) size - index else throw IndexOutOfBoundsException("Position index $index must be in range [${0..size}].")

/**
 * Returns a reversed read-only view of the original List.
 * All changes made in the original list will be reflected in the reversed list.
 * @sample samples.collections.ReversedViews.asReversedList
 */
public fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)

/**
 * Returns a reversed mutable view of the original mutable List.
 * All changes made in the original list will be reflected in the reversed list and vice versa.
 * @sample samples.collections.ReversedViews.asReversedMutableList
 */
@kotlin.jvm.JvmName("asReversedMutable")
public fun <T> MutableList<T>.asReversed(): MutableList<T> = ReversedList(this)

```
samples.collections.Sequences.Building.buildFibonacciSequence

public abstract suspend fun yieldAll(Iterator<T>): Unit

/**
   * Yields values from the `iterator` being built and suspends until all these values
   * are iterated and the next one is requested.
   * @sample samples.collections.Sequences.Building.buildFibonacciSequence
   */
    public abstract suspend fun yieldAll(sequences: Sequence<T>)

    /**
     * Yields potentially infinite sequence of values to the [Iterator] being built
     * and suspends until all these values are iterated and the next one is requested.
     * The sequence can be potentially infinite.
     */
    public abstract suspend fun yieldAll(sequences: SequenceScope<T>)

    // Completion continuation implementation
    internal override suspend fun yieldAll(sequences: SequenceScope<T>): Unit
        // just rethrow exception if there's value
        @Suppress("UNCHECKED_CAST")
        val result = yieldAll(sequences.windowedSequence(windowSize, step, partialWindows, reuseBuffer))
        when (result)
        {
            is Nothing -> throw NoSuchElementException()
            is Exception -> throw result
            else -> throw IllegalStateException("Unexpected state of the iterator: size $size, step $step")
        }

@Deprecated("Use SequenceScope class instead.",
ReplaceWith("SequenceScope<T>"), level = DeprecationLevel.ERROR)
public typealias SequenceBuilder<T> = SequenceScope<T>

private typealias State = Int

private const val State_NotReady: State = 0
private const val State_ManyNotReady: State = 1
private const val State_ManyReady: State = 2
private const val State_Ready: State = 3
private const val State_Done: State = 4
private const val State_Failed: State = 5

private class SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {
    private var state = State_NotReady
    private var nextValue: T? = null
    private var nextIterator: Iterator<T>? = null
    private var nextStep: Continuation<Unit>? = null

    override fun hasNext(): Boolean {
        while (true) {
            when (state) {
                State_NotReady ->
                State_ManyNotReady ->
                    if (nextIterator!!.hasNext()) {
                        nextStep = nextIterator!!
                        state = State_ManyReady
                        return true
                    } else {
                        nextIterator = null
                        state = State_Done
                        return false
                    }
                State_Ready ->
                State_ManyReady ->
                    else -> throw ExceptionalStateException()
                State_Done -> return false
                State_ManyNotReady ->
                    return true
                else -> throw ExceptionalStateException()
            }

            state = State_Failed
            val step = nextStep!!
            nextStep = null
            step.resume(Unit)
        }
    }

    override fun next(): T {
        when (state) {
            State_NotReady, State_ManyNotReady -> return nextNotReady()
            State_ManyReady -> {
                state = State_ManyNotReady
                return nextIterator!!.next()
            }
            State_Ready -> {
                state = State_ManyReady
                return true
            }
            else -> throw ExceptionalStateException()
        }
    }

    private fun nextNotReady(): T {
        if (!hasNext()) throw NoSuchElementException() else return next()
    }

    private fun exceptionalState(): Throwable = when (state) {
        State_Done -> NoSuchElementException()
        State_Failed -> IllegalStateException("Iterator has failed.")
        else -> IllegalArgumentException("Unexpected state of the iterator: size $size, step $step")
    }

    override suspend fun yield(value: T) {
        nextValue = value
        state = State_Ready
        return suspendCoroutineUninterceptedOrReturn { c ->
            c.invoke(Unit)
        }
    }

    override suspend fun yieldAll(iterator: Iterator<T>) {
        if (!iterator.hasNext()) return
        nextIterator = iterator
        state = State_ManyReady
        return suspendCoroutineUninterceptedOrReturn { c ->
            c.invoke(Unit)
        }
    }

    // Completion continuation implementation
    internal override suspend fun yieldAll(sequences: Sequence<T>): Unit
        // just rethrow exception if there's value
        @Suppress("UNCHECKED_CAST")
        val result = yieldAll(sequences.windowedSequence(windowSize, step, partialWindows, reuseBuffer))
        when (result)
        {
            is Nothing -> throw NoSuchElementException()
            is Exception -> throw result
            else -> throw IllegalStateException("Unexpected state of the iterator: size $size, step $step")
        }

    override val context: CoroutineContext
        get() = EmptyCoroutineContext
}

private class SequenceBuilder<caret>: SequenceBuilder<caret> {
    private var state = State_NotReady
    private var nextValue: T? = null
    private var nextIterator: Iterator<T>? = null
    private var nextStep: Continuation<Unit>? = null

    override fun hasNext(): Boolean {
        while (true) {
            when (state) {
                State_NotReady ->
                State_ManyNotReady ->
                    if (nextIterator!!.hasNext()) {
                        nextStep = nextIterator!!
                        state = State_ManyReady
                        return true
                    } else {
                        nextIterator = null
                        state = State_Done
                        return false
                    }
                State_Ready ->
                State_ManyReady ->
                    else -> throw ExceptionalStateException()
                State_Done -> return false
                State_ManyNotReady ->
                    return true
                else -> throw ExceptionalStateException()
            }

            state = State_Failed
            val step = nextStep!!
            nextStep = null
            step.resume(Unit)
        }
    }

    override fun next(): T {
        when (state) {
            State_NotReady, State_ManyNotReady -> return nextNotReady()
            State_ManyReady -> {
                state = State_ManyNotReady
                return nextIterator!!.next()
            }
            State_Ready -> {
                state = State_ManyReady
                return true
            }
            else -> throw ExceptionalStateException()
        }
    }

    private fun nextNotReady(): T {
        if (!hasNext()) throw NoSuchElementException() else return next()
    }

    private fun exceptionalState(): Throwable = when (state) {
        State_Done -> NoSuchElementException()
        State_Failed -> IllegalStateException("Iterator has failed.")
        else -> IllegalArgumentException("Unexpected state of the iterator: size $size, step $step")
    }

    override suspend fun yield(value: T) {
        nextValue = value
        state = State_Ready
        return suspendCoroutineUninterceptedOrReturn { c ->
            c.invoke(Unit)
        }
    }

    override suspend fun yieldAll(iterator: Iterator<T>) {
        if (!iterator.hasNext()) return
        nextIterator = iterator
        state = State_ManyReady
        return suspendCoroutineUninterceptedOrReturn { c ->
            c.invoke(Unit)
        }
    }

    // Completion continuation implementation
    internal override suspend fun yieldAll(sequences: Sequence<T>): Unit
        // just rethrow exception if there's value
        @Suppress("UNCHECKED_CAST")
        val result = yieldAll(sequences.windowedSequence(windowSize, step, partialWindows, reuseBuffer))
        when (result)
        {
            is Nothing -> throw NoSuchElementException()
            is Exception -> throw result
            else -> throw IllegalStateException("Unexpected state of the iterator: size $size, step $step")
        }

    override val context: CoroutineContext
        get() = EmptyCoroutineContext
}
capacity) \n buffer.fill(null, 0, end) \n } else { \n buffer.fill(null, start, end) \n } \n start = end \n size = -1 \n } \n \n @Suppress("NOTHING_TO_INLINE") \n private inline fun Int.forward(n: Int): Int = (this + n) % capacity \n
    buffer.fill(null, 0, end)
} else {
    buffer.fill(null, start, end)
}

startIndex = end
size -= n
}

@Suppress("NOTHING_TO_INLINE")
private inline fun Int.forward(n: Int): Int = (this + n) % capacity
}

private fun partition(
    array: UByteArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

private fun quickSort(
    array: UByteArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

private fun partition(
    array: UShortArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

private fun quickSort(
    array: UShortArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

private fun partition(
    array: UIntArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

private fun quickSort(
    array: UIntArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

private fun partition(
    array: ULongArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

private fun quickSort(
    array: ULongArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

/**
 * Sorts the given array using qsort algorithm.
 */
@ExperimentalUnsignedTypes
internal fun sortArray(array: UByteArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: UShortArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: UIntArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: ULongArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)

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*使用此源代码需遵循Apache 2.0许可证，可在license/LICENSE.txt文件中找到。
* This marker distinguishes the experimental contract declaration API and is
used to opt-in for that feature when declaring contracts of user functions. Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either by annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalContracts::class)`, or by using the compiler argument `-Xopt-in=kotlin.contracts.ExperimentalContracts`.

Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc., can be used to describe the contract of a function. This type is used as a receiver type of the lambda function passed to the [contract] function.

```kotlin
@Suppress("DEPRECATION")
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.3")
@Experimental
@RequiresOptIn
@MustBeDocumented
public annotation class ExperimentalContracts

/**
 * Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc., can be used to describe the contract of a function. This type is used as a receiver type of the lambda function passed to the [contract] function.
 */
@ContractsDsl
@ExperimentalContracts
@SinceKotlin("1.3")
public interface ContractBuilder {
    /**
     * Describes a situation when a function returns normally, without any exceptions thrown.
     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
     */
    @sample samples.contracts.returnsContract
    @ContractsDsl public fun returns(): Returns

    /**
     * Describes a situation when a function returns normally with the specified return value.
     * The possible values of [value] are limited to `true`, `false` or `null`.
     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
     */
    @sample samples.contracts.returnsTrueContract
    @sample samples.contracts.returnsFalseContract
    // @sample samples.contracts.returnsNullContract
    @ContractsDsl public fun returns(value: Any?): Returns

    /**
     * Describes a situation when a function returns normally with any value that is not `null`.
     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
     */
    // @sample samples.contracts.returnsNotNullContract
    @ContractsDsl public fun returnsNotNull(): ReturnsNotNull

    /**
     * Specifies how many times a function invokes its function parameter in place.
     * See [ContractBuilder.callsInPlace] for the details of the call-in-place function.
     */
    @ContractsDsl
    @ExperimentalContracts
    @SinceKotlin("1.3")
    public enum class InvocationKind {
        /**
         * A function parameter will be invoked one time or not invoked at all.
         */
        // @sample samples.contracts.callsInPlaceAtMostOnceContract
        @ContractsDsl AT_MOST_ONCE,

        /**
         * A function parameter will be invoked exactly one time.
         */
        // @sample samples.contracts.callsInPlaceExactlyOnceContract
        @ContractsDsl EXACTLY_ONCE,

        /**
         * A function parameter is called in place, but it's unknown how many times it can be called.
         */
        // @sample samples.contracts.callsInPlaceUnknownContract
        @ContractsDsl UNKNOWN
    }

    /**
     * Specifies the function parameter [lambda] is invoked in place.
     * This contract specifies that:
     * 1. the function [lambda] can only be invoked during the call of the owner function, and it won't be invoked after that owner function call is completed;
     * 2. (optionally) the function [lambda] is invoked the amount of times specified by the [kind] parameter.
     * see the [InvocationKind] enum for possible values.
     */
    @sample samples.contracts.callsInPlaceAtMostOnceContract
    @sample samples.contracts.callsInPlaceAtLeastOnceContract
    @sample samples.contracts.callsInPlaceExactlyOnceContract
    @sample samples.contracts.callsInPlaceUnknownContract
    // @ContractsDsl public fun <R> callsInPlace(lambda: Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace
    @ContractsDsl public fun callsInPlace(lambda: Function<Nothing>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace

    /**
     * The contract description must be at the beginning of a function and have at least one effect.
     * Only the top-level functions can have a contract for now.
     */
    @sample samples.contracts.callsInPlaceAtMostOnceContract
    @sample samples.contracts.callsInPlaceAtLeastOnceContract
    @sample samples.contracts.callsInPlaceExactlyOnceContract
    @sample samples.contracts.callsInPlaceUnknownContract
    @ContractsDsl UNKNOWN
}
```

```kotlin
/**
 * Specifies how many times a function invokes its function parameter in place.
 * See [ContractBuilder.callsInPlace] for the details of the call-in-place function.
 */
@ContractsDsl
@ExperimentalContracts
@SinceKotlin("1.3")
public enum class InvocationKind {
    /**
     * A function parameter will be invoked one or more times.
     */
    @ContractsDsl AT_LEAST_ONCE,

    /**
     * A function parameter will be invoked exactly one time.
     */
    @ContractsDsl EXACTLY_ONCE,

    /**
     * A function parameter is called in place, but it's unknown how many times it can be called.
     */
    @ContractsDsl UNKNOWN
}
```

```kotlin
/**
 * Specifies the function parameter [lambda] is invoked in place.
 * This contract specifies that:
 * 1. the function [lambda] can only be invoked during the call of the owner function, and it won't be invoked after that owner function call is completed;
 * 2. (optionally) the function [lambda] is invoked the amount of times specified by the [kind] parameter.
 * see the [InvocationKind] enum for possible values.
 */
@ContractsDsl
@ExperimentalContracts
@SinceKotlin("1.3")
public interface ContractBuilder {
    /**
     * Specifies how many times a function invokes its function parameter in place.
     * See [ContractBuilder.callsInPlace] for the details of the call-in-place function.
     */
    @ContractsDsl
    @ExperimentalContracts
    @SinceKotlin("1.3")
    public enum class InvocationKind {
        /**
         * A function parameter will be invoked one time or not invoked at all.
         */
        @ContractsDsl AT_MOST_ONCE,

        /**
         * A function parameter will be invoked exactly one time.
         */
        @ContractsDsl EXACTLY_ONCE,

        /**
         * A function parameter is called in place, but it's unknown how many times it can be called.
         */
        @ContractsDsl UNKNOWN
    }

    /**
     * Specifies the function parameter [lambda] is invoked in place.
     * This contract specifies that:
     * 1. the function [lambda] can only be invoked during the call of the owner function, and it won't be invoked after that owner function call is completed;
     * 2. (optionally) the function [lambda] is invoked the amount of times specified by the [kind] parameter.
     * see the [InvocationKind] enum for possible values.
     */
    @ContractsDsl
    @ExperimentalContracts
    @SinceKotlin("1.3")
    public enum class InvocationKind {
        /**
         * A function parameter will be invoked one or more times.
         */
        @ContractsDsl AT_LEAST_ONCE,

        /**
         * A function parameter will be invoked exactly one time.
         */
        @ContractsDsl EXACTLY_ONCE,

        /**
         * A function parameter is called in place, but it's unknown how many times it can be called.
         */
        @ContractsDsl UNKNOWN
    }

    /**
     * The contract description must be at the beginning of a function and have at least one effect.
     * Only the top-level functions can have a contract for now.
     */
    @ContractsDsl
    @ExperimentalContracts
    @SinceKotlin("1.3")
    public enum class InvocationKind {
        /**
         * A function parameter will be invoked one time or not invoked at all.
         */
        @ContractsDsl AT_MOST_ONCE,

        /**
         * A function parameter will be invoked exactly one time.
         */
        @ContractsDsl EXACTLY_ONCE,

        /**
         * A function parameter is called in place, but it's unknown how many times it can be called.
         */
        @ContractsDsl UNKNOWN
    }
```
@sample samples.contracts.callsInPlaceAtLeastOnceContract
* @sample samples.contracts.callsInPlaceExactlyOnceContract
* @sample samples.contracts.callsInPlaceUnknownContract
*/
@ContractsDsl
@ExperimentalContracts
@InlineOnly
@
SinceKotlin("1.3")
@Suppress("UNUSED_PARAMETER")
public inline fun contract(builder: ContractBuilder.() -> Unit) { }

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 */

package kotlin.coroutines

/**
 * Marks coroutine context element that intercepts coroutine continuations.
 * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and
 * intercepts all coroutine continuations with [interceptContinuation] invocations.
 */
@SinceKotlin("1.3")
public interface ContinuationInterceptor : CoroutineContext.Element {
    /**
     * The key that defines *the* context interceptor.
     */
    companion object Key : CoroutineContext.Key<ContinuationInterceptor>

    /**
     * Returns continuation that wraps the original continuation, thus intercepting all resumptions.
     * This function is invoked by coroutines framework when needed and the resulting continuations are cached internally per each instance of the original continuation.
     * This function may simply return original continuation if it does not want to intercept this particular continuation.
     * When the original continuation completes, coroutine framework invokes [releaseInterceptedContinuation] with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously returned a different continuation instance.
     * public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>
     * `interceptContinuation` returns null if the original continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation] had returned a different continuation instance from the one it was invoked with.
     * Default implementation does nothing.
     * `interceptContinuation` returns null if the original continuation completes and the resulting continuations are cached internally per each instance of the original continuation.
     */
    public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>

    /**
     * Invoked for the continuation instance returned by [interceptContinuation] when the original continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation] had returned a different continuation instance from the one it was invoked with.
     * Default implementation does nothing.
     * `interceptContinuation` returns null if the original continuation completes and the resulting continuations are cached internally per each instance of the original continuation.
     */
    public fun releaseInterceptedContinuation(continuation: Continuation<*>) {
        /* do nothing by default */
    }

        if (key is AbstractCoroutineContextKey<*, *>) {
            return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null
        }
        return if (ContinuationInterceptor === key) this as E else null
    }

    public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext
        if (ContinuationInterceptor === key) EmptyCoroutineContext else this
    }
}

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 */

package kotlin.coroutines

/**
 * Persistent context for the coroutine. It is an indexed set of Element instances.
 * An indexed set is a mix between a set and a map.
 * Every element in this set has a unique [Key].
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 */

interface ContinuationContext : CoroutineContext {
    /**
     * Returns the element with the given [key] from this context or null.
     */
    public fun <E : Element> get(key: CoroutineContext.Key<E>): E?

    /**
     * Accumulates entries of this context starting with [initial] value and applying [operation] from left to right to current accumulator value and each element of this context.
     */
    public fun <R> fold(initial: R, operation: (R, Element) -> R): R

    /**
     * Returns a context containing elements from this context and elements from other context.
     */
    public fun <E : Element> get(key: CoroutineContext.Key<E>): E?

    /**
     * Returns a context containing elements from this context and elements from other context.
     */
    public fun <E : Element> get(key: CoroutineContext.Key<E>): E?
from this context with the same key as in the other one are dropped.

  */
    public operator fun plus(context:
        CoroutineContext) =
        context.fold(this) {
            acc, element ->
            val removed =
                acc.minusKey(element.key)/*  * Returns a context containing elements from this context, but without an element with
    * the specified [key].

    */
    public fun minusKey(key: Key<*>): CoroutineContext

    /**
     * Key for the elements of
     */
    public interface Key<E : Element>

    /**
     * An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.

    */
    public interface Element : CoroutineContext {
        /**
         * A key of this coroutine context element.
         */
        public val key: Key<*>

        public override operator fun <E : Element> get(key: Key<E>): E? =
            if (this.key == key) this as E else null

        public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =
            operation(initial, this)

        public override
            fun minusKey(key: Key<*>): CoroutineContext =
            if (this.key == key) EmptyCoroutineContext else this

        @Suppress("UNCHECKED_CAST")
        abstract class AbstractCoroutineContextElement(public override val key:
            Key<*>) : Element

        /**
         * Returns the current element if it is associated with the given [key] in a polymorphic manner or
         * `null` otherwise.
         */
        @param B base class of a polymorphic element
        * @param E element type associated with the current key
        * @param safeCast a function that can safely cast
        * abstract [CoroutineContext.Element] to the concrete [E] type
        * and return the element if it is a subtype of [E] or `null` otherwise.
        */
        @param B base class of a polymorphic element
        * @param baseKey an instance of base key
        * @param E element type associated with the current key
        * @param safeCast a function that can safely cast
        * abstract [CoroutineContext.Element] to the concrete [E] type
        * and return the element if it is a subtype of [E] or `null` otherwise.
        */
        fun fold(initial: R, operation: (R, Element) -> R): R =
            operation(initial, this)

        fun minusKey(key: Key<*>): CoroutineContext =
            if (this.key == key) EmptyCoroutineContext else this

        @Suppress("UNCHECKED_CAST")
        abstract class AbstractCoroutineContextKey<B : Element, E : B>(
            baseKey: Key<B>,
            private val safeCast: (element:
                Element) -> E?
        ) : Key<E> {
            private val topmostKey: Key<*> = if (baseKey is
 executive
    

    * A key of this coroutine context element.

    */
    public val key: Key<*>

    public override operator fun <E : Element> get(key: Key<E>): E? =
        if (this.key == key) this as E else null

    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =
        operation(initial, this)

    public override
        fun minusKey(key: Key<*>):CoroutineContext =
        if (this.key == key) EmptyCoroutineContext else this

    @Suppress("UNCHECKED_CAST")
    abstract class AbstractCoroutineContextElement(public override val key:
        Key<*>) : Element

    /**
     * Returns the current element if it is associated with the given [key] in a polymorphic manner or
     * `null` otherwise.
     */
    @param B base class of a polymorphic element
    * @param baseKey an instance of base key
    * @param E element type associated with the current key
    * @param safeCast a function that can safely cast
    * abstract [CoroutineContext.Element] to the concrete [E] type
    * and return the element if it is a subtype of [E] or `null` otherwise.
    */
    @param B base class of a polymorphic element
    * @param baseKey an instance of base key
    * @param E element type associated with the current key
    * @param safeCast a function that can safely cast
    * abstract [CoroutineContext.Element] to the concrete [E] type
    * and return the element if it is a subtype of [E] or `null` otherwise.
    */
    fun fold(initial: R, operation: (R, Element) -> R): R =
        operation(initial, this)

    fun minusKey(key: Key<*>): CoroutineContext =
        if (this.key == key) EmptyCoroutineContext else this

    @Suppress("UNCHECKED_CAST")
    abstract class AbstractCoroutineContextKey<B : Element, E : B>(
        baseKey: Key<B>,
        private val safeCast: (element:
            Element) -> E?
    ) : Key<E> {
        private val topmostKey: Key<*> = if (baseKey is

[AbstractCoroutineContextKey] for the example of usage.

```kotlin
@Suppress("UNCHECKED_CAST")
@ExperimentalStdlibApi
public fun <E : Element>
Element.getPolymorphicElement(key: Key<E>): E? {
    if (key is AbstractCoroutineContextKey<*<*>) {
        return if (key.isSubKey(this.key) &&
        key.tryCast(this) != null) EmptyCoroutineContext else this
    }
    return if (this.key === key) this as E else null
}

/**
 * Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner * or
 * `null` otherwise.
 * This method returns empty context if either [Element.key] is equal to the given [key] or if the [key] is associated
 * with [Element.key] via [AbstractCoroutineContextKey].
 * See [AbstractCoroutineContextKey] for the example of usage.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun Element.minusPolymorphicKey(key: Key<*>):
CoroutineContext {
    if (key is AbstractCoroutineContextKey<*<*>) {
        return if (key.isSubKey(this.key) &&
        key.tryCast(this) != null) EmptyCoroutineContext else this
    }
    return if (this.key === key) EmptyCoroutineContext else this
}

/**
 * An empty coroutine context.
 */
@SinceKotlin("1.3")
public
object EmptyCoroutineContext : CoroutineContext, Serializable {
    private const val serialVersionUID: Long = 0
    private fun readResolve(): Any = EmptyCoroutineContext

    public override fun <E : Element> get(key:
Key<E>): E? {
        var cur = this
        while (true) {
            cur.element?[key]?.let { return it }
            val next = cur.left
            if (next is CombinedContext) {
                cur = next
            } else {
                return next[key]?
            }
        }
    }

    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =
    operation(left.fold(initial, operation), element)

    public override fun minusKey(key: Key<*>):
CoroutineContext {
        element[key]?.let { return left }
        val newLeft = left.minusKey(key)
        return
when {
            newLeft === left -> this
            newLeft === EmptyCoroutineContext -> element
            else ->
CombinedContext(newLeft, element)
        }
    }

    public override fun override fun equals(other: Any?): Boolean =
    this === other || other is CombinedContext && other.size() == size() &&
other.containsAll(this)

    public override fun hashCode(): Int = left.hashCode() + element.hashCode()

    public override fun toString(): String =
    "[" + fold("") { acc, element ->
        if (acc.isEmpty()) element.toString() else
        "$acc, $element"
    } + "]"

    private fun writeReplace(): Any {
        val n = size()
        val elements =
arrayOfNulls<CoroutineContext>(n)
        var index = 0
        fold(Unit) { _, element -> elements[index++] = element }
        check(index == n)
        @Suppress("UNCHECKED_CAST")
        return Serialized(elements
as Array<CoroutineContext>)
    }

    private class Serialized(val elements: Array<CoroutineContext>) :
Serializable {
        companion object {
            private const val serialVersionUID: Long = 0L
        }

        private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)
    }
}
```

---

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* Obtains the current continuation instance inside suspend functions and either
suspends
* currently running coroutine or returns result immediately without suspension.

* If the [block] returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution and will
* not return any result immediately. In this case, the [Continuation] provided to the [block] shall be
* resumed by invoking [Continuation.resumeWith] at some moment in the
* future when the result becomes available to resume the computation.

* Otherwise, the return value of the [block] must have a type assignable to [T] and
represents the result of this suspend function.

* It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.
* As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked,
* its proper return type remains on the conscience of the suspend function's author.

* Invocation of [Continuation.resumeWith] can be used to acquire the intercepted continuation.

* Note that it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current continuation instance.

*/
@SinceKotlin("1.3")
@InlineOnly
@Suppress("UNUSED_PARAMETER", "RedundantSuspendModifier")
public suspend inline fun <T> suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE) }
    throw NotImplementedError("Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic")
}

/**
 * This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that
 * the execution was suspended and will not return any result immediately.

 * **Note: this value should not be used in general code.** Using it outside of the context of `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited to,
 * storing this value in other properties, returning it from other functions, etc) can lead to unspecified
behavior of the code.

 * It is implemented as property with getter to avoid using `PrivateNonPublicAPI` problem with
multifile IntrinsicsKt class.
@SinceKotlin("1.3")
public val COROUTINE_SUSPENDED: Any get() =
    CoroutineSingletons.COROUTINE_SUSPENDED

// Using enum here ensures two important properties:
//  1. It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support
enums)`n//  2. It improves debugging experience, since you clearly see toString() value of those objects and what
package they come from
@SinceKotlin("1.3")
@PublishedApi // This class is Published API via serialized
internal enum class CoroutineSingletons {
    COROUTINE_SUSPENDED, UNDECIDED, RESUMED } /*
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 * Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that
 * can be found in the license/LICENSE.txt file.
 * `\n * \n * \n * \n * \n * `package kotlin.experimental

/** Performs a bitwise AND
 * operation between the two values. */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline infix fun Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()

/** Performs a bitwise OR operation
 * between the two values. */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline infix fun Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()

/** Performs a bitwise XOR operation
 * between the two values. */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline infix fun Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()

/** Inverts the bits in this value. */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun Byte.inv(): Byte = (this.toInt().inv()).toByte()
Since 1.2, the Kotlin compiler supports

- `RequireKotlinVersionKind.LANGUAGE_VERSION`,
- `RequireKotlinVersionKind.COMPILEER_VERSION` and
- `RequireKotlinVersionKind.API_VERSION`.

If the actual value of `versionKind` is something different (e.g. a new version kind, added in future versions of Kotlin), Kotlin 1.2 is going to ignore this `RequireKotlin` altogether, where as Kotlin before 1.2 is going to treat this as a requirement on the language version.

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This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.
implementing property delegates of read-only properties.

* This is provided only for convenience; you don't have to extend this interface as long as your property delegate has methods with the same signatures.

@param T the type of object which owns the delegated property.  

*@public fun interface ReadOnlyProperty<in T, out V> { 

 * Returns the value of the property for the given object.

 * @param thisRef the object for which the value is requested.

 * @param property the metadata for the property.

 * @return the property value.

 * @public operator fun getValue(thisRef: T, property: KProperty<*>): V
}

/**
 * Base interface that can be used for implementing property delegates of read-write properties.
 * This is provided only for convenience; you don't have to extend this interface as long as your property delegate has methods with the same signatures.

 * @param T the type of object which owns the delegated property.

 * @param V the type of the property value.

 */
public interface ReadWriteProperty<in T, V> : ReadOnlyProperty<T, V> {

    /**
     * Returns the value of the property for the given object.

     * @param thisRef the object for which the value is requested.

     * @param property the object for which the value is requested.

     * @param property the metadata for the property.

     * @return the property value.

     */
    public override operator fun getValue(thisRef: T, property: KProperty<*>): V

    /**
     * Sets the value of the property for the given object.

     * @param thisRef the object for which the value is requested.

     * @param property the metadata for the property.

     * @param value the value to set.

     */
    public operator fun setValue(thisRef: T, property: KProperty<*>, value: V)
}

/**
 * Base interface that can be used for implementing property delegate providers.
 * This is provided only for convenience; you don't have to extend this interface as long as your delegate provider has a method with the same signature.

 * @param T the type of object which owns the delegated property.

 * @param D the type of property delegates this provider provides.

 */
@SinceKotlin("1.4")
public fun interface PropertyDelegateProvider<in T, out D> {

    /**
     * Returns the delegate of the property for the given object.

     * This function can be used to extend the logic of creating the object (e.g. perform validation checks) to which the property implementation is delegated.

     * @param thisRef the object for which property delegate is requested.

     * @param property the object for which property delegate is requested.

     * @param property the metadata for the property.

     * @return the property delegate.

     */
    public operator fun provideDelegate(thisRef: T, property: KProperty<*>): D
}

package kotlin.properties

import kotlin.reflect.KProperty

/**
 * Implements the core logic of a property delegate for a read/write property that calls callback functions when changed.

 * @param initialValue the initial value of the property.

 */
public abstract class ObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {

    private var value = initialValue

    /**
     * The callback which is called before a change to the property value is attempted.

     * The value of the property hasn't been changed yet, when this callback is invoked.

     * If the callback returns `true` the value of the property is being set to the new value, and if the callback returns `false` the new value is discarded and the property remains its old value.

     * protected open fun beforeChange(property: KProperty<*>, oldValue: V, newValue: V): Boolean = true

     */
    protected open fun beforeChange(property: KProperty<*>, oldValue: V, newValue: V): Boolean = true

    /**
     * The callback which is called after the change of the property is made.

     */
    protected open fun afterChange(property: KProperty<*>, oldValue: V, newValue: V): Unit {}

    public override fun getValue(thisRef: Any?, property: KProperty<*>): V {
        return value
    }

    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: V) {
        val oldValue = this.value
        if (!beforeChange(property, oldValue, value)) {
            return
        }
        this.value = value
        afterChange(property, oldValue, value)
    }
}
username: String) * val defaultLogin = Login("Admin") * val defaultUsername by defaultLogin::username * // equivalent to * val defaultUserName get() = defaultLogin.username * * "" * *An@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline operator fun <V> KProperty0<V>.getValue(thisRef: Any?, property: KProperty<*>) : V { * return get(thisRef) } * * An extension operator that allows delegating a mutable property of type [V] * to a property reference to a mutable property of the same type [V]. * @receiver A property reference to a mutable property of type [V]. * The reference is without a receiver, i.e. it either references a top-level property or a * has the receiver bound to it. * * Example: * var defaultLoginAttempts: Int = 0 * val defaultLogin = Login("Admin") * val defaultLoginAttempts by defaultLogin::incorrectAttemptCounter * // equivalent to * var defaultLoginAttempts: Int * get() = defaultLogin.incorrectAttemptCounter * set(value) { * defaultLogin.incorrectAttemptCounter = value } * * "" * *An@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline operator fun <V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) { * set(value) } * * An extension operator that allows delegating a read-only member or extension property of type [V] * to a property reference to a member or extension property of type [V] or its subtype. * * Example: * var defaultLoginAttempts: Int
* get() = defaultLogin.incorrectAttemptCounter
* set(value) {
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* get() = defaultLogin.incorrectAttemptCounter
* set(value) {
* defaultLogin.incorrectAttemptCounter = value
* } * * ""
val remainder = toIndex - position
val vr = nextBits(remainder * 8)

Fills the specified byte [array] with random bytes and returns it. *
* @return [array] filled with random bytes.
/**
 * public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)

 * Creates a byte array of the specified [size], filled with random bytes.
 * *
 * The default random number generator.
 * *
 * On JVM this generator is thread-safe, its methods can be invoked from multiple threads.
 * *
 * @sample samples.random.Randoms.defaultRandom
 * *
 * companion object Default : Random()
 
 private val defaultRandom: Random = defaultPlatformRandom().

 override fun nextBytes(bitCount: Int): Int = defaultRandom.nextBytes(bitCount)

 override fun nextInt(): Int = defaultRandom.nextInt()

 override fun nextInt(until: Int): Int = defaultRandom.nextInt(until)

 override fun nextInt(from: Int, until: Int): Int = defaultRandom.nextInt(from, until)

 override fun nextLong(): Long = defaultRandom.nextLong()

 override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)

 override fun nextLong(from: Long, until: Long): Long = defaultRandom.nextLong(from, until)

 override fun nextBoolean(): Boolean = defaultRandom.nextBoolean()

 override fun nextDouble(): Double = defaultRandom.nextDouble()

 override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)

 override fun nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)

 override fun nextFloat(): Float = defaultRandom.nextFloat()

 override fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)

 override fun nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)

 override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int): ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)

 /**
 * Returns a repeatable random number generator seeded with the given [seed] `Int` value.
 * *
 * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.
 * *
 * *Note:* Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return a sequence of values different from the current one for a given seed.
 * *
 * On JVM the returned generator is NOT thread-safe. Do not invoke it from multiple threads without proper synchronization.
 * *
 * @sample samples.random.Randoms.seededRandom
 */

 @SinceKotlin("1.3")
 public fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))

 /**
 * Returns a repeatable random number generator seeded with the given [seed] `Long` value.
 * *
 * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.
 * *
 * *Note:* Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return a sequence of values different from the current one for a given seed.
 * *
 * On JVM the returned generator is NOT thread-safe. Do not invoke it from multiple threads without proper synchronization.
 * *
 * @sample samples.random.Randoms.seededRandom
 */

 @SinceKotlin("1.3")
 internal fun defaultPlatformRandom(): Random

```kotlin
fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits() /* Takes upper [bitCount] bits (0..32) from this number. */

internal fun Int.takeUpperBits(bitCount: Int): Int =
    this.ushr(32 - bitCount) and (-bitCount).shr(31)

internal fun checkRangeBounds(from: Int, until: Int) = require(until > from) {
    boundsErrorMessage(from, until) }

internal fun checkRangeBounds(from: Long, until: Long) = require(until > from) {
    boundsErrorMessage(from, until) }

internal fun checkRangeBounds(from: Double, until: Double) = require(until > from) {
    boundsErrorMessage(from, until) }

internal fun boundsErrorMessage(from: Any, until: Any) = "Random range is empty: [$from, $until)."

/*
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 */

package kotlin.random

/**
 * Gets the next random [UInt] from the random number generator.
 * Generates a [UInt] random value uniformly distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUInt(): UInt = nextInt().toUInt()

/**
 * Gets the next random [UInt] from the random number generator less than the specified [until] bound.
 * Generates a [UInt] random value uniformly distributed between '0' (inclusive) and the specified [until] bound (exclusive).
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUInt(until: UInt): UInt = nextUInt(0u, until)

/**
 * Gets the next random [UInt] from the random number generator in the specified range.
 * Generates a [UInt] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUInt(from: UInt, until: UInt): UInt {
    checkUIntRangeBounds(from, until)

    val signedFrom = from.toInt() xor Int.MIN_VALUE
    val signedUntil = until.toInt() xor Int.MIN_VALUE

    val signedResult = nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE
    return signedResult.toUInt()
}

/**
 * Gets the next random [ULong] from the random number generator.
 * Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and [ULong.MAX_VALUE] (inclusive).
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextULong(): ULong = nextLong().toULong()

/**
 * Gets the next random [ULong] from the random number generator less than the specified [until] bound.
 * Generates a [ULong] random value uniformly distributed between '0' (inclusive) and the specified [until] bound (exclusive).
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextULong(until: ULong): ULong = nextULong(0uL, until)

/**
 * Gets the next random [ULong] from the random number generator in the specified range.
 * Generates a [ULong] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextULong(from: ULong, until: ULong): ULong {
    checkULongRangeBounds(from, until)

    val signedFrom = from.toLong() xor Long.MIN_VALUE
    val signedUntil = until.toLong() xor Long.MIN_VALUE

    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE
    return signedResult.toULong()
}
```

---

Open Source Used In Connected-Pharma 1.7.7 - Merck Connected Pharma 63631
ULong = when {
    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)
    range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u
    else -> nextULong()
}

/**
 * Fills the specified unsigned byte array with random bytes and returns it.
 * @return [array] filled with random bytes.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUByteArray(array: UByteArray): UByteArray = nextBytes(array.asByteArray())

/**
 * Creates an unsigned byte array of the specified [size], filled with random bytes.
 * @param size the size of the array
 * @return the newly created array
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUByteArray(size: Int): UByteArray = nextBytes(size).asUByteArray()

/**
 * Fills a subrange of the specified `UByte` array starting from [fromIndex] inclusive and ending [toIndex] exclusive with random UBytes.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUBytes(array: UByteArray, fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {
    nextBytes(array.asByteArray(), fromIndex, toIndex)
    return array
}

@ExperimentalUnsignedTypes
internal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until > from) { "Initial state must have at least one non-zero element." }
@ExperimentalUnsignedTypes
internal fun checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { "Initial state must have at least one non-zero element." }

package kotlin.random

/**
 * Random number generator, using Marsaglia's "xorwow" algorithm
 * Cycles after 2^192 - 2^32 repetitions.
 * For more details, see Marsaglia, George (July 2003). "Xorshift RNGs".
 * Available at https://www.jstatsoft.org/v08/i14/paper
 */
internal class XorWowRandom
internal constructor(
    private var x: Int,
    private var y: Int,
    private var z: Int,
    private var w: Int,
    private var v: Int,
    private var addend: Int
) : Random() {

    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @JvmName("getRandomInt")
    override fun nextInt(): Int {
        // Equivalent to the xorxow algorithm
        var t = x
        t = t xor (t ushr 2)
        x = y
        y = z
        z = w
        val v0 = v
        w = v0
        t = (t xor (t shl 1)) xor v0 xor (v0 shl 4) // trivial seeds can produce several values with zeroes in upper bits, so we discard first 64
        repeat(64) { nextInt() }
        return t + addend
    }

    override fun nextBits(bitCount: Int): Int =
        nextInt().takeUpperBits(bitCount)
}

/*
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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("RangesKt")

package kotlin.ranges

/**
 * Represents a range of [Comparable] values.
 */
private open class ComparableRange<T : Comparable<T>>(
    override val start: T,
    override val endInclusive: T
) : ClosedRange<T> {

    override fun equals(other: Any?): Boolean {
        return other is ComparableRange<*>
                && (isEmpty() && other.isEmpty()
                || start == other.start
                && endInclusive == other.endInclusive)
    }

    override fun hashCode(): Int = 31 * start.hashCode() + endInclusive.hashCode()

    override fun toString(): String = "$start..$endInclusive"
}

/**
 * Creates a range from this [Comparable] value to the specified [that] value.
 * This value needs to be smaller than [that] value, otherwise the returned range will be empty.
 */
public operator fun <T : Comparable<T>> T.rangeTo(that: T): ClosedRange<T> { return ComparableRange$start to end = start to endInclusive = true
}

/**
 * Represents a range of floating point numbers.
 * Extends [ClosedRange] interface providing custom operation
 * [lessThanOrEquals] for comparing values of range domain type.
 * This interface is implemented by floating point ranges returned by [Float.rangeTo] and [Double.rangeTo] operators to achieve IEEE-754 comparison order instead of total order of floating point numbers.
 */
@SinceKotlin("1.1")
public interface ClosedFloatingPointRange<T : Comparable<T>> : ClosedRange<T> { override fun override fun contains(value: T): Boolean


override fun isEmpty(): Boolean = !lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)

/**
 * Compares two values of range domain type and returns true if first is less than or equal to second.
 */
fun lessThanOrEquals(a: T, b: T): Boolean = a <= b

override fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive
override fun isEmpty(): Boolean = !_start <= _endInclusive

override fun equals(other: Any?): Boolean {
    return other is ClosedDoubleRange && (isEmpty() && other.isEmpty() || _start == other._start && _endInclusive == other._endInclusive)
}

override fun hashCode(): Int {
    return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()
}

override fun toString(): String = "$_start..$_endInclusive"

/**
 * Creates a range from this [Double] value to the specified [that] value.
 * Numbers are compared with the ends of this range according to IEEE-754.
 * @sample samples.ranges.Ranges.rangeFromDouble
 */
@SinceKotlin("1.1")
public operator fun Double.rangeTo(that: Double): ClosedDoubleRange = ClosedDoubleRange(this, that)

/**
 * Returns `true` if this iterable range contains the specified [element].
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
    element != null && contains(element)

fun <T : Any> KClass<T>.cast(value: Any?): T {
    if (!isInstance(value)) throw ClassCastException("Value cannot be cast to $qualifiedOrSimpleName")
    return value as T
}

internal expect val KClass<*>.qualifiedOrSimpleName: String?

/**
 * Casts the given [value] to the class represented by this [KClass] object.
 * Returns `null` if the value is `null` or if it is not an instance of this class.
 */
@SinceKotlin("1.4")
fun <K : Any> KClass<K>.unsafeCast(value: Any?): K {
    return value as K
}

// TODO: replace with qualifiedName when it is fully supported in K/JS
internal expect val KClass<*>.shortName: String?

/**
 * Returns `true` if this iterable range contains the specified [element].
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.3")
fun <T : Any> ClosedRange<T>.contains(element: T?): Boolean {
    return contains(element)
}

fun <T : Any> ClosedRange<T>.cast(value: Any?): T {
    if (!isInstance(value)) throw ClassCastException("Value cannot be cast to $qualifiedOrSimpleName")
    return value as T
}

fun <T : Any> KClass<T>.ensureInstance(vararg arguments: Any?): T {
    val instance = cast(ensureInstance(*arguments))
    checkStepIsPositive(true) {
        throw IllegalArgumetnException("Step must be positive, was: $step")
    }
    return instance
}
platforms."

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@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

package kotlin.text

/**
 * An object to which char sequences and values can be appended.
 */

open class Appendable {
    /**
     * Appends the specified character [value] to this Appendable and returns this instance.
     */
    fun append(value: Char): Appendable

    /**
     * Appends the specified character sequence [value] to this Appendable and returns this instance.
     */
    fun append(value: CharSequence?): Appendable

    /**
     * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.
     */
    fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable
}

internal fun <T> Appendable.appendElement(element: T, transform: ((T) -> CharSequence)?) {
    when {
        transform != null -> append(transform(element))
        element is CharSequence? -> append(element)
        else -> append(element.toString())
    }
}

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CharsKt")

package kotlin.text

/**
 * Concatenates this Char and a String.
 */
operator fun Char.plus(other: String): String = this.toString() + other

/**
 * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.
 */
fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {
    if (this == other) return true
    if (!ignoreCase) return false

    if (this.toUpperCase() ==

    if (this.toLowerCase() ==

    return false
}

override fun toString(): String {
    return value
}

fun String.toByteArray(): ByteArray

other.toUpperCase()) return true
    if (this.toLowerCase() == other.toLowerCase()) return true
    return false
}

/**
 * Returns `true` if this character is a Unicode surrogate code unit.
 */
public fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

package kotlin.text

/**
 * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes
 * the first and the last lines if they are blank (notice difference blank vs empty).
 */
public fun String.trimMargin(marginPrefix: String, marginPrefix: String = "\\n"): String =
    replaceIndentByMargin(marginPrefix, marginPrefix, marginPrefix)

/**
 * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].
 */
public fun String.replaceIndentByMargin(newIndent: String, marginPrefix: String = "\\n"): String {
    require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank string." }
    val lines = lines()

    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line ->
        val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }

        when {
            firstNonWhitespaceIndex == -1 -> null
            line.startsWith(marginPrefix, firstNonWhitespaceIndex) -> line.substring(firstNonWhitespaceIndex + marginPrefix.length)
            else -> null
        }
    })
}

/**
 * Detects a common minimal indent of all the input lines, removes it from every line and also removes the first and the last lines if they are blank (notice difference blank vs empty).
 */
public fun String.trimIndent(): String = replaceIndent("\\n")

/**
 * Detects a common minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].
 */
public fun String.replaceIndent(newIndent: String = "\\n"): String {
    val lines = lines()

    val minCommonIndent = lines
        .filter(String::isNotBlank)
        .map(String::indentWidth)
        .minOrNull() ?: 0

    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })
}

/**
 * Prepends [indent] to every line of the original string.
 */
public fun String.prependIndent(indent: String = "    "): String =
    lineSequence()
        .map {
            when {
                it.isBlank() -> {
                    when {
                        it.length < indent.length -> indent
                        else -> it
                    }
                }
                else -> indent + it
            }
        }
        .joinToString("\\n")

private fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }

private fun getIndentFunction(indent: String) = when {
    indent.isEmpty() -> { line: String -> line }
    else -> { line: String -> indent + line }
}

private inline fun List<String>.reindent(
    resultSizeEstimate: Int,
    indentAddFunction: (String) -> String,
    indentCutFunction: (String) -> String?
): String {
    val lastIndex = lastIndex
    return mapIndexedNotNull { index, value ->
        if ((index == 0 || index == lastIndex) && value.isBlank())
            null
        else
            indentCutFunction(value)?.let(indentAddFunction) ?: value
    }
        .joinTo(StringBuilder(resultSizeEstimate), "\\n")
        .toString()
`groupCount` and group with the index 0 corresponds to the entire match.

/*
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 * Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

package kotlin.time

import kotlin.contracts.*
import kotlin.math.abs

@OptIn(ExperimentalTime::class)
private inline val storageUnit
    get() = DurationUnit.NANOSECONDS

/**
 * Represents the amount of time one instant of time is away from
 * another instant.
 *
 * A negative duration is possible in a situation when the second instant is earlier than the first
 * one.
 * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.
 * To construct a duration use either the extension function [toDuration],
 * or the extension properties [hours],
 * [minutes], [seconds], and so on.
 * To get the value of this duration expressed in a particular [duration units][DurationUnit] use the functions [toInt], [toInt],
 * and [toDouble] or the properties [inHours], [inMinutes], [inSeconds], and so on.
 * @sample kotlin.time.DurationSamples
 * @sample @SinceKotlin("1.3")@OptIn(ExperimentalTime::class)@nimport kotlin.time.*
 *
 * To construct a duration use either the extension function [toDuration], * or the extension properties [hours],
 * [minutes], [seconds], and so on.
 * @sample samples.text.Reexp matchDestructuringToGroupValues
 * @sample public fun groupValues: List<String>
 */
    public val groupValues: List<String>

    /**
     * A list of matched indexed group values.
     *
     * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
     * If the group in the regular expression is optional and there were no match captured by that group,
     * corresponding item in [groupValues] is an empty string.
     */
    public val groups: MatchGroupCollection

    /**
     * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment
     * of group values.
     *
     * component1 corresponds to the value of the first group, component2 corresponds to the value of the second, and so on.
     * @sample samples.text.Reexp matchDestructuringToGroupValues
     */
    public val destructured: Destructured get() = Destructured(this)

    /** Returns a new [MatchResult] with the
     * results for the next match, starting at the position
     * at which the last match ended (at the character after the last
     * matched character).
     */
    public fun next(): MatchResult?

    /**
     * Provides components for
     * destructuring assignment of group values.
     *
     * component1 corresponds to the value of the first group,
     * component2 corresponds to the value of the second, and so on.
     *
     * If the group in the regular expression is optional and there were no match captured by that group,
     * corresponding component value is an empty string.
     *
     * @sample samples.text.Reexp matchDestructuringToGroupValues
     */
    public class Destructured internal
        constructor(public val match: MatchResult) {
            @kotlin.internal.InlineOnly
            public operator inline fun
                component1(): String = match.groupValues[1]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component2(): String = match.groupValues[2]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component3(): String = match.groupValues[3]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component4(): String = match.groupValues[4]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component5(): String = match.groupValues[5]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component6(): String = match.groupValues[6]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component7(): String = match.groupValues[7]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component8(): String = match.groupValues[8]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component9(): String = match.groupValues[9]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component10(): String = match.groupValues[10]

            /**
             * Returns destructured group values as a list of
             * strings.
             * First value in the returned list corresponds to the value of the first group, and so on.
             *
             * @sample samples.text.Reexp matchDestructuringToGroupValues
             */
            public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)
        }
}
public fun isNegative(): Boolean = value < 0
    /** Returns true, if the duration value is greater than zero. */
    public fun isPositive(): Boolean = value > 0
    /** Returns true, if the duration value is infinite. */
    public fun isInfinite(): Boolean = value.isInfinite()
    /** Returns true, if the duration value is greater than zero. */
    public fun isFinite(): Boolean = value.isFinite()
    /** Returns true, if the duration value is infinite. */
    public fun isNegative(): Boolean = value < 0
    /** Returns true, if the duration value is greater than zero. */
    public fun isPositive(): Boolean = value > 0
    /** Returns true, if the duration value is infinite. */
    public fun isInfinite(): Boolean = value.isInfinite()
    /** Returns true, if the duration value is greater than zero. */
    public fun isFinite(): Boolean = value.isFinite()

    // arithmetic operators

    /** Returns the negative of this value. */
    public fun unaryMinus(): Duration = Duration(-value)
    /** Returns a duration whose value is the sum of this and [other] duration values. */
    public operator fun plus(other: Duration): Duration = Duration(value + other.value)
    /** Returns a duration whose value is the difference between this and [other] duration values. */
    public operator fun minus(other: Duration): Duration = Duration(value - other.value)
    /** Returns a duration whose value is this duration value multiplied by the given [scale] number. */
    public operator fun times(scale: Double): Duration = Duration(value * scale)
    /** Returns a number that is the ratio of this and [other] duration values. */
    public operator fun div(scale: Double): Duration = Duration(value / scale)
    /** Returns a duration whose value is this duration value divided by the given [scale] number. */
    public operator fun div(scale: Int): Duration = Duration(value / scale)

    // splitting to components

    /** Splits this duration into days, hours, minutes, seconds, and nanoseconds and executes the given [action] with these components. */
    public fun compareTo(other: Duration): Int = this.value.compareTo(other.value)

    override fun absoluteValue: Duration get() = if (isNegative()) -this else this

    override fun isInfinite(): Boolean = value.isInfinite()
    /** Returns true, if the duration value is finite. */
    public
    /** Returns true, if the duration value is less than 60; */
    public fun isPositive(): Boolean = value > 0
    /** Returns true, if the duration value is infinite. */
    public fun isInfinite(): Boolean = value.isInfinite()
    /** Returns true, if the duration value is greater than zero. */
    public fun isFinite(): Boolean = value.isFinite()
public inline fun <T> toComponents(action: (minutes: Int, seconds: Int, nanoseconds: Int) -> T): T {
    contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
    return action(inMinutes.toInt(),
                    secondsComponent, nanosecondsComponent) // Splits this duration into seconds, and
    } /* * nanoseconds and executes the given [action] with these components. */ * The result of [action] is returned as the
    } /* * nanoseconds' represents the whole number of nanoseconds in this duration,
    */ * and its absolute value is less than 1_000_000_000;
    * - `seconds` represents the whole number of seconds in this
duration.

    /**
     * Splits this duration into seconds, and
     * nanoseconds and executes the given [action] with these components. */
    public inline fun <T> toComponents(action: (seconds: Long, nanosecondsComponent: Int) -> T): T {
        contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
        return action(inMinutes.toInt(),
                      secondsComponent, nanosecondsComponent) // Splits this duration into seconds, and
                      nanosecondsComponent: Int) -> T: T { /* * nanoseconds and executes the given [action] with these components. */ * The result of [action] is returned as the
        } /* * nanoseconds' represents the whole number of nanoseconds in this duration,
        */ * and its absolute value is less than 1_000_000_000;
        * - `seconds` represents the whole number of seconds in this
duration.

        /**
         * Splits this duration into seconds, and
         * nanoseconds and executes the given [action] with these components. */
        public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T {
            contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
            return action(inMinutes.toInt(),
                          secondsComponent, nanosecondsComponent) // Splits this duration into seconds, and
                          nanoseconds and executes the given [action] with these components. */ * The result of [action] is returned as the
                          } /* * nanoseconds' represents the whole number of nanoseconds in this duration,
                          */ * and its absolute value is less than 1_000_000_000;
                          * - `seconds` represents the whole number of seconds in this
duration.

                          /**
                           * Splits this duration into seconds, and
                           * nanoseconds and executes the given [action] with these components. */
                           public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T {
                               contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
                               return action(inMinutes.toInt(),
                                             secondsComponent, nanosecondsComponent) // Splits this duration into seconds, and
                                             nanoseconds and executes the given [action] with these components. */ * The result of [action] is returned as the
                                             } /* * nanoseconds' represents the whole number of nanoseconds in this duration,
                                             */ * and its absolute value is less than 1_000_000_000;
                                             * - `seconds` represents the whole number of seconds in this
duration.

                                             /**
                                              * Splits this duration into seconds, and
                                              * nanoseconds and executes the given [action] with these components. */
                                              public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T {
                                                  contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
                                                  return action(inMinutes.toInt(),
                                                                secondsComponent, nanosecondsComponent) // Splits this duration into seconds, and
                                                                nanoseconds and executes the given [action] with these components. */ * The result of [action] is returned as the
                                                                } /* * nanoseconds' represents the whole number of nanoseconds in this duration,
                                                                */ * and its absolute value is less than 1_000_000_000;
                                                                * - `seconds` represents the whole number of seconds in this
duration.

                                                                /**
                                                                 * Splits this duration into seconds, and
                                                                 * nanoseconds and executes the given [action] with these components. */
                                                                 public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T {
                                                                     contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
                                                                     return action(inMinutes.toInt(),
                                                                               secondsComponent, nanosecondsComponent) // Splits this duration into seconds, and
                                                                               nanoseconds and executes the given [action] with these components. */ * The result of [action] is returned as the
                                                                               } /* * nanoseconds' represents the whole number of nanoseconds in this duration,
                                                                               */ * and its absolute value is less than 1_000_000_000;
                                                                               * - `seconds` represents the whole number of seconds in this
duration.

                                                                               /**
                                                                                * Splits this duration into seconds, and
                                                                                * nanoseconds and executes the given [action] with these components. */
                                                                                public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T {
                                                                                       contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
                                                                                       return action(inMinutes.toInt(),
                                                                                         secondsComponent, nanosecondsComponent) // Splits this duration into seconds, and
                                                                                         nanoseconds and executes the given [action] with these components. */ * The result of [action] is returned as the
                                                                                         } /* * nanoseconds' represents the whole number of nanoseconds in this duration,
                                                                                         */ * and its absolute value is less than 1_000_000_000;
                                                                                         * - `seconds` represents the whole number of seconds in this
duration.

                                                                                         /**
                                                                                          * Splits this duration into seconds, and
                                                                                          * nanoseconds and executes the given [action] with these components. */
                                                                                          public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T {
                                                                                                             contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
                                                                                                             return action(inMinutes.toInt(),
                                                                                                                           secondsComponent, nanosecondsComponent) // Splits this duration into seconds, and
                                                                                                                           nanoseconds and executes the given [action] with these components. */ * The result of [action] is returned as the
                                                                                                                           } /* * nanoseconds' represents the whole number of nanoseconds in this duration,
                                                                                                                           */ * and its absolute value is less than 1_000_000_000;
                                                                                                                           * - `seconds` represents the whole number of seconds in this
duration.
```kotlin
var scientific = false
var maxDecimals = 0
val unit = when {
    absNs < 1e-6 -> DurationUnit.SECONDS
    absNs < 1e-3 -> DurationUnit.NANOSECONDS
    absNs < 1e-9 -> DurationUnit.MICROSECONDS
    absNs < 1e-6 -> DurationUnit.MILLISECONDES
    absNs < 3600_000e9 -> DurationUnit.HOURS
    absNs < 86400e9 * 1e7 -> DurationUnit.DAYS
    else ->
        DurationUnit.DAYS
}

val value = toDouble(unit)

when {
    scientific -> formatScientific(value)
    maxDecimals > 0 -> formatUpToDecimals(value, maxDecimals)
    else -> formatToExactDecimals(value, precision(abs(value)) + unit.shortName()
}

private fun precision(value: Double): Int = when {
    value < 1 -> 3
    value < 10 -> 2
    value < 100 -> 1
    else -> 0
}

/**
 * Returns a string representation of this duration value expressed in the given [unit] and formatted with the specified [decimals] number of digits after decimal point.
 * * Special cases:* - the infinite duration is formatted as `"Infinity"` without unit
 * * - * @return the value of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.
 * * * @throws IllegalArgumentException if [decimals] is less than zero.
 * * * @sample samples.time.Durations.toStringDecimals
 */
public fun toString(unit: DurationUnit, decimals: Int = 0): String {
    require(decimals >= 0) { "decimals must be not negative, but was $decimals" }
    if (isInfinite()) return value.toString()
    val number = toDouble(unit)
    return when {
        abs(number) < 1e14 -> formatToExactDecimals(number, decimals.coerceAtMost(12))
        else -> formatScientific(number) + unit.shortName()
    }

/**
 * Returns an ISO-8601 based string representation of this duration.
 * The returned value is presented in the format `PThHmMs.fS`, where `h`, `m`, `s` are the integer components of this duration (see [toComponents]) and `f` is a fractional part of second. Depending on the roundness of the value the fractional part can be formatted with either 0, 3, 6, or 9 decimal digits.
 * * - If the hours component absolute value of this duration is greater than [Int.MAX_VALUE], it is replaced with [Int.MAX_VALUE],
 * * - * Negative durations are indicated with the sign '-' in the beginning of the returned string, for example, `"-PT5M30S"`.
 * * @sample samples.time.Durations.toIsoString
 */
@OptIn(ExperimentalStdlibApi::class)
public fun toIsoString(): String = buildString {
    if (isNegative()) append('-')
    append("PT")
    absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->
        val hasHours = hours != 0
        val hasSeconds = seconds != 0 || nanoseconds != 0
        val hasMinutes = minutes != 0 || (hasSeconds && hasHours)
        if (hasHours) {
            append(hours).append('H')
        }
        if (hasMinutes) {
            append(minutes).append('M')
        }
        if (hasSeconds || (!hasHours && !hasMinutes)) {
            append(seconds)
            if (nanoseconds != 0) {
                append('.')
                val nss = nanoseconds.toString().padStart(9, '0')
                when {
                    nanoseconds % 1_000_000 == 0 ->
                        appendRange(nss, 0, 3)
                    nanoseconds % 1_000 == 0 ->
                        appendRange(nss, 0, 6)
                    else ->
                        append(nss)
                }
            }
        }
    }
}

// constructing from number of units
// extension functions

/** Returns a [Duration] equal to this [Int] number of the specified [unit]. */
@SinceKotlin("1.3")
@ExperimentalTime
public fun Int.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)

/** Returns a [Duration] equal to this [Long] number of the specified [unit]. */
@SinceKotlin("1.3")
@ExperimentalTime
public fun Long.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)

/** Returns a [Duration] equal to this [Double] number of nanoseconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public fun Double.toDuration(unit: DurationUnit): Duration = Duration(convertDurationUnit(this, unit, storageUnit))
```

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public val Double.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)

/** Returns a [Duration] equal to this [Int] number of
 microseconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)

/** Returns a [Duration] equal to this [Long] number of
 milliseconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.milliseconds get() =
toDuration(DurationUnit.MILLISECCONDS)

/** Returns a [Duration] equal to this [Double] number of
 milliseconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.milliseconds get() =
toDuration(DurationUnit.MILLISECCONDS)

/** Returns a [Duration] equal to this [Int] number of
 seconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.seconds get() =
toDuration(DurationUnit.SECONDS)

/** Returns a [Duration] equal to this [Long] number of
 seconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.seconds get() =
toDuration(DurationUnit.SECONDS)

/** Returns a [Duration] equal to this [Double] number of
 seconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.seconds get() =
toDuration(DurationUnit.SECONDS)

/** Returns a [Duration] equal to this [Int] number of
 minutes. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.minutes get() =
toDuration(DurationUnit.MINUTES)

/** Returns a [Duration] equal to this [Long] number of
 minutes. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.minutes get() =
toDuration(DurationUnit.MINUTES)

/** Returns a [Duration] equal to this [Double] number of
 minutes. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.minutes get() =
toDuration(DurationUnit.MINUTES)

/** Returns a [Duration] equal to this [Int] number of
 hours. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.hours get() =
toDuration(DurationUnit.HOURS)

/** Returns a [Duration] equal to this [Long] number of
 hours. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.hours get() =
toDuration(DurationUnit.HOURS)

/** Returns a [Duration] equal to this [Double] number of
 hours. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.hours get() =
toDuration(DurationUnit.HOURS)

/** Returns a duration whose value is the specified
 [duration] value multiplied by this number. */
@SinceKotlin("1.3")
@ExperimentalTime
@kotlin.internal.InlineOnly
public
inline operator fun Int.times(duration: Duration): Duration = duration * this

/** Returns a duration whose value
 is the specified [duration] value multiplied by this number. */
@SinceKotlin("1.3")
@ExperimentalTime
@kotlin.internal.InlineOnly
public inline operator fun Double.times(duration: Duration): Duration = duration * this

internal expect fun formatToExactDecimals(value: Double, decimals: Int): String
internal expect fun formatUpToDecimals(value: Double, decimals: Int): String
internal expect fun formatScientific(value: Double): String

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 */

@file:kotlin.jvm.JvmMultifileClass()
@file:kotlin.jvm.JvmName("DurationUnitKt")

package
The list of possible time measurement units, in which a duration can be expressed. The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24 [HOURS].

Time unit representing one nanosecond, which is 1/1000 of a microsecond.

Time unit representing one millisecond, which is 1/1000 of a second.

Time unit representing one second.

Time unit representing one minute.

Time unit representing one hour.

Time unit representing one day, which is always equal to 24 hours.

Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit].

Any usage of a declaration annotated with @ExperimentalTime must be accepted either by annotating that usage with the [OptIn] annotation, e.g. @OptIn(ExperimentalTime::class), or by using the compiler argument `-Xopt-in=kotlin.time.ExperimentalTime`.

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The only operation provided by the time source is markNow(). It returns a TimeMark, which can be used to query the elapsed time later.

The returned [TimeMark] instance encapsulates the captured time point and allows querying the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.

The most precise time source available in the platform.

A source of timing for measuring time intervals.

The operation provided by the time source is markNow(). It returns a TimeMark, which can be used to query the elapsed time later.

The returned [TimeMark] instance encapsulates the captured time point and allows querying the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.

This time source returns its readings from a source of monotonic time when it is available in a target platform, and resorts to a non-monotonic time source otherwise.

By default, the time source was taken from the system time. If you need a different time source, you can override fun toString(): String = MonotonicTimeSource.toString() to provide another implementation.
time source that is ahead of this time mark by the specified [duration].
* *\n* The returned time mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.
* *\n* public open operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)
* *\n* Returns a time mark on the same time source that is behind this time mark by the specified [duration].
* *\nThe returned time mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.
* *\n* public open operator fun minus(duration: Duration): TimeMark = plus(-duration)
* *\n* Note that the value returned by this function can change on subsequent invocations.
* *\n* If the time source is monotonically, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point of the time source.
* *\n* public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()
* *\n* Returns false if this time mark has not passed according to the time source from which this mark was taken.
* *\n* Note that the value returned by this function can change on subsequent invocations.
* *\n* If the time source is monotonically, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point of the time source.
* *\n* public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()
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* *\n* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
* *\n* This method should be overridden to return the current reading of the time source expressed as a [Long] number in the unit specified by the [unit] property.
* *\n* An abstract class used to implement time sources that return their readings as [Long] values in the specified [unit].
* *\n* The method should be overridden to return the current reading of the time source expressed as a [Long] number in the unit specified by the [unit] property.
* *\n* An abstract class used to implement time sources that return their readings as [Double] values in the specified [unit].
should be overridden to return the current reading of the time source expressed as a [Double] number in the unit specified by the [unit] property.

* The current reading value can be advanced by a specified duration amount with the operator [plusAssign]:

```kotlin
val timeSource = TestTimeSource()
val delta = 0.6.nanoseconds
timeSource += delta
```
Duration {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }

    val mark = markNow()
    block()
    return mark.elapsedNow()}
}

/**
 * Data class representing a result of executing an action, along with the duration of elapsed time interval.
 * @property value the result of the action.
 * @property duration the result of function execution and the duration of elapsed time interval.
 */
public data class TimedValue<T>(value: T, duration: Duration)

/**
 * Executes the given function [block] and returns an instance of [TimedValue] class, containing both
 * the result of the function execution and the duration of elapsed time interval.
 */
public inline fun <T> measureTimedValue(block: () -> T): TimedValue<T> {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }

    return TimeSource.Monotonic.measureTimedValue(block)
}

/**
 * Executes the given function [block] and returns an instance of [TimedValue] class, containing both
 * the result of function execution and the duration of elapsed time interval.
 */
public inline fun <T> TimeSource.measureTimedValue(block: () -> T): TimedValue<T> {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }

    val mark = markNow()
    val result = block()
    return TimedValue(result, mark.elapsedNow())
}

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 */

package kotlin

import kotlin.coroutines.*
import kotlin.coroutines.intrinsics.*

/**
 * Defines deep recursive function that keeps its stack on the heap, which allows very deep recursive computations that do not use the actual call stack.
 * To initiate a call to this deep recursive function use its [invoke] function.
 * As a rule of thumb, it should be used if recursion goes deeper than a thousand calls.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public class DeepRecursiveFunction<T, R>(internal val block: suspend DeepRecursiveScope<T, R>.<T>.(T) -> R)

/**
 * Initiates a call to this deep recursive function, forming a root of the call tree.
 *
 * This operator should not be used from inside of [DeepRecursiveScope] as it uses the call stack slot for initial recursive invocation. From inside of [DeepRecursiveScope] use [callRecursive]
 */
@ExperimentalStdlibApi
@callRecursive
public inline fun <T> DeepRecursiveScope.callRecursive(): R { return block() }

/**
 * Deep recursive functions can also mutually call each other using a heap for the stack via [callRecursive] extension. For example, the following pair of mutually recursive functions computes the number of tree nodes at even depth in the tree.
 */
@ExperimentalStdlibApi
@callRecursive<br>
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```kotlin
/*
@SinceKotlin("1.4")
@ExperimentalStdlibApi
public operator fun <T, R> DeepRecursiveFunction<T, R>.invoke(value: T): R =
    DeepRecursiveScopeImpl<T, R>(block, value).runCallLoop()

/**
 * A scope
class for [DeepRecursiveFunction] function declaration that defines [callRecursive] methods to
 * recursively call this function or another [DeepRecursiveFunction] putting the call activation frame on the heap.
 * @param [T]
 * function parameter type.
 * @param [R]
 * function result type.
*/
@RestrictsSuspension
@SinceKotlin("1.4")
@ExperimentalStdlibApi
public sealed class
    DeepRecursiveScope<T, R> {
    /**
     * Makes recursive call to this [DeepRecursiveFunction] function putting the call activation frame on the heap.
     * as opposed to the actual call stack that is used by a regular recursive call.
     * @param [T]
     * function parameter type.
     * @param [R]
     * function result type.
     */
    public abstract suspend fun callRecursive(value: T): R

    /**
     * Makes call to the specified [DeepRecursiveFunction] function putting the call activation frame on the heap.
     * as opposed to the actual call stack that is used by a regular call.
     * @param [T]
     * function parameter type.
     * @param [R]
     * function result type.
     */

    @Deprecated(
        level = DeprecationLevel.ERROR,
        message =
            "'invoke' should not be called from DeepRecursiveScope. Use 'callRecursive' to do recursion in
            the heap instead of the call stack.",
        replaceWith = ReplaceWith("this.callRecursive(value)")
    )
    @Suppress("UNUSED_PARAMETER")
    public operator fun DeepRecursiveFunction<*, *>.invoke(value: Any?): Nothing =
        throw UnsupportedOperationException("Should not be called from DeepRecursiveScope")
}

// ================== Implementation

@ExperimentalStdlibApi
private typealias DeepRecursiveFunctionBlock = suspend
    DeepRecursiveScope<*, *>.(Any?) -> Any?

private val UNDEFINED_RESULT =
    Result.success(COROUTINE_SUSPENDED)

@Suppress("UNCHECKED_CAST")
@ExperimentalStdlibApi
private class DeepRecursiveScopeImpl<T, R>(
    block: suspend DeepRecursiveScope<T, R>.(T) -> R,
    value: T
) : DeepRecursiveScope<T, R>(), Continuation<R> {
    // Active function block
    private var function: DeepRecursiveFunctionBlock = block as DeepRecursiveFunctionBlock

    // Value to call function
    private var value: Any? = value

    // Continuation of the current call
    private var cont: Continuation<Any?>? = this as Continuation<Any?>

    // Completion result (completion of the whole call
    // stack) private var result: Result<R> = UNDEFINED_RESULT

    override fun resumeWith(result: Result<R>) {
        this.cont = null
        this.result = result
    }

    override suspend fun callRecursive(value: T): R =
        suspendCoroutineUninterceptedOrReturn { cont ->
            // calling the same function that is currently active
            this.cont = cont
            this.value = value
            COROUTINE_SUSPENDED
        }

        suspendCoroutineUninterceptedOrReturn { cont ->
            // calling another recursive function
            val function = block as DeepRecursiveFunctionBlock
            with(this@DeepRecursiveScopeImpl) {
                val currentFunction = this.function
                if (function !== currentFunction) {
                    // calling a different function -- create a
trampoline to restore function
                    this.function = function
                    this.cont =
                        crossFunctionCompletion(currentFunction, cont)
                } else {
                    // calling the
                    this.cont = cont
                    this.value = value
                    // calling the same function -- direct
                    this.function = currentFunction
                }
                COROUTINE_SUSPENDED
            }
        }

    private fun crossFunctionCompletion(
        currentFunction: DeepRecursiveFunctionBlock,
        cont: Continuation<Any?>
    ): Continuation<Any?> =
        Continuation(EmptyCoroutineContext) {
            this.function = currentFunction
            this.cont =
                crossFunctionCompletion(currentFunction, cont)
        }

    // When going back from a
    trampoline we cannot just call cont.resume (stack usage!)
    // We delegate the cont.resumeWith(it) call to
    fun runCallLoop() {
        val result = this.result
        val cont = this.cont
        ?: return (result as Result<R>).getOrThrow() // done -- final result
        // The order of comparison is important
        for (case of rogue class with broken equals)
            if (UNDEFINED_RESULT == result) {
                // call "function" with "value" using "v" as completion
                val r = try {
                    function.startCoroutineUninterruptedOrReturn(this, value,
                } catch (e: Exception) {
                    // This is
                }
            }
```
    if (r !== COROUTINE_SUSPENDED)
        cont.resume(r as R)
    }
    // If the function returns without suspension -- calls its continuation immediately
    }
catch (e: Throwable) {
        cont.resumeWithException(e)
        continue
    }
}

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 */

package kotlin

import kotlin.internal.InlineOnly

/**
 * Returns a hash code value for the object or zero if the object is `null`.
 * @see Any.hashCode
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun Any?.hashCode(): Int = this?.hashCode() ?: 0

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 */

package kotlin

/**
 * Represents a version of the Kotlin standard library.
 * @constructor
 */
@SinceKotlin("1.1")
public class KotlinVersion(val major: Int, val minor: Int, val patch: Int) :
    Comparable<KotlinVersion> {
    /**
     * Creates a version from all three components.
     */
    public constructor(major: Int, minor: Int, patch: Int) : this(major, minor, 0)

    private val version = versionOf(major, minor, patch)

    private fun versionOf(major: Int, minor: Int, patch: Int): Int {
        require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {
            "Version components are out of range: $major.$minor.$patch"
        }
        return major.shl(16) + minor.shl(8) + patch
    }

    /**
     * Returns the string representation of this version
     */
    override fun toString(): String = "$major.$minor.$patch"

    override fun equals(other: Any?): Boolean {
        if (this === other) return true
        val otherVersion = (other as? KotlinVersion) ?: return false
        return this.version == otherVersion.version
    }

    override fun hashCode(): Int = version

    /**
     * Returns this version as a companion object.
     */
    companion object {
        /**
         * Returns the current version of the Kotlin standard library.
         */
        @kotlin.jvm.JvmField
        public val CURRENT: KotlinVersion = KotlinVersion(1, 4, 0) // value is written here automatically during build

        /**
         * Returns the current version of the Kotlin standard library.
         */
        @kotlin.jvm.JvmName("LazyKt")
        @kotlin.jvm.JvmMultifileClass
        package kotlin
    }

*/

@file:kotlin.jvm.JvmName("LateinitKt")
@file:kotlin.jvm.JvmMultifileClass

package kotlin

import kotlin.internal.InlineOnly
import kotlin.reflect.KProperty0

/**
 * Returns `true` if this lateinit property has been assigned a value, and `false`
 * otherwise.
 * @receiver
 */
@SinceKotlin("1.2")
@InlineOnly
inline val @receiver:AccessibleLateinitPropertyLiteral KProperty0<*>.isInitialized: Boolean
    get() = throw NotImplementedError("Implementation is intrinsic")
/**
 * Represents a value with lazy initialization.
 *
 * To create an instance of [Lazy] use the [lazy] function.
 * It gets the lazily initialized value of the current Lazy instance.
 * Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.
 * Returns `true` if a value for this Lazy instance has been already initialized, and `false` otherwise.
 * Once this function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.
 * A new instance of the [Lazy] that is already initialized with the specified `value`.
 * An extension to delegate a read-only property of type `T` to an instance of [Lazy].
 * This extension allows to use instances of Lazy for property delegation.
 * Locks are used to ensure that only a single thread can initialize the [Lazy] instance.
 * Initializer function can be called several times on concurrent access to uninitialized [Lazy] instance value.
 * but only the first returned value will be used as the value of [Lazy] instance.
 * No locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple threads, its behavior is undefined.
 * This mode should not be used unless the [Lazy] instance is guaranteed never to be initialized from more than one thread.
 * UNINITIALIZED_VALUE
 * internal to be called from lazy in JS\internal class UnsafeLazyImpl
 * overrides override val get() { return _value as T }
 * override fun get(): Int
 * UNINITIALIZED_VALUE
 * override fun toString(): String = if (isInitialized()) UninitializedLazyImpl(value)
 * override fun toString(): String = if (isInitialized()) UninitializedLazyImpl(value)
 * rotateString(): String = if (isInitialized()) rotateString()
 * return _value as T
 * override fun get(): Int
 * return _value as T
 * override fun toString(): String = if (isInitialized()) toString()
 * internal class UnsafeLazyImpl
 * override fun get(): Int
 * return _value as T
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("NumbersKt")
package kotlin

/**
 * Counts the number of set bits in the binary representation of this [Int] number.
 */
public expect fun Int.countOneBits(): Int

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.
 */
public expect fun Int.countLeadingZeroBits(): Int

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.
 */
public expect fun Int.countTrailingZeroBits(): Int

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number.
 */
public expect fun Int.takeHighestOneBit(): Int

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number.
 */
public expect fun Int.takeLowestOneBit(): Int

/**
 * Rotates the binary representation of this [Int] number left by the specified number of bits.
 * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.
 */
public expect fun Int.rotateCount(): Int

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("NumbersKt")
right by the negated bit count:

\[ \text{number.rotateLeft}(-n) = \text{number.rotateRight}(n) \]

* Rotating by a multiple of \([\text{Int.SIZE_BITS}]\) (32) returns the same number, or more generally:

\[ \text{number.rotateLeft}(n \mod 32) = \text{number.rotateLeft}(n) \]

* Rotating by a multiple of \([\text{Int.SIZE_BITS}]\) (32) returns the same number, or more generally:

\[ \text{number.rotateRight}(n \mod 32) = \text{number.rotateRight}(n) \]

* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.

* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:

\[ \text{number.rotateRight}(-n) = \text{number.rotateLeft}(n) \]

* Rotating by a multiple of \([\text{Int.SIZE_BITS}]\) (32) returns the same number, or more generally:

\[ \text{number.rotateRight}(n \mod 32) = \text{number.rotateRight}(n) \]

* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.

* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:

\[ \text{number.rotateRight}(-n) = \text{number.rotateLeft}(n) \]

* Rotating by a multiple of \([\text{Int.SIZE_BITS}]\) (32) returns the same number, or more generally:

\[ \text{number.rotateRight}(n \mod 32) = \text{number.rotateRight}(n) \]

* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.

* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:

\[ \text{number.rotateRight}(-n) = \text{number.rotateLeft}(n) \]

* Rotating by a multiple of \([\text{Int.SIZE_BITS}]\) (32) returns the same number, or more generally:

\[ \text{number.rotateRight}(n \mod 32) = \text{number.rotateRight}(n) \]

* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.

* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:

\[ \text{number.rotateRight}(-n) = \text{number.rotateLeft}(n) \]

* Rotating by a multiple of \([\text{Int.SIZE_BITS}]\) (32) returns the same number, or more generally:

\[ \text{number.rotateRight}(n \mod 32) = \text{number.rotateRight}(n) \]

* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.

* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:

\[ \text{number.rotateRight}(-n) = \text{number.rotateLeft}(n) \]

* Rotating by a multiple of \([\text{Int.SIZE_BITS}]\) (32) returns the same number, or more generally:

\[ \text{number.rotateRight}(n \mod 32) = \text{number.rotateRight}(n) \]

* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.

* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:

\[ \text{number.rotateRight}(-n) = \text{number.rotateLeft}(n) \]

* Rotating by a multiple of \([\text{Int.SIZE_BITS}]\) (32) returns the same number, or more generally:

\[ \text{number.rotateRight}(n \mod 32) = \text{number.rotateRight}(n) \]
```kotlin
public inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()/* Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number,\n or zero, if this number is zero.\n*/

public inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()/* Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.\n The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:
 * number.rotateLeft(-n) == number.rotateRight(n)\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\n * number.rotateLeft(n) == number.rotateLeft(n % 8)\n*/

public inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()/* Returns a number having a single bit set in the position of the least significant set bit of this [Short] number,\n or zero, if this number is zero.\n*/

public inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()/* Rotates the binary representation of this [Short] number left by the specified [bitCount] number of bits.\n The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:
 * number.rotateLeft(-n) == number.rotateRight(n)\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\n * number.rotateLeft(n) == number.rotateLeft(n % 16)\n*/
```

---

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number.rotateRight(-n) == number.rotateLeft(n) * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally

number.rotateRight(n) == number.rotateRight(n % 16)

@SinceKotlin("1.3")@ExperimentalStdlibApi
public fun Short.rotateRight(bitCount: Int): Short

(toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()"/
/*
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 */

@file:kotlin.jvm.JvmName("TuplesKt")

package kotlin

/**
 * Represents a generic pair of two values.
 *
 * There is no meaning attached to values in this class, it can be used for any purpose.
 * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.
 * An example of decomposing it into values:
 * @param A type of the first value.
 * @param B type of the second value.
 * @constructor
 * Creates a new instance of Pair.
 */
public data class Pair<out A, out B>(
    public val first: A,
    public val second: B
) : Serializable {

    /**
     * Returns string representation of the [Pair] including its [first] and [second] values.
     */
    public override fun toString(): String = "($first, $second)"

    companion object {
        /** An empty range of values of type UInt. */

        public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)
    }
}

/**
 * A progression of values of type `UInt`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public class UIntRange(start: UInt, endInclusive: UInt)

: UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {
    override val start: UInt get() = first
    override val endInclusive: UInt get() = last

    override fun contains(value: UInt): Boolean = first <= value && value <= last

    override fun isEmpty(): Boolean = first > last

    override fun equals(other: Any?): Boolean =
        other is UIntRange && (isEmpty() && other.isEmpty() ||
                first == other.first && last == other.last)

    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())

    override fun toString(): String = "$first..$last"

    companion object {
        /** An empty range of values of type UInt. */

        public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)
    }
}

/**
 * A progression of values of type `UInt`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public class UIntProgression

internal constructor(
    start: UInt,
    endInclusive: UInt,
    step: Int
) : Iterable<UInt>
init (\n   if (step == 0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.") \n   if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\") \n ) \n /* The first element in the progression. */ \n \n /* A public val first: UInt = start\n */ \n /* The last element in the progression. */ \n /* A public val last: UInt = \n getProgressionLastElement(start, endInclusive, step) */ \n /* The step of the progression. */ \n /* A public val step: Int = step\n override fun iterator(): UIntIterator = UIntProgressionIterator(first, last, step) */

Checks if the progression is empty. *A public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n override fun equals(other: Any?): Boolean = \n other is UIntProgression && \n other.isEmpty() \n || \n first == other.first && \n last == other.last && \n step == other.step

fun hashCode(): Int = \n if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())

toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step $(-step)"

companion object {
    /**
     * Creates UIntProgression within the specified bounds of a closed range.\n     * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n     * In order to go backwards the [step] must be negative.\n     * [step] must be greater than Int.MIN_VALUE and not equal to zero.\n     */
    public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)
}

/**
 * An iterator over a progression of values of type `UInt`.\n * @property step the number by which the value is incremented on each step.\n * @property first the first element in the progression.\n * @property last the last element in the progression.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
private class UIntProgressionIterator(first: UInt, last: UInt, step: Int) : UIntIterator() {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private val step = step.toUInt() // use 2-complement math for negative steps
    private var next = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextUInt(): UInt {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }
}

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// Auto-generated file. DO NOT EDIT!

package kotlin.collections

/** An iterator over a sequence of values of type `UByte`.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public abstract class UByteIterator : Iterator<UByte> {
    override final fun next() = nextUByte()

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextUByte(): UByte
}

/** An iterator over a sequence of values of type `UShort`.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public abstract class UShortIterator : Iterator<UShort> {
    override final fun next() = nextUShort()

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextUShort(): UShort
}

/** An iterator over a sequence of values of type `UInt`.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public abstract class UIntIterator : Iterator<UInt> {
    override final fun next() = nextUInt()

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextUInt(): UInt
}

/** An iterator over a sequence of values of type `ULong`.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public abstract class ULongIterator : Iterator<ULong> {
    override final fun next() = nextULong()

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextULong(): ULong
}

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// Auto-generated file. DO NOT EDIT!

package kotlin.ranges

import kotlin.internal.*

/**
 * A range of values of type `ULong`.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public class ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1), ClosedRange<ULong> {
    override fun val start: ULong get() = first
    override val endInclusive: ULong get() = last
    override fun contains(value: ULong): Boolean = first <= value && value <= last
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean = \n other is ULongRange && (isNotEmpty() && other.isNotEmpty) || \n first == other.first && last == other.last
    override fun hashCode(): Int = \n if (isEmpty()) -1 else (31 * (first xor (first shr 32))).toInt() +
/** A progression of values of type `ULong`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public open class ULongProgression
internal constructor(
    start: ULong,
    endInclusive: ULong,
    step: Long
) :
    Iterable<ULong> {
    init {
        if (step == 0.toLong()) throw kotlin.IllegalArgumentException("Step must be non-zero.")
        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Long.MIN_VALUE to avoid overflow on negation.")
        // The first element in the progression.
        public val first: ULong = start
        // The last element in the progression.
        public val last: ULong = getProgressionLastElement(start, endInclusive, step)
        // The step of the progression.
        public val step: Long = step
    }

    override fun iterator(): ULongIterator = ULongProgressionIterator(first, last, step)

    /** Checks if the progression is empty. */
    public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last

    override fun equals(other: Any?): Boolean =
        other is ULongProgression && (isEmpty() && other.isEmpty() ||
            first == other.first && last == other.last && step == other.step)

    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())

    override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"

    companion object {
        /** An empty range of values of type ULong. */
        public val EMPTY: ULongRange =
            ULongRange(ULong.MAX_VALUE, ULong.MIN_VALUE)
    }
}

/**
 * A progression of values of type `ULong`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public open class ULongProgression
internal constructor(
    start: ULong,
    endInclusive: ULong,
    step: Long
) :
    Iterable<ULong> {
    init {
        if (step == 0.toLong()) throw kotlin.IllegalArgumentException("Step must be non-zero.")
        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Long.MIN_VALUE to avoid overflow on negation.")
        // The first element in the progression.
        public val first: ULong = start
        // The last element in the progression.
        public val last: ULong = getProgressionLastElement(start, endInclusive, step)
        // The step of the progression.
        public val step: Long = step
    }

    override fun iterator(): ULongIterator = ULongProgressionIterator(first, last, step)

    /** Checks if the progression is empty. */
    public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last

    override fun equals(other: Any?): Boolean =
        other is ULongProgression && (isEmpty() && other.isEmpty() ||
            first == other.first && last == other.last && step == other.step)

    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())

    override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"

    companion object {
        /**
         * Creates ULongProgression within the specified bounds of a closed range.
         * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].
         * In order to go backwards the [step] must be negative.
         * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.
         */
        public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)
    }
}

/**
 * An iterator over a progression of values of type `ULong`.
 * @property step the number by which the value is incremented on each step.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
private class ULongProgressionIterator(first: ULong, last: ULong, step: Long) :
    ULongIterator() {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private val step = step.toULong() // use 2-complement math for negative steps
    private var next = if (hasNext) first else
        finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextULong(): ULong {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }
}

package kotlin.math

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun min(a: UInt, b: UInt): UInt {
    return minOf(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun min(a: ULong, b: ULong): ULong {
    return minOf(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun max(a: UInt, b: UInt): UInt {
    return maxOf(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun max(a: ULong, b: ULong): ULong {
    return maxOf(a, b)
}

package kotlin

/**
 * Counts the number of set bits in the binary representation of this [UInt] number.
 */
@SinceKotlin("1.3")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.countOneBits(): Int = toInt().countOneBits()

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UInt] number.
 */
@SinceKotlin("1.3")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.countTrailingZeros(): Int = toInt().countTrailingZeros()

package kotlin

/**
 * Counts the number of set bits in the binary representation of this [ULong] number.
 */
@SinceKotlin("1.3")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULong.countOneBits(): Int = toLong().countOneBits()

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.
 */
@SinceKotlin("1.3")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULong.countTrailingZeros(): Int = toLong().countTrailingZeros()

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@kotlin.internal.InlineOnly
@public inline fun UInt.countLeadingZeroBits(): Int =
toInt().countLeadingZeroBits()\n
*`@SinceKotlin("1.4")`*\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun UInt.countTrailingZeroBits(): Int =
toInt().countTrailingZeroBits()\n
*`@SinceKotlin("1.4")`*\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun UInt.takeHighestOneBit(): UInt =
toInt().takeHighestOneBit()\n
*`@SinceKotlin("1.4")`*\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun UInt.takeLowestOneBit(): UInt =
toInt().takeLowestOneBit()\n
*`@SinceKotlin("1.4")`*\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun UInt.rotateLeft(bitCount: Int): UInt =
toInt().rotateLeft(bitCount)\n
*`@SinceKotlin("1.3")`*\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun UInt.rotateRight(bitCount: Int): UInt =
toInt().rotateRight(bitCount)\n
*`@SinceKotlin("1.4")`*\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULong.countOneBits(): Int =
toLong().countOneBits()\n
*`@SinceKotlin("1.4")`*\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULong.countLeadingZeroBits(): Int =
toLong().countLeadingZeroBits()\n
*`@SinceKotlin("1.4")`*\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULong.countTrailingZeroBits(): Int =
toLong().countTrailingZeroBits()\n
*`@SinceKotlin("1.4")`*\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULong.takeHighestOneBit(): ULong =
toLong().takeHighestOneBit()\n
*`@SinceKotlin("1.4")`*\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULong.takeLowestOneBit(): ULong =
toLong().takeLowestOneBit()\n
*`@SinceKotlin("1.4")`*\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULong.rotateLeft(bitCount: Int): ULong =
toLong().rotateLeft(bitCount)\n
*`@SinceKotlin("1.3")`*\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULong.rotateRight(bitCount: Int): ULong =
toLong().rotateRight(bitCount)
by the specified [bitCount] number of bits. The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side. Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count: `number.rotateLeft(-n) == number.rotateRight(n)`

Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally:

`number.rotateLeft(n) == number.rotateLeft(n % 64)`

`An@SinceKotlin("1.3") in@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly
@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly

public inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong() * Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits. The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.

`number.rotateRight(-n) == number.rotateLeft(n)`

Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally:

`number.rotateRight(n) == number.rotateRight(n % 64)`

`An@SinceKotlin("1.3") in@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly
@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly

public inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong() * Counts the number of set bits in the binary representation of this [ULong] number.

`An@SinceKotlin("1.4") in@WasExperimental(ExperimentalStdlibApi::class) in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly
@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly

public inline fun UByte.countOneBits(): Int = toUInt().countOneBits() * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UByte] number.

`An@SinceKotlin("1.4") in@WasExperimental(ExperimentalStdlibApi::class) in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly
@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly

public inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits() * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.

`An@SinceKotlin("1.4") in@WasExperimental(ExperimentalStdlibApi::class) in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly
@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly

public inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits() * Returns a number having a single bit set in the position of the most significant set bit of this [UByte] number, or zero, if this number is zero.

`An@SinceKotlin("1.4") in@WasExperimental(ExperimentalStdlibApi::class) in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly
@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly

public inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte() * Returns a number having a single bit set in the position of the least significant set bit of this [UByte] number, or zero, if this number is zero.

`An@SinceKotlin("1.4") in@WasExperimental(ExperimentalStdlibApi::class) in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly
@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly

public inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte() * Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits. The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side. Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count: `number.rotateLeft(-n) == number.rotateRight(n)`

Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally:

`number.rotateLeft(n) == number.rotateLeft(n % 8)`

`An@SinceKotlin("1.3") in@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly
@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly

public inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte() * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits. The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.

`number.rotateRight(-n) == number.rotateLeft(n)`

Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally:

`number.rotateRight(n) == number.rotateRight(n % 8)`

`An@SinceKotlin("1.3") in@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly
@ExperimentalStdlibApi in@ExperimentalUnsignedTypes in@kotlin.internal.InlineOnly

public inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()
Counts the number of set bits in the binary representation of this [UShort] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.countOneBits(): Int = toUInt().countOneBits()

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UShort] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.countLeadingZeroBits(): Int = toShort().countLeadingZeroBits()

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UShort] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.countTrailingZeroBits(): Int = toShort().countTrailingZeroBits()

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [UShort] number,\n * or zero, if this number is zero.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.takeHighestOneBit(): UShort = toInt().takeHighestOneBit().toUShort()

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [UShort] number,\n * or zero, if this number is zero.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.takeLowestOneBit(): UShort = toInt().takeLowestOneBit().toUShort()

/**
 * Rotates the binary representation of this [UShort] number left\n * by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter\n * the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the\n * same as rotating it right by the negated bit count:\n * number.rotateLeft(-n) == number.rotateRight(n)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()

/**
 * Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.
 * The least significant bits pushed out from the right side reenter\n * the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is the\n * same as rotating it left by the negated bit count:\n * number.rotateRight(-n) == number.rotateLeft(n)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()

private fun differenceModulo(a: UInt, b: UInt, c: UInt): UInt {
    val ac = a % c
    val bc = b % c
    return if (ac >= bc) ac - bc else ac - bc + c
}

private fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {
    val ac = a % c
    val bc = b % c
    return if (ac >= bc) ac - bc else ac - bc + c
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the\n * progression which is in the range from [start] to [end] in case of a positive [step],\n * or from [end] to [start] in case of a negative [step].\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n * (ac >= bc) ac - bc else ac - bc + c\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the\n * progression which is in the range from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative [step].\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n * (ac >= bc) ac - bc else ac - bc + c\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress

@PublishedApi
@SinceKotlin("1.3")
unaryfun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {
    \n - step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())
    \n - step < 0 -> if (start <= end) end else end - differenceModulo(end, start, step.toUInt())
    \n - step = 0 -> end
  ```
step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toInt())
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range
 * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative [step].
 * No validation on passed parameters is performed. The given parameters should satisfy the condition:
 * - either `step > 0` and `start <= end`,
 * - or `step < 0` and `start >= end`.
 * @param start first element of the progression
 * @param end ending bound for the progression
 * @param step increment, or difference of successive elements in the progression
 * @return the final element of the progression
 * @suppress
 */
@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toULong())
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}

/*
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 */

@file:kotlin.jvm.JvmName("UStringsKt") // string representation of unsigned numbers

package kotlin.text

/**
 * Returns a string representation of this [Byte] value in the specified [radix].
 * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)

/**
 * Returns a string representation of this [Short] value in the specified [radix].
 * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)

/**
 * Returns a string representation of this [Int] value in the specified [radix].
 * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)

/**
 * Returns a string representation of this [Long] value in the specified [radix].
 * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))

/**
 * Parses the string as a signed [UByte] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUByte(): UByte = toUByteOrNull() ?: numberFormatException(this)

/**
 * Parses the string as a signed [UByte] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatException(this, radix)

/**
 * Parses the string as an [UInt] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUInt(): UInt = toUIntOrNull() ?: numberFormatException(this)

/**
 * Parses the string as an [UInt] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUInt(radix: Int): UInt = toUIntOrNull(radix) ?: numberFormatException(this, radix)

/**
 * Parses the string as a [UShort] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShort(): UShort = toUShortOrNull() ?: numberFormatException(this)

/**
 * Parses the string as a [UShort] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatException(this, radix)
illegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUInt(radix: Int): UInt =
toUIntOrNull(radix) ?: numberFormatError(this)\n
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toULong(): ULong =
toULongOrNull() ?: numberFormatError(this)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUIntOrNull(radix: Int): UInt =
toUIntOrNull(radix) ?: numberFormatError(this)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toULongOrNull(radix: Int): ULong =
toULongOrNull(radix) ?: numberFormatError(this)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUByteOrNull(): UByte? =
toUByteOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUShortOrNull(): UShort? =
toUShortOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUIntOrNull(radix: Int): UInt =
toUIntOrNull(radix) ?: numberFormatError(this)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toULongOrNull(radix: Int): ULong =
toULongOrNull(radix) ?: numberFormatError(this)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUByteOrNull(radix: Int): UByte? =
toUByteOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUShortOrNull(radix: Int): UShort? =
toUShortOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUIntOrNull(radix: Int): UInt =
toUIntOrNull(radix) ?: numberFormatError(this)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toULongOrNull(radix: Int): ULong =
toULongOrNull(radix) ?: numberFormatError(this)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUByteOrNull(radix: Int): UByte? =
toUByteOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUShortOrNull(radix: Int): UShort? =
toUShortOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUIntOrNull(radix: Int): UInt =
toUIntOrNull(radix) ?: numberFormatError(this)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toULongOrNull(radix: Int): ULong =
toULongOrNull(radix) ?: numberFormatError(this)\n
IllegalStateException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUInt(radix: Int): UInt =
toUIntOrNull(radix) ?: numberFormatError(this)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toULong(): ULong =
toULongOrNull() ?: numberFormatError(this)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUByteOrNull(): UByte? =
toUByteOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUShortOrNull(): UShort? =
toUShortOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUIntOrNull(): UInt? =
toUIntOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toULongOrNull(radix: Int): ULong? =
toULongOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUByteOrNull(radix: Int): UByte? =
toUByteOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUShortOrNull(radix: Int): UShort? =
toUShortOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUIntOrNull(radix: Int): UInt? =
toUIntOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toULongOrNull(radix: Int): ULong? =
toULongOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

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toUByteOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

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toUShortOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

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toUIntOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

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toULongOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUByteOrNull(radix: Int): UByte? =
toUByteOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUShortOrNull(radix: Int): UShort? =
toUShortOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUIntOrNull(radix: Int): UInt? =
toUIntOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toULongOrNull(radix: Int): ULong? =
toULongOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUByteOrNull(radix: Int): UByte? =
toUByteOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUShortOrNull(radix: Int): UShort? =
toUShortOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

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toUIntOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

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toULongOrNull(radix = 10)\n
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toUByteOrNull(radix = 10)\n
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toUIntOrNull(radix = 10)\n
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toULongOrNull(radix = 10)\n
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*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUByteOrNull(radix: Int): UByte? =
toUByteOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\public fun String.toUShortOrNull(radix: Int): UShort? =
toUShortOrNull(radix = 10)\n
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
radix.toULong() \n  var result = 0uL \n  for (i in start until length) \n      val digit = digitOf(this[i], radix) \n      if (digit < 0) return null \n      if (result > limitBeforeMul) \n        limitBeforeMul = limit / uradix \n        if (result > limitBeforeMul) \n          return null \n        limitBeforeMul = limit / uradix \n      \n      result *= uradix \n      result += digit.toUInt() \n    \n  if (result < beforeAdding) return null \n  return result

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 * *
 * @file:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n * @package kotlin\n * @n
 * kotlin.annotation.AnnotationTarget.*\n * kotlin.internal.RequireKotlin\n * kotlin.internal.RequireKotlinVersionKind\n * *\n * Marks the API that is dependent on the experimental unsigned types, including those types themselves.\n * It's recommended to propagate the experimental status to the API that depends on unsigned types by annotating it with this annotation.\n * *
 * @file:kotlin.jvm.JvmMultifileClass\n * @file:kotlin.jvm.JvmName("MathKt")\n * *
 * package kotlin.math\n * *
 * // constants, can't use them from nativeMath as they are not constants there\n * // constants, can't use them from nativeMath as they are not constants there\n * // constants, can't use them from nativeMath as they are not constants there\n * // constants, can't use them from nativeMath as they are not constants there\n * // region ================\n * Double Math ========================================\n * *
 * @SinceKotlin("1.2")\n * public const val PI: Double = 3.141592653589793\n * *
 * @SinceKotlin("1.2")\n * public const val E: Double = 2.718281828459045\n * *
 * // region ================\n * Double Math ========================================\n * *
 * Returns the angle 'theta' of the polar coordinates '(r, theta)' that correspond to the rectangular coordinates '(x, y)' by computing the arc tangent of the value [y] / [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n * Returns the angle 'theta' of the polar coordinates '(r, theta)' that correspond to the rectangular coordinates '(x, y)' by computing the arc tangent of the value [y] / [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n */

@SinceKotlin("1.2")
public expect fun atan2(y: Double, x: Double): Double

/**
 * Computes the hyperbolic sine of the value [x].\n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `-Inf`\n */
@SinceKotlin("1.2")
public expect fun sinh(x: Double): Double

/**
 * Computes the hyperbolic cosine of the value [x].\n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf)` is `+Inf`\n */
@SinceKotlin("1.2")
public expect fun cosh(x: Double): Double

/**
 * Computes the hyperbolic tangent of the value [x].\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n */
@SinceKotlin("1.2")
public expect fun tanh(x: Double): Double

/**
 * Computes the inverse hyperbolic sine of the value [x].\n * The returned value is `y` such that `sinh(y) == x`.\n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * - `asinh(-Inf)` is `-Inf`\n */
@SinceKotlin("1.2")
public expect fun asinh(x: Double): Double

/**
 * Computes the inverse hyperbolic cosine of the value [x].\n * The returned value is positive `y` such that `cosh(y) == x`.\n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(+Inf)` is `+Inf`\n */
@SinceKotlin("1.2")
public expect fun acosh(x: Double): Double

/**
 * Computes the inverse hyperbolic tangent of the value [x].\n * The returned value is `y` such that `tanh(y) == x`.\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `+1.0`\n * - `tanh(-Inf)` is `-1.0`\n */
@SinceKotlin("1.2")
public expect fun atanh(x: Double): Double

/**
 * Computes the hyperbolic cosine of the value [x].\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n * - `expm1(-Inf)` is `-Inf`\n */
@SinceKotlin("1.2")
public expect fun expm1(x: Double): Double

/**
 * Computes Euler's number `e` raised to the power of the value [x].\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-Inf)` is `0.0`\n */
@SinceKotlin("1.2")
public expect fun exp(x: Double): Double

/**
 * Computes the natural logarithm (base `E`) of the value [x].\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(+Inf)` is `+Inf`\n */
@SinceKotlin("1.2")
public expect fun ln(x: Double): Double

/**
 * Computes the logarithm of the value [x] to the given [base].\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * - `log(x, b)` is `0.0` when `x < 0` or `b <= 0` or `b == 1.0`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `-Log(1.0)` for `b < 1`\n */
@SinceKotlin("1.2")
public expect fun log(x: Double, base: Double): Double

/**
 * Computes the binary logarithm (base 2) of the value [x].\n * Special cases:\n * - `log2(x)` is `NaN` when `x < 0` or `x` is `NaN`\n * - `log2(+Inf)` is `+Inf`\n * - `log2(-Inf)` is `-Inf`\n */
@SinceKotlin("1.2")
public expect fun log2(x: Double): Double

/**
 * Computes the common logarithm (base 10) of the value [x].\n * Special cases:\n * - `log10(x)` is `NaN` when `x < 0` or `x` is `NaN`\n * - `log10(+Inf)` is `+Inf`\n */
@SinceKotlin("1.2")
public expect fun log10(x: Double): Double

/**
 * Computes the square root of the value [x].\n * Special cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n * - `sqrt(+Inf)` is `+Inf`\n */
@SinceKotlin("1.2")
public expect fun sqrt(x: Double): Double

/**
 * Computes the greatest common divisor of the values [x] and [y].\n * Special cases:\n * - `gcd(x, y)` is `NaN` when `x` or `y` is `NaN`\n * - `gcd(+Inf, +Inf)` is `+Inf`\n * - `gcd(+Inf, -Inf)` is `-Inf`\n * - `gcd(-Inf, +Inf)` is `+Inf`\n */
@SinceKotlin("1.2")
public expect fun gcd(x: Double, y: Double): Double

/**
 * Computes the least common multiple of the values [x] and [y].\n * Special cases:\n * - `lcm(x, y)` is `NaN` when `x` or `y` is `NaN`\n * - `lcm(+Inf, +Inf)` is `+Inf`\n * - `lcm(+Inf, -Inf)` is `-Inf`\n * - `lcm(-Inf, +Inf)` is `+Inf`\n */
@SinceKotlin("1.2")
public expect fun lcm(x: Double, y: Double): Double

/**
 * Computes the natural logarithm (base 'E') of the value [x].\n * Special cases:\n * - `ln1p(x)` is `NaN` when `x < -1.0`\n * - `ln1p(1.0)` is `-Inf`\n */
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double

/**
 * Computes the natural logarithm (base 'E') of the value [x].\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(+Inf)` is `+Inf`\n */
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double

/**
 * Computes the common logarithm (base 10) of the value [x].\n * Special cases:\n * - `log1p(x)` is `NaN` when `x < -1.0`\n * - `log1p(1.0)` is `-Inf`\n */
@SinceKotlin("1.2")
public expect fun log1p(x: Double): Double

fractional part truncated.
* \*n * Special cases:
* - \`truncate(x)` is `\text{x}` where `\text{x}` is `\text{NaN}` or `\text{+Inf}` or `\text{-Inf}` or already a mathematical integer.
* \*n * @SinceKotlin("1.2.2")\nclass\npublic\nexpect\nfun\ntrunc\nate(x: Double): Double

// endregion

// endregion

---
logarithm (base 'E') of the value \([x]\).\n * Special cases:\n * - \(\ln(\text{NaN})\) is `NaN`\n * - \(\ln(x)\) is `NaN` when \(x < 0.0\)\n * - \(\ln(+\text{Inf})\) is `+\text{Inf}`\n * - \(\ln(0.0)\) is `-\text{Inf}`\n *
 * Computes the common logarithm (base 10) of the value \([x]\).\n * Special cases:\n * - \(\ln(0.0)\) is `-Inf`
 * - \(\ln(+\text{Inf})\) is `+Inf`
 * - \(\ln(\text{NaN})\) is `NaN`
 * - \(\ln(-\text{Inf})\) is `-Inf`
 *
 * Computes the binary logarithm (base 2) of the value \([x]\).\n * Special cases:\n * - \(\ln(x)\) is `NaN` when \(x < 0.0\)
 * - \(\ln(+\text{Inf})\) is `+Inf`
 * - \(\ln(0.0)\) is `-Inf`
 *
 * Computes \(\ln(1 + x)\)\n * Special cases:\n * - \(\ln(0.0)\) is `-Inf`
 * - \(\ln(+\text{Inf})\) is `+Inf`
 * - \(\ln(-\text{Inf})\) is `-Inf`

*\n
@SinceKotlin("1.2")
public expect fun ln(x: Float): Float

/**
 * Computes `\ln(a + 1)`\n * Special cases:\n * - \(\ln(1 + x)\) is `x` where \(x\) is `NaN`\n * or `+\text{Inf}` or `-\text{Inf}` or already a mathematical integer.`\n *
 * Rounds the given value \([x]\) to an integer towards positive infinity.\n * @return the smallest float value that is greater than or equal to the
 * given value \([x]\) and is a mathematical integer.\n *
 * Rounds the given value \([x]\) to an integer towards negative infinity.\n * @return the largest float value that is smaller than or equal to the
 * given value \([x]\) and is a mathematical integer.\n *
 * Rounds the given value \([x]\) to an integer towards zero.\n * @return the value \([x]\) having its fractional part truncated.\n *
 * Rounds the value \([x]\) to the nearest integer with ties rounded towards even integer.`\n *
 * Returns the smaller of two values.\n * If either value is `NaN`, then the result is `NaN`.\n *
 * Returns the greater of two values.\n * If either value is `NaN`, then the result is `NaN`.\n *
 * Returns the absolute value of the given value \([x]\).\n *
 * @see absoluteValue extension property for [Float]\n *
 * Returns the sign of the given value \([x]\).\n * - `1.0` if the value is positive,\n * - `-1.0` if the value is zero,\n * - `-1.0` if the value is positive\n *
 * Special cases:\n * - `sign(\text{NaN})` is `NaN`\n *
 * Returns the smaller of two values.\n * If either value is `NaN`, then the result is `NaN`.\n *
 * Returns the greater of two values.\n * If either value is `NaN`, then the result is `NaN`.\n *
 * Returns the absolute value of this value.\n *
 * @see abs function\n *
 * Returns the sign of the given value.\n * - `-1.0` if the value is negative,\n * - `1.0` if the value is zero,\n * - `1.0` if the value is positive\n *
 * Special cases:\n * - `\text{NaN}.sign` is `NaN`\n *
 * Returns this value with the sign bit same as of the [sign] value.\n * If [sign] is `NaN` the sign of the result is undefined:\n *
 * Returns this value with the sign bit same as of the [sign] value.\n *
 * Ties are rounded towards positive infinity.\n *
 * Returns the value to the nearest integer and converts the result to [Int]\n *
 * Ties are rounded towards positive infinity.\n *
 * Returns the value to the nearest integer and converts the result to [Long]\n *
 * Ties are rounded towards positive infinity.\n *
 * Special cases:\n * - `x.roundToLong()` == `Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToLong()` == `Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n * @throws IllegalArgumentConversionException when this value is `NaN`\n *
 * Returns this value with the sign bit same as of the [sign] value.\n *
 * Ties are rounded towards positive infinity.\n *
 * Returns the value to the nearest integer and converts the result to [Int]\n *
 * Ties are rounded towards positive infinity.\n *
 * Returns the value to the nearest integer and converts the result to [Long]\n *
 * Ties are rounded towards positive infinity.\n *
 * Returns the value to the nearest integer and converts the result to [Long]\n *
 * Ties are rounded towards positive infinity.\n *
Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n * `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n * `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow

```kotlin
@SinceKotlin("1.2")
public expect fun Float.roundToLong(): Long

@SinceKotlin("1.2")
public expect fun abs(n: Int): Int

@SinceKotlin("1.2")
public expect fun min(a: Int, b: Int): Int

@SinceKotlin("1.2")
public expect fun max(a: Int, b: Int): Int

@SinceKotlin("1.2")
public expect val Int.absoluteValue: Int

@SinceKotlin("1.2")
public expect val Int.sign: Int

@SinceKotlin("1.2")
public expect fun abs(n: Long): Long

@SinceKotlin("1.2")
public expect fun min(a: Long, b: Long): Long

@SinceKotlin("1.2")
public expect fun max(a: Long, b: Long): Long

@SinceKotlin("1.2")
public expect val Long.absoluteValue: Long

@SinceKotlin("1.2")
public expect val Long.sign: Int
```

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.6188 babel-plugin-dynamic-import-node

2.3.3

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1.6189 org.apache.servicemix.bundles.jaxb-api-2.0 4.0-m1

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Automated Testing Framework

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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  */opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources.jar/io/vertx/micrometer/PrometheusScrapingHandler.java
  */opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources.jar/io/vertx/micrometer/impl/PrometheusScrapingHandlerImpl.java

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* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources.jar/io/vertx/micrometer/impl/MicrometerMetrics.java

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* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources.jar/io/vertx/micrometer/impl/VertxMetricsFactoryImpl.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources.jar/io/vertx/micrometer/impl/VertxHttpClientMetrics.java
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jar/io/vertx/micrometer/impl/VertxEventBusMetrics.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-jar/io/vertx/micrometer/impl/VertxNetClientMetrics.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-jar/io/vertx/micrometer/MetricsDomain.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-jar/io/vertx/micrometer/impl/VertxNetServerMetrics.java
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io.vertx.micrometer.impl.VertxMetricsFactoryImpl

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* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-jar/META-INF/services/io.vertx.core.spi.VertxServiceProvider
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* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-
jar/io/vertx/micrometer/impl/meters/Timers.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-
jar/io/vertx/micrometer/backends/InfluxDbBackendRegistry.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-
jar/io/vertx/micrometer/backends/NoopBackendRegistry.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-
jar/io/vertx/micrometer/impl/meters/Counters.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-
jar/io/vertx/micrometer/backends/PrometheusBackendRegistry.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-
jar/io/vertx/micrometer/backends/JmxBackendRegistry.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-
jar/io/vertx/micrometer/backends/BackendRegistry.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-
jar/io/vertx/micrometer/backends/BackendRegistries.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer-metrics-4-2-1-sources-
jar/io/vertx/micrometer/MetricsNaming.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer/metrics/impl/meters/Summaries.java
* /opt/cola/permits/1255018839_1642495818.39/0/vertx-micrometer/metrics/VertxJmxMetricsOptions.java
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jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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 libbz2.dll test program.
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.6199 wso2-carbon-registry-properties-ui

4.6.38

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#require unix-permissions no-root

$ hg init a
$ cd a
$ echo foo > b
$ hg add b
$ hg ci -m "b"

$ chmod -w .hg/store

$ cd ..

$ hg clone a b
requesting all changes
adding changesets
adding manifests
adding file changes
added 1 changesets with 1 changes to 1 files
updating to branch default
1 files updated, 0 files merged, 0 files removed, 0 files unresolved

$ chmod +w a/.hg/store # let test clean up

$ cd b
$ hg verify
checking changesets
checking manifests
crosschecking files in changesets and manifests
checking files
1 files, 1 changesets, 1 total revisions

$ cd ..

Greg Ward, author of the original bfiles extension
Na'Tosha Bard of Unity Technologies
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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.6208 plexus-container-default 1.0-alpha-9-stable-1

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* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/component/configurator/converters/AbstractConfigurationConverter.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/configuration/processor/AbstractConfigurationResourceHandler.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/component/configurator/converters/composite/ObjectWithFieldsConverter.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/component/configurator/converters/basic/ObjectWithFieldsConverter.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/component/configurator/converters/basic/CharConverter.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/component/configurator/converters/basic/BooleanConverter.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/context/DefaultContext.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/configuration/processor/ConfigurationProcessingException.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/component/manager/ClassicSingletonComponentManager.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/lifecycle/DefaultLifecycleHandlerManager.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/component/composition/DefaultCompositionResolver.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/component/configurator/expression/ExpressionEvaluationException.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/component/configurator/AbstractComponentConfigurator.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/SimplePlexusContainerManager.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-
  jar/org/codehaus/plexus/component/configurator/converters/basic/FloatConverter.java
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* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/discovery/PlexusXmlComponentDiscoverer.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/MapOrientedComponentConfigurator.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/composition/MapOrientedComponentComposer.java

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Nitay <nitayj@gmail.com>
-Support for "make check"

William Morgan <w@adap.tv>
-Miscellaneous Ruby improvements

Ben Maurer <bmaurer@andrew.cmu.edu>
-Restructuring the way Autoconf is used

Patrick Collison <patrick@collison.ie>
- Smalltalk bindings

Dave Simpson <dave@powerset.com>
-Better support for connection tracking in the C++ server
-Miscellaneous fixes

Igor Afanasyev <afan@evernote.com>
-Perl HttpClient and bugfixes

Todd Berman <tberman@imeem.com>
-MinGW port of the compiler
-C# bindings
-MS build task

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Release 20070917
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Dave Engberg <engberg@gmail.com>
-JavaBean/JavaDoc enhancements

Andrew McGeachie <geechorama@gmail.com>
-Cocoa/Objective-C support

Ben Maurer <bmaurer@andrew.cmu.edu>
-Python performance enhancements, fastbinary support

Andrew Lutomirski <andy@luto.us>
-Added optional/required keywords for C++ objects
-Added comparison operators for C++ structs

Johan Oskarsson <johan@oksarsson.nu>
-Java findbugs compliance fixes

Paul Saab <ps@powerset.com>
-IPv6 support for TSocket in C++/Python

Kevin Clark <kevin@powerset.com>
-Significant overhaul of Ruby code generation and servers

Simon Forman <sforman@gmail.com>
-TProcessorFactory abstraction for Java servers

Jake Luciani <jakers@gmail.com>
-Perl code generation, libraries, test code

David Reiss <dreiss@stanford.edu>
-strings.h include fix for bzero
- endianness fixes on TBinaryProtocol double serialization
- improved ntohll, htonll implementation

Dan Li <dto@dev.java.net>
- Java TestServer and Tutorial Fixes

Kevin Ko <kevin.s.ko@gmail.com>
- Fix for unnecessary std::string copy construction in Protocol/Exception

Paul Querna <pquerna@apache.org>
- Autoconf error message fix for libevent detection
- clock_gettime implementation for OSX

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Release 20070401
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1.6230 object.getOwnPropertyDescriptor

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1.6249 siddhi-query-compiler 3.2.3
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1.6261 big.js 5.2.2

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1.6269 httpserver 0.12.3

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1.6270 python3-cdiff 1.0-1

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1.6271 registry-auth-token 3.3.2

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1.6272 hk2-api 2.6.1
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1.6281 @babel/plugin-transform-new-target

7.18.6

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@item
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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@item Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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@end subheading END OF TERMS AND CONDITIONS

@page
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@ifinfo
@center END OF TERMS AND CONDITIONS
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```
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```
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```

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Ty Coon, President of Vice
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Version 3, 29 June 2007

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    </div>
  </body>
</html>
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  <a href="faq.html" title="FAQ">FAQ</a>
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  <a href="roadmap.html" title="Roadmap">Roadmap</a>
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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

@example
one line to give the program's name and a brief idea of what it does.

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

@example
Gnomovision version 69, Copyright (C) yyyy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the program, if
necessary. Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
@end example

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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the GPL.

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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directory:
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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^L
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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Version 3, 29 June 2007

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1.6312 gophercloud 0.1.0

1.6312.1 Available under license:

    package RESOURCE

    import {
        "github.com/gophercloud/gophercloud"
        "github.com/gophercloud/gophercloud/pagination"
    }

    // RESOURCE represents...
    type Resource struct {
    }

    type commonResult struct {
        gophercloud.Result
    }

    // GetResult is the response from a Get operation. Call its Extract method
    // to interpret it as a RESOURCE.
    type GetResult struct {
        commonResult
    }

    // CreateResult is the response from a Create operation. Call its Extract method
    // to interpret it as a RESOURCE.
    type CreateResult struct {
        commonResult
    }

    // DeleteResult is the response from a Delete operation. Call its ExtractErr to
    // determine if the request succeeded or failed.
    type DeleteResult struct {
        gophercloud.ErrResult
    }

    // UpdateResult is the result of an Update request. Call its Extract method to
    // interpret it as a RESOURCE.
    type UpdateResult struct {
        commonResult
    }

    // ResourcePage is a single page of RESOURCE results.
    type ResourcePage struct {

Public License instead of this License. But first, please read
// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := r.(ResourcePage).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.
While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

================================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](./.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](./.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

**Types of Pull Requests**

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.
### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests
Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing/step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
```
Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.
Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

**Step 6: Code Review**

Once you've submitted a Pull Request, three things will happen automatically:

1. **Travis-CI** will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. **Coveralls** will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `^[wip]$` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources
required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).
package testing

import (  
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`

// GetResult provides a Get result.
const GetResult = `{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
}
`

// UpdateResult provides an update result.
const UpdateResult = `{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }
// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.Header().Set("Content-Type", "application/json")
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, ListResult)
})
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.Header().Set("Content-Type", "application/json")
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, GetResult)
})
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, CreateRequest)

    w.WriteHeader(http.StatusCreated)
    fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    })
    w.WriteHeader(http.StatusNoContent)
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
    })
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, UpdateResult)
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
if opts != nil {
  query, err := opts.ToResourceListQuery()
  if err != nil {
    return pagination.Pager{Err: err}
  }
  url += query
}
  return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
  _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
  return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
  ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
  ...
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
  return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
  b, err := opts.ToResourceCreateMap()
  if err != nil {
    r.Err = err
    return
  }
  _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
    OkCodes: []int{201},
  })
  return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
_, r.Err = client.Delete(deleteURL(client, id), nil)
return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleListResourcesSuccessfully(t)
    count := 0
    count++
    actual, err := resources.ExtractResources(page)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
    return true, nil
})
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!

========================
At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing
================================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

/*
 Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE
Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

==============

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621).

In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
// go
type Network struct {
    ID   string `json:"id"`
    Name string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
```
```go
type Network struct {
ID            string `json:"id"`
Name          string `json:"name"`
AdminStateUp  bool   `json:"admin_state_up"`
Status        string `json:"status"`
Subnets       []string `json:"subnets"`
TenantID      string `json:"tenant_id"`
Shared        bool   `json:"shared"`
AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191
The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

**Code Hunting Tips**

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

**Step 1: Read Our Guides**

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you’re reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used
in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.6313 grpc-go v1.40.0

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1.6315 kubernetes-client 0.19.4

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1.6316 libboost-thread1.67.0 1.67.0-13+deb10u1

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
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1.6325 python-dateutil 2.6.1-1.ph1
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1.6326 httpcore-nio 4.4.5

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<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
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</head>

<body>

<!-- Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="/foundation">Overview</a></li>

<li><a href="/foundation/members.html">Members</a></li>

<li><a href="/foundation/how-it-works.html">Process</a></li>

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

<li><a href="/foundation/glossary.html">Glossary</a></li>

<li><a href="/foundation/preFAQ.html">FAQ</a></li>

<li><a href="/foundation/contact.html">Contact</a></li>

</ul>

</li>

<li><a href="/index.html#projects-list">Projects</a></li>

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="http://people.apache.org/">Overview</a></li>


<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>

<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>

</ul>

</li>

</ul>

</div>

</div>

</nav>

</header>

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1.6327 x-text 0.3.6

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dtoa.c
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Google SMP Patch

Google SMP patch

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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# unidata-5.2.0.txt
# Date: 2009-09-22, 16:23:42 PDT [KW]
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#
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#
# See UTS #10, Unicode Collation Algorithm, for more information.
#
# Diagnostic weight ranges
# Primary weight range: 0200..3ACA (14539)
# Secondary weight range: 0020..0192 (371)
# Variant secondaries: 0159..015E (6)
# Digit secondaries: 015F..0192 (52)
# Tertiary weight range: 0002..001F (30)
#
@version 5.2.0

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* /opt/cola/permits/1151704606_1617967308.26/0/slf4j-log4j12-1-7-21-sources-4-
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1.6346 websocket-common 9.4.20.v20190813

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org.ow2.asm:asm-commons
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* /opt/cola/permits/1271008334_1644868672.2/0/netty-codec-dns-4-1-32-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
* /opt/cola/permits/1271008334_1644868672.2/0/netty-codec-dns-4-1-32-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
* /opt/cola/permits/1271008334_1644868672.2/0/netty-codec-dns-4-1-32-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
* /opt/cola/permits/1271008334_1644868672.2/0/netty-codec-dns-4-1-32-final-sources-
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1.6349 http-errors 1.8.1

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1.6350 wso2-carbon-apimgt-keymgt-stub

6.4.50

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q     float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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========================================================================================================

========================================================================================================
Buffruneio is a wrapper around bufio to provide buffered runes access with unlimited unreads.

```go
import "github.com/pelletier/go-buffruneio"
```

### Examples

```go
import (  
    "fmt"  
    "github.com/pelletier/go-buffruneio"  
    "strings"
)

fmt.Println(reader.ReadRune()) // 'a'
fmt.Println(reader.ReadRune()) // 'b'
fmt.Println(reader.ReadRune()) // 'c'
reader.UnreadRune()
reader.UnreadRune()
fmt.Println(reader.ReadRune()) // 'b'
fmt.Println(reader.ReadRune()) // 'c'
```

### Documentation

The documentation and additional examples are available at [godoc.org](http://godoc.org/github.com/pelletier/go-buffruneio).

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goproperties - properties file decoder for Go

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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}
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1.6355 topic-operator 0.27.1

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. xref:setting-up-git[Install and set up Git]

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  ** Provide alternative text
  ** Are described in the surrounding text
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  ** Include a caption
  ** Contain headings
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** Provide a logical reading order
** Don't contain empty cells
* Color is not used as the only visual means to convey information (not _check the green text_)

.Example image caption and description
[source,asciidoc]

---
.Operators within the Strimzi architecture
image:operators.png[Operators within the Strimzi architecture]
---

.Example table headings
[source,asciidoc]

---
.File connectors
[cols="2*",options="header"]
|===
|File Connector
|Description

|FileStreamSourceConnector
|Transfers data to your Kafka cluster from a file (the source).
|===
---

[[contributing]]
== Contributing to the documentation

Once you have your local repository set up and have up to date copies of upstream content you need to follow these steps to contribute to the documentation.

.Procedure
  . Open your terminal
  . `cd` to the directory where your documentation resides
  . Checkout the main branch
  +
  [source]
  ---
  $ git checkout main
  ---
  . Update your local repository and fork with the upstream content
  +
  [source]
  ---
  $ git pull upstream main
  $ git push origin main --force
  ---
Create a new branch for your work (using the issue number is helpful)

```bash
$ git checkout -b <branch-name>
```

Make your edits in the editor of your choice

Save your changes locally

Build your documentation to verify that there are no build errors and that everything looks right

This can be done with the Make tooling

If you are creating new files, add the files to the repository

```bash
$ git status
$ git add <file-name>
```

Commit your changes

```bash
$ git commit -a -s -m "<message>"
```

Note that the project requires all commits to be signed off, indicating that you certify the changes with the developer certificate of origin (DCO).

Push your changes to your fork

```bash
$ git push origin HEAD
```

If the update is rejected because the commit is behind, merge your changes

```bash
$ git pull upstream main
$ git push -f origin HEAD
```

Visit your fork on GitHub

Click *Compare & pull request*

If a SME review is needed:

Add *SME Review Needed* label.

When SME review is complete, remove *SME Review Completed* label and go to step 16.

Add *Peer Review Needed* label and assign a Reviewer.

When peer review has been completed, the reviewer deletes the *Peer Review Needed* label and adds the *Peer Review Done* label.
When *Peer Review Done* label has been added:
.. If no changes are needed, remove *Peer Review Done* label and add *Ready for Merge* label.
.. If changes are needed and the changes are minor, make changes to the files, commit, and push, and then remove *Peer Review Done* label and add *Ready for Merge* label.
.. If you want an additional review on the updated content, add the *Peer Review Needed* label and ask for another review in a comment.

**1.6356 binary-extensions 1.13.1**

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.6363 purell 1.1.0

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jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

## Third-party Content

This project leverages the following third party content.

javaee-api (7.0)

* License: Apache-2.0 AND W3C

JUnit (4.11)

* License: Common Public License 1.0

Mockito (2.16.0)

* Project: http://site.mockito.org
* Source: https://github.com/mockito/mockito/releases/tag/v2.16.0

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  jar/org/eclipse/jetty/jaas/callback/RequestParameterCallback.java
* /opt/cola/permits/1274566399_1645215196.6/0/jetty-jaas-9-2-22-v20170606-sources-
  jar/org/eclipse/jetty/jaas/callback/package-info.java
* /opt/cola/permits/1274566399_1645215196.6/0/jetty-jaas-9-2-22-v20170606-sources-
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  jar/org/eclipse/jetty/jaas/spi/AbstractDatabaseLoginModule.java
* /opt/cola/permits/1274566399_1645215196.6/0/jetty-jaas-9-2-22-v20170606-sources-
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* /opt/cola/permits/1274566399_1645215196.6/0/jetty-jaas-9-2-22-v20170606-sources-jar/org/eclipse/jetty/jaas/callback/ObjectCallback.java
* /opt/cola/permits/1274566399_1645215196.6/0/jetty-jaas-9-2-22-v20170606-sources-jar/org/eclipse/jetty/jaas/spi/PropertyFileLoginModule.java
* /opt/cola/permits/1274566399_1645215196.6/0/jetty-jaas-9-2-22-v20170606-sources-jar/org/eclipse/jetty/jaas/callback/AbstractCallbackHandler.java
* /opt/cola/permits/1274566399_1645215196.6/0/jetty-jaas-9-2-22-v20170606-sources-jar/org/eclipse/jetty/jaas/spi/UserInfo.java
* /opt/cola/permits/1274566399_1645215196.6/0/jetty-jaas-9-2-22-v20170606-sources-jar/org/eclipse/jetty/jaas/JAASRole.java
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* /opt/cola/permits/1274566399_1645215196.6/0/jetty-jaas-9-2-22-v20170606-sources-jar/org/eclipse/jetty/jaas/JAASLoginService.java
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MySQL 8.0

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
dkadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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Version 3.1, 31 March 2009

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libssh v0.7.3

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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The code has been modified by Mikael Ronstroem to handle
calculating a hash value of a key that is always a multiple
of 4 bytes long. Word 0 of the calculated 4-word hash value
is returned as the hash value.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify 
that version instead if you wish.) Do not make any other change in 
these notices.

Once this change is made in a given copy, it is irreversible for 
that copy, so the ordinary GNU General Public License applies to all 
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of 
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or 
derivative of it, under Section 2) in object code or executable form 
under the terms of Sections 1 and 2 above provided that you accompany 
it with the complete corresponding machine-readable source code, which 
must be distributed under the terms of Sections 1 and 2 above on a 
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy 
from a designated place, then offering equivalent access to copy the 
source code from the same place satisfies the requirement to 
distribute the source code, even though third parties are not 
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the 
Library, but is designed to work with the Library by being compiled or 
linked with it, is called a "work that uses the Library". Such a 
work, in isolation, is not a derivative work of the Library, and 
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library 
creates an executable that is a derivative of the Library (because it 
contains portions of the Library), rather than a "work that uses the 
library". The executable is therefore covered by this License. 
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file 
that is part of the Library, the object code for the work may be a 
derivative work of the Library even though the source code is not. 
Whether this is true is especially significant if the work can be 
linked without the Library, or if the work is itself a library. The 
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data 
structure layouts and accessors, and small macros and small inline 
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a
fee, you must give the recipients all the rights that we gave you. You must
make sure that they, too, receive or can get the source code. If you link a
program with the library, you must provide complete object files to the
recipients so that they can relink them with the library, after making
changes to the library and recompiling it. And you must show them these terms
so they know their rights.

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Finally, any free program is threatened constantly by software patents. We
wish to avoid the danger that companies distributing free software will
individually obtain patent licenses, thus in effect transforming the program
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patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU
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license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary one;
be sure to read it in full, and don't assume that anything in it is the same
as in the ordinary license.

The reason we have a separate public license for some libraries is that they
blur the distinction we usually make between modifying or adding to a program
and simply using it. Linking a program with a library, without changing the
library, is in some sense simply using the library, and is analogous to
running a utility program or application program. However, in a textual and
legal sense, the linked executable is a combined work, a derivative of the
original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public
License for libraries did not effectively promote software sharing, because
most developers did not use the libraries. We concluded that weaker
conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of
those programs of all benefit from the free status of the libraries
themselves. This Library General Public License is intended to permit
developers of non-free programs to use free libraries, while preserving your
freedom as a user of such programs to change the free libraries that are
incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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2. You may modify your copy or copies of the Library or any portion of it,
thus forming a work based on the Library, and copy and distribute such
modifications or work under the terms of Section 1 above, provided that you
also meet all of these conditions:

   a) The modified work must itself be a software library.
   b) You must cause the files modified to carry prominent notices stating
      that you changed the files and the date of any change.
   c) You must cause the whole of the work to be licensed at no charge to
      all third parties under the terms of this License.
   d) If a facility in the modified Library refers to a function or a table
      of data to be supplied by an application program that uses the facility,
      other than as an argument passed when the facility is invoked, then you must
      make a good faith effort to ensure that, in the event an application does not
      supply such function or table, the facility still operates, and performs
      whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a
      purpose that is entirely well-defined independent of the application.
      Therefore, Subsection 2d requires that any application-supplied function or
      table used by this function must be optional: if the application does not
      supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
sections of that work are not derived from the Library, and can be reasonably
considered independent and separate works in themselves, then this License,
and its terms, do not apply to those sections when you distribute them as
separate works. But when you distribute the same sections as part of a whole
which is a work based on the Library, the distribution of the whole must be
on the terms of this License, whose permissions for other licensees extend to
the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise the
right to control the distribution of derivative or collective works based on
the Library.

In addition, mere aggregation of another work not based on the Library with
the Library (or with a work based on the Library) on a volume of a storage or
distribution medium does not bring the other work under the scope of this
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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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MySQL Router 8.0

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### 1.6386 jest-pnp-resolver 1.2.2

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[Plug'n'Play](https://github.com/yarnpkg/rfcs/pull/101) resolver for Jest

[!node version](https://img.shields.io/node/v/jest-pnp-resolver.svg)](https://www.npmjs.com/package/jest-pnp-resolver)

*This plugin is also available for Rollup ([rollup-plugin-pnp-resolve](https://github.com/arcanis/rollup-plugin-pnp-resolve)), TypeScript ([ts-pnp](https://github.com/arcanis/ts-pnp)), and Webpack ([pnp-webpack-plugin](https://github.com/arcanis/pnp-webpack-plugin))*

## Installation
```
yarn add -D jest-pnp-resolver
```

## Usage

As of `jest@^24.4.0` you don't need to manually add this package anymore. The default resolver will already use PnP.

Simply add the resolver to your configuration. For example, a minimal `jest.config.js` would be as such:

```js
module.exports = {
  resolver: require.resolve(`jest-pnp-resolver`)
};
```

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Found in path(s):

* /opt/cola/permits/1165426961_1621012418.44/0/jest-pnp-resolver-1-2-2-4-tgz/package/README.md

1.6387 buffer-fill 1.0.0

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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   d) If a facility in the modified Library refers to a function or a
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Found in path(s):
* /opt/cola/permits/1210865392_1634944706.41/0/etcd-v3-4-16-linux-amd64-tar-gz/etcd-v3.4.16-linux-
1.6422 crypto-policies 20210209-
1.gitbfb6bed.el8_3
1.6422.1 Available under license:

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END OF TERMS AND CONDITIONS

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To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

1.6424 html5lib 1.1

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If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
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Subsection 6a, above, for a charge no more than the cost of
performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
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components (compiler, kernel, and so on) of the operating system on
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From gsf@research.att.com Wed Mar 1 20:30:54 2006
Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
by localhost (Postfix) with ESMTP id B8C814E4F
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)
X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]
by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100
Received: from raptor.research.att.com (raptor.research.att.com [135.207.23.32])
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for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Received: (from gsf@localhost)
by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112
for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.06030120111250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: JIF3ZO9DeSEkJ2TcbHQhaXN11GRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
Licensed under the LGPL v2.1, see the file COPYING.LIB in this tarball.

1.6435 perl-io-socket-ssl 2.066-4.module_el8.3.0+410+ff426aa3

1.6435.1 Available under license:
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1.6436 jetty-webapp 9.4.42.v20210604

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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src/bdf/bdf.c	src/bdf/bdf.h
src/bdf/bdfdrivr.c	src/bdf/bdfdrivr.h
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* /opt/cola/permits/1274596075_1645218496.24/0/vertx-web-3-9-1-sources-jar/io/vertx/ext/web/impl/RouteState.java
* /opt/cola/permits/1274596075_1645218496.24/0/vertx-web-3-9-1-sources-jar/io/vertx/ext/web/handler/impl/MultiTenantHandlerImpl.java
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1.6454 wso2-carbon-event-stream-persistence-stub 5.1.42

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1.6474 wso2-carbon-tenant-deployment

4.6.15

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# This is the official list of people who can contribute
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# An entry with multiple email addresses specifies that the
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# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

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```
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4.7.27

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1.6527 nss 3.53.1 17.el8_3

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1.6531 wso2-carbon-registry-ws-api 4.6.38

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1.6544 gogo-status 1.0.3

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1.6545 perl-mime-base64 3.15 396.el8

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This package contains a base64 encoder/decoder and a quoted-printable encoder/decoder. These encoding methods are specified in RFC 2045 - MIME (Multipurpose Internet Mail Extensions).

The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

In order to install and use this package you will need Perl version
5.6 or better. Installation as usual:

perl Makefile.PL
make
make test
make install

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---
abstract: 'The RFC 2045 encodings; base64 and quoted-printable'
author:
- 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: MIME-Base64
no_index:
directory:
  - t
  - inc
requires:
  XSLoader: 0
perl: 5.004
resources:
  repository: https://github.com/gisle/mime-base64
version: 3.15

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=head1 NAME

MIME::Base64 - Encoding and decoding of base64 strings

=head1 SYNOPSIS

use MIME::Base64;

$encoded = encode_base64('Aladdin:open sesame');
$decoded = decode_base64($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the base64 encoding specified in RFC 2045 - I<MIME (Multipurpose Internet Mail Extensions)>. The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The following primary functions are provided:

=over 4

=item encode_base64( $bytes )

=item encode_base64( $bytes, $eol );

Encode data by calling the encode_base64() function. The first argument is the byte string to encode. The second argument is the line-ending sequence to use. It is optional and defaults to "\n". The returned encoded string is broken into lines of no more than 76 characters each and it will end with $eol unless it is empty. Pass an empty string as second argument if you do not want the encoded string to be broken into lines.

The function will croak with "Wide character in subroutine entry" if $bytes contains characters with code above 255. The base64 encoding is only defined for single-byte characters. Use the Encode module to select the byte encoding you want.

=item decode_base64( $str )

Decode a base64 string by calling the decode_base64() function. This function takes a single argument which is the string to decode and returns the decoded data.
Any character not part of the 65-character base64 subset is silently ignored. Characters occurring after a '=' padding character are never decoded.

=back

If you prefer not to import these routines into your namespace, you can call them as:

```perl
use MIME::Base64 ();
$encoded = MIME::Base64::encode($decoded);
$decoded = MIME::Base64::decode($encoded);
```

Additional functions not exported by default:

=over 4

=item encode_base64url( $bytes )

=item decode_base64url( $str )

Encode and decode according to the base64 scheme for "URL applications" [1]. This is a variant of the base64 encoding which does not use padding, does not break the string into multiple lines and use the characters "-" and "_" instead of "+" and "/" to avoid using reserved URL characters.

=item encoded_base64_length( $bytes )

=item encoded_base64_length( $bytes, $eol )

Returns the length that the encoded string would have without actually encoding it. This will return the same value as C<< length(encode_base64($bytes))>>, but should be more efficient.

=item decoded_base64_length( $str )

Returns the length that the decoded string would have without actually decoding it. This will return the same value as C<< length(decode_base64($str))>>, but should be more efficient.

=back

=head1 EXAMPLES

If you want to encode a large file, you should encode it in chunks that are a multiple of 57 bytes. This ensures that the base64 lines line up and that you do not end up with padding in the middle. 57
bytes of data fills one complete base64 line (76 == 57*4/3):

```perl
use MIME::Base64 qw(encode_base64);

open(FILE, "/var/log/wtmp") or die "$!";
while (read(FILE, $buf, 60*57)) {
    print encode_base64($buf);
}
```

or if you know you have enough memory

```perl
use MIME::Base64 qw(encode_base64);
local($/) = undef; # slurp
print encode_base64(<STDIN>);
```

The same approach as a command line:

```perl
perl -MMIME::Base64 -0777 -ne 'print encode_base64($_)' <file
```

Decoding does not need slurp mode if every line contains a multiple of four base64 chars:

```perl
perl -MMIME::Base64 -ne 'print decode_base64($_)' <file
```

Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the base64 encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

```perl
use MIME::Base64 qw(encode_base64);
use Encode qw(encode);

$encoded = encode_base64(encode("UTF-8", "x{FFFF}\n");
print $encoded;
```

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Distantly based on LWP::Base64 written by Martijn Koster <m.koster@nexor.co.uk> and Joerg Reichelt <j.reichelt@nexor.co.uk> and code posted to comp.lang.perl <3pd2lp$6gf@wsinti07.win.tue.nl> by Hans Mulder <hansm@wsinti07.win.tue.nl>
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=head1 SEE ALSO

L<MIME::QuotedPrint>


cut

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=head1 NAME

MIME::QuotedPrint - Encoding and decoding of quoted-printable strings

=head1 SYNOPSIS

use MIME::QuotedPrint;

$encoded = encode_qp($decoded);
$decoded = decode_qp($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the quoted-printable encoding specified in RFC 2045 - I<MIME (Multipurpose Internet Mail Extensions)>. The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character (as defined by English Americans) is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

The following functions are provided:
This function returns an encoded version of the string ($str) given as argument.

The second argument ($eol) is the line-ending sequence to use. It is optional and defaults to "\n". Every occurrence of "\n" is replaced with this string, and it is also used for additional "soft line breaks" to ensure that no line end up longer than 76 characters. Pass it as "\015\012" to produce data suitable for external consumption. The string "\r\n" produces the same result on many platforms, but not all.

The third argument ($binmode) will select binary mode if passed as a TRUE value. In binary mode "\n" will be encoded in the same way as any other non-printable character. This ensures that a decoder will end up with exactly the same string whatever line ending sequence it uses. In general it is preferable to use the base64 encoding for binary data; see L<MIME::Base64>.

An $eol of "" (the empty string) is special. In this case, no "soft line breaks" are introduced and binary mode is effectively enabled so that any "\n" in the original data is encoded as well.

This function returns the plain text version of the string given as argument. The lines of the result are "\n" terminated, even if the $str argument contains "\r\n" terminated lines.

If you prefer not to import these routines into your namespace, you can call them as:

use MIME::QuotedPrint ();
$encoded = MIME::QuotedPrint::encode($decoded);
$decoded = MIME::QuotedPrint::decode($encoded);

Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the quoted-printable encoding
encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

```perl
use MIME::QuotedPrint qw(encode_qp);
use Encode qw(encode);

$encoded = encode_qp(encode("UTF-8", "\x{FFFF}\n"));
print $encoded;
```

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=head1 SEE ALSO

L<MIME::Base64>

=cut

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1.6546 p-limit 1.3.0

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1.6550 @babel/helper-function-name 7.18.6

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Tests included here are based on build output generated by the six-speed benchmark suite.

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----------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*<h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is &lt;tt&gt;12 (0x0C)&lt;/tt&gt; which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* |lengthFieldOffset | = &lt;b&gt;0&lt;/b&gt;
* |lengthFieldLength | = &lt;b&gt;2&lt;/b&gt;
* |lengthAdjustment  | = 0
* |initialBytesToStrip | = 0 (= do not strip header)
*<h3>B E F O R E D E C O D E (14 bytes)  A F T E R D E C O D E (14 bytes)
* +-----------------+ +-------------------+
* | Length | Actual Content |-------| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +-----------------+ +-------------------+
* </pre>
* <h3>2 bytes length field at offset 0, strip header</h3>

* Because we can get the length of the content by calling
  * {@link ByteBuf#readableBytes()}, you might want to strip the length
  * field by specifying <tt>initialBytesToStrip</tt>. In this example, we
  * specified <tt>2</tt>, that is same with the length of the length field, to
  * strip the first two bytes.
  * <pre>
  * lengthFieldOffset   = 0
  * lengthFieldLength   = 2
  * lengthAdjustment    = 0
  * <tt>initialBytesToStrip</tt> = <tt>2</tt> (= the length of the Length field)
  *
  * BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
  * +--------+----------------+      +----------------+
  * | Length | Actual Content |----->| Actual Content |
  * | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
  * +--------+----------------+      +----------------+
  * </pre>

* <h3>2 bytes length field at offset 0, do not strip header, the length field
  * represents the length of the whole message</h3>

* In most cases, the length field represents the length of the message body
  * only, as shown in the previous examples. However, in some protocols, the
  * length field represents the length of the whole message, including the
  * message header. In such a case, we specify a non-zero
  * <tt>lengthAdjustment</tt>. Because the length value in this example message
  * is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
  * as <tt>lengthAdjustment</tt> for compensation.
  * <pre>
  * lengthFieldOffset   = 0
  * lengthFieldLength   = 2
  * <tt>lengthAdjustment</tt> = <tt>-2</tt> (= the length of the Length field)
  * initialBytesToStrip = 0
  *
  * BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
  * +--------+----------------+      +--------+----------------+
  * | Length | Actual Content |----->| Length | Actual Content |
  * | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
  * +--------+----------------+      +--------+----------------+
  * </pre>

* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>

* The following message is a simple variation of the first example. An extra
  * header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
*<pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
*<pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
*<pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into lengthAdjustment.

Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

lengthFieldOffset = 1
lengthFieldLength = 2
lengthAdjustment = -3
initialBytesToStrip = 3

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
+-----------------+------+------------------+      +------+------------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+-----------------+------+------------------+      +------+------------------+
</pre>

@see LengthFieldPrepender

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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/DecoderException.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/UnsetMessageTypeException.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/DecompressionException.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallProvider.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/base64/package-info.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java

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  jar/io.netty.handler.codec.compression/Lz4XXHash32.java
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  jar/io.netty.handler.codec.string/LineSeparator.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io.netty.handler.codec.DatagramPacketEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io.netty.handler.codec.string/LineEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io.netty.handler.codec/CodecOutputList.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io.netty.handler.codec/ByteBufferChecksum.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io.netty.handler.codec/CompressionUtil.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io.netty.handler.codec/CodecOutputList.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io.netty.handler.codec/DatagramPacketDecoder.java
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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/protobuf/ProtocolDetectionState.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/protobuf/ProtocolDetectionResult.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java

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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/ValueConverter.java

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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java

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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/JsonObjectDecoder.java
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
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* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
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* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/json/package-info.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
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* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
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jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/FastLz.java
* /opt/ cola/permits/1257282550_1642795744.0/0/netty- codec-4-1-45-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java

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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
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*******************

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*******************

History of the software
========================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
-------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

    A C-program for MT19937, with initialization improved 2002/1/26.
    Coded by Takuji Nishimura and Makoto Matsumoto.

    Before using, initialize the state by using init_genrand(seed)
    or init_by_array(init_key, key_length).

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Sockets
-------

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Asynchronous socket services
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
------------------------

The `xmlrpc.client` module contains the following notice::

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--------

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Original location:
  https://github.com/majek/csiphash/

Solution inspired by code from:
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  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
-----------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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expat
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libffi
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zlib
----

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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libmpdec
--------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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